Package ‘civis’

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admin_delete_announcements

Delete an announcement

Description
Delete an announcement

Usage
admin_delete_announcements(id)

Arguments
id integer required. The ID of this announcement

Value
An empty HTTP response

Index

admin_get_announcements

Get a particular announcement

Description
Get a particular announcement

Usage
admin_get_announcements(id)
Arguments

id
integer required. The ID of this announcement

Value

A list containing the following elements:

id integer, The ID of this announcement
subject string, The subject of this announcement.
body string, The body of this announcement.
releasedAt string, The date and time this announcement was released.
createdAt string,
updatedAt string,

Description

List announcements

Usage

admin_list_announcements(
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments

limit integer optional. Number of results to return. Defaults to 10. Maximum allowed is 50.
page_num integer optional. Page number of the results to return. Defaults to the first page, 1.
order string optional. The field on which to order the result set. Defaults to released_at. Must be one of: released_at.
order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.
Value

An array containing the following fields:

- **id**: integer, The ID of this announcement.
- **subject**: string, The subject of this announcement.
- **body**: string, The body of this announcement.
- **releasedAt**: string, The date and time this announcement was released.
- **createdAt**: string,
- **updatedAt**: string,

admin_list_organizations

---

List organizations

Description

List organizations

Usage

admin_list_organizations(status = NULL, org_type = NULL)

Arguments

- **status**: array optional. The status of the organization (active/trial/inactive).
- **org_type**: array optional. The organization type (platform/ads/survey_vendor/other).

Value

An array containing the following fields:

- **id**: integer, The ID of this organization.
- **name**: string, The name of this organization.
- **slug**: string, The slug of this organization.
- **accountManagerId**: integer, The user ID of the Account Manager.
- **csSpecialistId**: integer, The user ID of the Client Success Specialist.
- **status**: string, The status of the organization (active/trial/inactive).
- **orgType**: string, The organization type (platform/ads/survey_vendor/other).
- **customBranding**: string, The custom branding settings.
- **contractSize**: integer, The monthly contract size.
- **maxAnalystUsers**: integer, The max number of full platform users for the org.
maxReportUsers  integer, The max number of report-only platform users for the org.
vertical        string, The business vertical that the organization belongs to.
csMetadata     string, Additional metadata about the organization in JSON format.
removeFooterInEmails  boolean, If true, emails sent by platform will not include Civis text.
salesforceAccountId string, The SalesForce Account ID for this organization.
advancedSettings list, A list containing the following elements:
  • dedicatedDjPoolEnabled boolean, If true, the Organization has a dedicated delayed jobs pool. Defaults to false.
tableauRefreshHistory array, The number of tableau refreshes used this month.

admin_patch_announcements

Edit an announcement

Description
Edit an announcement

Usage
admin_patch_announcements(id, subject = NULL, body = NULL, released_at = NULL)

Arguments

id    integer required. The ID of this announcement
subject    string optional. The subject of this announcement.
body    string optional. The body of this announcement.
released_at    string optional. The date and time this announcement was released.

Value
A list containing the following elements:

id    integer, The ID of this announcement
subject    string, The subject of this announcement.
body    string, The body of this announcement.
releasedAt    string, The date and time this announcement was released.
createdAt    string,
updatedAt    string,
admin_patch_themes

Edit a theme

Description

Edit a theme

Usage

admin_patch_themes(
    id,
    name = NULL,
    organization_ids = NULL,
    settings_json = NULL,
    logo_file_id = NULL
)

Arguments

id integer required. The ID of this theme.
name string optional. The name of this theme.
organization_ids array optional. List of organization ID’s allowed to see this theme.
settings_json string optional. The JSON-encoded theme configuration.
logo_file_id string optional. The ID of the logo image file.

Value

A list containing the following elements:

id integer, The ID of this theme.
name string, The name of this theme.
organizationIds array, List of organization ID’s allowed to use this theme.
settings string, The theme configuration object.
logoFile list, A list containing the following elements:
    • id integer, The ID of the logo image file.
    • downloadUrl string, The URL of the logo image file.
createdAt string,
updatedAt string,
admin_post_announcements

Post an announcement

Description

Post an announcement

Usage

admin_post_announcements(subject, body, released_at = NULL)

Arguments

subject string required. The subject of this announcement.
body string required. The body of this announcement.
released_at string optional. The date and time this announcement was released.

Value

A list containing the following elements:
id integer, The ID of this announcement
subject string, The subject of this announcement.
body string, The body of this announcement.
releasedAt string, The date and time this announcement was released.
createdAt string,
updatedAt string,

admin_post_themes

Create a theme

Description

Create a theme

Usage

admin_post_themes(
  name,
  settings_json,
  organization_ids = NULL,
  logo_file_id = NULL
)
Arguments

- **name** string required. The name of this theme.
- **settings_json** string required. The JSON-encoded theme configuration.
- **organization_ids** array optional. List of organization ID’s allowed to see this theme.
- **logo_file_id** string optional. The ID of the logo image file.

Value

A list containing the following elements:

- **id** integer, The ID of this theme.
- **name** string, The name of this theme.
- **organizationIds** array, List of organization ID’s allowed to use this theme.
- **settings** string, The theme configuration object.
- **logoFile** list, A list containing the following elements:
  - **id** integer, The ID of the logo image file.
  - **downloadUrl** string, The URL of the logo image file.
- **createdAt** string,
- **updatedAt** string,

---

**aliases_delete** *Delete an alias*

Description

Delete an alias

Usage

`aliases_delete(id)`

Arguments

- **id** integer required. The id of the Alias object.

Value

An empty HTTP response
**aliases_delete_shares_groups**

*Revoke the permissions a group has on this object*

**Description**

Revoke the permissions a group has on this object

**Usage**

`aliases_delete_shares_groups(id, group_id)`

**Arguments**

- **id** integer required. The ID of the resource that is shared.
- **group_id** integer required. The ID of the group.

**Value**

An empty HTTP response

---

**aliases_delete_shares_users**

*Revoke the permissions a user has on this object*

**Description**

Revoke the permissions a user has on this object

**Usage**

`aliases_delete_shares_users(id, user_id)`

**Arguments**

- **id** integer required. The ID of the resource that is shared.
- **user_id** integer required. The ID of the user.

**Value**

An empty HTTP response
 aliases_get 

*Get an Alias*

**Description**

Get an Alias

**Usage**

```python
aliases_get(id)
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required.</td>
</tr>
</tbody>
</table>

**Value**

A list containing the following elements:

- **id** integer, The id of the Alias object.
- **objectId** integer, The id of the object
- **objectType** string, The type of the object. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
- **alias** string, The alias of the object
- **userId** integer, The id of the user who created the alias
- **displayName** string, The display name of the Alias object. Defaults to object name if not provided.

 aliases_get_object_type 

*Get details about an alias within an FCO type*

**Description**

Get details about an alias within an FCO type

**Usage**

```python
aliases_get_object_type(object_type, alias)
```
**aliases_list**

**Arguments**

- **object_type**: string required. The type of the object. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.

- **alias**: string required. The alias of the object

**Value**

A list containing the following elements:

- **id**: integer, The id of the Alias object.
- **objectId**: integer, The id of the object
- **objectType**: string, The type of the object. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.

- **alias**: string, The alias of the object
- **userId**: integer, The id of the user who created the alias
- **displayName**: string, The display name of the Alias object. Defaults to object name if not provided.

---

**aliases_list**

*List Aliases*

**Description**

List Aliases

**Usage**

```python
aliases_list(
    object_type = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

- **object_type**: string optional. Filter results by object type. Pass multiple object types with a comma-separated list. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
aliases_list_shares

**limit**
integer optional. Number of results to return. Defaults to 50. Maximum allowed is 1000.

**page_num**
integer optional. Page number of the results to return. Defaults to the first page, 1.

**order**
string optional. The field on which to order the result set. Defaults to id. Must be one of: id, object_type.

**order_dir**
string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

**Value**
An array containing the following fields:

- **id**
  integer, The id of the Alias object.

- **objectId**
  integer, The id of the object

- **objectType**
  string, The type of the object. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, saleforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.

- **alias**
  string, The alias of the object

- **userId**
  integer, The id of the user who created the alias

- **displayName**
  string, The display name of the Alias object. Defaults to object name if not provided.

**aliases_list_shares**

*List users and groups permissioned on this object*

**Description**
List users and groups permissioned on this object

**Usage**

aliases_list_shares(id)

**Arguments**

- **id**
  integer required. The ID of the resource that is shared.
aliases_patch

Value

An array containing the following fields:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

aliases_patch

Update some attributes of this Alias

Description

Update some attributes of this Alias

Usage

aliases_patch(
  id,
  object_id = NULL,
  object_type = NULL,
  alias = NULL,
  display_name = NULL
)

Arguments

- **id** integer required. The id of the Alias object.
- **object_id** integer optional. The id of the object.
- **object_type** string optional. The type of the object. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
- **alias** string optional. The alias of the object.
- **display_name** string optional. The display name of the Alias object. Defaults to object name if not provided.
Value
A list containing the following elements:

- id: integer, The id of the Alias object.
- objectId: integer, The id of the object.
- objectType: string, The type of the object. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
- alias: string, The alias of the object.
- userId: integer, The id of the user who created the alias.
- displayName: string, The display name of the Alias object. Defaults to object name if not provided.

aliases_post

Create an Alias

Description
Create an Alias

Usage
aliases_post(object_id, object_type, alias, display_name = NULL)

Arguments
object_id: integer required. The id of the object.
object_type: string required. The type of the object. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
alias: string required. The alias of the object.
display_name: string optional. The display name of the Alias object. Defaults to object name if not provided.

Value
A list containing the following elements:

- id: integer, The id of the Alias object.
- objectId: integer, The id of the object.
aliases_put

objectType string, The type of the object. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.

alias string, The alias of the object

userId integer, The id of the user who created the alias

displayName string, The display name of the Alias object. Defaults to object name if not provided.

aliases_put Replace all attributes of this Alias

Description

Replace all attributes of this Alias

Usage

aliases_put(id, object_id, object_type, alias, display_name = NULL)

Arguments

id integer required. The id of the Alias object.

object_id integer required. The id of the object

object_type string required. The type of the object. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.

alias string required. The alias of the object

display_name string optional. The display name of the Alias object. Defaults to object name if not provided.

Value

A list containing the following elements:

id integer, The id of the Alias object.

objectId integer, The id of the object

objectType string, The type of the object. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.

alias string, The alias of the object

userId integer, The id of the user who created the alias

displayName string, The display name of the Alias object. Defaults to object name if not provided.
aliases_put_shares_groups

Set the permissions groups has on this object

Description
Set the permissions groups has on this object

Usage
aliases_put_shares_groups(
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)

Arguments
id integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value
A list containing the following elements:
readers list, A list containing the following elements:
  • users array,
  • groups array,
writers list, A list containing the following elements:
  • users array,
  • groups array,
owners list, A list containing the following elements:
  • users array,
  • groups array,
totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares
    integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

aliases_put_shares_users
    Set the permissions users have on this object

Description
    Set the permissions users have on this object

Usage
    aliases_put_shares_users(
        id,
        user_ids,
        permission_level,
        share_email_body = NULL,
        send_shared_email = NULL
    )

Arguments
    id                        integer required. The ID of the resource that is shared.
    user_ids                  array required. An array of one or more user IDs.
    permission_level          string required. Options are: "read", "write", or "manage".
    share_email_body          string optional. Custom body text for e-mail sent on a share.
    send_shared_email         boolean optional. Send email to the recipients of a share.

Value
    A list containing the following elements:
    readers                   list, A list containing the following elements:
                                • users array,
                                • groups array,
    writers                   list, A list containing the following elements:
                                • users array,
                                • groups array,
    owners                    list, A list containing the following elements:
                                • users array,
• groups array,

**totalUserShares**
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

**totalGroupShares**
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**announcements_list**

*List announcements*

**Description**

List announcements

**Usage**

```
announcements_list(
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

- **limit** integer optional. Number of results to return. Defaults to 10. Maximum allowed is 50.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to released_at. Must be one of: released_at.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

- **id** integer, The ID of this announcement
- **subject** string, The subject of this announcement.
- **body** string, The body of this announcement.
- **releasedAt** string, The date and time this announcement was released.
- **createdAt** string,
- **updatedAt** string,
**Description**

Remove an App Instance from a project

**Usage**

```
apps_delete_instances_projects(id, project_id, slug)
```

**Arguments**

- **id**: integer required. The ID of the App Instance.
- **project_id**: integer required. The ID of the project.
- **slug**: string required. The slug for the application.

**Value**

An empty HTTP response

---

**Description**

Revoke the permissions a group has on this object

**Usage**

```
apps_delete_instances_shares_groups(slug, id, group_id)
```

**Arguments**

- **slug**: string required. The slug for the application.
- **id**: integer required. The ID of the resource that is shared.
- **group_id**: integer required. The ID of the group.

**Value**

An empty HTTP response
**Description**

Revoke the permissions a user has on this object

**Usage**

```python
apps_delete_instances_shares_users(slug, id, user_id)
```

**Arguments**

- `slug` string required. The slug for the application.
- `id` integer required. The ID of the resource that is shared.
- `user_id` integer required. The ID of the user.

**Value**

An empty HTTP response

---

**apps_delete_releases_shares_groups**

Revoke the permissions a group has on this object

**Description**

Revoke the permissions a group has on this object

**Usage**

```python
apps_delete_releases_shares_groups(slug, id, group_id)
```

**Arguments**

- `slug` string required. The slug for the application.
- `id` integer required. The ID of the resource that is shared.
- `group_id` integer required. The ID of the group.

**Value**

An empty HTTP response
Description

Revoke the permissions a user has on this object

Usage

apps_delete_releases_shares_users(slug, id, user_id)

Arguments

slug string required. The slug for the application.
id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value

An empty HTTP response

Description

List details of a Decision Application

Usage

apps_get(slug)

Arguments

slug string required. The slug for the application.
Value
A list containing the following elements:

- **slug** string, The slug for the application.
- **id** integer, The unique id of the application.
- **instanceName** string, A word that describes an instance of this app.
- **name** string, The name of the application.
- **currentRelease** list, A list containing the following elements:
  - **id** integer, The unique id of the release.
  - **appId** integer, The id of the app the release belongs to.
  - **reportTemplateId** integer, ID of the report template for this release.
  - **resources** object, A hash of resources associated with this release.
  - **archived** string, The archival status of the requested item(s).
- **features** list, App features.

apps_get_instances  
Return a given app instance

Description
Return a given app instance

Usage
apps_get_instances(id, slug)

Arguments
- **id** integer required. The unique id of the instance.
- **slug** string required. The slug for the application.

Value
A list containing the following elements:

- **id** integer, The unique id of the instance.
- **name** string, The name of the instance.
- **appId** integer, The id of the app the instance belongs to.
- **reportId** integer, The id of the report the instance belongs to.
- **createdAt** string, The time the instance was created at.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
Return a given app release

Usage

`apps_get_releases(id, slug)`

Arguments

- `id` integer required. The unique id of the release.
- `slug` string required. The slug for the application.

Value

A list containing the following elements:

- `id` integer, The unique id of the release.
- `appId` integer, The id of the app the release belongs to.
- `reportTemplateId` integer, ID of the report template for this release.
- `resources` list, A hash of resources associated with this release.
- `archived` string, The archival status of the requested item(s).
### apps_list 
**List apps**

**Description**
List apps

**Usage**

```python
apps_list()
```

**Value**
An array containing the following fields:

- `slug` (string): The slug for the application.
- `id` (integer): The unique id of the application.
- `instanceName` (string): A word that describes an instance of this app.
- `name` (string): The name of the application.

### apps_list_instances 
**List the instances of a Decision Application**

**Description**
List the instances of a Decision Application

**Usage**

```python
apps_list_instances(
    slug,
    archived = NULL,
    app_release_id = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```
**apps_list_instances_projects**

*List the projects an App Instance belongs to*

**Arguments**

- **slug** string required. The slug for the application.
- **archived** string optional. The archival status of the requested item(s).
- **app_release_id** integer optional. If supplied, return only instances matching this release.
- **limit** integer optional. Number of results to return. Defaults to its maximum of 50.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to id. Must be one of: id, created_at.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

**Value**

An array containing the following fields:

- **id** integer, The unique id of the instance.
- **name** string, The name of the instance.
- **appReleaseId** integer, The id of the app release the instance belongs to.
- **reportId** integer, The id of the report the instance belongs to.
- **createdAt** string, The time the instance was created at.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **projectId** integer, The id of the project collecting all the items that belong to this app instance.
- **archived** string, The archival status of the requested item(s).

---

**Description**

List the projects an App Instance belongs to

**Usage**

apps_list_instances_projects(id, slug, hidden = NULL)
Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the App Instance.</td>
</tr>
<tr>
<td>slug</td>
<td>string required. The slug for the application.</td>
</tr>
<tr>
<td>hidden</td>
<td>boolean optional. If specified to be true, returns hidden items.</td>
</tr>
</tbody>
</table>

Value

An array containing the following fields:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer. The ID for this project.</td>
</tr>
<tr>
<td>author</td>
<td>list. A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id integer. The ID of this user.</td>
</tr>
<tr>
<td></td>
<td>• name string. This user’s name.</td>
</tr>
<tr>
<td></td>
<td>• username string. This user’s username.</td>
</tr>
<tr>
<td></td>
<td>• initials string. This user’s initials.</td>
</tr>
<tr>
<td></td>
<td>• online boolean. Whether this user is online.</td>
</tr>
<tr>
<td>name</td>
<td>string. The name of this project.</td>
</tr>
<tr>
<td>description</td>
<td>string. A description of the project.</td>
</tr>
<tr>
<td>users</td>
<td>array. An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>• id integer. The ID of this user.</td>
</tr>
<tr>
<td></td>
<td>• name string. This user’s name.</td>
</tr>
<tr>
<td></td>
<td>• username string. This user’s username.</td>
</tr>
<tr>
<td></td>
<td>• initials string. This user’s initials.</td>
</tr>
<tr>
<td></td>
<td>• online boolean. Whether this user is online.</td>
</tr>
<tr>
<td>autoShare</td>
<td>boolean.</td>
</tr>
<tr>
<td>createdAt</td>
<td>string.</td>
</tr>
<tr>
<td>updatedAt</td>
<td>string.</td>
</tr>
<tr>
<td>archived</td>
<td>string. The archival status of the requested item(s).</td>
</tr>
</tbody>
</table>

---

**apps_list_instances_shares**

*List users and groups permissioned on this object*

Description

List users and groups permissioned on this object

Usage

```python
apps_list_instances_shares(slug, id)
```
**apps_list_releases**

**Arguments**

- **slug** string required. The slug for the application.
- **id** integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**Description**

List the releases of a particular Decision Application

**Usage**

```python
apps_list_releases(  
    slug,  
    archived = NULL,  
    limit = NULL,  
    page_num = NULL,  
    order = NULL,  
    order_dir = NULL  
)```
Arguments

- **slug**: string required. The slug for the application.
- **archived**: string optional. The archival status of the requested item(s).
- **limit**: integer optional. Number of results to return. Defaults to its maximum of 50.
- **page_num**: integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**: string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
- **order_dir**: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

Value

An array containing the following fields:

- **id**: integer, The unique id of the release.
- **appId**: integer, The id of the app the release belongs to.
- **reportTemplateId**: integer, ID of the report template for this release.
- **resources**: list, A hash of resources associated with this release.
- **archived**: string, The archival status of the requested item(s).

```plaintext
apps_list_releases_shares

List users and groups permissioned on this object
```

Description

List users and groups permissioned on this object

Usage

`apps_list_releases_shares(slug, id)`

Arguments

- **slug**: string required. The slug for the application.
- **id**: integer required. The ID of the resource that is shared.
Value
An array containing the following fields:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**apps_patch_instances**  
*Update a given app instance*

---

Description
Update a given app instance

Usage
```
apps_patch_instances(id, slug, name = NULL)
```

Arguments
- **id** integer required. The unique id of the instance.
- **slug** string required. The slug for the application.
- **name** string optional. The name of the instance.

Value
A list containing the following elements:

- **id** integer, The unique id of the instance.
- **name** string, The name of the instance.
- **appReleaseId** integer, The id of the app release the instance belongs to.
- **reportId** integer, The id of the report the instance belongs to.
### apps_patch_releases

#### Update an existing Decision Application release

**Description**

Update an existing Decision Application release

**Usage**

```plaintext
apps_patch_releases(slug, id, report_template_id = NULL, resources = NULL)
```

**Arguments**

- `slug` string required. The slug for the application.
- `id` integer required. The unique id of the release.
- `report_template_id` integer optional. ID of the report template for this release.
- `resources` list optional. A hash of resources associated with this release.

**Value**

A list containing the following elements:

- `id` integer, The unique id of the release.
- `appId` integer, The id of the app the release belongs to.
- `reportTemplateId` integer, ID of the report template for this release.
- `resources` list, A hash of resources associated with this release.
- `archived` string, The archival status of the requested item(s).
Create a new instance of an application of the given slug

Usage

apps_post_instances(slug, name = NULL)

Arguments

slug string required. The slug for the application.
name string optional. The name of the instance.

Value

A list containing the following elements:

- id integer, The unique id of the instance.
- name string, The name of the instance.
- appReleaseId integer, The id of the app release the instance belongs to.
- reportId integer, The id of the report the instance belongs to.
- createdAt string, The time the instance was created at.
- user list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- projectId integer, The id of the project collecting all the items that belong to this app instance.
- authCodeUrl string,
- apiKey string, A Civis API key that can be used by this app instance.
- archived string, The archival status of the requested item(s).
apps_post_releases  

Create a new Decision Application release

Description

Create a new Decision Application release

Usage

apps_post_releases(slug, report_template_id, resources)

Arguments

- slug: string required. The slug for the application.
- report_template_id: integer required. ID of the report template for this release.
- resources: list required. A hash of resources associated with this release.

Value

A list containing the following elements:

- id: integer, The unique id of the release.
- appId: integer, The id of the app the release belongs to.
- reportTemplateId: integer, ID of the report template for this release.
- resources: list, A hash of resources associated with this release.
- archived: string, The archival status of the requested item(s).

apps_put_features  

Update the Decision Application features for a given organization

Description

Update the Decision Application features for a given organization

Usage

apps_put_features(slug, org, features)

Arguments

- slug: string required. The slug for the application.
- org: string required. Organization.
- features: list required. App features.
Value
A list containing the following elements:

- **slug** string, The slug for the application.
- **id** integer, The unique id of the application.
- **instanceName** string, A word that describes an instance of this app.
- **name** string, The name of the application.
- **currentRelease** list, A list containing the following elements:
  - id integer, The unique id of the release.
  - appId integer, The id of the app the release belongs to.
  - reportTemplateId integer, ID of the report template for this release.
  - resources object, A hash of resources associated with this release.
  - archived string, The archival status of the requested item(s).
- **features** list, App features.

---

**apps_put_instances_archive**

*Update the archive status of this object*

Description
Update the archive status of this object

Usage

```plaintext
apps_put_instances_archive(id, slug, status)
```

Arguments

- **id** integer required. The ID of the object.
- **slug** string required. The slug for the application.
- **status** boolean required. The desired archived status of the object.

Value
A list containing the following elements:

- **id** integer, The unique id of the instance.
- **name** string, The name of the instance.
- **appReleaseId** integer, The id of the app release the instance belongs to.
- **reportId** integer, The id of the report the instance belongs to.
- **createdAt** string, The time the instance was created at.
- **user** list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

projectId integer, The id of the project collecting all the items that belong to this app instance.

authCodeUrl string,

apiKey string, A Civis API key that can be used by this app instance.

archived string, The archival status of the requested item(s).

apps_put_instances_projects

*Add an App Instance to a project*

**Description**

Add an App Instance to a project

**Usage**

apps_put_instances_projects(id, project_id, slug)

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the App Instance.</td>
</tr>
<tr>
<td>project_id</td>
<td>integer required. The ID of the project.</td>
</tr>
<tr>
<td>slug</td>
<td>string required. The slug for the application.</td>
</tr>
</tbody>
</table>

**Value**

An empty HTTP response
Set the permissions groups has on this object

**Description**

Set the permissions groups has on this object

**Usage**

```python
apps_put_instances_shares_groups(
    slug,
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

- **slug** string required. The slug for the application.
- **id** integer required. The ID of the resource that is shared.
- **group_ids** array required. An array of one or more group IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - **users array**,  
  - **groups array**
- **writers** list, A list containing the following elements:
  - **users array**,  
  - **groups array**
- **owners** list, A list containing the following elements:
  - **users array**,  
  - **groups array**
totalUserShares
    integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares
    integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

apps_put_instances_shares_users
    Set the permissions users have on this object

Description
    Set the permissions users have on this object

Usage
    apps_put_instances_shares_users(
        slug,
        id,
        user_ids,
        permission_level,
        share_email_body = NULL,
        send_shared_email = NULL
    )

Arguments
    slug   string required. The slug for the application.
    id integer required. The ID of the resource that is shared.
    user_ids array required. An array of one or more user IDs.
    permission_level string required. Options are: "read", "write", or "manage".
    share_email_body string optional. Custom body text for e-mail sent on a share.
    send_shared_email boolean optional. Send email to the recipients of a share.

Value
    A list containing the following elements:
        readers list, A list containing the following elements:
            • users array,
            • groups array,
        writers list, A list containing the following elements:
apps_put_releases_archive

- users array,
- groups array,

 owners list, A list containing the following elements:
  - users array,
  - groups array,

 totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

apps_put_releases_archive

Update the archive status of this object

Description
Update the archive status of this object

Usage
apps_put_releases_archive(id, slug, status)

Arguments
id integer required. The ID of the object.
slug string required. The slug for the application.
status boolean required. The desired archived status of the object.

Value
A list containing the following elements:

id integer, The unique id of the release.
appId integer, The id of the app the release belongs to.
reportTemplateId integer, ID of the report template for this release.
resources list, A hash of resources associated with this release.
archived string, The archival status of the requested item(s).
Description

Set the permissions groups has on this object

Usage

apps_put_releases_shares_groups(
    slug,
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)

Arguments

slug     string required. The slug for the application.
id       integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level  string required. Options are: "read", "write", or "manage".
share_email_body   string optional. Custom body text for e-mail sent on a share.
send_shared_email  boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers  list, A list containing the following elements:
    • users array,
    • groups array,

writers  list, A list containing the following elements:
    • users array,
    • groups array,

owners   list, A list containing the following elements:
    • users array,
    • groups array,
totalUserShares
integer. For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares
integer. For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

Description
Set the permissions users have on this object

Usage
apps_put_releases_shares_users(
   slug,
   id,
   user_ids,
   permission_level,
   share_email_body = NULL,
   send_shared_email = NULL
)

Arguments
slug string required. The slug for the application.
id integer required. The ID of the resource that is shared.
user_ids array required. An array of one or more user IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value
A list containing the following elements:
readers list, A list containing the following elements:
   • users array,
   • groups array,
writers list, A list containing the following elements:
• users array,
• groups array,

owners list, A list containing the following elements:
• users array,
• groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**await**

*Call a function repeatedly until a status is reached.*

---

**Description**

await repeatedly calls a Civis API endpoint such as `scripts_get_sql_runs` that monitors the status of a script, job, import, or model. It blocks until the function returns a result with a successful or error status. If the script, job, import or model results in an error state, await throws an error with useful debugging information.

await_all is a vectorized version of await. It repeatedly calls a Civis API endpoint for all values of a vector, e.g. a vector of script, job, import, run, or model ids. It blocks until all calls have returned a result with a given status, and silently captures jobs that return errors.

**Usage**

```r
await(
  f,
  ...
)
```

```r
await_all(
  f,
  x,
  .y = NULL,
  ...
)
```

```r
  .status_key = "state",
  .success_states = c("succeeded", "success"),
  .error_states = c("failed", "cancelled"),
  .timeout = NULL,
  .interval =getOption("civis.default_polling_interval"),
  .verbose = FALSE
)
\begin{verbatim}
  .error_states = c("failed", "cancelled"),
  .timeout = NULL,
  .interval = NULL,
  .verbose = FALSE
)

Arguments

\begin{itemize}
  \item \texttt{f} function to be called repeatedly until a status is reached.
  \item \ldots arguments to \texttt{f}
  \item \texttt{.status_key} The name of the element of the list returned by \texttt{f} containing the status. For most Civis API endpoints, this is the default, "state".
  \item \texttt{.success_states} list of states indicating remote work has completed successfully. For most Civis API endpoints, this set of states is the default, c("succeeded", "success").
  \item \texttt{.error_states} list of states indicating remote work is in an error state. For most Civis API endpoints, this set of states is the default, c("failed", "cancelled").
  \item \texttt{.timeout} Number of seconds after which to timeout.
  \item \texttt{.interval} The interval for retries (in seconds). If NULL (default), use exponentially increasing intervals with jitter (see 'Details')
  \item \texttt{.verbose} Print the status of \texttt{f} at a given retry with the retry time (default FALSE)
  \item \texttt{x} a vector of values to be passed to \texttt{f}
  \item \texttt{y} a vector of values to be passed to \texttt{f} (default NULL)
\end{itemize}

Details

\texttt{await} and \texttt{await_all} can wrap Civis API endpoints in \texttt{generated_client.R}. The default values for \texttt{.status_key}, \texttt{.success_states}, and \texttt{.error_states} are suitable for most endpoints. The final status of \texttt{f} can be obtained using \texttt{get_status}.

If an error state is reached, \texttt{await} throws a \texttt{civis-await-error}. \texttt{await_all} silently captures and returns a \texttt{civis-await-error} for any job reaching an error state as an element in the list of results.

If \texttt{.timeout} is specified and the job fails to reach a success state within the time limit, \texttt{await} throws a \texttt{civis-timeout-error}. Likewise, \texttt{await_all} throws a \texttt{civis-timeout-error} if all jobs fail to reach a success state within the time limit.

These errors can be caught using \texttt{try} or \texttt{tryCatch}. Useful debugging information can be returned using \texttt{get_error} and \texttt{fetch_logs}.

The set of possible states for jobs on Civis platform are: "succeeded", "success", "failed", "queued", "running", and "cancelled".

Unless \texttt{.interval} is specified, retries are attempted with exponentially increasing intervals using \texttt{.25 * (1.2^i) + runif(1, 0, .2)}, where \texttt{i} is the index of the current retry. Approximate intervals for a given number of retries are as follows:

- 1-5: .5s
- 6-10: 1-5s
- 11-19: 5-10s
\end{verbatim}
The polling interval can be set to a fixed value globally with options("

civis.default_polling_interval"

= INTERVAL_IN_SECONDS).

Functions

• await_all: Call a function repeatedly for all values of a vector until all have reached a completed status

See Also

get_status, get_error, fetch_logs

Examples

## Not run:

```r
# Executing a query
q_id <- queries_post(db_id, query, n_rows, cred_id)["id"]

r <- await(queries_get, id = q_id)
get_status(r)

r <- tryCatch(await(queries_get, id = q_id), error = function(e) e)

get_error(r)

r <- try(await(queries_get, id = q_id))
get_error(r)

jobs <- c(1234, 5678)

runs <- c(1234, 5678)

rs <- await_all(scripts_get_r_runs, .x = jobs, .y = runs)

## End(Not run)
```

cancel

Cancel the evaluation of a CivisFuture.

Description

Cancel the evaluation of a CivisFuture.

Usage

cancel(future, ...)

Arguments

  future          CivisFuture object.
  ...             unused for CivisFuture.
CivisFuture

Evaluate an expression in Civis Platform

Description
Evaluate an expression in Civis Platform

Usage

CivisFuture(
  expr = NULL,
  envir = parent.frame(),
  substitute = FALSE,
  globals = TRUE,
  packages = NULL,
  lazy = FALSE,
  local = TRUE,
  gc = FALSE,
  earlySignal = FALSE,
  label = NULL,
  required_resources = list(cpu = 1024, memory = 2048, diskSpace = 4),
  docker_image_name = "civisanalytics/datascience-r",
  docker_image_tag = "latest",
  ...
)

## S3 method for class 'CivisFuture'
run(future, ...)

## S3 method for class 'CivisFuture'
result(future, ...)

## S3 method for class 'CivisFuture'
cancel(future, ...)

## S3 method for class 'CivisFuture'
resolved(future, ...)

## S3 method for class 'CivisFuture'
fetch_logs(object, ...)

Arguments

expr          An R expression.

envir         The environment from where global objects should be identified.

substitute     If TRUE, argument expr is substitute()ed; otherwise not.
globals (optional) a logical, a character vector, or a named list to control how globals are handled. For details, see section 'Globals used by future expressions' in the help for future().

packages (optional) a character vector specifying packages to be attached in the R environment evaluating the future.

lazy If FALSE (default), the future is resolved eagerly (starting immediately), otherwise not.

local If TRUE, the expression is evaluated such that all assignments are done to local temporary environment, otherwise the assignments are done to the global environment of the R process evaluating the future.

gc If TRUE, the garbage collector run (in the process that evaluated the future) only after the value of the future is collected. Exactly when the values are collected may depend on various factors such as number of free workers and whether earlySignal is TRUE (more frequently) or FALSE (less frequently). Some types of futures ignore this argument.

earlySignal Specified whether conditions should be signaled as soon as possible or not.

label An optional character string label attached to the future.

required_resources resources, see scripts_post_containers

docker_image_name the image for the container script.

docker_image_tag the tag for the Docker image.

... arguments to scripts_post_containers

future CivisFuture object.

object CivisFuture

Value

A CivisFuture inheriting from Future that evaluates expr on the given container.

Methods (by generic)

- run: Run a CivisFuture
- result: Return the value of a CivisFuture
- cancel: Cancel a CivisFuture
- resolved: Check if a CivisFuture has resolved
- fetch_logs: Fetch logs from a CivisFuture
**civis_file**

*A file in the Civis Platform*

**Description**

Use `civis_file` to use a file in the Civis Platform with `civis_ml`.

**Usage**

```python
civis_file(file_id)
```

**Arguments**

- `file_id` The id of a Civis file.

**Value**

`civis_file`

---

**civis_file_manifest**

*A manifest file in the Civis Platform*

**Description**

Use `civis_file_manifest` to use a manifest file in the Civis Platform with `civis_ml`.

**Usage**

```python
civis_file_manifest(file_id)
```

**Arguments**

- `file_id` The id of a Civis file.

**Value**

`civis_file_manifest`
civis_ml  

Interface for modeling in the Civis Platform

Description

An interface for training and scoring data on Civis Platform using a set of Scikit-Learn estimators.

Usage

```r
civis_ml(
  x,
  dependent_variable,
  model_type,
  primary_key = NULL,
  excluded_columns = NULL,
  parameters = NULL,
  fit_params = NULL,
  cross_validation_parameters = NULL,
  calibration = NULL,
  oos_scores_table = NULL,
  oos_scores_db = NULL,
  oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
  model_name = NULL,
  cpu_requested = NULL,
  memory_requested = NULL,
  disk_requested = NULL,
  notifications = NULL,
  polling_interval = NULL,
  validation_data = c("train", "skip"),
  n_jobs = NULL,
  verbose = FALSE,
  civisml_version = "prod"
)
```

civis_ml_fetch_existing(model_id, run_id = NULL)

# S3 method for class 'civis_ml'
predict(
  object,
  newdata,
  primary_key = NA,
  output_table = NULL,
  output_db = NULL,
  if_output_exists = c("fail", "append", "drop", "truncate"),
  n_jobs = NULL,
  cpu_requested = NULL,
  memory_requested = NULL,
)
civis_ml

disk_requested = NULL,
polling_interval = NULL,
verbose = FALSE,
dvs_to_predict = NULL,
...
)

Arguments

x, newdata See the Data Sources section below.
dependent_variable
The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.

model_type The name of the CivisML workflow. See the Workflows section below.

primary_key Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In predict.civis_ml, the primary_key of the training task is used by default primary_key = NA. Use primary_key = NULL to explicitly indicate the data have no primary_key.

excluded_columns Optional, a vector of columns which will be considered ineligible to be independent variables.

parameters Optional, parameters for the final stage estimator in a predefined model, e.g. list(C = 2) for a "sparse_logistic" model.

fit_params Optional, a mapping from parameter names in the model’s fit method to the column names which hold the data, e.g. list(sample_weight = 'survey_weight_column').

cross_validation_parameters Optional, parameter grid for learner parameters, e.g. list(n_estimators = c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3)) or "hyperband" for supported models.

calibration Optional, if not NULL, calibrate output probabilities with the selected method, sigmoid, or isotonic. Valid only with classification models.

oos_scores_table Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".

oos_scores_db Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.

oos_scores_if_exists Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".

model_name Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.

cpu_requested Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.
memory_requested
Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.

disk_requested
Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.

notifications
Optional, model status notifications. See scripts_post_custom for further documentation about email and URL notification.

polling_interval
Check for job completion every this number of seconds.

validation_data
Optional, source for validation data. There are currently two options: train (the default), which uses training data for validation, and skip, which skips the validation step.

n_jobs
Number of concurrent Platform jobs to use for training and validation, or multi-file / large table prediction. Defaults to NULL, which allows CivisML to dynamically calculate an appropriate number of workers to use (in general, as many as possible without using all resources in the cluster).

verbose
Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.

civisml_version
Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

model_id
The id of CivisML model built previously.

run_id
Optional, the id of a CivisML model run. If NULL, defaults to fetching the latest run.

object
A civis_ml object.

output_table
The table in which to put predictions.

output_db
The database containing output_table. If not provided, this will default to the database_name specified when the model was built.

if_output_exists
Action to take if the prediction table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".

dvs_to_predict
Optional, For scoring, this should be a vector of column names of dependent variables to include in the output table. It must be a subset of the dependent_variable vector provided for training. The scores for the returned subset will be identical to the scores which those outputs would have had if all outputs were written, but ignoring some of the model’s outputs will let predictions complete faster and use less disk space. If not provided, the entire model output will be written to the output table.

...
Unused

Value

A civis_ml object, a list containing the following elements:
job metadata from scripts_get_custom.
run metadata from scripts_get_custom_runs.
outputs CivisML metadata from scripts_list_custom_runs_outputs containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.
metrics Parsed CivisML output from metrics.json containing metadata from validation. A list containing the following elements:
• run list, metadata about the run.
• data list, metadata about the training data.
• model list, the fitted scikit-learn model with CV results.
• metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
• warnings list.
• data_platform list, training data location.
model_info Parsed CivisML output from model_info.json containing metadata from training. A list containing the following elements:
• run list, metadata about the run.
• data list, metadata about the training data.
• model list, the fitted scikit-learn model.
• metrics empty list.
• warnings list.
• data_platform list, training data location.

CivisML Workflows

You can use the following pre-defined models with civis_ml. All models start by imputing missing values with the mean of non-null values in a column. The "sparse_*" models include a LASSO regression step (using glmnet) to do feature selection before passing data to the final model. In some models, CivisML uses default parameters from those in Scikit-Learn, as indicated in the "Altered Defaults" column. All models also have random_state=42.

Specific workflows can also be called directly using the R workflow functions.

<table>
<thead>
<tr>
<th>Name</th>
<th>R Workflow</th>
<th>Model Type</th>
<th>Altered Defaults</th>
</tr>
</thead>
<tbody>
<tr>
<td>sparse_logistic</td>
<td>civis_ml_sparse_logistic</td>
<td>classification</td>
<td></td>
</tr>
<tr>
<td>gradient_boosting_classifier</td>
<td>civis_ml_gradient_boosting_classifier</td>
<td>classification</td>
<td></td>
</tr>
<tr>
<td>random_forest_classifier</td>
<td>civis_ml_random_forest_classifier</td>
<td>classification</td>
<td></td>
</tr>
<tr>
<td>extra_trees_classifier</td>
<td>civis_ml_extra_trees_classifier</td>
<td>classification</td>
<td></td>
</tr>
<tr>
<td>multilayer_perceptron_classifier</td>
<td></td>
<td>classification</td>
<td></td>
</tr>
<tr>
<td>stacking_classifier</td>
<td></td>
<td>classification</td>
<td></td>
</tr>
<tr>
<td>sparse_linear_regressor</td>
<td></td>
<td>regression</td>
<td></td>
</tr>
<tr>
<td>sparse_ridge_regressor</td>
<td></td>
<td>regression</td>
<td></td>
</tr>
<tr>
<td>gradient_boosting_regressor</td>
<td></td>
<td>regression</td>
<td></td>
</tr>
<tr>
<td>random_forest_regressor</td>
<td></td>
<td>regression</td>
<td></td>
</tr>
<tr>
<td>extra_trees_regressor</td>
<td></td>
<td>regression</td>
<td></td>
</tr>
<tr>
<td>multilayer_perceptron_regressor</td>
<td></td>
<td>regression</td>
<td></td>
</tr>
<tr>
<td>stacking_regressor</td>
<td></td>
<td>regression</td>
<td></td>
</tr>
</tbody>
</table>
Model names can be easily accessed using the global variables CIVIS_ML_REGRESSORS and CIVIS_ML_CLASSIFIERS.

Stacking

The "stacking_classifier" model stacks together the "gradient_boosting_classifier" and "random_forest_classifier" predefined models together with a glmnet.LogitNet(alpha=0, n_splits=4, max_iter=10000, tol=1e-5, scoring='log_loss'). Defaults for the predefined models are documented in ?civis_ml. Each column is first standardized, and then the model predictions are combined using LogisticRegressionCV with penalty='l2' and tol=1e-08. The "stacking_regressor" works similarly, stacking together the "gradient_boosting_regressor" and "random_forest_regressor" models and a glmnet.ElasticNet(alpha=0, n_splits=4, max_iter=10000, tol=1e-5, scoring='r2'), combining them using NonNegativeLinearRegression. The estimators that are being stacked have the same names as the associated pre-defined models, and the meta-estimator steps are named "meta-estimator". Note that although default parameters are provided for multilayer perceptron models, it is highly recommended that multilayer perceptrons be run using hyperband.

Hyperparameter Tuning

You can tune hyperparameters using one of two methods: grid search or hyperband. CivisML will perform grid search if you pass a list of hyperparameters to the cross_validation_parameters parameter, where list elements are hyperparameter names, and the values are vectors of hyperparameter values to grid search over. You can run hyperparameter optimization in parallel by setting the n_jobs parameter to however many jobs you would like to run in parallel. By default, n_jobs is dynamically calculated based on the resources available on your cluster, such that a modeling job will never take up more than 90.

Hyperband is an efficient approach to hyperparameter optimization, and recommended over grid search where possible. CivisML will perform hyperband optimization if you pass the string "hyperband" to cross_validation_parameters. Hyperband is currently only supported for the following models: "gradient_boosting_classifier", "random_forest_classifier", "extra_trees_classifier", "multilayer_perceptron_classifier", "stacking_classifier", "gradient_boosting_regressor", "random_forest_regressor", "extra_trees_regressor", "multilayer_perceptron_regressor", and "stacking_regressor".

Hyperband cannot be used to tune GLMs. For this reason, preset GLMs do not have a hyperband option. Similarly, when cross_validation_parameters='hyperband' and the model is stacking_classifier or stacking_regressor, only the GBT and random forest steps of the stacker are tuned using hyperband. For the specific distributions used in the predefined hyperband models, see the detailed table in the Python client documentation.

Data Sources

For building models with civis_ml, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a data.frame resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling civis_ml:

data.frame civis_ml(x = df, ...)

local csv file civis_ml(x = "path/to/data.csv", ...)
file in Civis Platform  civis_ml(x = civis_file(1234))
table in Civis Platform  civis_ml(x = civis_table(table_name = "schema.table", database_name = "database"))

Out of sample scores

Model outputs will always contain out-of-sample (or out of fold) scores, which are accessible through `fetch_oos_scores`. These may be stored in a Civis table on Redshift using the `oos_scores`, `oos_scores_db`, and `oos_scores_if_exists` parameters.

Predictions

A fitted model can be used to make predictions for data residing in any of the sources above and a `civis_file_manifest`. Similar to `civis_ml`, use the data source helpers as the `newdata` argument to `predict.civis_ml`.

A manifest file is a JSON file which specifies the location of many shards of the data to be used for prediction. A manifest file is the output of a Civis export job with `force_multifile = TRUE` set, e.g. from `civis_to_multifile_csv`. Large civis tables (provided using `table_name`) will automatically be exported to manifest files.

Prediction outputs will always be stored as gzipped CSVs in one or more civis files. Provide an `output_table` (and optionally an `output_db`, if it's different from `database_name`) to copy these predictions into a table on Redshift.

See Also

civis_file, civis_table, and civis_file_manifest for specifying data sources.
get_metric to access model validation metrics.
fetch_logs for retrieving logs for a (failed) model build, fetch_oos_scores for retrieving the out of sample (fold) scores for each training observation, and fetch_predictions for retrieving the predictions from a prediction job.

Examples

```r
## Not run:
# From a data frame:
m <- civis_ml(df, model_type = "sparse_logistic",
              dependent_variable = "Species")

# From a table:
m <- civis_ml(civis_table("schema.table", "database_name"),
              model_type = "sparse_logistic", dependent_variable = "Species",
              oos_scores_table = "schema.scores_table",
              oos_scores_if_exists = "drop")

# From a local file:
m <- civis_ml("path/to/file.csv", model_type = "sparse_logistic",
              dependent_variable = "Species")

# From a Civis file:
```

```r
file_id <- write_civis_file("path/to/file.csv", name = "file.csv")
m <- civis_ml(civis_file(file_id), model_type = "sparse_logistic",
    dependent_variable = "Species")

pred_job <- predict(m, newdata = df)
pred_job <- predict(m, civis_table("schema.table", "database_name"),
    output_table = "schema.scores_table")
pred_job <- predict(m, civis_file(file_id),
    output_table = "schema.scores_table")

m <- civis_ml_fetch_existing(model_id = m$job$id, m$run$id)
logs <- fetch_logs(m)
yhat <- fetch_oos_scores(m)
yhat <- fetch_predictions(pred_job)

## End(Not run)
```

---

### CIVIS_ML_CLASSIFIERS

**List of classification models.**

**Description**

List of classification models.

**Usage**

CIVIS_ML_CLASSIFIERS

**Format**

An object of class character of length 6.

---

### civis_ml_extra_trees_classifier

**CivisML Extra Trees Classifier**

**Description**

CivisML Extra Trees Classifier
Usage

civis_ml_extra_trees_classifier(
    x,
    dependent_variable,
    primary_key = NULL,
    excluded_columns = NULL,
    n_estimators = 500,
    criterion = c("gini", "entropy"),
    max_depth = NULL,
    min_samples_split = 2,
    min_samples_leaf = 1,
    min_weight_fraction_leaf = 0,
    max_features = "sqrt",
    max_leaf_nodes = NULL,
    min_impurity_split = 1e-07,
    bootstrap = FALSE,
    random_state = 42,
    class_weight = NULL,
    fit_params = NULL,
    cross_validation_parameters = NULL,
    calibration = NULL,
    oos_scores_table = NULL,
    oos_scores_db = NULL,
    oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
    model_name = NULL,
    cpu_requested = NULL,
    memory_requested = NULL,
    disk_requested = NULL,
    notifications = NULL,
    polling_interval = NULL,
    verbose = FALSE,
    civisml_version = "prod"
)

Arguments

x See the Data Sources section below.

dependent_variable
   The dependent variable of the training dataset. For a multi-target problem, this
should be a vector of column names of dependent variables. Nulls in a single
dependent variable will automatically be dropped.

primary_key Optional, the unique ID (primary key) of the training dataset. This will be used
to index the out-of-sample scores. In predict.civis_ml, the primary_key of
the training task is used by default primary_key = NA. Use primary_key = NULL
to explicitly indicate the data have no primary_key.

excluded_columns
   Optional, a vector of columns which will be considered ineligible to be independent
variables.
n_estimators The number of boosting stages to perform. Gradient boosting is fairly robust to over-fitting, so a large number usually results in better predictive performance.
criterion The function to measure the quality of a split. Supported criteria are gini for the Gini impurity and entropy for the information gain.
max_depth Maximum depth of the individual regression estimators. The maximum depth limits the number of nodes in the tree. Tune this parameter for best performance. The best value depends on the interaction of the input variables.
min_samples_split The minimum number of samples required to split an internal node. If an integer, then consider min_samples_split as the minimum number. If a float, then min_samples_split is a percentage and ceiling(min_samples_split * n_samples) are the minimum number of samples for each split.
min_samples_leaf The minimum number of samples required to be in a leaf node. If an integer, then consider min_samples_leaf as the minimum number. If a float, the min_samples_leaf is a percentage and ceiling(min_samples_leaf * n_samples) are the minimum number of samples for each leaf node.
min_weight_fraction_leaf The minimum weighted fraction of the sum total of weights required to be at a leaf node.
max_features The number of features to consider when looking for the best split.
  integer consider max_features at each split.
  float then max_features is a percentage and max_features * n_features are considered at each split.
  auto then max_features = sqrt(n_features)
  sqrt then max_features = sqrt(n_features)
  log2 then max_features = log2(n_features)
  NULL then max_features = n_features
max_leaf_nodes Grow trees with max_leaf_nodes in best-first fashion. Best nodes are defined as relative reduction to impurity. If max_leaf_nodes = NULL then unlimited number of leaf nodes.
min_impurity_split Threshold for early stopping in tree growth. A node will split if its impurity is above the threshold, otherwise it is a leaf.
bootstrap Whether bootstrap samples are used when building trees.
random_state The seed of the random number generator.
class_weight A list with class_label = value pairs, or balanced. When class_weight = "balanced", the class weights will be inversely proportional to the class frequencies in the input data as:

\[
\frac{n_{\text{samples}}}{n_{\text{classes}} \times \text{table}(y)}
\]

Note, the class weights are multiplied with sample_weight (passed via fit_params) if sample_weight is specified.
**fit_params**
Optional, a mapping from parameter names in the model’s fit method to the column names which hold the data, e.g. `list(sample_weight = 'survey_weight_column')`.

**cross_validation_parameters**
Optional, parameter grid for learner parameters, e.g. `list(n_estimators = c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3))` or "hyperband" for supported models.

**calibration**
Optional, if not NULL, calibrate output probabilities with the selected method, sigmoid, or isotonic. Valid only with classification models.

**oos_scores_table**
Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".

**oos_scores_db**
Optional, the name of the database where the `oos_scores_table` will be created. If not provided, this will default to `database_name`.

**oos_scores_if_exists**
Optional, action to take if `oos_scores_table` already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".

**model_name**
Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.

**cpu_requested**
Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.

**memory_requested**
Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.

**disk_requested**
Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.

**notifications**
Optional, model status notifications. See `scripts_post_custom` for further documentation about email and URL notification.

**polling_interval**
Check for job completion every this number of seconds.

**verbose**
Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.

**civisml_version**
Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

**Value**
A `civis_ml` object, a list containing the following elements:

- **job**
  job metadata from `scripts_get_custom`.

- **run**
  run metadata from `scripts_get_custom_runs`.

- **outputs**
  CivisML metadata from `scripts_list_custom_runs_outputs` containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.
metrics  Parsed CivisML output from metrics.json containing metadata from validation. A list containing the following elements:
  - run list, metadata about the run.
  - data list, metadata about the training data.
  - model list, the fitted scikit-learn model with CV results.
  - metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
  - warnings list.
  - data_platform list, training data location.

model_info  Parsed CivisML output from model_info.json containing metadata from training. A list containing the following elements:
  - run list, metadata about the run.
  - data list, metadata about the training data.
  - model list, the fitted scikit-learn model.
  - metrics empty list.
  - warnings list.
  - data_platform list, training data location.

Data Sources

For building models with civis_ml, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a data.frame resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling civis_ml:

data.frame  civis_ml(x = df, ...)
local csv file  civis_ml(x = "path/to/data.csv", ...)
file in Civis Platform  civis_ml(x = civis_file(1234))
table in Civis Platform  civis_ml(x = civis_table(table_name = "schema.table", database_name = "database"))

Examples

## Not run:
df <- iris
names(df) <- gsub("\."", ",", names(df))

m <- civis_ml_extra_trees_classifier(df,
dependent_variable = "Species",
n_estimators = 100,
max_depth = 5,
max_features = NULL)
yhat <- fetch_oos_scores(m)

# Grid Search
cv_params <- list(
n_estimators = c(100, 200, 500),
max_depth = c(2, 3))
m <- civis_ml_extra_trees_classifier(df,
  dependent_variable = "Species",
  max_features = NULL,
  cross_validation_parameters = cv_params)

pred_info <- predict(m, civis_table("schema.table", "my_database"),
  output_table = "schema.scores_table")

## End(Not run)

civis_ml_extra_trees_regressor

**CivisML Extra Trees Regressor**

**Description**

CivisML Extra Trees Regressor

**Usage**

civis_ml_extra_trees_regressor(
  x,
  dependent_variable,
  primary_key = NULL,
  excluded_columns = NULL,
  n_estimators = 500,
  criterion = c("mse", "mae"),
  max_depth = NULL,
  min_samples_split = 2,
  min_samples_leaf = 1,
  min_weight_fraction_leaf = 0,
  max_features = "sqrt",
  max_leaf_nodes = NULL,
  min_impurity_split = 1e-07,
  bootstrap = FALSE,
  random_state = 42,
  fit_params = NULL,
  cross_validation_parameters = NULL,
  oos_scores_table = NULL,
  oos_scores_db = NULL,
  oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
  model_name = NULL,
  cpu_requested = NULL,
  memory_requested = NULL,
  disk_requested = NULL,
  notifications = NULL,
  polling_interval = NULL,
civis_ml_extra_trees_regressor

verbose = FALSE,
civisml_version = "prod"
)

Arguments

x See the Data Sources section below.

dependent_variable The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.

primary_key Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In predict.civis_ml, the primary_key of the training task is used by default primary_key = NA. Use primary_key = NULL to explicitly indicate the data have no primary_key.

excluded_columns Optional, a vector of columns which will be considered ineligible to be independent variables.

n_estimators The number of boosting stages to perform. Gradient boosting is fairly robust to over-fitting, so a large number usually results in better predictive performance.

criterion The function used to measure the quality of a split. Supported criteria are mse for the mean squared error, and mae for the mean absolute error.

max_depth Maximum depth of the individual regression estimators. The maximum depth limits the number of nodes in the tree. Tune this parameter for best performance. The best value depends on the interaction of the input variables.

min_samples_split The minimum number of samples required to split an internal node. If an integer, then consider min_samples_split as the minimum number. If a float, then min_samples_split is a percentage and ceiling(min_samples_split * n_samples) are the minimum number of samples for each split.

min_samples_leaf The minimum number of samples required to be in a leaf node. If an integer, then consider min_samples_leaf as the minimum number. If a float, the min_samples_leaf is a percentage and ceiling(min_samples_leaf * n_samples) are the minimum number of samples for each leaf node.

min_weight_fraction_leaf The minimum weighted fraction of the sum total of weights required to be at a leaf node.

max_features The number of features to consider when looking for the best split.

integer consider max_features at each split.
float then max_features is a percentage and max_features * n_features are considered at each split.
auto then max_features = sqrt(n_features)
sqrt then max_features = sqrt(n_features)
log2 then max_features = log2(n_features)
civis_ml_extra_trees_regressor

**NULL** then \( \text{max\_features} = \text{n\_features} \)

**max\_leaf\_nodes** Grow trees with \( \text{max\_leaf\_nodes} \) in best-first fashion. Best nodes are defined as relative reduction to impurity. If \( \text{max\_leaf\_nodes} = \text{NULL} \) then unlimited number of leaf nodes.

**min\_impurity\_split** Threshold for early stopping in tree growth. A node will split if its impurity is above the threshold, otherwise it is a leaf.

**bootstrap** Whether bootstrap samples are used when building trees.

**random\_state** The seed of the random number generator.

**fit\_params** Optional, a mapping from parameter names in the model’s fit method to the column names which hold the data, e.g. \( \text{list}(\text{sample\_weight} = \text{'survey\_weight\_column'}) \).

**cross\_validation\_parameters** Optional, parameter grid for learner parameters, e.g. \( \text{list}(\text{n\_estimators} = \text{c}(100, 200, 500), \text{learning\_rate} = \text{c}(0.01, 0.1), \text{max\_depth} = \text{c}(2, 3)) \) or “hyperband” for supported models.

**oos\_scores\_table** Optional, if provided, store out-of-sample predictions on training set data to this Redshift “schema.tablename”.

**oos\_scores\_db** Optional, the name of the database where the oos\_scores\_table will be created. If not provided, this will default to database\_name.

**oos\_scores\_if\_exists** Optional, action to take if oos\_scores\_table already exists. One of “fail”, “append”, “drop”, or “truncate”. The default is “fail”.

**model\_name** Optional, the prefix of the Platform modeling jobs. It will have “Train” or “Predict” added to become the Script title.

**cpu\_requested** Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.

**memory\_requested** Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.

**disk\_requested** Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.

**notifications** Optional, model status notifications. See scripts\_post\_custom for further documentation about email and URL notification.

**polling\_interval** Check for job completion every this number of seconds.

**verbose** Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.

**civis\_ml\_version** Optional, a one-length character vector of the CivisML version. The default is “prod”, the latest version in production.
Value

A `civis_ml` object, a list containing the following elements:

- **job**: job metadata from `scripts_get_custom`.
- **run**: run metadata from `scripts_get_custom_runs`.
- **outputs**: CivisML metadata from `scripts_list_custom_runs_outputs` containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.
- **metrics**: Parsed CivisML output from `metrics.json` containing metadata from validation. A list containing the following elements:
  - run list, metadata about the run.
  - data list, metadata about the training data.
  - model list, the fitted scikit-learn model with CV results.
  - metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
  - warnings list.
  - data_platform list, training data location.
- **model_info**: Parsed CivisML output from `model_info.json` containing metadata from training. A list containing the following elements:
  - run list, metadata about the run.
  - data list, metadata about the training data.
  - model list, the fitted scikit-learn model.
  - metrics empty list.
  - warnings list.
  - data_platform list, training data location.

Data Sources

For building models with `civis_ml`, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a `data.frame` resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling `civis_ml`:

- **data.frame**: `civis_ml(x = df, ...)`
- **local csv file**: `civis_ml(x = "path/to/data.csv", ...)`
- **file in Civis Platform**: `civis_ml(x = civis_file(1234))`
- **table in Civis Platform**: `civis_ml(x = civis_table(table_name = "schema.table", database_name = "database"))`

Examples

```r
## Not run:
data(ChickWeight)
m <- civis_ml_extra_trees_regressor(ChickWeight,
dependent_variable = "weight",
one_of = "Your Custom Parameter")
```
civis_ml_gradient_boosting_classifier

CivisML Gradient Boosting Classifier

Description
CivisML Gradient Boosting Classifier

Usage

civis_ml_gradient_boosting_classifier(
x,  
dependent_variable,  
primary_key = NULL,  
excluded_columns = NULL,  
loss = c("deviance", "exponential"),  
learning_rate = 0.1,  
n_estimators = 500,  
subsample = 1,  
criterion = c("friedman_mse", "mse", "mae"),  
min_samples_split = 2,  
min_samples_leaf = 1,  
min_weight_fraction_leaf = 0,  
max_depth = 2,  
min_impurity_split = 1e-07,  
random_state = 42,  
max_features = "sqrt",  
max_leaf_nodes = NULL,

n_estimators = 100,  
max_depth = 5,  
max_features = NULL)
yhat <- fetch_oos_scores(m)

# Grid Search
cv_params <- list(  
n_estimators = c(100, 200, 500),  
max_depth = c(2, 3))

m <- civis_ml_extra_trees_regressor(ChickWeight,  
dependent_variable = "weight",  
max_features = NULL,  
cross_validation_parameters = cv_params)

pred_info <- predict(m, civis_table("schema.table", "my_database"),  
output_table = "schema.scores_table")
## End(Not run)
presort = c("auto", TRUE, FALSE),
fit_params = NULL,
cross_validation_parameters = NULL,
calibration = NULL,
oos_scores_table = NULL,
oos_scores_db = NULL,
oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
model_name = NULL,
cpuRequested = NULL,
memorystoreRequested = NULL,
diskRequested = NULL,
notifications = NULL,
pollingInterval = NULL,
verbose = FALSE,
civisml_version = "prod"
)

Arguments

x See the Data Sources section below.

dependent_variable
The dependent variable of the training dataset. For a multi-target problem, this
should be a vector of column names of dependent variables. Nulls in a single
dependent variable will automatically be dropped.

primary_key
Optional, the unique ID (primary key) of the training dataset. This will be used
to index the out-of-sample scores. In predict.civis_ml, the primary_key of
the training task is used by default primary_key = NA. Use primary_key = NULL
to explicitly indicate the data have no primary_key.

excluded_columns
Optional, a vector of columns which will be considered ineligible to be indepen
dent variables.

loss
The loss function to be optimized. deviance refers to deviance (logistic regres-
sion) for classification with probabilistic outputs. For exponential, gradient
boosting recovers the AdaBoost algorithm.

learning_rate
The learning rate shrinks the contribution of each tree by learning_rate. There
is a trade-off between learning_rate and n_estimators.

n_estimators
The number of boosting stages to perform. Gradient boosting is fairly robust to
over-fitting, so a large number usually results in better predictive performance.

subsample
The fraction of samples to be used for fitting individual base learners. If smaller
than 1.0, this results in Stochastic Gradient Boosting. subsample interacts with
the parameter n_estimators. Choosing subsample < 1.0 leads to a reduction
of variance and an increase in bias.

criterion
The function to measure the quality of a split. The default value criterion =
"friedman_mse" is generally the best as it can provide a better approximation
in some cases.
The minimum number of samples required to split an internal node. If an integer, then consider min_samples_split as the minimum number. If a float, then min_samples_split is a percentage and ceiling(min_samples_split * n_samples) are the minimum number of samples for each split.

The minimum number of samples required to be in a leaf node. If an integer, then consider min_samples_leaf as the minimum number. If a float, the min_samples_leaf is a percentage and ceiling(min_samples_leaf * n_samples) are the minimum number of samples for each leaf node.

The minimum weighted fraction of the sum total of weights required to be at a leaf node.

Maximum depth of the individual regression estimators. The maximum depth limits the number of nodes in the tree. Tune this parameter for best performance. The best value depends on the interaction of the input variables.

Threshold for early stopping in tree growth. A node will split if its impurity is above the threshold, otherwise it is a leaf.

The seed of the random number generator.

The number of features to consider when looking for the best split.

integer consider max_features at each split.
float then max_features is a percentage and max_features * n_features are considered at each split.
auto then max_features = sqrt(n_features)
sqrt then max_features = sqrt(n_features)
log2 then max_features = log2(n_features)
NULL then max_features = n_features

Grow trees with max_leaf_nodes in best-first fashion. Best nodes are defined as relative reduction to impurity. If max_leaf_nodes = NULL then unlimited number of leaf nodes.

Whether to presort the data to speed up the finding of best splits in fitting.

Optional, a mapping from parameter names in the model’s fit method to the column names which hold the data, e.g. list(sample_weight = 'survey_weight_column').

Optional, parameter grid for learner parameters, e.g. list(n_estimators = c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3)) or "hyperband" for supported models.

Optional, if not NULL, calibrate output probabilities with the selected method, sigmoid, or isotonic. Valid only with classification models.

Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".

Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.
**oos_scores_if_exists**
Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".

**model_name**
Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.

**cpu_requested**
Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.

**memory_requested**
Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.

**disk_requested**
Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.

**notifications**
Optional, model status notifications. See scripts_post_custom for further documentation about email and URL notification.

**polling_interval**
Check for job completion every this number of seconds.

**verbose**
Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.

**civisml_version**
Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

**Value**
A civis_ml object, a list containing the following elements:

- **job**
  job metadata from scripts_get_custom.

- **run**
  run metadata from scripts_get_custom_runs.

- **outputs**
  CivisML metadata from scripts_list_custom_runs_outputs containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.

- **metrics**
 Parsed CivisML output from metrics.json containing metadata from validation. A list containing the following elements:
  - run list, metadata about the run.
  - data list, metadata about the training data.
  - model list, the fitted scikit-learn model with CV results.
  - metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
  - warnings list.
  - data_platform list, training data location.

- **model_info**
  Parsed CivisML output from model_info.json containing metadata from training. A list containing the following elements:
  - run list, metadata about the run.
  - data list, metadata about the training data.
  - model list, the fitted scikit-learn model.
  - metrics empty list.
  - warnings list.
  - data_platform list, training data location.
Data Sources

For building models with civis_ml, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a data.frame resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling civis_ml:

- `data.frame civis_ml(x = df, ...)`
- `local csv file civis_ml(x = "path/to/data.csv", ...)`
- `file in Civis Platform civis_ml(x = civis_file(1234))`
- `table in Civis Platform civis_ml(x = civis_table(table_name = "schema.table", database_name = "database"))`

Examples

```r
## Not run:
df <- iris
names(df) <- gsub("\."", "_", names(df))

m <- civis_ml_gradient_boosting_classifier(df,
  dependent_variable = "Species",
  learning_rate = .01,
  n_estimators = 100,
  subsample = .5,
  max_depth = 5,
  max_features = NULL)
yhat <- fetch_oos_scores(m)

# Grid Search
cv_params <- list(
  n_estimators = c(100, 200, 500),
  learning_rate = c(.01, .1),
  max_depth = c(2, 3))

m <- civis_ml_gradient_boosting_classifier(df,
  dependent_variable = "Species",
  subsample = .5,
  max_features = NULL,
  cross_validation_parameters = cv_params)
pred_info <- predict(m, civis_table("schema.table", "my_database"),
  output_table = "schema.scores_table")

## End(Not run)
```
Description

CivisML Gradient Boosting Regressor

Usage

civis_ml_gradient_boosting_regressor(
    x,  
    dependent_variable,       
    primary_key = NULL,   
    excluded_columns = NULL,  
    loss = c(“ls”, “lad”, “huber”, “quantile”),  
    learning_rate = 0.1,  
    n_estimators = 500,  
    subsample = 1,  
    criterion = c(“friedman_mse”, “mse”, “mae”),  
    min_samples_split = 2,  
    min_samples_leaf = 1,  
    min_weight_fraction_leaf = 0,  
    max_depth = 2,  
    min_impurity_split = 1e-07,  
    random_state = 42,  
    max_features = “sqrt”, 
    alpha = 0.9,  
    max_leaf_nodes = NULL,  
    presort = c(“auto”, TRUE, FALSE),  
    fit_params = NULL,  
    cross_validation_parameters = NULL,  
    oos_scores_table = NULL,  
    oos_scores_db = NULL,  
    oos_scores_if_exists = c(“fail”, “append”, “drop”, “truncate”),  
    model_name = NULL,  
    cpu_requested = NULL,  
    memory_requested = NULL,  
    disk_requested = NULL,  
    notifications = NULL,  
    polling_interval = NULL,  
    verbose = FALSE,  
    civisml_version = “prod”
)

Arguments

x       See the Data Sources section below.
dependent_variable  
    The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.
primary_key  Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In `predict.civis_ml`, the `primary_key` of the training task is used by default `primary_key = NA`. Use `primary_key = NULL` to explicitly indicate the data have no `primary_key`.

excluded_columns  Optional, a vector of columns which will be considered ineligible to be independent variables.

loss  The loss function to be optimized. `ls` refers to least squares regression. `lad` (least absolute deviation) is a highly robust loss function solely based on order information of the input variables. `huber` is a combination of the two. `quantile` allows quantile regression (use `alpha` to specify the quantile).

learning_rate  The learning rate shrinks the contribution of each tree by `learning_rate`. There is a trade-off between `learning_rate` and `n_estimators`.

n_estimators  The number of boosting stages to perform. Gradient boosting is fairly robust to over-fitting, so a large number usually results in better predictive performance.

subsample  The fraction of samples to be used for fitting individual base learners. If smaller than 1.0, this results in Stochastic Gradient Boosting. `subsample` interacts with the parameter `n_estimators`. Choosing `subsample < 1.0` leads to a reduction of variance and an increase in bias.

criterion  The function to measure the quality of a split. The default value `criterion = "friedman_mse"` is generally the best as it can provide a better approximation in some cases.

min_samples_split  The minimum number of samples required to split an internal node. If an integer, then consider `min_samples_split` as the minimum number. If a float, then `min_samples_split` is a percentage and `ceiling(min_samples_split * n_samples)` are the minimum number of samples for each split.

min_samples_leaf  The minimum number of samples required to be in a leaf node. If an integer, then consider `min_samples_leaf` as the minimum number. If a float, the `min_samples_leaf` is a percentage and `ceiling(min_samples_leaf * n_samples)` are the minimum number of samples for each leaf node.

min_weight_fraction_leaf  The minimum weighted fraction of the sum total of weights required to be at a leaf node.

max_depth  Maximum depth of the individual regression estimators. The maximum depth limits the number of nodes in the tree. Tune this parameter for best performance. The best value depends on the interaction of the input variables.

min_impurity_split  Threshold for early stopping in tree growth. A node will split if its impurity is above the threshold, otherwise it is a leaf.

random_state  The seed of the random number generator.

max_features  The number of features to consider when looking for the best split.

integer  consider `max_features` at each split.
**float** then max_features is a percentage and max_features * n_features are considered at each split.

**auto** then max_features = sqrt(n_features)

**sqrt** then max_features = sqrt(n_features)

**log2** then max_features = log2(n_features)

**NULL** then max_features = n_features

**alpha**

The alpha-quantile of the huber loss function and the quantile loss function. Ignored unless loss = "huber" or loss = "quantile"

**max_leaf_nodes**

Grow trees with max_leaf_nodes in best-first fashion. Best nodes are defined as relative reduction to impurity. If max_leaf_nodes = NULL then unlimited number of leaf nodes.

**presort**

Whether to presort the data to speed up the finding of best splits in fitting.

**fit_params**

Optional, a mapping from parameter names in the model's fit method to the column names which hold the data, e.g. list(sample_weight = 'survey_weight_column').

**cross_validation_parameters**

Optional, parameter grid for learner parameters, e.g. list(n_estimators = c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3)) or "hyperband" for supported models.

**oos_scores_table**

Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".

**oos_scores_db**

Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.

**oos_scores_if_exists**

Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".

**model_name**

Optional, the prefix of the Platform modeling jobs. It will have " Train" or "Predict" added to become the Script title.

**cpu_requested**

Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.

**memory_requested**

Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.

**disk_requested**

Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.

**notifications**

Optional, model status notifications. See scripts_post_custom for further documentation about email and URL notification.

**polling_interval**

Check for job completion every this number of seconds.

**verbose**

Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.

**civisml_version**

Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production.
civis_ml_gradient_boosting_regressor

Value

A `civis_ml` object, a list containing the following elements:

- **job** job metadata from `scripts_get_custom`.
- **run** run metadata from `scripts_get_custom_runs`.
- **outputs** CivisML metadata from `scripts_list_custom_runs_outputs` containing the locations of files produced by CivisML e.g. files, projects, metrics, `model_info`, logs, predictions, and estimators.
- **metrics** Parsed CivisML output from `metrics.json` containing metadata from validation. A list containing the following elements:
  - run list, metadata about the run.
  - data list, metadata about the training data.
  - model list, the fitted scikit-learn model with CV results.
  - metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
  - warnings list.
  - data_platform list, training data location.
- **model_info** Parsed CivisML output from `model_info.json` containing metadata from training. A list containing the following elements:
  - run list, metadata about the run.
  - data list, metadata about the training data.
  - model list, the fitted scikit-learn model.
  - metrics empty list.
  - warnings list.
  - data_platform list, training data location.

Data Sources

For building models with `civis_ml`, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a `data.frame` resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling `civis_ml`:

- **data.frame** `civis_ml(x = df, ...)`
- **local csv file** `civis_ml(x = "path/to/data.csv", ...)`
- **file in Civis Platform** `civis_ml(x = civis_file(1234))`
- **table in Civis Platform** `civis_ml(x = civis_table(table_name = "schema.table", database_name = "database"))`

Examples

```r
## Not run:
data(ChickWeight)
m <- civis_ml_gradient_boosting_regressor(ChickWeight,
dependent_variable = "weight",
civis_ml_random_forest_classifier

CivisML Random Forest Classifier

Description
CivisML Random Forest Classifier

Usage
civis_ml_random_forest_classifier(
  x,
  dependent_variable,
  primary_key = NULL,
  excluded_columns = NULL,
  n_estimators = 500,
  criterion = c("gini", "entropy"),
  max_depth = NULL,
  min_samples_split = 2,
  min_samples_leaf = 1,
  min_weight_fraction_leaf = 0,
  max_features = "sqrt",
  max_leaf_nodes = NULL,
  min_impurity_split = 1e-07,
  bootstrap = TRUE,
)

learning_rate = .01,
n_estimators = 100,
subsample = .5,
max_depth = 5,
max_features = NULL)
yhat <- fetch_oos_scores(m)

# Grid Search
cv_params <- list(
  n_estimators = c(100, 200, 500),
  learning_rate = c(.01, .1),
  max_depth = c(2, 3))

m <- civis_ml_gradient_boosting_regressor(ChickWeight,
  dependent_variable = "weight",
  subsample = .5,
  max_features = NULL,
  cross_validation_parameters = cv_params)
pred_info <- predict(m, civis_table("schema.table", "my_database"),
  output_table = "schema.scores_table")

## End(Not run)
Arguments

x
See the Data Sources section below.

dependent_variable
The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.

primary_key
Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In predict.civis_ml, the primary_key of the training task is used by default primary_key = NA. Use primary_key = NULL to explicitly indicate the data have no primary_key.

excluded_columns
Optional, a vector of columns which will be considered ineligible to be independent variables.

n_estimators
The number of boosting stages to perform. Gradient boosting is fairly robust to over-fitting, so a large number usually results in better predictive performance.

criterion
The function to measure the quality of a split. Supported criteria are gini for the Gini impurity and entropy for the information gain.

max_depth
Maximum depth of the individual regression estimators. The maximum depth limits the number of nodes in the tree. Tune this parameter for best performance. The best value depends on the interaction of the input variables.

min_samples_split
The minimum number of samples required to split an internal node. If an integer, then consider min_samples_split as the minimum number. If a float, then min_samples_split is a percentage and ceiling(min_samples_split * n_samples) are the minimum number of samples for each split.

min_samples_leaf
The minimum number of samples required to be in a leaf node. If an integer, then consider min_samples_leaf as the minimum number. If a float,
min_samples_leaf is a percentage and ceiling(min_samples_leaf * n_samples) are the minimum number of samples for each leaf node.

min_weight_fraction_leaf
The minimum weighted fraction of the sum total of weights required to be at a leaf node.

max_features
The number of features to consider when looking for the best split.

- **integer**: consider max_features at each split.
- **float**: then max_features is a percentage and max_features * n_features are considered at each split.
- **auto**: then max_features = sqrt(n_features)
- **sqrt**: then max_features = sqrt(n_features)
- **log2**: then max_features = log2(n_features)
- **NULL**: then max_features = n_features

max_leaf_nodes
Grow trees with max_leaf_nodes in best-first fashion. Best nodes are defined as relative reduction to impurity. If max_leaf_nodes = NULL then unlimited number of leaf nodes.

min_impurity_split
Threshold for early stopping in tree growth. A node will split if its impurity is above the threshold, otherwise it is a leaf.

bootstrap
Whether bootstrap samples are used when building trees.

random_state
The seed of the random number generator.

class_weight
A list with class_label = value pairs, or balanced. When class_weight = "balanced", the class weights will be inversely proportional to the class frequencies in the input data as:

\[ \frac{n_{samples}}{n_{classes} \cdot \text{table}(y)} \]

Note, the class weights are multiplied with sample_weight (passed via fit_params) if sample_weight is specified.

fit_params
Optional, a mapping from parameter names in the model’s fit method to the column names which hold the data, e.g. list(sample_weight = 'survey_weight_column').

cross_validation_parameters
Optional, parameter grid for learner parameters, e.g. list(n_estimators = c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3)) or "hyperband" for supported models.

calibration
Optional, if not NULL, calibrate output probabilities with the selected method, sigmoid, or isotonic. Valid only with classification models.

oos_scores_table
Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".

oos_scores_db
Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.

oos_scores_if_exists
Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".
civis_ml_random_forest_classifier

**model_name**
Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.

**cpu_requested**
Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.

**memory_requested**
Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.

**disk_requested**
Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.

**notifications**
Optional, model status notifications. See `scripts_post_custom` for further documentation about email and URL notification.

**polling_interval**
Check for job completion every this number of seconds.

**verbose**
Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.

**civisml_version**
Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production.

**Value**

A `civis_ml` object, a list containing the following elements:

- **job**
  job metadata from `scripts_get_custom`.

- **run**
  run metadata from `scripts_get_custom_runs`.

- **outputs**
  CivisML metadata from `scripts_list_custom_runs_outputs` containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.

- **metrics**
  Parsed CivisML output from `metrics.json` containing metadata from validation. A list containing the following elements:
  - run list, metadata about the run.
  - data list, metadata about the training data.
  - model list, the fitted scikit-learn model with CV results.
  - metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
  - warnings list.
  - data_platform list, training data location.

- **model_info**
  Parsed CivisML output from `model_info.json` containing metadata from training. A list containing the following elements:
  - run list, metadata about the run.
  - data list, metadata about the training data.
  - model list, the fitted scikit-learn model.
  - metrics empty list.
  - warnings list.
  - data_platform list, training data location.
Data Sources

For building models with `civis_ml`, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a `data.frame` resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling `civis_ml`:

- `data.frame` `civis_ml(x = df, ...)`
- `local csv file` `civis_ml(x = "path/to/data.csv", ...)`
- `file in Civis Platform` `civis_ml(x = civis_file(1234))`
- `table in Civis Platform` `civis_ml(x = civis_table(table_name = "schema.table", database_name = "database"))`

Examples

```r
## Not run:
df <- iris
names(df) <- gsub("\."", ",", names(df))

m <- civis_ml_random_forest_classifier(df,
 dependent_variable = "Species",
 n_estimators = 100,
 max_depth = 5,
 max_features = NULL)

yhat <- fetch_oos_scores(m)

# Grid Search

cv_params <- list(
  n_estimators = c(100, 200, 500),
  max_depth = c(2, 3))

m <- civis_ml_random_forest_classifier(df,
 dependent_variable = "Species",
 max_features = NULL,
 cross_validation_parameters = cv_params)

pred_info <- predict(m, civis_table("schema.table", "my_database"),
 output_table = "schema.scores_table")

## End(Not run)
```

---

civis_ml_random_forest_regressor

CivisML Random Forest Regressor

Description

CivisML Random Forest Regressor
Usage

civis_ml_random_forest_regressor(
    x,
    dependent_variable,
    primary_key = NULL,
    excluded_columns = NULL,
    n_estimators = 500,
    criterion = c("mse", "mae"),
    max_depth = NULL,
    min_samples_split = 2,
    min_samples_leaf = 1,
    min_weight_fraction_leaf = 0,
    max_features = "sqrt",
    max_leaf_nodes = NULL,
    min_impurity_split = 1e-07,
    bootstrap = TRUE,
    random_state = 42,
    fit_params = NULL,
    cross_validation_parameters = NULL,
    oos_scores_table = NULL,
    oos_scores_db = NULL,
    oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
    model_name = NULL,
    cpu_requested = NULL,
    memory_requested = NULL,
    disk_requested = NULL,
    notifications = NULL,
    polling_interval = NULL,
    verbose = FALSE,
    civisml_version = "prod"
)

Arguments

x          See the Data Sources section below.
dependent_variable
The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.

primary_key Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In predict.civis_ml, the primary_key of the training task is used by default primary_key = NA. Use primary_key = NULL to explicitly indicate the data have no primary_key.

excluded_columns Optional, a vector of columns which will be considered ineligible to be independent variables.

n_estimators The number of boosting stages to perform. Gradient boosting is fairly robust to over-fitting, so a large number usually results in better predictive performance.
criterion
The function used to measure the quality of a split. Supported criteria are mse for the mean squared error, and mae for the mean absolute error.

max_depth
Maximum depth of the individual regression estimators. The maximum depth limits the number of nodes in the tree. Tune this parameter for best performance. The best value depends on the interaction of the input variables.

min_samples_split
The minimum number of samples required to split an internal node. If an integer, then consider min_samples_split as the minimum number. If a float, then min_samples_split is a percentage and ceiling(min_samples_split * n_samples) are the minimum number of samples for each split.

min_samples_leaf
The minimum number of samples required to be in a leaf node. If an integer, then consider min_samples_leaf as the minimum number. If a float, the min_samples_leaf is a percentage and ceiling(min_samples_leaf * n_samples) are the minimum number of samples for each leaf node.

min_weight_fraction_leaf
The minimum weighted fraction of the sum total of weights required to be at a leaf node.

max_features
The number of features to consider when looking for the best split.
integer consider max_features at each split.
float then max_features is a percentage and max_features * n_features are considered at each split.
auto then max_features = sqrt(n_features)
sqrt then max_features = sqrt(n_features)
log2 then max_features = log2(n_features)
NULL then max_features = n_features

max_leaf_nodes
Grow trees with max_leaf_nodes in best-first fashion. Best nodes are defined as relative reduction to impurity. If max_leaf_nodes = NULL then unlimited number of leaf nodes.

min_impurity_split
Threshold for early stopping in tree growth. A node will split if its impurity is above the threshold, otherwise it is a leaf.

bootstrap
Whether bootstrap samples are used when building trees.

random_state
The seed of the random number generator.

fit_params
Optional, a mapping from parameter names in the model’s fit method to the column names which hold the data, e.g. list(sample_weight = 'survey_weight_column').

cross_validation_parameters
Optional, parameter grid for learner parameters, e.g. list(n_estimators = c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3)) or "hyperband" for supported models.

oos_scores_table
Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".

oos_scores_db
Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.
oos_scores_if_exists
- Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".

model_name
- Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.

cpu_requested
- Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.

memory_requested
- Optional, the memory requested from Civis Platform for training jobs or prediction child jobs.

disk_requested
- Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs.

notifications
- Optional, model status notifications. See scripts_post_custom for further documentation about email and URL notification.

polling_interval
- Check for job completion every this number of seconds.

verbose
- Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.

civisml_version
- Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

**Value**

A civis_ml object, a list containing the following elements:

- job: job metadata from scripts_get_custom.
- run: run metadata from scripts_get_custom_runs.
- outputs: CivisML metadata from scripts_list_custom_runs_outputs containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.
- metrics: Parsed CivisML output from metrics.json containing metadata from validation. A list containing the following elements:
  - run list, metadata about the run.
  - data list, metadata about the training data.
  - model list, the fitted scikit-learn model with CV results.
  - metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
  - warnings list.
  - data_platform list, training data location.
- model_info: Parsed CivisML output from model_info.json containing metadata from training. A list containing the following elements:
  - run list, metadata about the run.
  - data list, metadata about the training data.
  - model list, the fitted scikit-learn model.
  - metrics empty list.
  - warnings list.
  - data_platform list, training data location.
Data Sources

For building models with `civis_ml`, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a `data.frame` resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling `civis_ml`:

- `data.frame`: `civis_ml(x = df, ...)`
- `local csv file`: `civis_ml(x = "path/to/data.csv", ...)`
- `file in Civis Platform`: `civis_ml(x = civis_file(1234))`
- `table in Civis Platform`: `civis_ml(x = civis_table(table_name = "schema.table", database_name = "database"))`

Examples

```r
## Not run:
data(ChickWeight)

m <- civis_ml_random_forest_regressor(ChickWeight,
  dependent_variable = "weight",
  n_estimators = 100,
  max_depth = 5,
  max_features = NULL)
yhat <- fetch_oos_scores(m)

# Grid Search
cv_params <- list(
  n_estimators = c(100, 200, 500),
  max_depth = c(2, 3))

m <- civis_ml_random_forest_regressor(ChickWeight,
  dependent_variable = "weight",
  max_features = NULL,
  cross_validation_parameters = cv_params)
pred_info <- predict(m, civis_table("schema.table", "my_database"),
  output_table = "schema.scores_table")

## End(Not run)
```

CIVIS_ML_REGRESSORS

List of `civis_ml` regression models.

Description

List of `civis_ml` regression models.

Usage

CIVIS_ML_REGRESSORS
Format
An object of class character of length 7.

civis_ml_sparse_linear_regressor
CivisML Sparse Linear Regression

Description
CivisML Sparse Linear Regression

Usage
civis_ml_sparse_linear_regressor(
  x,
  dependent_variable,
  primary_key = NULL,
  excluded_columns = NULL,
  fit_intercept = TRUE,
  normalize = FALSE,
  fit_params = NULL,
  cross_validation_parameters = NULL,
  oos_scores_table = NULL,
  oos_scores_db = NULL,
  oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
  model_name = NULL,
  cpu_requested = NULL,
  memory_requested = NULL,
  disk_requested = NULL,
  notifications = NULL,
  polling_interval = NULL,
  verbose = FALSE,
  civisml_version = "prod"
)

Arguments
x
  See the Data Sources section below.

dependent_variable
  The dependent variable of the training dataset. For a multi-target problem, this
  should be a vector of column names of dependent variables. Nulls in a single
  dependent variable will automatically be dropped.

primary_key
  Optional, the unique ID (primary key) of the training dataset. This will be used
  to index the out-of-sample scores. In predict.civis_ml, the primary_key of
  the training task is used by default primary_key = NA. Use primary_key = NULL
  to explicitly indicate the data have no primary_key.
Optional, a vector of columns which will be considered ineligible to be independent variables.

Should an intercept term be included in the model. If FALSE, no intercept will be included, in this case the data are expected to already be centered.

If TRUE, the regressors will be normalized before fitting the model. normalize is ignored when fit_intercept = FALSE.

Optional, a mapping from parameter names in the model’s fit method to the column names which hold the data, e.g. list(sample_weight = 'survey_weight_column').

Optional, parameter grid for learner parameters, e.g. list(n_estimators = c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3)) or "hyperband" for supported models.

Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".

Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.

Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".

Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.

Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.

Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.

Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.

Optional, model status notifications. See scripts_post_custom for further documentation about email and URL notification.

Check for job completion every this number of seconds.

Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.

Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

A civis_ml object, a list containing the following elements:

job          job metadata from scripts_get_custom.
run metadata from `scripts_get_custom_runs`.

outputs
CivisML metadata from `scripts_list_custom_runs_outputs` containing the locations of files produced by CivisML e.g. files, projects, metrics, `model_info`, logs, predictions, and estimators.

metrics
Parsed CivisML output from `metrics.json` containing metadata from validation. A list containing the following elements:

- run list, metadata about the run.
- data list, metadata about the training data.
- model list, the fitted scikit-learn model with CV results.
- metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
- warnings list.
- data_platform list, training data location.

`model_info`
Parsed CivisML output from `model_info.json` containing metadata from training. A list containing the following elements:

- run list, metadata about the run.
- data list, metadata about the training data.
- model list, the fitted scikit-learn model.
- metrics empty list.
- warnings list.
- data_platform list, training data location.

Data Sources
For building models with `civis_ml`, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a `data.frame` resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling `civis_ml`:

- `data.frame` `civis_ml(x = df, ...)`
- local CSV file `civis_ml(x = "path/to/data.csv", ...)`
- file in Civis Platform `civis_ml(x = civis_file(1234))`
- table in Civis Platform `civis_ml(x = civis_table(table_name = "schema.table", database_name = "database"))`

Examples

```r
## Not run:
data(ChickWeight)
m <- civis_ml_sparse_linear_regressor(ChickWeight, dependent_variable = "weight")
yhat <- fetch_oos_scores(m)

# make a prediction job, storing in a redshift table
pred_info <- predict(m, newdata = civis_table("schema.table", "my_database"),
                     output_table = "schema.scores_table")
```

## End(Not run)
CivisML Sparse Logistic

Description

CivisML Sparse Logistic

Usage

civis_ml_sparse_logistic(
  x,
  dependent_variable,
  primary_key = NULL,
  excluded_columns = NULL,
  penalty = c("l2", "l1"),
  dual = FALSE,
  tol = 1e-08,
  C = 499999950,
  fit_intercept = TRUE,
  intercept_scaling = 1,
  class_weight = NULL,
  random_state = 42,
  solver = c("liblinear", "newton-cg", "lbfgs", "sag"),
  max_iter = 100,
  multi_class = c("ovr", "multinomial"),
  fit_params = NULL,
  cross_validation_parameters = NULL,
  calibration = NULL,
  oos_scores_table = NULL,
  oos_scores_db = NULL,
  oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
  model_name = NULL,
  cpu_requested = NULL,
  memory_requested = NULL,
  disk_requested = NULL,
  notifications = NULL,
  polling_interval = NULL,
  verbose = FALSE,
  civisml_version = "prod"
)

Arguments

x See the Data Sources section below.
dependent_variable
The dependent variable of the training dataset. For a multi-target problem, this
should be a vector of column names of dependent variables. Nulls in a single
dependent variable will automatically be dropped.

primary_key
Optional, the unique ID (primary key) of the training dataset. This will be used
to index the out-of-sample scores. In predict.civis_ml, the primary_key of
the training task is used by default primary_key = NA. Use primary_key = NULL
to explicitly indicate the data have no primary_key.

excluded_columns
Optional, a vector of columns which will be considered ineligible to be indepen-
dent variables.

penalty
Used to specify the norm used in the penalization. The newton-cg, sag, and
lbfgs solvers support only l2 penalties.

dual
Dual or primal formulation. Dual formulation is only implemented for l2 penalty
with the liblinear solver. dual = FALSE should be preferred when n_samples
> n_features.

tol
Tolerance for stopping criteria.

C
Inverse of regularization strength, must be a positive float. Smaller values spec-
ify stronger regularization.

fit_intercept
Should a constant or intercept term be included in the model.

intercept_scaling
Useful only when the solver = "liblinear" and fit_intercept = TRUE. In
this case, a constant term with the value intercept_scaling is added to the
design matrix.

class_weight
A list with class_label = value pairs, or balanced. When class_weight
= "balanced", the class weights will be inversely proportional to the class fre-
quencies in the input data as:

\[
\frac{n_{\text{samples}}}{n_{\text{classes}} \times \text{table}(y)}
\]

Note, the class weights are multiplied with sample_weight (passed via fit_params)
if sample_weight is specified.

random_state
The seed of the random number generator to use when shuffling the data. Used
only in solver = "sag" and solver = "liblinear".

solver
Algorithm to use in the optimization problem. For small data liblinear is a
good choice. sag is faster for larger problems. For multiclass problems, only
newton-cg, sag, and lbfgs handle multinomial loss. liblinear is limited
to one-versus-rest schemes. newton-cg, lbfgs, and sag only handle the l2
penalty.

Note that sag fast convergence is only guaranteed on features with approxi-
mately the same scale.

max_iter
The maximum number of iterations taken for the solvers to converge. Useful for
the newton-cg, sag, and lbfgs solvers.
The scheme for multi-class problems. When ovr, then a binary problem is fit for
each label. When multinomial, a single model is fit minimizing the multino-
mial loss. Note, multinomial only works with the newton-cg, sag, and lbfgs
solvers.

Optional, a mapping from parameter names in the model’s fit method to the
column names which hold the data, e.g. list(sample_weight = 'survey_weight_column').

Optional, parameter grid for learner parameters, e.g. list(n_estimators =
c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3)) or
"hyperband" for supported models.

Optional, if not NULL, calibrate output probabilities with the selected method,
sigmoid, or isotonic. Valid only with classification models.

Optional, if provided, store out-of-sample predictions on training set data to this
Redshift "schema.tablename".

Optional, the name of the database where the oos_scores_table will be cre-
at. If not provided, this will default to database_name.

Optional, action to take if oos_scores_table already exists. One of "fail",
"append", "drop", or "truncate". The default is "fail".

Optional, the prefix of the Platform modeling jobs. It will have " Train" or "
Predict" added to become the Script title.

Optional, the number of CPU shares requested in the Civis Platform for training
jobs or prediction child jobs. 1024 shares = 1 CPU.

Optional, the memory requested from Civis Platform for training jobs or predic-
tion child jobs, in MiB.

Optional, the disk space requested on Civis Platform for training jobs or predic-
tion child jobs, in GB.

Optional, model status notifications. See scripts_post_custom for further
documentation about email and URL notification.

Check for job completion every this number of seconds.

Optional, If TRUE, supply debug outputs in Platform logs and make prediction
child jobs visible.

Optional, a one-length character vector of the CivisML version. The default is
"prod", the latest version in production

A civis_ml object, a list containing the following elements:

job metadata from scripts_get_custom.
run metadata from scripts_get_custom_runs.
outputs CivisML metadata from `scripts_list_custom_runs_outputs` containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.

metrics Parsed CivisML output from `metrics.json` containing metadata from validation. A list containing the following elements:
- run list, metadata about the run.
- data list, metadata about the training data.
- model list, the fitted scikit-learn model with CV results.
- metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
- warnings list.
- data_platform list, training data location.

model_info Parsed CivisML output from `model_info.json` containing metadata from training. A list containing the following elements:
- run list, metadata about the run.
- data list, metadata about the training data.
- model list, the fitted scikit-learn model.
- metrics empty list.
- warnings list.
- data_platform list, training data location.

Data Sources
For building models with `civis_ml`, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a data.frame resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling `civis_ml`:

- `data.frame civis_ml(x = df, ...)`
- `local csv file civis_ml(x = "path/to/data.csv", ...)`
- `file in Civis Platform civis_ml(x = civis_file(1234))`
- `table in Civis Platform civis_ml(x = civis_table(table_name = "schema.table", database_name = "database"))`

Examples

```r
## Not run:

df <- iris
names(df) <- gsub("\.", ",", names(df))

m <- civis_ml_sparse_logistic(df, "Species")
yhat <- fetch_oos_scores(m)

# Grid Search
cv_params <- list(C = c(.01, 1, 10, 100, 1000))
```

m <- civis_ml_sparse_logistic(df, "Species",
            cross_validation_parameters = cv_params)

# make a prediction job, storing in a redshift table
pred_info <- predict(m, newdata = civis_table("schema.table", "my_database"),
        output_table = "schema.scores_table")

## End(Not run)

civis_ml_sparse_ridge_regressor

_CivisML Sparse Ridge Regression_

**Description**

_CivisML Sparse Ridge Regression_

**Usage**

```r
civis_ml_sparse_ridge_regressor(
    x,
    dependent_variable,
    primary_key = NULL,
    excluded_columns = NULL,
    alpha = 1,
    fit_intercept = TRUE,
    normalize = FALSE,
    max_iter = NULL,
    tol = 0.001,
    solver = c("auto", "svd", "cholesky", "lsqr", "sparse_cg", "sag"),
    random_state = 42,
    fit_params = NULL,
    cross_validation_parameters = NULL,
    oos_scores_table = NULL,
    oos_scores_db = NULL,
    oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
    model_name = NULL,
    cpu_requested = NULL,
    memory_requested = NULL,
    disk_requested = NULL,
    notifications = NULL,
    polling_interval = NULL,
    verbose = FALSE,
    civisml_version = "prod"
)
```
Arguments

- **x**
  - See the Data Sources section below.
- **dependent_variable**
  - The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.
- **primary_key**
  - Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In `predict.civis_ml`, the `primary_key` of the training task is used by default `primary_key = NA`. Use `primary_key = NULL` to explicitly indicate the data have no `primary_key`.
- **excluded_columns**
  - Optional, a vector of columns which will be considered ineligible to be independent variables.
- **alpha**
  - The regularization strength, must be a vector of floats of length `n_targets` or a single float. Larger values specify stronger regularization.
- **fit_intercept**
  - Should an intercept term be included in the model. If `FALSE`, no intercept will be included, in this case the data are expected to already be centered.
- **normalize**
  - If `TRUE`, the regressors will be normalized before fitting the model. `normalize` is ignored when `fit_intercept = FALSE`.
- **max_iter**
  - Maximum number of iterations for conjugate gradient solver. For `sparse_cg` and `lsqr` solvers, the default value is predetermined. For the `sag` solver, the default value is 1000.
- **tol**
  - Precision of the solution.
- **solver**
  - Solver to use for the optimization problem.
    - **auto** chooses the solver automatically based on the type of data.
    - **svd** uses Singular Value Decomposition of X to compute the Ridge coefficients.
      - More stable for singular matrices than **cholesky**.
    - **cholesky** uses the standard decomposition to obtain a closed-form solution.
    - **sparse_cg** uses the conjugate gradient solver. As an iterative algorithm, this solver is more appropriate than **cholesky** for large-scale data.
    - **lsqr** uses the dedicated regularized least-squares routine.
    - **sag** uses Stochastic Average Gradient descent. It also uses an iterative procedure, and is often faster than other solvers when both `n_samples` and `n_features` are large. Note that `sag` fast convergence is only guaranteed on features with approximately the same scale.
- **random_state**
  - The seed of the pseudo random number generator to use when shuffling the data. Used only when `solver = "sag"`.
- **fit_params**
  - Optional, a mapping from parameter names in the model’s `fit` method to the column names which hold the data, e.g. `list(sample_weight = 'survey_weight_column')`.
- **cross_validation_parameters**
  - Optional, parameter grid for learner parameters, e.g. `list(n_estimators = c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3))` or "hyperband" for supported models.
oos_scores_table
Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".

oos_scores_db
Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.

oos_scores_if_exists
Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".

model_name
Optional, the prefix of the Platform modeling jobs. It will have " Train" or " Predict" added to become the Script title.

cpu_requested
Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.

memory_requested
Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.

disk_requested
Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.

notifications
Optional, model status notifications. See scripts_post_custom for further documentation about email and URL notification.

polling_interval
Check for job completion every this number of seconds.

verbose
Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.

civisml_version
Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

Value
A civis_ml object, a list containing the following elements:

job
job metadata from scripts_get_custom.

run
run metadata from scripts_get_custom_runs.

outputs
CivisML metadata from scripts_list_custom_runs_outputs containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.

metrics
Parsed CivisML output from metrics.json containing metadata from validation. A list containing the following elements:

• run list, metadata about the run.
• data list, metadata about the training data.
• model list, the fitted scikit-learn model with CV results.
• metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
• warnings list.
• data_platform list, training data location.
civis_ml_sparse_ridge_regressor

model_info
Parsed CivisML output from model_info.json containing metadata from training. A list containing the following elements:

• run list, metadata about the run.
• data list, metadata about the training data.
• model list, the fitted scikit-learn model.
• metrics empty list.
• warnings list.
• data_platform list, training data location.

Data Sources
For building models with civis_ml, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a data.frame resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling civis_ml:

data.frame civis_ml(x = df, ...)
local csv file civis_ml(x = "path/to/data.csv", ...)
file in Civis Platform civis_ml(x = civis_file(1234))
table in Civis Platform civis_ml(x = civis_table(table_name = "schema.table", database_name = "database"))

Examples

## Not run:
data(ChickWeight)
m <- civis_ml_sparse_ridge_regressor(ChickWeight, dependent_variable = "weight", alpha = 999)
yhat <- fetch_oos_scores(m)
# Grid search
cv_params <- list(alpha = c(.001, .01, .1, 1))
m <- civis_ml_sparse_ridge_regressor(ChickWeight,
dependent_variable = "weight",
cross_validation_parameters = cv_params,
calibration = NULL)

# make a prediction job, storing in a redshift table
pred_info <- predict(m, newdata = civis_table("schema.table", "my_database"),
output_table = "schema.scores_table")

## End(Not run)
civis_platform  Evaluate an expression in Civis Platform

Description

This is used as with the `future` API as an argument to `plan`.

Usage

civis_platform(...)  

Arguments

...  Arguments to `CivisFuture` and then `scripts_post_containers`

Value

The result of evaluating `expr`.

Examples

```r
## Not run:
plan(civis_platform)

# Specify required resources, image, and tag.
fut <- future({2 + 2},
  required_resources = list(cpu = 1024, memory = 2048),
  docker_image_name = "civisanalytics/datascience-r",
  docker_image_tag = "3")

# Evaluate the future later
fut <- future({2 + 2}, lazy = TRUE)
run(fut)

# check if a future has resolved
resolved(fut)

# block until the future resolves, and return the value or throw error
value(fut)

# cancel the job
cancel(fut)

# grab the run logs
fetch_logs(fut)

# handle errors
fut <- future({stop("Error!")})
e <- tryCatch(value(fut), error = function(e) e)
```
civis_script  

get_error(e)

## End(Not run)

civis_script  

Civis Script

Description

Create a civis_script object from a job and run id.

Usage

civis_script(id, run_id = NULL)

Arguments

id integer, job id of the script.
run_id integer, id of the run. If NULL (default), the most recent run will be used.

Details

A civis_script can be any custom, container, R, Python, SQL, or Javascript platform script.

Value

a civis_script object.

See Also

read_civis

Other script utils: fetch_output_file_ids(), run_civis(), run_template()
civis_table

A table in the Civis Platform

Description

Use civis_table to use a table in the Civis Platform with civis_ml.

Usage

civis_table(
  table_name,
  database_name = NULL,
  sql_where = NULL,
  sql_limit = NULL
)

Arguments

database_name
  The table name, as "schema.table".
database_name
  The name of the database holding table_name.
sql_where
  A SQL WHERE clause used to scope the rows of the training or prediction table. Note, the WHERE keyword is added at runtime.
sql_limit
  A SQL LIMIT clause for querying the training or prediction set. Note, the LIMIT keyword is added at runtime.

Value

A civis_table.

---

civis_to_multifile_csv

Split a Redshift table into multiple CSV parts on S3

Description

Split a Redshift table into multiple CSV parts on S3 and return their locations as file IDs and presigned S3 urls.
Usage

```r
civis_to_multifile_csv(
  sql,
  database,
  job_name = NULL,
  hidden = TRUE,
  include_header = TRUE,
  compression = "gzip",
  delimiter = ",",
  unquoted = FALSE,
  prefix = NULL
)
```

Arguments

- `sql` : string, The SQL select string to be executed.
- `database` : string, Name of database where query is run.
- `job_name` : string, optional. Name to identify scripted sql job.
- `hidden` : logical, Whether to hide the query in platform.
- `include_header` : logical, optional. Whether to include headers as an element in the returned list.
- `compression` : string, optional, Type of compression to use, if any. One of 'none', 'zip', or 'gzip'.
- `delimiter` : string, optional. Which delimiter to use. One of ',', '\t' or '|'.
- `unquoted` : logical, optional. Whether or not to quote fields.
- `prefix` : string, optional. A user specified filename prefix for the output files to have.

Details

When tables are large, unloading by splitting them first is faster. When we split a table, each Redshift compute node can dump its data into S3 in parallel with the others. By doing so, we avoid having all compute nodes sending the data through the leader node, which is slow.

This function returns a list that contains the location of the CSV parts as file IDs and presigned S3 urls. The user can use either the file IDs or the presigned S3 urls to download the CSV parts. The content of the list returned by this function is similar to that of the manifest file returned by Amazon S3 UNLOAD statements.

Value

A list with the items:

- header: column headers if 'include_header' is TRUE
- query: the executed query
- entries: a list containing presigned urls for each csv part
- compression: the type of compression on each csv part
- delimiter: the delimiter used to separate fields
- unquoted: whether fields are quoted
## Not run:
```r
# Download a table into multiple csv parts
sql <- "SELECT * FROM schema.table"
database <- "important_database"
manifest <- civis_to_multifile_csv(sql=sql, database=database)
files <- lapply(manifest[["entries"]], function(x) {
  download_civis(x$id, x$name)
  x$name
})
```

## End(Not run)

---

### clusters_delete_kubernetes_partitions

**Delete a Cluster Partition**

**Description**
Delete a Cluster Partition

**Usage**

```r
clusters_delete_kubernetes_partitions(id, cluster_partition_id)
```

**Arguments**

- `id` integer required. The ID of the cluster which this partition belongs to.
- `cluster_partition_id` integer required. The ID of this cluster partition.

**Value**
An empty HTTP response

---

### clusters_get_kubernetes

**Describe a Kubernetes Cluster**

**Description**
Describe a Kubernetes Cluster

**Usage**

```r
clusters_get_kubernetes(id, include_usage_stats = NULL)
```
clusters_get_kubernetes_instance_configs

Arguments

id  integer required.
include_usage_stats  boolean optional. When true, usage stats are returned in instance config objects. Defaults to false.

Value

A list containing the following elements:

id  integer, The ID of this cluster.
organizationId  string, The id of this cluster’s organization.
organizationName  string, The name of this cluster’s organization.
organizationSlug  string, The slug of this cluster’s organization.
clusterPartitions  array, An array containing the following fields:
  - clusterPartitionId  integer, The ID of this cluster partition.
  - name  string, The name of the cluster partition.
  - labels  array, Labels associated with this partition.
  - instanceConfigs  array, The instances configured for this cluster partition.
  - defaultInstanceConfigId  integer, The id of the InstanceConfig that is the default for this partition.
isNatEnabled  boolean, Whether this cluster needs a NAT gateway or not.
hours  number, The number of hours used this month for this cluster

Description

Describe an Instance Config

Usage

clusters_get_kubernetes_instance_configs(
    instance_config_id,
    include_usage_stats = NULL
)
Arguments

```
instance_config_id
integer required. The ID of this instance config.

include_usage_stats
boolean optional. When true, usage stats are returned in instance config objects. Defaults to false.
```

Value

A list containing the following elements:

```
instanceConfigId
integer, The ID of this InstanceConfig.

instanceType
string, An EC2 instance type. Possible values include t2.large, m4.xlarge, m4.2xlarge, m4.4xlarge, m5.12xlarge, and p2.xlarge.

minInstances
integer, The minimum number of instances of that type in this cluster.

maxInstances
integer, The maximum number of instances of that type in this cluster.

instanceMaxMemory
integer, The amount of memory (RAM) available to a single instance of that type in megabytes.

instanceMaxCpu
integer, The number of processor shares available to a single instance of that type in millicores.

instanceMaxDisk
integer, The amount of disk available to a single instance of that type in gigabytes.

usageStats
list, A list containing the following elements:

- pendingMemoryRequested integer, The sum of memory requests (in MB) for pending deployments in this instance config.
- pendingCpuRequested integer, The sum of cpu requests (in millicores) for pending deployments in this instance config.
- runningMemoryRequested integer, The sum of memory requests (in MB) for running deployments in this instance config.
- runningCpuRequested integer, The sum of cpu requests (in millicores) for running deployments in this instance config.
- pendingDeployments integer, The number of pending deployments in this instance config.
- runningDeployments integer, The number of running deployments in this instance config.
clusters_get_kubernetes_partitions

*Describe a Cluster Partition*

**Description**

Describe a Cluster Partition

**Usage**

```python
clusters_get_kubernetes_partitions(
    id,
    cluster_partition_id,
    include_usage_stats = NULL
)
```

**Arguments**

- `id` integer required. The ID of the cluster which this partition belongs to.
- `cluster_partition_id` integer required. The ID of this cluster partition.
- `include_usage_stats` boolean optional. When true, usage stats are returned in instance config objects. Defaults to false.

**Value**

A list containing the following elements:

- `clusterPartitionId` integer, The ID of this cluster partition.
- `name` string, The name of the cluster partition.
- `labels` array, Labels associated with this partition.
- `instanceConfigs` array, An array containing the following fields:
  - `instanceConfigId` integer, The ID of this InstanceConfig.
  - `instanceType` string, An EC2 instance type. Possible values include t2.large, m4.xlarge, m4.2xlarge, m4.4xlarge, m5.12xlarge, and p2.xlarge.
  - `minInstances` integer, The minimum number of instances of that type in this cluster.
  - `maxInstances` integer, The maximum number of instances of that type in this cluster.
  - `instanceMaxMemory` integer, The amount of memory (RAM) available to a single instance of that type in megabytes.
  - `instanceMaxCpu` integer, The number of processor shares available to a single instance of that type in millicores.
clusters_list_kubernetes

- instanceMaxDisk integer, The amount of disk available to a single instance of that type in gigabytes.
- usageStats object,

defaultInstanceConfigId
    integer, The id of the InstanceConfig that is the default for this partition.

clusters_list_kubernetes

List Kubernetes Clusters

Description

List Kubernetes Clusters

Usage

clusters_list_kubernetes(
    organization_slug = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments

organization_slug
    string optional. The slug of this cluster’s organization.
limit
    integer optional. Number of results to return. Defaults to its maximum of 50.
page_num
    integer optional. Page number of the results to return. Defaults to the first page, 1.
order
    string optional. The field on which to order the result set. Defaults to organization_id. Must be one of: organization_id, created_at.
order_dir
    string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

Value

An array containing the following fields:

id
    integer, The ID of this cluster.
organizationId
    string, The id of this cluster’s organization.
organizationName
    string, The name of this cluster’s organization.
organizationSlug
    string, The slug of this cluster’s organization.
clusterPartitions array, An array containing the following fields:
  • clusterPartitionId integer, The ID of this cluster partition.
  • name string, The name of the cluster partition.
  • labels array, Labels associated with this partition.
  • instanceConfigs array, The instances configured for this cluster partition.
  • defaultInstanceConfigId integer, The id of the InstanceConfig that is the default for this partition.

isNatEnabled boolean, Whether this cluster needs a NAT gateway or not.

---

clusters_list_kubernetes_deployments

*List the deployments associated with a Kubernetes Cluster*

---

**Description**

List the deployments associated with a Kubernetes Cluster

**Usage**

```python
clusters_list_kubernetes_deployments(
    id,
    base_type = NULL,
    state = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

- **id** integer required. The id of the cluster.
- **base_type** string optional. If specified, return deployments of these base types. It accepts a comma-separated list, possible values are 'Notebook', 'Service', 'Run'.
- **state** string optional. If specified, return deployments in these states. It accepts a comma-separated list, possible values are pending, running, terminated, sleeping
- **limit** integer optional. Number of results to return. Defaults to its maximum of 50.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.
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clusters_list_kubernetes_deployment_stats

Value

An array containing the following fields:

- id (integer): The id of this deployment.
- name (string): The name of the deployment.
- baseId (integer): The id of the base object associated with the deployment.
- baseType (string): The base type of this deployment.
- state (string): The state of the deployment.
- cpu (integer): The CPU in millicores required by the deployment.
- memory (integer): The memory in MB required by the deployment.
- diskSpace (integer): The disk space in GB required by the deployment.
- instanceType (string): The EC2 instance type requested for the deployment.
- author (list): A list containing the following elements:
  - id (integer): The ID of this user.
  - name (string): This user’s name.
  - username (string): This user’s username.
  - initials (string): This user’s initials.
  - online (boolean): Whether this user is online.
- createdAt (string),
- updatedAt (string),

clusters_list_kubernetes_deployment_stats

*Get stats about deployments associated with a Kubernetes Cluster*

Description

Get stats about deployments associated with a Kubernetes Cluster

Usage

`clusters_list_kubernetes_deployment_stats(id)`

Arguments

- id (integer required): The ID of this cluster.
clusters_list_kubernetes_instance_configs_historical_graphs

Value

An array containing the following fields:

baseType string, The base type of this deployment
state string, State of the deployment
count integer, Number of deployments of base type and state
totalCpu integer, Total amount of CPU in millicores for deployments of base type and state
totalMemory integer, Total amount of Memory in megabytes for deployments of base type and state

clusters_list_kubernetes_instance_configs_historical_graphs

Get graphs of historical resource usage in an Instance Config

Description

Get graphs of historical resource usage in an Instance Config

Usage

clusters_list_kubernetes_instance_configs_historical_graphs(
    instance_config_id,
    timeframe = NULL
)

Arguments

instance_config_id integer required. The ID of this instance config.
timeframe string optional. The span of time that the graphs cover. Must be one of 1_day, 1_week.

Value

A list containing the following elements:

cpuGraphUrl string, URL for the graph of historical CPU usage in this instance config.
memGraphUrl string, URL for the graph of historical memory usage in this instance config.
clusters_list_kubernetes_instance_configs_user_statistics

Get statistics about the current users of an Instance Config

Description

Get statistics about the current users of an Instance Config

Usage

clusters_list_kubernetes_instance_configs_user_statistics(
    instance_config_id,
    order = NULL,
    order_dir = NULL
)

Arguments

instance_config_id
    integer required. The ID of this instance config.

order
    string optional. The field on which to order the result set. Defaults to running_deployments. Must be one of pending_memory_requested, pending_cpu_requested, running_memory_requested, running_cpu_requested, pending_deployments, running_deployments.

order_dir
    string optional. Direction in which to sort, either asc (ascending) or desc (descending). Defaults to desc.

Value

An array containing the following fields:

userId
    string, The owning user's ID

userName
    string, The owning user's name

pendingDeployments
    integer, The number of deployments belonging to the owning user in "pending" state

pendingMemoryRequested
    integer, The sum of memory requests (in MB) for deployments belonging to the owning user in "pending" state

pendingCpuRequested
    integer, The sum of CPU requests (in millicores) for deployments belonging to the owning user in "pending" state

runningDeployments
    integer, The number of deployments belonging to the owning user in "running" state
clusters_list_kubernetes_partitions

runningMemoryRequested
integer, The sum of memory requests (in MB) for deployments belonging to the
owning user in "running" state

runningCpuRequested
integer, The sum of CPU requests (in millicores) for deployments belonging to
the owning user in "running" state

clusters_list_kubernetes_partitions

List Cluster Partitions for given cluster

Description
List Cluster Partitions for given cluster

Usage
clusters_list_kubernetes_partitions(id, include_usage_stats = NULL)

Arguments
id
integer required.
include_usage_stats
boolean optional. When true, usage stats are returned in instance config objects.
Defaults to false.

Value
An array containing the following fields:

clusterPartitionId
integer, The ID of this cluster partition.

name
string, The name of the cluster partition.

labels
array, Labels associated with this partition.

instanceConfigs
array, An array containing the following fields:

• instanceConfigId integer, The ID of this InstanceConfig.
• instanceType string, An EC2 instance type. Possible values include t2.large,
m4.xlarge, m4.2xlarge, m4.4xlarge, m5.12xlarge, and p2.xlarge.
• minInstances integer, The minimum number of instances of that type in this
cluster.
• maxInstances integer, The maximum number of instances of that type in this
cluster.
• instanceMaxMemory integer, The amount of memory (RAM) available to
a single instance of that type in megabytes.
clusters_patch_kubernetes

Update a Kubernetes Cluster

Description
Update a Kubernetes Cluster

Usage
clusters_patch_kubernetes(id, is_nat_enabled = NULL)

Arguments
id integer required. The ID of this cluster.

is_nat_enabled boolean optional. Whether this cluster needs a NAT gateway or not.

Value
A list containing the following elements:

id integer, The ID of this cluster.

organizationId string, The id of this cluster’s organization.

organizationName string, The name of this cluster’s organization.

organizationSlug string, The slug of this cluster’s organization.

clusterPartitions array, An array containing the following fields:

• clusterPartitionId integer, The ID of this cluster partition.

• name string. The name of the cluster partition.

• labels array, Labels associated with this partition.

• instanceConfigs array, The instances configured for this cluster partition.

• defaultInstanceConfigId integer, The id of the InstanceConfig that is the default for this partition.

isNatEnabled boolean, Whether this cluster needs a NAT gateway or not.

hours number, The number of hours used this month for this cluster

• instanceMaxCpu integer, The number of processor shares available to a single instance of that type in millicores.

• instanceMaxDisk integer, The amount of disk available to a single instance of that type in gigabytes.

• usageStats object,

  defaultInstanceConfigId integer, The id of the InstanceConfig that is the default for this partition.
**clusters_patch_kubernetes_partitions**

*Update a Cluster Partition*

**Description**

Update a Cluster Partition

**Usage**

```
clusters_patch_kubernetes_partitions(
    id,
    cluster_partition_id,
    instance_configs = NULL,
    name = NULL,
    labels = NULL
)
```

**Arguments**

- **id** integer required. The ID of the cluster which this partition belongs to.
- **cluster_partition_id** integer required. The ID of this cluster partition.
- **instance_configs** array optional. An array containing the following fields:
  - **instanceType** string, An EC2 instance type. Possible values include t2.large, m4.xlarge, m4.2xlarge, m4.4xlarge, m5.12xlarge, and p2.xlarge.
  - **minInstances** integer, The minimum number of instances of that type in this cluster.
  - **maxInstances** integer, The maximum number of instances of that type in this cluster.
- **name** string optional. The name of the cluster partition.
- **labels** array optional. Labels associated with this partition.

**Value**

A list containing the following elements:

- **clusterPartitionId** integer, The ID of this cluster partition.
- **name** string, The name of the cluster partition.
- **labels** array, Labels associated with this partition.
- **instanceConfigs** array, An array containing the following fields:
  - **instanceConfigId** integer, The ID of this InstanceConfig.
clusters_post_kubernetes

Create a Kubernetes Cluster

Description

Create a Kubernetes Cluster

Usage

clusters_post_kubernetes(
    organization_id = NULL,
    organization_slug = NULL,
    is_nat_enabled = NULL
)

Arguments

organization_id
    string optional. The id of this cluster’s organization.
organization_slug
    string optional. The slug of this cluster’s organization.

is_nat_enabled boolean optional. Whether this cluster needs a NAT gateway or not.

Value

A list containing the following elements:

id integer, The ID of this cluster.
organizationId string, The id of this cluster’s organization.
organizationName
    string, The name of this cluster's organization.
organizationSlug
    string, The slug of this cluster's organization.
clusterPartitions
    array, An array containing the following fields:
    • clusterPartitionId integer, The ID of this cluster partition.
    • name string, The name of the cluster partition.
    • labels array, Labels associated with this partition.
    • instanceConfigs array, The instances configured for this cluster partition.
    • defaultInstanceConfigId integer, The id of the InstanceConfig that is the default for this partition.
isNatEnabled
    boolean, Whether this cluster needs a NAT gateway or not.
hours
    number, The number of hours used this month for this cluster

---

clusters_post_kubernetes_partitions

*Create a Cluster Partition for given cluster*

### Description

Create a Cluster Partition for given cluster

### Usage

```
clusters_post_kubernetes_partitions(id, instance_configs, name, labels)
```

### Arguments

- **id**
  - integer required. The ID of the cluster which this partition belongs to.
- **instance_configs**
  - array required. An array containing the following fields:
    • instanceType string, An EC2 instance type. Possible values include t2.large, m4.xlarge, m4.2xlarge, m4.4xlarge, m5.12xlarge, and p2.xlarge.
    • minInstances integer, The minimum number of instances of that type in this cluster.
    • maxInstances integer, The maximum number of instances of that type in this cluster.
- **name**
  - string required. The name of the cluster partition.
- **labels**
  - array required. Labels associated with this partition.
Value

A list containing the following elements:

- `clusterPartitionId` integer, The ID of this cluster partition.
- `name` string, The name of the cluster partition.
- `labels` array, Labels associated with this partition.
- `instanceConfigs` array, An array containing the following fields:
  - `instanceConfigId` integer, The ID of this InstanceConfig.
  - `instanceType` string, An EC2 instance type. Possible values include t2.large, m4.xlarge, m4.2xlarge, m4.4xlarge, m5.12xlarge, and p2.xlarge.
  - `minInstances` integer, The minimum number of instances of that type in this cluster.
  - `maxInstances` integer, The maximum number of instances of that type in this cluster.
  - `instanceMaxMemory` integer, The amount of memory (RAM) available to a single instance of that type in megabytes.
  - `instanceMaxCpu` integer, The number of processor shares available to a single instance of that type in millicores.
  - `instanceMaxDisk` integer, The amount of disk available to a single instance of that type in gigabytes.
  - `usageStats` object,
- `defaultInstanceConfigId` integer, The id of the InstanceConfig that is the default for this partition.

---

**Description**

Get civis_ml model coefficients

**Usage**

```r
## S3 method for class 'civis_ml'
coef(object, complete = TRUE, ...)  
```

**Arguments**

- `object` civis_ml_model
- `complete` see documentation for generic `coef()`
- `...` other arguments
credentials_delete_shares_groups

Details

Outputs coefficients with names in the style of 'stats::coef'

Value

a matrix of coefficients, or 'NULL' if none available from CivisML

Description

Revoke the permissions a group has on this object

Usage

credentials_delete_shares_groups(id, group_id)

Arguments

id integer required. The ID of the resource that is shared.
group_id integer required. The ID of the group.

Value

An empty HTTP response

credentials_delete_shares_users

Description

Revoke the permissions a user has on this object

Usage

credentials_delete_shares_users(id, user_id)

Arguments

id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value

An empty HTTP response
credentials_get  Get a credential

Description
Get a credential

Usage
credentials_get(id)

Arguments
id  integer required. The ID of the credential.

Value
A list containing the following elements:

- id  integer, The ID of the credential.
- name  string, The name identifying the credential
- type  string, The credential’s type.
- username  string, The username for the credential.
- description  string, A long description of the credential.
- owner  string, The name of the user who this credential belongs to.
- remoteHostId  integer, The ID of the remote host associated with this credential.
- remoteHostName  string, The name of the remote host associated with this credential.
- createdAt  string, The creation time for this credential.
- updatedAt  string, The last modification time for this credential.

credentials_list  List credentials

Description
List credentials
credentials_list

Usage

credentials_list(
    type = NULL,
    remote_host_id = NULL,
    default = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments

type string optional. The type (or types) of credentials to return. One or more of: Amazon Web Services S3, Bitbucket, CASS/NCOA PAF, Certificate, Civis Platform, Custom, Database, Google, Github, Salesforce User, Salesforce Client, and TableauUser. Specify multiple values as a comma-separated list (e.g., "A,B").

remote_host_id integer optional. The ID of the remote host associated with the credentials to return.

default boolean optional. If true, will return a list with a single credential which is the current user’s default credential.

limit integer optional. Number of results to return. Defaults to its maximum of 1000.

page_num integer optional. Page number of the results to return. Defaults to the first page, 1.

order string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, created_at, name.

order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

id integer, The ID of the credential.

name string, The name identifying the credential

type string, The credential’s type.

username string, The username for the credential.

description string, A long description of the credential.

owner string, The name of the user who this credential belongs to.

remoteHostId integer, The ID of the remote host associated with this credential.

remoteHostName string, The name of the remote host associated with this credential.

state string, The U.S. state for the credential. Only for VAN credentials.

createdAt string, The creation time for this credential.

updatedAt string, The last modification time for this credential.
credentials_list_shares

*List users and groups permissioned on this object*

**Description**

List users and groups permissioned on this object

**Usage**

`credentials_list_shares(id)`

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>id</code></td>
<td>integer required. The ID of the resource that is shared.</td>
</tr>
</tbody>
</table>

**Value**

An array containing the following fields:

- `readers` list, A list containing the following elements:
  - `users` array,
  - `groups` array,
- `writers` list, A list containing the following elements:
  - `users` array,
  - `groups` array,
- `owners` list, A list containing the following elements:
  - `users` array,
  - `groups` array,
- `totalUserShares` integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- `totalGroupShares` integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
credentials_post

Create a credential

Description
Create a credential

Usage
credentials_post(
    type,
    username,
    password,
    name = NULL,
    description = NULL,
    remote_host_id = NULL,
    state = NULL,
    system_credential = NULL
)

Arguments

type string required.
username string required. The username for the credential.
password string required. The password for the credential.
name string optional. The name identifying the credential.
description string optional. A long description of the credential.
remote_host_id integer optional. The ID of the remote host associated with the credential.
state string optional. The U.S. state for the credential. Only for VAN credentials.

Value
A list containing the following elements:
id integer, The ID of the credential.
name string, The name identifying the credential
type string, The credential's type.
username string, The username for the credential.
description string, A long description of the credential.
owner string, The name of the user who this credential belongs to.
remoteHostId integer, The ID of the remote host associated with this credential.
remoteHostName  string, The name of the remote host associated with this credential.
state            string, The U.S. state for the credential. Only for VAN credentials.
createdAt       string, The creation time for this credential.
updatedAt       string, The last modification time for this credential.

credentials_postAuthenticate

Authenticate against a remote host

Description
Authenticate against a remote host

Usage
credentials_postAuthenticate(url, remote_host_type, username, password)

Arguments
url                string required. The URL to your host.
remote_host_type   string required. The type of remote host. One of: RemoteHostTypes::Bitbucket,
                    RemoteHostTypes::GitSSH, RemoteHostTypes::Github, RemoteHostTypes::GoogleDoc,
                    RemoteHostTypes::JDBC, RemoteHostTypes::Postgres, RemoteHostTypes::Redshift,
                    RemoteHostTypes::S3Storage, and RemoteHostTypes::Salesforce
username          string required. The username for the credential.
password          string required. The password for the credential.

Value
A list containing the following elements:
id                integer, The ID of the credential.
name              string, The name identifying the credential
type              string, The credential’s type.
username          string, The username for the credential.
description       string, A long description of the credential.
owner             string, The name of the user who this credential belongs to.
remoteHostId      integer, The ID of the remote host associated with this credential.
remoteHostName    string, The name of the remote host associated with this credential.
state             string, The U.S. state for the credential. Only for VAN credentials.
createdAt         string, The creation time for this credential.
updatedAt         string, The last modification time for this credential.
credentials_post_temporary

Generate a temporary credential for accessing S3

Description

Generate a temporary credential for accessing S3

Usage

credentials_post_temporary(id, duration = NULL)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the credential.</td>
</tr>
<tr>
<td>duration</td>
<td>integer optional. The number of seconds the temporary credential should be valid. Defaults to 15 minutes. Must not be less than 15 minutes or greater than 36 hours.</td>
</tr>
</tbody>
</table>

Value

A list containing the following elements:

- accessKey: string, The identifier of the credential.
- secretAccessKey: string, The secret part of the credential.
- sessionToken: string, The session token identifier.

credentials_put

Update an existing credential

Description

Update an existing credential

Usage

credentials_put(
    id,
    type,
    username,
    password,
    name = NULL,
    description = NULL,
    remote_host_id = NULL,
    state = NULL,
    system_credential = NULL
)
**Arguments**

- **id** integer required. The ID of the credential.
- **type** string required.
- **username** string required. The username for the credential.
- **password** string required. The password for the credential.
- **name** string optional. The name identifying the credential.
- **description** string optional. A long description of the credential.
- **remote_host_id** integer optional. The ID of the remote host associated with the credential.
- **state** string optional. The U.S. state for the credential. Only for VAN credentials.
- **system_credential** boolean optional.

**Value**

A list containing the following elements:

- **id** integer, The ID of the credential.
- **name** string, The name identifying the credential
- **type** string, The credential’s type.
- **username** string, The username for the credential.
- **description** string, A long description of the credential.
- **owner** string, The name of the user who this credential belongs to.
- **remoteHostId** integer, The ID of the remote host associated with this credential.
- **remoteHostName** string, The name of the remote host associated with this credential.
- **state** string, The U.S. state for the credential. Only for VAN credentials.
- **createdAt** string, The creation time for this credential.
- **updatedAt** string, The last modification time for this credential.

---

**credentials_put_shares_groups**

*Set the permissions groups has on this object*

**Description**

Set the permissions groups has on this object

**Usage**

```python
credentials_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
credentials_put_shares_users

Arguments

id
text required. The ID of the resource that is shared.
group_ids
array required. An array of one or more group IDs.
permission_level
string required. Options are: "read", "write", or "manage".
share_email_body
string optional. Custom body text for e-mail sent on a share.
send_shared_email
boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers
list, A list containing the following elements:
  • users array,
  • groups array,

writers
list, A list containing the following elements:
  • users array,
  • groups array,

owners
list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

Description

Set the permissions users have on this object

Usage

credentials_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
Arguments

- **id** integer required. The ID of the resource that is shared.
- **user_ids** array required. An array of one or more user IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

databases_delete_whitelist_ips

Remove a whitelisted IP address

Description

Remove a whitelisted IP address

Usage

databases_delete_whitelist_ips(id, whitelisted_ip_id)
databases_get

Arguments

  id          integer required. The ID of the database this rule is applied to.
  whitelisted_ip_id
              integer required. The ID of this whitelisted IP address.

Value

  An empty HTTP response

---

databases_get  
Show database information

Description

  Show database information

Usage

  databases_get(id)

Arguments

  id          integer required. The ID for the database.

Value

  A list containing the following elements:

    id          integer, The ID for the database.
    name        string, The name of the database.
    adapter     string, The type of the database.

---

databases_get_whitelist_ips

  View details about a whitelisted IP

Description

  View details about a whitelisted IP

Usage

  databases_get_whitelist_ips(id, whitelisted_ip_id)
Arguments

- **id**  
  integer required. The ID of the database this rule is applied to.

- **whitelisted_ip_id**  
  integer required. The ID of this whitelisted IP address.

Value

A list containing the following elements:

- **id**  
  integer, The ID of this whitelisted IP address.

- **remoteHostId**  
  integer, The ID of the database this rule is applied to.

- **securityGroupId**  
  string, The ID of the security group this rule is applied to.

- **subnetMask**  
  string, The subnet mask that is allowed by this rule.

- **authorizedBy**  
  string, The user who authorized this rule.

- **isActive**  
  boolean, True if the rule is applied, false if it has been revoked.

- **createdAt**  
  string, The time this rule was created.

- **updatedAt**  
  string, The time this rule was last updated.

---

**databases_list**  
*List databases*

Description

List databases

Usage

`databases_list()`

Value

An array containing the following fields:

- **id**  
  integer, The ID for the database.

- **name**  
  string, The name of the database.

- **adapter**  
  string, The type of the database.
databases_list_advanced_settings

*Get the advanced settings for this database*

**Description**

Get the advanced settings for this database

**Usage**

databases_list_advanced_settings(id)

**Arguments**

id  
integer required. The ID of the database this advanced settings object belongs to.

**Value**

A list containing the following elements:

- exportCachingEnabled  
  boolean, Whether or not caching is enabled for export jobs run on this database server.

---

databases_list_schemas

*List schemas in this database*

**Description**

List schemas in this database

**Usage**

databases_list_schemas(id)

**Arguments**

id  
integer required. The ID of the database.

**Value**

An array containing the following fields:

- schema  
  string, The name of a schema.
databases_list_tables List tables in the specified database, deprecated use "GET /tables" instead

Description

List tables in the specified database, deprecated use "GET /tables" instead

Usage
databases_list_tables(id, name = NULL, limit = NULL, page_num = NULL, order = NULL, order_dir = NULL)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the database.</td>
</tr>
<tr>
<td>name</td>
<td>string optional. If specified, will be used to filter the tables returned. String matching is supported (e.g., &quot;name=table&quot; will return both &quot;table1&quot; and &quot;my table&quot;).</td>
</tr>
<tr>
<td>limit</td>
<td>integer optional. Number of results to return. Defaults to 200. Maximum allowed is 1000.</td>
</tr>
<tr>
<td>page_num</td>
<td>integer optional. Page number of the results to return. Defaults to the first page, 1.</td>
</tr>
<tr>
<td>order</td>
<td>string optional. The field on which to order the result set. Defaults to name. Must be one of: name.</td>
</tr>
<tr>
<td>order_dir</td>
<td>string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.</td>
</tr>
</tbody>
</table>

Value

An array containing the following fields:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The ID of the table.</td>
</tr>
<tr>
<td>databaseId</td>
<td>integer, The ID of the database.</td>
</tr>
<tr>
<td>schema</td>
<td>string, The name of the schema containing the table.</td>
</tr>
<tr>
<td>name</td>
<td>string, Name of the table.</td>
</tr>
<tr>
<td>description</td>
<td>string, The description of the table, as specified by the table owner</td>
</tr>
<tr>
<td>isView</td>
<td>boolean, True if this table represents a view. False if it represents a regular table.</td>
</tr>
</tbody>
</table>
databases_list_tables_search

Description

List tables in the specified database, deprecated use "GET /tables" instead

Usage

databases_list_tables_search(id, name = NULL, column_name = NULL)

Arguments

id integer required. The ID of the database.

name string optional. If specified, will be used to filter the tables returned. Substring matching is supported (e.g., "name=table" will return both "table1" and "my table").

column_name string optional. Search for tables containing a column with the given name.
Value

An array containing the following fields:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The ID of the table.</td>
</tr>
<tr>
<td>databaseId</td>
<td>integer, The ID of the database.</td>
</tr>
<tr>
<td>schema</td>
<td>string, The name of the schema containing the table.</td>
</tr>
<tr>
<td>name</td>
<td>string, Name of the table.</td>
</tr>
<tr>
<td>description</td>
<td>string, The description of the table, as specified by the table owner</td>
</tr>
<tr>
<td>isView</td>
<td>boolean, True if this table represents a view. False if it represents a regular table.</td>
</tr>
<tr>
<td>rowCount</td>
<td>integer, The number of rows in the table.</td>
</tr>
<tr>
<td>columnCount</td>
<td>integer, The number of columns in the table.</td>
</tr>
<tr>
<td>sizeMb</td>
<td>number, The size of the table in megabytes.</td>
</tr>
<tr>
<td>owner</td>
<td>string, The database username of the table’s owner.</td>
</tr>
<tr>
<td>distkey</td>
<td>string, The column used as the Amazon Redshift distkey.</td>
</tr>
<tr>
<td>sortkeys</td>
<td>string, The column used as the Amazon Redshift sortkey.</td>
</tr>
<tr>
<td>refreshStatus</td>
<td>string, How up-to-date the table’s statistics on row counts, null counts, distinct counts, and values distributions are. One of: refreshing, stale, or current.</td>
</tr>
<tr>
<td>lastRefresh</td>
<td>string, The time of the last statistics refresh.</td>
</tr>
<tr>
<td>refreshId</td>
<td>string, The ID of the most recent statistics refresh.</td>
</tr>
<tr>
<td>lastRun</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id integer,</td>
</tr>
<tr>
<td></td>
<td>• state string,</td>
</tr>
<tr>
<td></td>
<td>• createdAt string, The time that the run was queued.</td>
</tr>
<tr>
<td></td>
<td>• startedAt string, The time that the run started.</td>
</tr>
<tr>
<td></td>
<td>• finishedAt string, The time that the run completed.</td>
</tr>
<tr>
<td></td>
<td>• error string, The error message for this run, if present.</td>
</tr>
<tr>
<td>columnNames</td>
<td>array, The names of each column in the table.</td>
</tr>
</tbody>
</table>

---

**databases_list_whitelist_ips**

*List whitelisted IPs for the specified database*

**Description**

List whitelisted IPs for the specified database

**Usage**

`databases_list_whitelist_ips(id)`
Arguments

id  integer required. The ID for the database.

Value

An array containing the following fields:

id  integer, The ID of this whitelisted IP address.
remoteHostId  integer, The ID of the database this rule is applied to.
securityGroupId  string, The ID of the security group this rule is applied to.
subnetMask  string, The subnet mask that is allowed by this rule.
createdAt  string, The time this rule was created.
updatedAt  string, The time this rule was last updated.

---

**databases_patch_advanced_settings**

*Update the advanced settings for this database*

Description

Update the advanced settings for this database

Usage

databases_patch_advanced_settings(id, export_caching_enabled = NULL)

Arguments

id  integer required. The ID of the database this advanced settings object belongs to.
export_caching_enabled  boolean optional. Whether or not caching is enabled for export jobs run on this database server.

Value

A list containing the following elements:

exportCachingEnabled  boolean, Whether or not caching is enabled for export jobs run on this database server.
databases_post_whitelist_ips

Whitelist an IP address

Description

Whitelist an IP address

Usage

databases_post_whitelist_ips(id, subnet_mask)

Arguments

id integer required. The ID of the database.
subnet_mask string required. The subnet mask that is allowed by this rule.

databases_post_schemas_scan

Creates and enqueues a schema scanner job

Description

Creates and enqueues a schema scanner job

Usage

databases_post_schemas_scan(id, schema, stats_priority = NULL)

Arguments

id integer required. The ID of the database.
schema string required. The name of the schema.
stats_priority string optional. When to sync table statistics for every table in the schema. Valid options are the following. Option: 'flag' means to flag stats for the next scheduled run of a full table scan on the database. Option: 'block' means to block this job on stats syncing. Option: 'queue' means to queue a separate job for syncing stats and do not block this job on the queued job. Defaults to 'flag'

Value

A list containing the following elements:

jobId integer, the ID of the job created.
runId integer, the ID of the run created.
Value

A list containing the following elements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>The ID of this whitelisted IP address.</td>
</tr>
<tr>
<td>remoteHostId</td>
<td>integer</td>
<td>The ID of the database this rule is applied to.</td>
</tr>
<tr>
<td>securityGroupId</td>
<td>string</td>
<td>The ID of the security group this rule is applied to.</td>
</tr>
<tr>
<td>subnetMask</td>
<td>string</td>
<td>The subnet mask that is allowed by this rule.</td>
</tr>
<tr>
<td>authorizedBy</td>
<td>string</td>
<td>The user who authorized this rule.</td>
</tr>
<tr>
<td>isActive</td>
<td>boolean</td>
<td>True if the rule is applied, false if it has been revoked.</td>
</tr>
<tr>
<td>createdAt</td>
<td>string</td>
<td>The time this rule was created.</td>
</tr>
<tr>
<td>updatedAt</td>
<td>string</td>
<td>The time this rule was last updated.</td>
</tr>
</tbody>
</table>

**databases_put_advanced_settings**

*Edit the advanced settings for this database*

Description

Edit the advanced settings for this database

Usage

`databases_put_advanced_settings(id, export_caching_enabled)`

Arguments

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>required. The ID of the database this advanced settings object belongs to.</td>
</tr>
<tr>
<td>export_caching_enabled</td>
<td>boolean</td>
<td>required. Whether or not caching is enabled for export jobs run on this database server.</td>
</tr>
</tbody>
</table>

Value

A list containing the following elements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>exportCachingEnabled</td>
<td>boolean</td>
<td>Whether or not caching is enabled for export jobs run on this database server.</td>
</tr>
</tbody>
</table>
default_credential  The current user's default credential.

Description

The current user's default credential.

Usage

default_credential()

Value

credential_id, id of the default credential for the current user.

download_civis  Download a table or a file from the Civis Platform to local disk

Description

download_civis downloads a file based on the type of its first argument, which can be a string "schema.table", a SQL query sql(...), or a numeric file ID.

A table or a query from Redshift will be downloaded onto disk as a CSV. A file from Platform files endpoint will be downloaded as is.

A default database can be set using options(civis.default_db = "my_database"). If there is only one database available, this database will automatically be used as the default.

Usage

download_civis(x, ...)

## S3 method for class 'character'
download_civis(
  x,
  database = NULL,
  file,
  overwrite = FALSE,
  progress = FALSE,
  split = FALSE,
  job_name = NULL,
  hidden = TRUE,
  verbose = FALSE,
  ...
)
download_civis

## S3 method for class 'sql'
download_civis(
  x,
  database = NULL,
  file,
  overwrite = FALSE,
  progress = FALSE,
  split = FALSE,
  job_name = NULL,
  hidden = TRUE,
  verbose = FALSE,
  ...
)

## S3 method for class 'numeric'
download_civis(x, file, overwrite = FALSE, progress = FALSE, ...)

Arguments

- **x**
  - "schema.table", sql("query"), or a file id.
- ... (Currently ignored.)
- **database**
  - string, The database. If NULL, tries to use the default database.
- **file**
  - string, The file to write to.
- **overwrite**
  - logical, Whether to overwrite the existing file.
- **progress**
  - logical, Whether to display a progress bar.
- **split**
  - logical, Whether to download a big table by splitting it into multiple CSV parts first. See civis_to_multifile_csv for details.
- **job_name**
  - string, Name of the job (default: "Civis Download Via R Client").
- **hidden**
  - logical, Whether the job is hidden on Platform.
- **verbose**
  - logical, Whether to print detailed updates of job status.

Value

The file where the downloaded files or tables are written to. It is returned invisibly.

Methods (by class)

- character: Download a table from Redshift to disk as CSV.
- sql: Download the result of a SQL query from Redshift to disk as CSV.
- numeric: Download a file from Platform files endpoint to disk.

See Also

Other io: query_civis_file(), query_civis(), read_civis(), write_civis_file(), write_civis()
Examples

## Not run:

# Download all columns in a single table into a CSV
download_civis("schema.table", database = "my_database",
     file = "~/Downloads/my_table.csv")

# Download data from a SQL select statement into a CSV
query <- sql("SELECT * FROM table JOIN other_table USING id WHERE var1 < 23")
download_civis(query, database = "my_database",
     file = "~/Downloads/my_table.csv")

# Set a default database
options(civis.default_db = "my_database")

# Download any file from the files endpoint.
file_id <- write_civis_file(df)
download_civis(file_id, file = "df.rds", progress = TRUE)
df2 <- readRDS("df.rds")
identical(df, df2)

## End(Not run)

---

endpoints_list  List API endpoints

Description

List API endpoints

Usage

endpoints_list()

Value

An empty HTTP response

---

enhancements_delete_cass_ncoa_projects  Remove a CASS/NCOA Enhancement from a project

Description

Remove a CASS/NCOA Enhancement from a project
**enhancements_delete_cass_ncoa_runs**

**Usage**

`enhancements_delete_cass_ncoa_projects(id, project_id)`

**Arguments**

- **id** integer required. The ID of the CASS/NCOA Enhancement.
- **project_id** integer required. The ID of the project.

**Value**

An empty HTTP response

---

**Description**

Cancel a run

**Usage**

`enhancements_delete_cass_ncoa_runs(id, run_id)`

**Arguments**

- **id** integer required. The ID of the cass_ncoa.
- **run_id** integer required. The ID of the run.

**Value**

An empty HTTP response

---

**Description**

Revoke the permissions a group has on this object

**Usage**

`enhancements_delete_cass_ncoa_shares_groups(id, group_id)`
enhancements_delete_civis_data_match_projects

Arguments

id integer required. The ID of the resource that is shared.
group_id integer required. The ID of the group.

Value

An empty HTTP response

---

enhancements_delete_cass_ncoa_shares_users

Revoke the permissions a user has on this object

Description

Revoke the permissions a user has on this object

Usage

enhancements_delete_cass_ncoa_shares_users(id, user_id)

Arguments

id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value

An empty HTTP response

---

enhancements_delete_civis_data_match_projects

Remove a Civis Data Match Enhancement from a project

Description

Remove a Civis Data Match Enhancement from a project

Usage

enhancements_delete_civis_data_match_projects(id, project_id)

Arguments

id integer required. The ID of the Civis Data Match Enhancement.
project_id integer required. The ID of the project.
Value

An empty HTTP response

---

**enhancements_delete_civis_data_match_runs**

*Cancel a run*

**Description**

Cancel a run

**Usage**

```
enhancements_delete_civis_data_match_runs(id, run_id)
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the civis_data_match.</td>
</tr>
<tr>
<td>run_id</td>
<td>integer required. The ID of the run.</td>
</tr>
</tbody>
</table>

**Value**

An empty HTTP response

---

**enhancements_delete_civis_data_match_shares_groups**

*Revoke the permissions a group has on this object*

**Description**

Revoke the permissions a group has on this object

**Usage**

```
enhancements_delete_civis_data_match_shares_groups(id, group_id)
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the resource that is shared.</td>
</tr>
<tr>
<td>group_id</td>
<td>integer required. The ID of the group.</td>
</tr>
</tbody>
</table>

**Value**

An empty HTTP response
**enhancements_delete_civis_data_match_shares_users**

Revoke the permissions a user has on this object

**Description**

Revoke the permissions a user has on this object

**Usage**

`enhancements_delete_civis_data_match_shares_users(id, user_id)`

**Arguments**

- `id` integer required. The ID of the resource that is shared.
- `user_id` integer required. The ID of the user.

**Value**

An empty HTTP response

---

**enhancements_delete_geocode_projects**

Remove a Geocode Enhancement from a project

**Description**

Remove a Geocode Enhancement from a project

**Usage**

`enhancements_delete_geocode_projects(id, project_id)`

**Arguments**

- `id` integer required. The ID of the Geocode Enhancement.
- `project_id` integer required. The ID of the project.

**Value**

An empty HTTP response
**enhancements_delete_geocode_runs**

Description

**Cancel a run**

Usage

`enhancements_delete_geocode_runs(id, run_id)`

Arguments

- `id` integer required. The ID of the geocode.
- `run_id` integer required. The ID of the run.

Value

An empty HTTP response

---

**enhancements_delete_geocode_shares_groups**

*Revoke the permissions a group has on this object*

Description

Revoke the permissions a group has on this object

Usage

`enhancements_delete_geocode_shares_groups(id, group_id)`

Arguments

- `id` integer required. The ID of the resource that is shared.
- `group_id` integer required. The ID of the group.

Value

An empty HTTP response
enhancements_delete_geocode_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
enhancements_delete_geocode_shares_users(id, user_id)

Arguments
id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value
An empty HTTP response

enhancements_get_cass_ncoa

Get a CASS/NCOA Enhancement

Description
Get a CASS/NCOA Enhancement

Usage
enhancements_get_cass_ncoa(id)

Arguments
id integer required.

Value
A list containing the following elements:
id integer. The ID for the enhancement.
name string. The name of the enhancement job.
type string. The type of the enhancement (e.g CASS-NCOA)
createdAt string. The time this enhancement was created.
updatedAt string, The time the enhancement was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the enhancement’s last run
schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
parentId integer, Parent ID that triggers this enhancement.
notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to “Civis.”
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.
runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
source list, A list containing the following elements:
  • databaseTable list, A list containing the following elements:
- schema string, The schema name of the source table.
- table string, The name of the source table.
- remoteHostId integer, The ID of the database host for the table.
- credentialId integer, The id of the credentials to be used when performing the enhancement.
- multipartKey array, The source table primary key.

destination list, A list containing the following elements:
  - databaseTable list. A list containing the following elements:
    - schema string, The schema name for the output data.
    - table string, The table name for the output data.

columnMapping list, A list containing the following elements:
  - address1 string, The first address line.
  - address2 string, The second address line.
  - city string, The city of an address.
  - state string, The state of an address.
  - zip string, The zip code of an address.
  - name string, The full name of the resident at this address. If needed, separate multiple columns with `+`, e.g. `first_name+last_name`
  - company string, The name of the company located at this address.

useDefaultColumnMapping boolean, Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.

performNcoa boolean, Whether to update addresses for records matching the National Change of Address (NCOA) database.

ncoaCredentialId integer, Credential to use when performing NCOA updates. Required if `performNcoa` is true.

outputLevel string, The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of `cass` or `all`. For NCOA enhancements, one of `cass`, `ncoa`, `coalesced` or `all`. By default, all fields will be returned.

limitingSQL string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. `state='IL'`).

archived string, The archival status of the requested item(s).

---

**enhancements_get_cass_ncoa_runs**

*Check status of a run*

---

**Description**

Check status of a run
Usage

enhancements_get_cass_ncoa_runs(id, run_id)

Arguments

id: integer required. The ID of the cass_ncoa.
run_id: integer required. The ID of the run.

Value

A list containing the following elements:

id: integer, The ID of the run.
cassNcoaId: integer, The ID of the cass_ncoa.
state: string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested: boolean, True if run cancel requested, else false.
startedAt: string, The time the last run started at.
finishedAt: string, The time the last run completed.
error: string, The error, if any, returned by the run.

Description

Get a Civis Data Match Enhancement

Usage

enhancements_get_civis_data_match(id)

Arguments

id: integer required.
Value

A list containing the following elements:

id integer, The ID for the enhancement.
name string, The name of the enhancement job.
type string, The type of the enhancement (e.g CASS-NCOA)
createdAt string, The time this enhancement was created.
updatedAt string, The time the enhancement was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the enhancement’s last run
schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
parentId integer, Parent ID that triggers this enhancement.
notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.
runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

inputFieldMapping
list, The column mapping for the input table. See /enhancements/field_mapping
for list of valid fields.

inputTable
list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

matchTargetId
integer, The ID of the Civis Data match target. See /match_targets for IDs.

outputTable
list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

maxMatches
integer, The maximum number of matches per record in the input table to return.
Must be between 0 and 10. 0 returns all matches.

threshold
number, The score threshold (between 0 and 1). Matches below this threshold
will not be returned.

archived
boolean, Whether the Civis Data Match Job has been archived.

lastRun
list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

enhancements_get_civis_data_match_runs

Check status of a run

Description
Check status of a run

Usage
enhancements_get_civis_data_match_runs(id, run_id)


**Arguments**

- **id** integer required. The ID of the civis_data_match.
- **run_id** integer required. The ID of the run.

**Value**

A list containing the following elements:

- **id** integer, The ID of the run.
- **civisDataMatchId** integer, The ID of the civis_data_match.
- **state** string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested** boolean, True if run cancel requested, else false.
- **startedAt** string, The time the last run started at.
- **finishedAt** string, The time the last run completed.
- **error** string, The error, if any, returned by the run.

---

**enforcements_get_geocode**

*Get a Geocode Enhancement*

**Description**

Get a Geocode Enhancement

**Usage**

```plaintext
enhancements_get_geocode(id)
```

**Arguments**

- **id** integer required.

**Value**

A list containing the following elements:

- **id** integer, The ID for the enhancement.
- **name** string, The name of the enhancement job.
- **type** string, The type of the enhancement (e.g CASS-NCOA)
- **createdAt** string, The time this enhancement was created.
- **updatedAt** string, The time the enhancement was last updated.
- **author** list, A list containing the following elements:
* id integer, The ID of this user.
* name string, This user’s name.
* username string, This user’s username.
* initials string, This user’s initials.
* online boolean, Whether this user is online.

**state** string, The status of the enhancement’s last run

**schedule** list, A list containing the following elements:
* scheduled boolean, If the item is scheduled.
* scheduledDays array, Day based on numeric value starting at 0 for Sunday.
* scheduledHours array, Hours of the day it is scheduled on.
* scheduledMinutes array, Minutes of the day it is scheduled on.
* scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

**parentId** integer, Parent ID that triggers this enhancement.

**notifications** list, A list containing the following elements:
* urls array, URLs to receive a POST request at job completion
* successEmailSubject string, Custom subject line for success e-mail.
* successEmailBody string, Custom body text for success e-mail, written in Markdown.
* successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
* successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
* successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
* failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
* stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
* successOn boolean, If success email notifications are on.
* failureOn boolean, If failure email notifications are on.

**runningAs** list, A list containing the following elements:
* id integer, The ID of this user.
* name string, This user’s name.
* username string, This user’s username.
* initials string, This user’s initials.
* online boolean, Whether this user is online.

**remoteHostId** integer, The ID of the remote host.

**credentialId** integer, The ID of the remote host credential.

**sourceSchemaAndTable** string, The source database schema and table.

**multipartKey** array, The source table primary key.
limitingSQL string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').

targetSchema string, The output table schema.

targetTable string, The output table name.

country string, The country of the addresses to be geocoded; either 'us' or 'ca'.

provider string, The geocoding provider; one of postgis, nominatim, and geocoder_ca.

outputAddress boolean, Whether to output the parsed address. Only guaranteed for the 'postgis' provider.

archived string, The archival status of the requested item(s).

---

**enhancements_get_geocode_runs**

*Check status of a run*

**Description**

Check status of a run

**Usage**

enhancements_get_geocode_runs(id, run_id)

**Arguments**

- **id** integer required. The ID of the geocode.
- **run_id** integer required. The ID of the run.

**Value**

A list containing the following elements:

- **id** integer, The ID of the run.
- **geocodeId** integer, The ID of the geocode.
- **state** string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested** boolean, True if run cancel requested, else false.
- **startedAt** string, The time the last run started at.
- **finishedAt** string, The time the last run completed.
- **error** string, The error, if any, returned by the run.


**enhancements_list**  

**List Enhancements**

**Description**

List Enhancements

**Usage**

```python
enhancements_list(
    type = NULL,
    author = NULL,
    status = NULL,
    archived = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

- **type**: string optional. If specified, return items of these types.
- **author**: string optional. If specified, return items from this author. Must use user IDs. A comma separated list of IDs is also accepted to return items from multiple authors.
- **status**: string optional. If specified, returns items with one of these statuses. It accepts a comma-separated list, possible values are 'running', 'failed', 'succeeded', 'idle', 'scheduled'.
- **archived**: string optional. The archival status of the requested item(s).
- **limit**: integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
- **page_num**: integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**: string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at, last_run.updated_at.
- **order_dir**: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

- **id**: integer, The ID for the enhancement.
- **name**: string, The name of the enhancement job.
type string, The type of the enhancement (e.g. CASS-NCOA)
createdAt string, The time this enhancement was created.
updatedAt string, The time the enhancement was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the enhancement’s last run
archived string, The archival status of the requested item(s).

descriptions_list_cass_ncoa_projects
List the projects a CASS/NCOA Enhancement belongs to

Description
List the projects a CASS/NCOA Enhancement belongs to

Usage
enhancements_list_cass_ncoa_projects(id, hidden = NULL)

Arguments
  id integer required. The ID of the CASS/NCOA Enhancement.
  hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value
An array containing the following fields:
  id integer, The ID for this project.
  author list, A list containing the following elements:
    • id integer, The ID of this user.
    • name string, This user’s name.
    • username string, This user’s username.
    • initials string, This user’s initials.
    • online boolean, Whether this user is online.
  name string, The name of this project.
  description string, A description of the project.
users array, An array containing the following fields:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

autoShare boolean,
createdAt string,
updatedAt string,
archived string, The archival status of the requested item(s).

enhancements_list_cass_ncoa_runs

List runs for the given cass_ncoa

Description
List runs for the given cass_ncoa

Usage
enhancements_list_cass_ncoa_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments
id integer required. The ID of the cass_ncoa.
limit integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num integer optional. Page number of the results to return. Defaults to the first page, 1.
order string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.
Value
An array containing the following fields:

- **id**: integer, The ID of the run.
- **cassNcoaId**: integer, The ID of the cass_ncoa.
- **state**: string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested**: boolean, True if run cancel requested, else false.
- **startedAt**: string, The time the last run started at.
- **finishedAt**: string, The time the last run completed.
- **error**: string, The error, if any, returned by the run.

```
enhancements_list_cass_ncoa_runs_logs

Description
Get the logs for a run

Usage
enhancements_list_cass_ncoa_runs_logs(id, run_id, last_id = NULL, limit = NULL)

Arguments
- **id**: integer required. The ID of the cass_ncoa.
- **run_id**: integer required. The ID of the run.
- **last_id**: integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- **limit**: integer optional. The maximum number of log messages to return. Default of 10000.

Value
An array containing the following fields:

- **id**: integer, The ID of the log.
- **createdAt**: string, The time the log was created.
- **message**: string, The log message.
- **level**: string, The level of the log. One of unknown,fatal,error,warn,info,debug.
List the outputs for a run

**Usage**

```python
enhancements_list_cass_ncoa_runs_outputs(
    id,
    run_id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

- **id**
  - integer required. The ID of the job.
- **run_id**
  - integer required. The ID of the run.
- **limit**
  - integer optional. Number of results to return. Defaults to its maximum of 50.
- **page_num**
  - integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**
  - string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
- **order_dir**
  - string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

- **objectType**
  - string. The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- **objectId**
  - integer. The ID of the output.
- **name**
  - string. The name of the output.
- **link**
  - string. The hypermedia link to the output.
- **value**
  - string,
enhancements_list_cass_ncoa_shares

List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

enhancements_list_cass_ncoa_shares(id)

Arguments

id integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
Description

List the projects a Civis Data Match Enhancement belongs to

Usage

`enhancements_list_civis_data_match_projects(id, hidden = NULL)`

Arguments

- **id**: integer required. The ID of the Civis Data Match Enhancement.
- **hidden**: boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value

An array containing the following fields:

- **id**: integer, The ID for this project.
- **author**: list, A list containing the following elements:
  - id: integer, The ID of this user.
  - name: string, This user’s name.
  - username: string, This user’s username.
  - initials: string, This user’s initials.
  - online: boolean, Whether this user is online.
- **name**: string, The name of this project.
- **description**: string, A description of the project.
- **users**: array, An array containing the following fields:
  - id: integer, The ID of this user.
  - name: string, This user’s name.
  - username: string, This user’s username.
  - initials: string, This user’s initials.
  - online: boolean, Whether this user is online.
- **autoShare**: boolean,
- **createdAt**: string,
- **updatedAt**: string,
- **archived**: string, The archival status of the requested item(s).
enhancements_list_civis_data_match_runs

List runs for the given civis_data_match

Description

List runs for the given civis_data_match

Usage

enhancements_list_civis_data_match_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments

id integer required. The ID of the civis_data_match.

limit integer optional. Number of results to return. Defaults to 20. Maximum allowed
is 100.

page_num integer optional. Page number of the results to return. Defaults to the first page, 1.

order string optional. The field on which to order the result set. Defaults to id. Must
be one of: id.

order_dir string optional. Direction in which to sort, either asc (ascending) or desc (de-
sceding) defaulting to desc.

Value

An array containing the following fields:

id integer, The ID of the run.
civisDataMatchId integer, The ID of the civis_data_match.
state string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested boolean, True if run cancel requested, else false.
startedAt string, The time the last run started at.
finishedAt string, The time the last run completed.
error string, The error, if any, returned by the run.
Get the logs for a run

**Description**

Get the logs for a run

**Usage**

```r
enhancements_list_civis_data_match_runs_logs(
    id,
    run_id,
    last_id = NULL,
    limit = NULL
)
```

**Arguments**

- `id` integer required. The ID of the civis_data_match.
- `run_id` integer required. The ID of the run.
- `last_id` integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- `limit` integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

- `id` integer, The ID of the log.
- `createdAt` string, The time the log was created.
- `message` string, The log message.
- `level` string, The level of the log. One of unknown, fatal, error, warn, info, debug.
enhancements_list_civis_data_match_runs_outputs

List the outputs for a run

Description

List the outputs for a run

Usage

```r
enhancements_list_civis_data_match_runs_outputs(
  id,
  run_id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

Arguments

- `id` integer required. The ID of the job.
- `run_id` integer required. The ID of the run.
- `limit` integer optional. Number of results to return. Defaults to its maximum of 50.
- `page_num` integer optional. Page number of the results to return. Defaults to the first page, 1.
- `order` string optional. The field on which to order the result set. Defaults to `created_at`. Must be one of: `created_at`, `id`.
- `order_dir` string optional. Direction in which to sort, either `asc` (ascending) or `desc` (descending) defaulting to `desc`.

Value

An array containing the following fields:

- `objectType` string, The type of the output. Valid values are `File`, `Table`, `Report`, `Project`, `Credential`, or `JSONValue`
- `objectId` integer, The ID of the output.
- `name` string, The name of the output.
- `link` string, The hypermedia link to the output.
- `value` string,
List users and groups permissioned on this object

Usage

enhancements_list_civis_data_match_shares(id)

Arguments

id integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
## enhancements_list_field_mapping

*List the fields in a field mapping for Civis Data Match, Data Unification, and Table Deduplication jobs*

### Description

List the fields in a field mapping for Civis Data Match, Data Unification, and Table Deduplication jobs

### Usage

```r
enhancements_list_field_mapping()
```

### Value

An array containing the following fields:

- **field**: string, The name of the field.
- **description**: string, The description of the field.

## enhancements_list_geocode_projects

*List the projects a Geocode Enhancement belongs to*

### Description

List the projects a Geocode Enhancement belongs to

### Usage

```r
enhancements_list_geocode_projects(id, hidden = NULL)
```

### Arguments

- **id**: integer required. The ID of the Geocode Enhancement.
- **hidden**: boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
Value

An array containing the following fields:

- id (integer), The ID for this project.
- author (list), A list containing the following elements:
  - id (integer), The ID of this user.
  - name (string), This user’s name.
  - username (string), This user’s username.
  - initials (string), This user’s initials.
  - online (boolean), Whether this user is online.
- name (string), The name of this project.
- description (string), A description of the project.
- users (array), An array containing the following fields:
  - id (integer), The ID of this user.
  - name (string), This user’s name.
  - username (string), This user’s username.
  - initials (string), This user’s initials.
  - online (boolean), Whether this user is online.
- autoShare (boolean),
- createdAt (string),
- updatedAt (string),
- archived (string), The archival status of the requested item(s).

enhancements_list_geocode_runs

List runs for the given geocode

Description

List runs for the given geocode

Usage

enhancements_list_geocode_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
Arguments

- **id**: integer required. The ID of the geocode.
- **limit**: integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
- **page_num**: integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**: string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
- **order_dir**: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **id**: integer, The ID of the run.
- **geocodeId**: integer, The ID of the geocode.
- **state**: string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested**: boolean, True if run cancel requested, else false.
- **startedAt**: string, The time the last run started at.
- **finishedAt**: string, The time the last run completed.
- **error**: string, The error, if any, returned by the run.

---

**enhancements_list_geocode_runs_logs**

*Get the logs for a run*

**Description**

Get the logs for a run

**Usage**

```
enhancements_list_geocode_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

**Arguments**

- **id**: integer required. The ID of the geocode.
- **run_id**: integer required. The ID of the run.
- **last_id**: integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- **limit**: integer optional. The maximum number of log messages to return. Default of 10000.
Value

An array containing the following fields:

- **id** integer, The ID of the log.
- **createdAt** string, The time the log was created.
- **message** string, The log message.
- **level** string, The level of the log. One of unknown,fatal,error,warn,info,debug.

enhancements_list_geocode_runs_outputs

*List the outputs for a run*

Description

List the outputs for a run

Usage

```
enhancements_list_geocode_runs_outputs(
    id,
    run_id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

- **id** integer required. The ID of the job.
- **run_id** integer required. The ID of the run.
- **limit** integer optional. Number of results to return. Defaults to its maximum of 50.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.
Value

An array containing the following fields:

- **objectType**: string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- **objectId**: integer, The ID of the output.
- **name**: string, The name of the output.
- **link**: string, The hypermedia link to the output.
- **value**: string,

```
enhancements_list_geocode_shares

List users and groups permissioned on this object
```

Description

List users and groups permissioned on this object

Usage

```
enhancements_list_geocode_shares(id)
```

Arguments

- **id**: integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

- **readers**: list, A list containing the following elements:
  - users array,
  - groups array,
- **writers**: list, A list containing the following elements:
  - users array,
  - groups array,
- **owners**: list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares**: integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares**: integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
enhancements_list_types

List available enhancement types

Description
List available enhancement types

Usage
enhancements_list_types()

Value
An array containing the following fields:

name string, The name of the type.

enhancements_patch_cass_ncoa

Update some attributes of this CASS/NCOA Enhancement

Description
Update some attributes of this CASS/NCOA Enhancement

Usage
enhancements_patch_cass_ncoa(
    id,
    name = NULL,
    schedule = NULL,
    parent_id = NULL,
    notifications = NULL,
    source = NULL,
    destination = NULL,
    column_mapping = NULL,
    use_default_column_mapping = NULL,
    perform_ncoa = NULL,
    ncoa_credential_id = NULL,
    output_level = NULL,
    limiting_sql = NULL
)
Arguments

id     integer required. The ID for the enhancement.
name   string optional. The name of the enhancement job.
schedule list optional. A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
parent_id integer optional. Parent ID that triggers this enhancement.
notifications list optional. A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.
source list optional. A list containing the following elements:
  • databaseTable list . A list containing the following elements:
    – schema string, The schema name of the source table.
    – table string, The name of the source table.
    – remoteHostId integer, The ID of the database host for the table.
    – credentialId integer, The id of the credentials to be used when performing the enhancement.
    – multipartKey array, The source table primary key.
destination list optional. A list containing the following elements:
  • databaseTable list . A list containing the following elements:
    – schema string, The schema name for the output data.
    – table string, The table name for the output data.
column_mapping list optional. A list containing the following elements:
• address1 string, The first address line.
• address2 string, The second address line.
• city string, The city of an address.
• state string, The state of an address.
• zip string, The zip code of an address.
• name string, The full name of the resident at this address. If needed, separate multiple columns with ‘+’, e.g. ‘first_name+last_name’
• company string, The name of the company located at this address.

use_default_column_mapping
 boolean optional. Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.

perform_ncoa
 boolean optional. Whether to update addresses for records matching the National Change of Address (NCOA) database.

ncoa_credential_id
 integer optional. Credential to use when performing NCOA updates. Required if `performNcoa` is true.

output_level
 string optional. The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of `cass` or `all`. For NCOA enhancements, one of `cass`, `ncoa`, `coalesced` or `all`. By default, all fields will be returned.

limiting_sql
 string optional. The limiting SQL for the source table. “WHERE” should be omitted (e.g. state=’IL’).

Value

A list containing the following elements:

id
 integer, The ID for the enhancement.

name
 string, The name of the enhancement job.

type
 string, The type of the enhancement (e.g CASS-NCOA)

createdAt
 string, The time this enhancement was created.

updatedAt
 string, The time the enhancement was last updated.

author
 list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

state
 string, The status of the enhancement’s last run

schedule
 list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parentId integer, Parent ID that triggers this enhancement.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

source list, A list containing the following elements:
  • databaseTable list . A list containing the following elements:
    – schema string, The schema name of the source table.
    – table string, The name of the source table.
    – remoteHostId integer, The ID of the database host for the table.
    – credentialId integer, The id of the credentials to be used when performing the enhancement.
    – multipartKey array, The source table primary key.

destination list, A list containing the following elements:
  • databaseTable list . A list containing the following elements:
    – schema string, The schema name for the output data.
    – table string, The table name for the output data.

columnMapping list, A list containing the following elements:
  • address1 string, The first address line.
  • address2 string, The second address line.
  • city string, The city of an address.
**enhancements_patch_civis_data_match**

Update some attributes of this Civis Data Match Enhancement

**Description**

Update some attributes of this Civis Data Match Enhancement

**Usage**

```python
enhancements_patch_civis_data_match(
    id,
    name = NULL,
    schedule = NULL,
    parent_id = NULL,
    notifications = NULL,
    input_field_mapping = NULL,
    input_table = NULL,
    match_target_id = NULL,
    output_table = NULL,
    max_matches = NULL,
    threshold = NULL,
    archived = NULL
)
```
Arguments

id integer required. The ID for the enhancement.

name string optional. The name of the enhancement job.

schedule list optional. A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parent_id integer optional. Parent ID that triggers this enhancement.

notifications list optional. A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  - successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  - failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  - stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  - successOn boolean, If success email notifications are on.
  - failureOn boolean, If failure email notifications are on.

input_field_mapping list optional. The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.

input_table list optional. A list containing the following elements:
  - databaseName string, The Redshift database name for the table.
  - schema string, The schema name for the table.
  - table string, The table name.

match_target_id integer optional. The ID of the Civis Data match target. See /match_targets for IDs.

output_table list optional. A list containing the following elements:
  - databaseName string, The Redshift database name for the table.
  - schema string, The schema name for the table.
  - table string, The table name.
max_matches integer optional. The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

threshold number optional. The score threshold (between 0 and 1). Matches below this threshold will not be returned.

archived boolean optional. Whether the Civis Data Match Job has been archived.

Value

A list containing the following elements:

- id integer, The ID for the enhancement.
- name string, The name of the enhancement job.
- type string, The type of the enhancement (e.g CASS-NCOA)
- createdAt string, The time this enhancement was created.
- updatedAt string, The time the enhancement was last updated.
- author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- state string, The status of the enhancement’s last run
- schedule list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
- parentId integer, Parent ID that triggers this enhancement.
- notifications list, A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  - successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  - failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

**runningAs** list, A list containing the following elements:

• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

**inputFieldMapping** list, The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.

**inputTable** list, A list containing the following elements:

• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

**matchTargetId** integer, The ID of the Civis Data match target. See /match_targets for IDs.

**outputTable** list, A list containing the following elements:

• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

**maxMatches** integer, The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

**threshold** number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.

**archived** boolean, Whether the Civis Data Match Job has been archived.

**lastRun** list, A list containing the following elements:

• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.
enhancements_patch_geocode

Update some attributes of this Geocode Enhancement

Description

Update some attributes of this Geocode Enhancement

Usage

enhancements_patch_geocode(
    id,
    name = NULL,
    schedule = NULL,
    parent_id = NULL,
    notifications = NULL,
    remote_host_id = NULL,
    credential_id = NULL,
    source_schema_and_table = NULL,
    multipart_key = NULL,
    limiting_sql = NULL,
    target_schema = NULL,
    target_table = NULL,
    country = NULL,
    provider = NULL,
    output_address = NULL
)

Arguments

id                        integer required. The ID for the enhancement.
name                      string optional. The name of the enhancement job.
schedule                  list optional. A list containing the following elements:
    • scheduled boolean, If the item is scheduled.
    • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
    • scheduledHours array, Hours of the day it is scheduled on.
    • scheduledMinutes array, Minutes of the day it is scheduled on.
    • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
parent_id                 integer optional. Parent ID that triggers this enhancement.
notifications             list optional. A list containing the following elements:
    • urls array, URLs to receive a POST request at job completion
    • successEmailSubject string, Custom subject line for success e-mail.
- `successEmailBody` string, Custom body text for success e-mail, written in Markdown.
- `successEmailAddresses` array, Addresses to notify by e-mail when the job completes successfully.
- `successEmailFromName` string, Name from which success emails are sent; defaults to "Civis."
- `successEmailReplyTo` string, Address for replies to success emails; defaults to the author of the job.
- `failureEmailAddresses` array, Addresses to notify by e-mail when the job fails.
- `stallWarningMinutes` integer, Stall warning emails will be sent after this amount of minutes.
- `successOn` boolean, If success email notifications are on.
- `failureOn` boolean, If failure email notifications are on.

### Parameters

- `remote_host_id` integer optional. The ID of the remote host.
- `credential_id` integer optional. The ID of the remote host credential.
- `source_schema_and_table` string optional. The source database schema and table.
- `multipart_key` array optional. The source table primary key.
- `limiting_sql` string optional. The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
- `target_schema` string optional. The output table schema.
- `target_table` string optional. The output table name.
- `country` string optional. The country of the addresses to be geocoded; either 'us' or 'ca'.
- `provider` string optional. The geocoding provider; one of postgis, nominatim, and geocoder_ca.
- `output_address` boolean optional. Whether to output the parsed address. Only guaranteed for the 'postgis' provider.

### Value

A list containing the following elements:

- `id` integer, The ID for the enhancement.
- `name` string, The name of the enhancement job.
- `type` string, The type of the enhancement (e.g CASS-NCOA)
- `createdAt` string, The time this enhancement was created.
- `updatedAt` string, The time the enhancement was last updated.
- `author` list, A list containing the following elements:
  - `id` integer, The ID of this user.
  - `name` string, This user's name.
  - `username` string, This user's username.
  - `initials` string, This user's initials.
- online boolean, Whether this user is online.

**state** string, The status of the enhancement’s last run

**schedule** list, A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

**parentId** integer, Parent ID that triggers this enhancement.

**notifications** list, A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

**runningAs** list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

**remoteHostId** integer, The ID of the remote host.

**credentialId** integer, The ID of the remote host credential.

**sourceSchemaAndTable** string, The source database schema and table.

**multipartKey** array, The source table primary key.

**limitingSQL** string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').

**targetSchema** string, The output table schema.
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>targetTable</td>
<td>string, The output table name.</td>
</tr>
<tr>
<td>country</td>
<td>string, The country of the addresses to be geocoded; either 'us' or 'ca'.</td>
</tr>
<tr>
<td>provider</td>
<td>string, The geocoding provider; one of postgis, nominatim, and geocoder_ca.</td>
</tr>
<tr>
<td>outputAddress</td>
<td>boolean, Whether to output the parsed address. Only guaranteed for the 'postgis' provider.</td>
</tr>
<tr>
<td>archived</td>
<td>string, The archival status of the requested item(s).</td>
</tr>
</tbody>
</table>

### Description
Create a CASS/NCOA Enhancement

### Usage
```ruby
enhancements_post_cass_ncoa(
    name, 
    source, 
    schedule = NULL, 
    parent_id = NULL, 
    notifications = NULL, 
    destination = NULL, 
    column_mapping = NULL, 
    use_default_column_mapping = NULL, 
    perform_ncoa = NULL, 
    ncoa_credential_id = NULL, 
    output_level = NULL, 
    limiting_sql = NULL
)
```

### Arguments
- **name**: string required. The name of the enhancement job.
- **source**: list required. A list containing the following elements:
  - databaseTable list. A list containing the following elements:
    - schema string, The schema name of the source table.
    - table string, The name of the source table.
    - remoteHostId integer, The ID of the database host for the table.
    - credentialId integer, The id of the credentials to be used when performing the enhancement.
    - multipartKey array, The source table primary key.
- **schedule**: list optional. A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parent_id integer optional. Parent ID that triggers this enhancement.

notifications list optional. A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

destination list optional. A list containing the following elements:
• databaseTable list . A list containing the following elements:
  – schema string, The schema name for the output data.
  – table string, The table name for the output data.

column_mapping list optional. A list containing the following elements:
• address1 string, The first address line.
• address2 string, The second address line.
• city string, The city of an address.
• state string, The state of an address.
• zip string, The zip code of an address.
• name string, The full name of the resident at this address. If needed, separate multiple columns with ‘+’, e.g. 'first_name+last_name'
• company string, The name of the company located at this address.

use_default_column_mapping boolean optional. Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.

perform_ncoa boolean optional. Whether to update addresses for records matching the National Change of Address (NCOA) database.
ncoa_credential_id
integer optional. Credential to use when performing NCOA updates. Required if 'performNcoa' is true.

output_level
string optional. The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all'. For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.

limiting_sql
string optional. The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').

Value
A list containing the following elements:

- id
  integer, The ID for the enhancement.

- name
  string, The name of the enhancement job.

- type
  string, The type of the enhancement (e.g. CASS-NCOA)

- createdAt
  string, The time this enhancement was created.

- updatedAt
  string, The time the enhancement was last updated.

- author
  list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.

- state
  string, The status of the enhancement’s last run

- schedule
  list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

- parentId
  integer, Parent ID that triggers this enhancement.

- notifications
  list, A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user's name.
• username string, This user's username.
• initials string, This user's initials.
• online boolean, Whether this user is online.

source list, A list containing the following elements:
• databaseTable list. A list containing the following elements:
  – schema string, The schema name of the source table.
  – table string, The name of the source table.
  – remoteHostId integer, The ID of the database host for the table.
  – credentialId integer, The id of the credentials to be used when performing the enhancement.
  – multipartKey array, The source table primary key.

destination list, A list containing the following elements:
• databaseTable list. A list containing the following elements:
  – schema string, The schema name for the output data.
  – table string, The table name for the output data.

columnMapping list, A list containing the following elements:
• address1 string, The first address line.
• address2 string, The second address line.
• city string, The city of an address.
• state string, The state of an address.
• zip string, The zip code of an address.
• name string, The full name of the resident at this address. If needed, separate multiple columns with '+', e.g. 'first_name+last_name'
• company string, The name of the company located at this address.

useDefaultColumnMapping boolean, Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.

performNcoa boolean, Whether to update addresses for records matching the National Change of Address (NCOA) database.

ncoaCredentialId integer, Credential to use when performing NCOA updates. Required if 'performNcoa' is true.
outputLevel  string, The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all.' For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.

limitingSQL  string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').

archived  string, The archival status of the requested item(s).

---

enhancements_post_cass_ncoa_cancel

*Cancel a run*

**Description**

Cancel a run

**Usage**

```
enhancements_post_cass_ncoa_cancel(id)
```

**Arguments**

- **id** integer required. The ID of the job.

**Value**

A list containing the following elements:

- **id** integer, The ID of the run.
- **state** string, The state of the run, one of 'queued', 'running' or 'cancelled'.
- **isCancelRequested** boolean, True if run cancel requested, else false.

---

enhancements_post_cass_ncoa_runs

*Start a run*

**Description**

Start a run

**Usage**

```
enhancements_post_cass_ncoa_runs(id)
```
Arguments

id  integer required. The ID of the cass_ncoa.

Value

A list containing the following elements:

id  integer, The ID of the run.

cassNcoaId  integer, The ID of the cass_ncoa.

state  string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.

isCancelRequested  boolean, True if run cancel requested, else false.

startedAt  string, The time the last run started at.

finishedAt  string, The time the last run completed.

error  string, The error, if any, returned by the run.

---

Create a Civis Data Match Enhancement

Description

Create a Civis Data Match Enhancement

Usage

```
enhancements_post_civis_data_match(
    name,
    input_field_mapping,
    input_table,
    match_target_id,
    output_table,
    schedule = NULL,
    parent_id = NULL,
    notifications = NULL,
    max_matches = NULL,
    threshold = NULL,
    archived = NULL
)
```
Arguments

name  
string required. The name of the enhancement job.

input_field_mapping  
list required. The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.

input_table  
list required. A list containing the following elements:
  • databaseName  
    string. The Redshift database name for the table.
  • schema  
    string. The schema name for the table.
  • table  
    string. The table name.

match_target_id  
integer required. The ID of the Civis Data match target. See /match_targets for IDs.

output_table  
list required. A list containing the following elements:
  • databaseName  
    string. The Redshift database name for the table.
  • schema  
    string. The schema name for the table.
  • table  
    string. The table name.

schedule  
list optional. A list containing the following elements:
  • scheduled  
    boolean. If the item is scheduled.
  • scheduledDays  
    array. Day based on numeric value starting at 0 for Sunday.
  • scheduledHours  
    array. Hours of the day it is scheduled on.
  • scheduledMinutes  
    array. Minutes of the day it is scheduled on.
  • scheduledRunsPerHour  
    integer. Alternative to scheduled minutes, number of times to run per hour.

parent_id  
integer optional. Parent ID that triggers this enhancement.

notifications  
list optional. A list containing the following elements:
  • urls  
    array. URLs to receive a POST request at job completion.
  • successEmailSubject  
    string. Custom subject line for success e-mail.
  • successEmailBody  
    string. Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses  
    array. Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName  
    string. Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo  
    string. Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses  
    array. Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes  
    integer. Stall warning emails will be sent after this amount of minutes.
  • successOn  
    boolean. If success email notifications are on.
  • failureOn  
    boolean. If failure email notifications are on.
max_matches integer optional. The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

threshold number optional. The score threshold (between 0 and 1). Matches below this threshold will not be returned.

archived boolean optional. Whether the Civis Data Match Job has been archived.

Value

A list containing the following elements:

id integer, The ID for the enhancement.

name string, The name of the enhancement job.

type string, The type of the enhancement (e.g. CASS-NCOA)

createdAt string, The time this enhancement was created.

updatedAt string, The time the enhancement was last updated.

author list, A list containing the following elements:

• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

state string, The status of the enhancement’s last run

schedule list, A list containing the following elements:

• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parentId integer, Parent ID that triggers this enhancement.

notifications list, A list containing the following elements:

• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

inputFieldMapping list, The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.

inputTable list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

matchTargetId integer, The ID of the Civis Data match target. See /match_targets for IDs.

outputTable list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

maxMatches integer, The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

threshold number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.

archived boolean, Whether the Civis Data Match Job has been archived.

lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.
**enhancements_post_civis_data_match_cancel**

**Cancel a run**

**Description**

Cancel a run

**Usage**

```
enhancements_post_civis_data_match_cancel(id)
```

**Arguments**

- `id`: integer required. The ID of the job.

**Value**

A list containing the following elements:

- `id`: integer, The ID of the run.
- `state`: string, The state of the run, one of 'queued', 'running' or 'cancelled'.
- `isCancelRequested`: boolean, True if run cancel requested, else false.

**enhancements_post_civis_data_match_clone**

**Clone this Civis Data Match Enhancement**

**Description**

Clone this Civis Data Match Enhancement

**Usage**

```
enhancements_post_civis_data_match_clone(
  id,
  clone_schedule = NULL,
  clone_triggers = NULL,
  clone_notifications = NULL
)
```
Arguments

id  
integer required. The ID for the enhancement.

clone_schedule  
boolean optional. If true, also copy the schedule to the new enhancement.

clone_triggers  
boolean optional. If true, also copy the triggers to the new enhancement.

clone_notifications  
boolean optional. If true, also copy the notifications to the new enhancement.

Value

A list containing the following elements:

id  
integer, The ID for the enhancement.

name  
string, The name of the enhancement job.

type  
string, The type of the enhancement (e.g CASS-NCOA)

createdAt  
string, The time this enhancement was created.

updatedAt  
string, The time the enhancement was last updated.

author  
list, A list containing the following elements:

• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

state  
string, The status of the enhancement’s last run

schedule  
list, A list containing the following elements:

• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parentId  
integer, Parent ID that triggers this enhancement.

notifications  
list, A list containing the following elements:

• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

inputFieldMapping list, The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.

inputTable list, A list containing the following elements:
  • databaseName string, The Redshift database name for the table.
  • schema string, The schema name for the table.
  • table string, The table name.

matchTargetId integer, The ID of the Civis Data match target. See /match_targets for IDs.

outputTable list, A list containing the following elements:
  • databaseName string, The Redshift database name for the table.
  • schema string, The schema name for the table.
  • table string, The table name.

maxMatches integer, The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

threshold number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.

archived boolean, Whether the Civis Data Match Job has been archived.

lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.
enhancements_post_civis_data_match_runs
Start a run

Description
Start a run

Usage
enhancements_post_civis_data_match_runs(id)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>required. The ID of the civis_data_match.</td>
</tr>
</tbody>
</table>

Value
A list containing the following elements:

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>The ID of the run.</td>
</tr>
<tr>
<td>civisDataMatchId</td>
<td>integer</td>
<td>The ID of the civis_data_match.</td>
</tr>
<tr>
<td>state</td>
<td>string</td>
<td>The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.</td>
</tr>
<tr>
<td>isCancelRequested</td>
<td>boolean</td>
<td>True if run cancel requested, else false.</td>
</tr>
<tr>
<td>startedAt</td>
<td>string</td>
<td>The time the last run started at.</td>
</tr>
<tr>
<td>finishedAt</td>
<td>string</td>
<td>The time the last run completed.</td>
</tr>
<tr>
<td>error</td>
<td>string</td>
<td>The error, if any, returned by the run.</td>
</tr>
</tbody>
</table>

enhancements_post_geocode
Create a Geocode Enhancement

Description
Create a Geocode Enhancement
Usage

enhancements_post_geocode(
    name,
    remote_host_id,
    credential_id,
    source_schema_and_table,
    schedule = NULL,
    parent_id = NULL,
    notifications = NULL,
    multipart_key = NULL,
    limiting_sql = NULL,
    target_schema = NULL,
    target_table = NULL,
    country = NULL,
    provider = NULL,
    output_address = NULL
)

Arguments

name string required. The name of the enhancement job.
remote_host_id integer required. The ID of the remote host.
credential_id integer required. The ID of the remote host credential.
source_schema_and_table string required. The source database schema and table.
schedule list optional. A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
parent_id integer optional. Parent ID that triggers this enhancement.
network list optional. A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

multipart_key array optional. The source table primary key.
limiting_sql string optional. The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
target_schema string optional. The output table schema.
target_table string optional. The output table name.
country string optional. The country of the addresses to be geocoded; either 'us' or 'ca'.
provider string optional. The geocoding provider; one of postgis, nominatim, and geocoder_ca.
output_address boolean optional. Whether to output the parsed address. Only guaranteed for the 'postgis' provider.

Value

A list containing the following elements:

id integer, The ID for the enhancement.
name string, The name of the enhancement job.
type string, The type of the enhancement (e.g CASS-NCOA)
createdAt string, The time this enhancement was created.
updatedAt string, The time the enhancement was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the enhancement’s last run
schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
parentId integer, Parent ID that triggers this enhancement.
notifications list, A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.

remoteHostId integer, The ID of the remote host.
credentialId integer, The ID of the remote host credential.
sourceSchemaAndTable string, The source database schema and table.
multipartKey array, The source table primary key.
limitingSQL string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
targetSchema string, The output table schema.
targetTable string, The output table name.
country string, The country of the addresses to be geocoded; either 'us' or 'ca'.
provider string, The geocoding provider; one of postgis, nominatim, and geocoder_ca.
outputAddress boolean, Whether to output the parsed address. Only guaranteed for the 'postgis' provider.
archived string, The archival status of the requested item(s).
**enhancements_post_geocode_cancel**

*Cancel a run*

**Description**

Cancel a run

**Usage**

```
enhancements_post_geocode_cancel(id)
```

**Arguments**

- **id** integer required. The ID of the job.

**Value**

A list containing the following elements:

- **id** integer, The ID of the run.
- **state** string, The state of the run, one of 'queued', 'running' or 'cancelled'.
- **isCancelRequested** boolean, True if run cancel requested, else false.

---

**enhancements_post_geocode_runs**

*Start a run*

**Description**

Start a run

**Usage**

```
enhancements_post_geocode_runs(id)
```

**Arguments**

- **id** integer required. The ID of the geocode.
Value

A list containing the following elements:

- **id** integer, The ID of the run.
- **geocodeId** integer, The ID of the geocode.
- **state** string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested** boolean, True if run cancel requested, else false.
- **startedAt** string, The time the last run started at.
- **finishedAt** string, The time the last run completed.
- **error** string, The error, if any, returned by the run.

---

**enhancements_put_cass_ncoa**

*Replace all attributes of this CASS/NCOA Enhancement*

---

Description

Replace all attributes of this CASS/NCOA Enhancement

Usage

```python
enhancements_put_cass_ncoa(
    id,
    name,
    source,
    schedule = NULL,
    parent_id = NULL,
    notifications = NULL,
    destination = NULL,
    column_mapping = NULL,
    use_default_column_mapping = NULL,
    perform_ncoa = NULL,
    ncoa_credential_id = NULL,
    output_level = NULL,
    limiting_sql = NULL
)
```

Arguments

- **id** integer required. The ID for the enhancement.
- **name** string required. The name of the enhancement job.
- **source** list required. A list containing the following elements:
• databaseTable list. A list containing the following elements:
  – schema string, The schema name of the source table.
  – table string, The name of the source table.
  – remoteHostId integer, The ID of the database host for the table.
  – credentialId integer, The id of the credentials to be used when performing the enhancement.
  – multipartKey array, The source table primary key.

schedule list optional. A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parent_id integer optional. Parent ID that triggers this enhancement.

notifications list optional. A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

destination list optional. A list containing the following elements:
• databaseTable list. A list containing the following elements:
  – schema string, The schema name for the output data.
  – table string, The table name for the output data.

column_mapping list optional. A list containing the following elements:
• address1 string, The first address line.
• address2 string, The second address line.
• city string, The city of an address.
• state string, The state of an address.
• zip string, The zip code of an address.
 enhancements_put_cass_ncoa

- name string. The full name of the resident at this address. If needed, separate multiple columns with ‘+’, e.g. 'first_name+last_name'
- company string. The name of the company located at this address.

use_default_column_mapping

boolean optional. Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.

perform_ncoa

boolean optional. Whether to update addresses for records matching the National Change of Address (NCOA) database.

ncoa_credential_id

integer optional. Credential to use when performing NCOA updates. Required if 'performNcoa' is true.

output_level

string optional. The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of ‘cass’ or ‘all.’ For NCOA enhancements, one of ‘cass’, ‘ncoa’, ‘coalesced’ or ‘all’. By default, all fields will be returned.

limiting_sql

string optional. The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').

Value

A list containing the following elements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>The ID for the enhancement.</td>
</tr>
<tr>
<td>name</td>
<td>string</td>
<td>The name of the enhancement job.</td>
</tr>
<tr>
<td>type</td>
<td>string</td>
<td>The type of the enhancement (e.g. CASS-NCOA)</td>
</tr>
<tr>
<td>createdAt</td>
<td>string</td>
<td>The time this enhancement was created.</td>
</tr>
<tr>
<td>updatedAt</td>
<td>string</td>
<td>The time the enhancement was last updated.</td>
</tr>
<tr>
<td>author</td>
<td>list</td>
<td>A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• id integer, The ID of this user.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• name string, This user’s name.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• username string, This user’s username.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• initials string, This user’s initials.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• online boolean, Whether this user is online.</td>
</tr>
<tr>
<td>state</td>
<td>string</td>
<td>The status of the enhancement’s last run</td>
</tr>
<tr>
<td>schedule</td>
<td>list</td>
<td>A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• scheduled boolean, If the item is scheduled.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• scheduledHours array, Hours of the day it is scheduled on.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• scheduledMinutes array, Minutes of the day it is scheduled on.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</td>
</tr>
<tr>
<td>parentId</td>
<td>integer</td>
<td>Parent ID that triggers this enhancement.</td>
</tr>
<tr>
<td>notifications</td>
<td>list</td>
<td>A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• urls array, URLs to receive a POST request at job completion</td>
</tr>
</tbody>
</table>
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

source list, A list containing the following elements:
• databaseTable list. A list containing the following elements:
  – schema string, The schema name of the source table.
  – table string, The name of the source table.
  – remoteHostId integer, The ID of the database host for the table.
  – credentialId integer, The id of the credentials to be used when performing the enhancement.
  – multipartKey array, The source table primary key.

destination list, A list containing the following elements:
• databaseTable list. A list containing the following elements:
  – schema string, The schema name for the output data.
  – table string, The table name for the output data.

columnMapping list, A list containing the following elements:
• address1 string, The first address line.
• address2 string, The second address line.
• city string, The city of an address.
• state string, The state of an address.
• zip string, The zip code of an address.
• name string, The full name of the resident at this address. If needed, separate multiple columns with ‘+’, e.g. ‘first_name+last_name’
• company string, The name of the company located at this address.
**useDefaultColumnMapping**
boolean, Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.

**performNcoa**
boolean, Whether to update addresses for records matching the National Change of Address (NCOA) database.

**ncoaCredentialId**
integer, Credential to use when performing NCOA updates. Required if 'performNcoa' is true.

**outputLevel**
string, The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all.' For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.

**limitingSQL**
string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').

**archived**
string, The archival status of the requested item(s).

---

**enhancements_put_cass_ncoa_archive**

*Update the archive status of this object*

**Description**

Update the archive status of this object

**Usage**

`enhancements_put_cass_ncoa_archive(id, status)`

**Arguments**

- **id** integer required. The ID of the object.
- **status** boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

- **id** integer, The ID for the enhancement.
- **name** string, The name of the enhancement job.
- **type** string, The type of the enhancement (e.g CASS-NCOA)
- **createdAt** string, The time this enhancement was created.
- **updatedAt** string, The time the enhancement was last updated.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

state string, The status of the enhancement’s last run

schedule list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parentId integer, Parent ID that triggers this enhancement.

notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to “Civis.”
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

source list, A list containing the following elements:
• databaseTable list. A list containing the following elements:
  – schema string, The schema name of the source table.
  – table string, The name of the source table.
  – remoteHostId integer, The ID of the database host for the table.
  – credentialId integer, The id of the credentials to be used when performing the enhancement.
### enhancements_put_cass_ncoa_projects

**Add a CASS/NCOA Enhancement to a project**

#### Description

Add a CASS/NCOA Enhancement to a project

#### Usage

```
enhancements_put_cass_ncoa_projects(id, project_id)
```
Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>integer required. The ID of the CASS/NCOA Enhancement.</td>
</tr>
<tr>
<td>project_id</td>
<td>integer</td>
<td>integer required. The ID of the project.</td>
</tr>
</tbody>
</table>

Value

An empty HTTP response

---

**enhancements_put_cass_ncoa_shares_groups**

*Set the permissions groups has on this object*

---

Description

Set the permissions groups has on this object

Usage

```python
enhancements_put_cass_ncoa_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>integer required. The ID of the resource that is shared.</td>
</tr>
<tr>
<td>group_ids</td>
<td>array</td>
<td>array required. An array of one or more group IDs.</td>
</tr>
<tr>
<td>permission_level</td>
<td>string</td>
<td>string required. Options are: &quot;read&quot;, &quot;write&quot;, or &quot;manage&quot;.</td>
</tr>
<tr>
<td>share_email_body</td>
<td>string</td>
<td>string optional. Custom body text for e-mail sent on a share.</td>
</tr>
<tr>
<td>send_shared_email</td>
<td>boolean</td>
<td>boolean optional. Send email to the recipients of a share.</td>
</tr>
</tbody>
</table>

Value

A list containing the following elements:

- **readers**
  - list, A list containing the following elements:
    - users array,
    - groups array,

- **writers**
  - list, A list containing the following elements:
enhancements_put_cass_ncoa_shares_users

- users array,
- groups array,

owners list, A list containing the following elements:

- users array,
- groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

Description

Set the permissions users have on this object

Usage

```
enhancements_put_cass_ncoa_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

Arguments

- id integer required. The ID of the resource that is shared.
- user_ids array required. An array of one or more user IDs.
- permission_level string required. Options are: "read", "write", or "manage".
- share_email_body string optional. Custom body text for e-mail sent on a share.
- send_shared_email boolean optional. Send email to the recipients of a share.
enhancements_put_civis_data_match

Value

A list containing the following elements:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

--

enhancements_put_civis_data_match

Replace all attributes of this Civis Data Match Enhancement

--

Description

Replace all attributes of this Civis Data Match Enhancement

Usage

enhancements_put_civis_data_match(
  id,
  name,
  input_field_mapping,
  input_table,
  match_target_id,
  output_table,
  schedule = NULL,
  parent_id = NULL,
  notifications = NULL,
  max_matches = NULL,
  threshold = NULL,
  archived = NULL
)
**enhancements_put_civis_data_match**

**Arguments**

- **id** integer required. The ID for the enhancement.
- **name** string required. The name of the enhancement job.
- **input_field_mapping** list required. The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.
- **input_table** list required. A list containing the following elements:
  - **databaseName** string, The Redshift database name for the table.
  - **schema** string, The schema name for the table.
  - **table** string, The table name.
- **match_target_id** integer required. The ID of the Civis Data match target. See /match_targets for IDs.
- **output_table** list required. A list containing the following elements:
  - **databaseName** string, The Redshift database name for the table.
  - **schema** string, The schema name for the table.
  - **table** string, The table name.
- **schedule** list optional. A list containing the following elements:
  - **scheduled** boolean, If the item is scheduled.
  - **scheduledDays** array, Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours** array, Hours of the day it is scheduled on.
  - **scheduledMinutes** array, Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour** integer, Alternative to scheduled minutes, number of times to run per hour.
- **parent_id** integer optional. Parent ID that triggers this enhancement.
- **notifications** list optional. A list containing the following elements:
  - **urls** array, URLs to receive a POST request at job completion
  - **successEmailSubject** string, Custom subject line for success e-mail.
  - **successEmailBody** string, Custom body text for success e-mail, written in Markdown.
  - **successEmailAddresses** array, Addresses to notify by e-mail when the job completes successfully.
  - **successEmailFromName** string, Name from which success emails are sent; defaults to "Civis."
  - **successEmailReplyTo** string, Address for replies to success emails; defaults to the author of the job.
  - **failureEmailAddresses** array, Addresses to notify by e-mail when the job fails.
  - **stallWarningMinutes** integer, Stall warning emails will be sent after this amount of minutes.
  - **successOn** boolean, If success email notifications are on.
  - **failureOn** boolean, If failure email notifications are on.
max_matches  integer optional. The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

threshold  number optional. The score threshold (between 0 and 1). Matches below this threshold will not be returned.

archived  boolean optional. Whether the Civis Data Match Job has been archived.

Value

A list containing the following elements:

id  integer, The ID for the enhancement.

name  string, The name of the enhancement job.

type  string, The type of the enhancement (e.g CASS-NCOA)

createdAt  string, The time this enhancement was created.

updatedAt  string, The time the enhancement was last updated.

author  list, A list containing the following elements:

• id  integer, The ID of this user.
• name  string, This user’s name.
• username  string, This user’s username.
• initials  string, This user’s initials.
• online  boolean, Whether this user is online.

state  string, The status of the enhancement’s last run

schedule  list, A list containing the following elements:

• scheduled  boolean, If the item is scheduled.
• scheduledDays  array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours  array, Hours of the day it is scheduled on.
• scheduledMinutes  array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour  integer, Alternative to scheduled minutes, number of times to run per hour.

parentId  integer, Parent ID that triggers this enhancement.

notifications  list, A list containing the following elements:

• urls  array, URLs to receive a POST request at job completion
• successEmailSubject  string, Custom subject line for success e-mail.
• successEmailBody  string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses  array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName  string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo  string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses  array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

inputFieldMapping list, The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.

inputTable list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

matchTargetId integer, The ID of the Civis Data match target. See /match_targets for IDs.

outputTable list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

maxMatches integer, The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

threshold number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.

archived boolean, Whether the Civis Data Match Job has been archived.

lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.
enhancements_put_civis_data_match_archive

*Update the archive status of this object*

**Description**

Update the archive status of this object

**Usage**

`enhancements_put_civis_data_match_archive(id, status)`

**Arguments**

- **id**  
  integer required. The ID of the object.
- **status**  
  boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

- **id** integer, The ID for the enhancement.
- **name** string, The name of the enhancement job.
- **type** string, The type of the enhancement (e.g. CASS-NCOA)
- **createdAt** string, The time this enhancement was created.
- **updatedAt** string, The time the enhancement was last updated.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **state** string, The status of the enhancement’s last run
- **schedule** list, A list containing the following elements:
  - **scheduled** boolean, If the item is scheduled.
  - **scheduledDays** array, Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours** array, Hours of the day it is scheduled on.
  - **scheduledMinutes** array, Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour** integer, Alternative to scheduled minutes, number of times to run per hour.
- **parentId** integer, Parent ID that triggers this enhancement.
- **notifications** list, A list containing the following elements:
enhancements_put_civis_data_match_archive

- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:

- id integer, The ID of this user.
- name string, This user's name.
- username string, This user's username.
- initials string, This user's initials.
- online boolean, Whether this user is online.

inputFieldMapping list, The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.

inputTable list, A list containing the following elements:

- databaseName string, The Redshift database name for the table.
- schema string, The schema name for the table.
- table string, The table name.

matchTargetId integer, The ID of the Civis Data match target. See /match_targets for IDs.

outputTable list, A list containing the following elements:

- databaseName string, The Redshift database name for the table.
- schema string, The schema name for the table.
- table string, The table name.

maxMatches integer, The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

threshold number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.

archived boolean, Whether the Civis Data Match Job has been archived.

lastRun list, A list containing the following elements:

- id integer,
- state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

---

**enhancements_put_civis_data_match_projects**

*Add a Civis Data Match Enhancement to a project*

**Description**

Add a Civis Data Match Enhancement to a project

**Usage**

```
enhancements_put_civis_data_match_projects(id, project_id)
```

**Arguments**

- **id** integer required. The ID of the Civis Data Match Enhancement.
- **project_id** integer required. The ID of the project.

**Value**

An empty HTTP response

---

**enhancements_put_civis_data_match_shares_groups**

*Set the permissions groups has on this object*

**Description**

Set the permissions groups has on this object

**Usage**

```
enhancements_put_civis_data_match_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
Arguments

- **id**
  - integer required. The ID of the resource that is shared.

- **group_ids**
  - array required. An array of one or more group IDs.

- **permission_level**
  - string required. Options are: "read", "write", or "manage".

- **share_email_body**
  - string optional. Custom body text for e-mail sent on a share.

- **send_shared_email**
  - boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers**
  - list, A list containing the following elements:
    - users array,
    - groups array,

- **writers**
  - list, A list containing the following elements:
    - users array,
    - groups array,

- **owners**
  - list, A list containing the following elements:
    - users array,
    - groups array,

- **totalUserShares**
  - integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares**
  - integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

enhancements_put_civis_data_match_shares_users

*Set the permissions users have on this object*

Description

Set the permissions users have on this object

Usage

```
enhancements_put_civis_data_match_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
Arguments

- **id**: integer required. The ID of the resource that is shared.
- **user_ids**: array required. An array of one or more user IDs.
- **permission_level**: string required. Options are: "read", "write", or "manage".
- **share_email_body**: string optional. Custom body text for e-mail sent on a share.
- **send_shared_email**: boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers**: list, A list containing the following elements:
  - users array,
  - groups array,
- **writers**: list, A list containing the following elements:
  - users array,
  - groups array,
- **owners**: list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares**: integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares**: integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**enhancements_put_geocode**

*Replace all attributes of this Geocode Enhancement*

---

**Description**

Replace all attributes of this Geocode Enhancement
Usages

```python
genius.put_geocode(
    id, name, remote_host_id, credential_id, source_schema_and_table, schedule = NULL, parent_id = NULL, notifications = NULL, multipart_key = NULL, limiting_sql = NULL, target_schema = NULL, target_table = NULL, country = NULL, provider = NULL, output_address = NULL)
```

Arguments

- **id** integer required. The ID for the enhancement.
- **name** string required. The name of the enhancement job.
- **remote_host_id** integer required. The ID of the remote host.
- **credential_id** integer required. The ID of the remote host credential.
- **source_schema_and_table** string required. The source database schema and table.
- **schedule** list optional. A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
- **parent_id** integer optional. Parent ID that triggers this enhancement.
- **notifications** list optional. A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

multipart_key array optional. The source table primary key.
limiting_sql string optional. The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
target-schema string optional. The output table schema.
target_table string optional. The output table name.
country string optional. The country of the addresses to be geocoded; either 'us' or 'ca'.
provider string optional. The geocoding provider; one of postgis, nominatim, and geocoder_ca.
output_address boolean optional. Whether to output the parsed address. Only guaranteed for the 'postgis' provider.

Value

A list containing the following elements:

id integer, The ID for the enhancement.
name string, The name of the enhancement job.
type string, The type of the enhancement (e.g. CASS-NCOA)
createdAt string, The time this enhancement was created.
updatedAt string, The time the enhancement was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user's username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the enhancement’s last run
schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
parentId integer, Parent ID that triggers this enhancement.
notifications list, A list containing the following elements:

- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:

- id integer, The ID of this user.
- name string, This user's name.
- username string, This user's username.
- initials string, This user's initials.
- online boolean, Whether this user is online.

remoteHostId integer, The ID of the remote host.
credentialId integer, The ID of the remote host credential.
sourceSchemaAndTable string, The source database schema and table.
multipartKey array, The source table primary key.
limitingSQL string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
targetSchema string, The output table schema.
targetTable string, The output table name.
country string, The country of the addresses to be geocoded; either 'us' or 'ca'.
provider string, The geocoding provider; one of postgis, nominatim, and geocoder_ca.
outputAddress boolean, Whether to output the parsed address. Only guaranteed for the 'postgis' provider.
arched string, The archival status of the requested item(s).
enhancements_put_geocode_archive

Update the archive status of this object

Description
Update the archive status of this object

Usage
enhancements_put_geocode_archive(id, status)

Arguments
id integer required. The ID of the object.
status boolean required. The desired archived status of the object.

Value
A list containing the following elements:
id integer, The ID for the enhancement.
name string, The name of the enhancement job.
type string, The type of the enhancement (e.g CASS-NCOA)
createdAt string, The time this enhancement was created.
updatedAt string, The time the enhancement was last updated.
author list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.
state string, The status of the enhancement’s last run
schedule list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
pARENTID integer, Parent ID that triggers this enhancement.
notifications list, A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.

remoteHostId integer, The ID of the remote host.
credentialId integer, The ID of the remote host credential.
sourceSchemaAndTable string, The source database schema and table.
multipartKey array, The source table primary key.
limitingSQL string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
targetSchema string, The output table schema.
targetTable string, The output table name.
country string, The country of the addresses to be geocoded; either ‘us’ or ‘ca’.
provider string, The geocoding provider; one of postgis, nominatim, and geocoder_ca.
outputAddress boolean, Whether to output the parsed address. Only guaranteed for the ‘postgis’ provider.
archived string, The archival status of the requested item(s).
enhancements_put_geocode_projects

Add a Geocode Enhancement to a project

Description

Add a Geocode Enhancement to a project

Usage

enhancements_put_geocode_projects(id, project_id)

Arguments

id integer required. The ID of the Geocode Enhancement.
project_id integer required. The ID of the project.

Value

An empty HTTP response

enhancements_put_geocode_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

enhancements_put_geocode_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
enhancements_put_geocode_shares_users

Arguments

id integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

Definition

Set the permissions users have on this object

Usage

enhancements_put_geocode_shares_users(
    id,
    user_ids,  
    permission_level, 
    share_email_body = NULL, 
    send_shared_email = NULL 
)
exports_get_files_csv

Arguments

id integer required. The ID of the resource that is shared.
user_ids array required. An array of one or more user IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers list, A list containing the following elements:
  • users array,
  • groups array,
writers list, A list containing the following elements:
  • users array,
  • groups array,
owners list, A list containing the following elements:
  • users array,
  • groups array,
totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

exports_get_files_csv  Get a CSV Export

Description

Get a CSV Export

Usage

exports_get_files_csv(id)

Arguments

id integer required.
Value

A list containing the following elements:

- **id** integer, The ID of this Csv Export job.
- **name** string, The name of this Csv Export job.
- **source** list, A list containing the following elements:
  - **sql** string, The SQL query for this Csv Export job
  - **remoteHostId** integer, The ID of the destination database host.
  - **credentialId** integer, The ID of the credentials for the destination database.
- **destination** list, A list containing the following elements:
  - **filenamePrefix** string, The prefix of the name of the file returned to the user.
  - **storagePath** list, A list containing the following elements:
    - **filePath** string, The path within the bucket where the exported file will be saved. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/"
    - **storageHostId** integer, The ID of the destination storage host.
    - **credentialId** integer, The ID of the credentials for the destination storage host.
    - **existingFiles** string, Notifies the job of what to do in the case that the exported file already exists at the provided path. One of: fail, append, overwrite. Default: fail. If "append" is specified, the new file will always be added to the provided path. If "overwrite" is specified all existing files at the provided path will be deleted and the new file will be added. By default, or if "fail" is specified, the export will fail if a file exists at the provided path.
- **includeHeader** boolean, A boolean value indicating whether or not the header should be included. Defaults to true.
- **compression** string, The compression of the output file. Valid arguments are "gzip" and "none". Defaults to "gzip".
- **columnDelimiter** string, The column delimiter for the output file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".
- **hidden** boolean, A boolean value indicating whether or not this request should be hidden. Defaults to false.
- **forceMultifile** boolean, Whether or not the csv should be split into multiple files. Default: false
- **maxFileSize** integer, The max file size, in MB, created files will be. Only available when force_multifile is true.
exports_list  List

Description

List

Usage

exports_list(
    type = NULL,
    author = NULL,
    status = NULL,
    hidden = NULL,
    archived = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments

type string optional. If specified, return exports of these types. It accepts a comma-separated list, possible values are 'database' and 'gdoc'.

author string optional. If specified, return exports from this author. It accepts a comma-separated list of author ids.

status string optional. If specified, returns export with one of these statuses. It accepts a comma-separated list, possible values are 'running', 'failed', 'succeeded', 'idle', 'scheduled'.

hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

archived string optional. The archival status of the requested item(s).

limit integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.

page_num integer optional. Page number of the results to return. Defaults to the first page, 1.

order string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at, last_run.updated_at.

order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.
exports_patch_files_csv

Value

An array containing the following fields:

- **id**: integer, The ID for this export.
- **name**: string, The name of this export.
- **type**: string, The type of export.
- **createdAt**: string, The creation time for this export.
- **updatedAt**: string, The last modification time for this export.
- **state**: string,
- **lastRun**: list, A list containing the following elements:
  - **id**: integer,
  - **state**: string,
  - **createdAt**: string, The time that the run was queued.
  - **startedAt**: string, The time that the run started.
  - **finishedAt**: string, The time that the run completed.
  - **error**: string, The error message for this run, if present.
- **author**: list, A list containing the following elements:
  - **id**: integer, The ID of this user.
  - **name**: string, This user’s name.
  - **username**: string, This user’s username.
  - **initials**: string, This user’s initials.
  - **online**: boolean, Whether this user is online.

exports_patch_files_csv

*Update some attributes of this CSV Export*

Description

Update some attributes of this CSV Export

Usage

```python
events_patch_files_csv(
    id,
    name = NULL,
    source = NULL,
    destination = NULL,
    include_header = NULL,
    compression = NULL,
    column_delimiter = NULL,
    hidden = NULL,
    force_multifile = NULL,
    max_file_size = NULL
)
```
Arguments

id  integer required. The ID of this Csv Export job.
name  string optional. The name of this Csv Export job.
source  list optional. A list containing the following elements:
  • sql string, The SQL query for this Csv Export job
  • remoteHostId integer, The ID of the destination database host.
  • credentialId integer, The ID of the credentials for the destination database.
destination  list optional. A list containing the following elements:
  • filenamePrefix string, The prefix of the name of the file returned to the user.
  • storagePath list. A list containing the following elements:
    – filePath string, The path within the bucket where the exported file will be saved. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/
    – storageHostId integer, The ID of the destination storage host.
    – credentialId integer, The ID of the credentials for the destination storage host.
    – existingFiles string, Notifies the job of what to do in the case that the exported file already exists at the provided path. One of: fail, append, overwrite. Default: fail. If "append" is specified, the new file will always be added to the provided path. If "overwrite" is specified all existing files at the provided path will be deleted and the new file will be added. By default, or if "fail" is specified, the export will fail if a file exists at the provided path.
include_header  boolean optional. A boolean value indicating whether or not the header should be included. Defaults to true.
compression  string optional. The compression of the output file. Valid arguments are "gzip" and "none". Defaults to "gzip".
column_delimiter  string optional. The column delimiter for the output file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".
hidden  boolean optional. A boolean value indicating whether or not this request should be hidden. Defaults to false.
force_multifile  boolean optional. Whether or not the csv should be split into multiple files. Default: false
max_file_size  integer optional. The max file size, in MB, created files will be. Only available when force_multifile is true.

Value

A list containing the following elements:

id  integer, The ID of this Csv Export job.
name  string, The name of this Csv Export job.
exports_post_files_csv

Create a CSV Export

Description

Create a CSV Export
Usage

exports_post_files_csv(
    source,
    destination,
    name = NULL,
    include_header = NULL,
    compression = NULL,
    column_delimiter = NULL,
    hidden = NULL,
    force_multifile = NULL,
    max_file_size = NULL
)

Arguments

source list required. A list containing the following elements:
• sql string. The SQL query for this Csv Export job
• remoteHostId integer. The ID of the destination database host.
• credentialId integer. The ID of the credentials for the destination database.

destination list required. A list containing the following elements:
• filenamePrefix string. The prefix of the name of the file returned to the user.
• storagePath list. A list containing the following elements:
  – filePath string. The path within the bucket where the exported file will be saved. E.g. the file_path for “s3://mybucket/files/all/” would be “/files/all/”
  – storageHostId integer. The ID of the destination storage host.
  – credentialId integer. The ID of the credentials for the destination storage host.
  – existingFiles string. Notifies the job of what to do in the case that the exported file already exists at the provided path. One of: fail, append, overwrite. Default: fail. If "append" is specified, the new file will always be added to the provided path. If "overwrite" is specified, all existing files at the provided path will be deleted and the new file will be added. By default, or if "fail" is specified, the export will fail if a file exists at the provided path.

name string optional. The name of this Csv Export job.
include_header boolean optional. A boolean value indicating whether or not the header should be included. Defaults to true.
compression string optional. The compression of the output file. Valid arguments are "gzip" and "none". Defaults to "gzip".
column_delimiter string optional. The column delimiter for the output file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".
hidden boolean optional. A boolean value indicating whether or not this request should be hidden. Defaults to false.
force_multifile

boolean optional. Whether or not the csv should be split into multiple files.
Default: false

max_file_size

integer optional. The max file size, in MB, created files will be. Only available when force_multifile is true.

Value

A list containing the following elements:

id

integer, The ID of this Csv Export job.

name

string, The name of this Csv Export job.

source

list, A list containing the following elements:

• sql string, The SQL query for this Csv Export job

• remoteHostId integer, The ID of the destination database host.

• credentialId integer, The ID of the credentials for the destination database.

destination

list, A list containing the following elements:

• filenamePrefix string, The prefix of the name of the file returned to the user.

• storagePath list . A list containing the following elements:

  • filePath string, The path within the bucket where the exported file will be saved. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/"

  • storageHostId integer, The ID of the destination storage host.

  • credentialId integer, The ID of the credentials for the destination storage host.

  • existingFiles string, Notifies the job of what to do in the case that the exported file already exists at the provided path. One of: fail, append, overwrite. Default: fail. If "append" is specified, the new file will always be added to the provided path. If "overwrite" is specified all existing files at the provided path will be deleted and the new file will be added. By default, or if "fail" is specified, the export will fail if a file exists at the provided path.

includeHeader

boolean, A boolean value indicating whether or not the header should be included. Defaults to true.

compression

string, The compression of the output file. Valid arguments are "gzip" and "none". Defaults to "gzip".

columnDelimiter

string, The column delimiter for the output file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".

hidden

boolean, A boolean value indicating whether or not this request should be hidden. Defaults to false.

forceMultifile

boolean, Whether or not the csv should be split into multiple files. Default: false

maxFileSize

integer, The max file size, in MB, created files will be. Only available when force_multifile is true.
exports_put_files_csv

Replace all attributes of this CSV Export

Description

Replace all attributes of this CSV Export

Usage

exports_put_files_csv(
    id,
    source,
    destination,
    name = NULL,
    include_header = NULL,
    compression = NULL,
    column_delimiter = NULL,
    hidden = NULL,
    force_multifile = NULL,
    max_file_size = NULL
)

Arguments

id integer required. The ID of this Csv Export job.

source list required. A list containing the following elements:
  • sql string, The SQL query for this Csv Export job
  • remoteHostId integer, The ID of the destination database host.
  • credentialId integer, The ID of the credentials for the destination database.

destination list required. A list containing the following elements:
  • filenamePrefix string, The prefix of the name of the file returned to the user.
  • storagePath list. A list containing the following elements:
    – filePath string, The path within the bucket where the exported file will be saved. E.g. the filePath for "s3://mybucket/files/all/" would be "/files/all/"
    – storageHostId integer, The ID of the destination storage host.
    – credentialId integer, The ID of the credentials for the destination storage host.
    – existingFiles string, Notifies the job of what to do in the case that the exported file already exists at the provided path. One of: fail, append, overwrite. Default: fail. If "append" is specified, the new file will always be added to the provided path. If "overwrite" is specified all existing files at the provided path will be deleted and the new file will be added. By default, or if "fail" is specified, the export will fail if a file exists at the provided path.
exports_put_files_csv

name string optional. The name of this Csv Export job.
include_header boolean optional. A boolean value indicating whether or not the header should be included. Defaults to true.
compression string optional. The compression of the output file. Valid arguments are "gzip" and "none". Defaults to "gzip".
column_delimiter string optional. The column delimiter for the output file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".
hidden boolean optional. A boolean value indicating whether or not this request should be hidden. Defaults to false.
force_multifile boolean optional. Whether or not the csv should be split into multiple files. Default: false
max_file_size integer optional. The max file size, in MB, created files will be. Only available when force_multifile is true.

Value
A list containing the following elements:

id integer, The ID of this Csv Export job.
name string, The name of this Csv Export job.
source list, A list containing the following elements:
  • sql string, The SQL query for this Csv Export job
  • remoteHostId integer, The ID of the destination database host.
  • credentialId integer, The ID of the credentials for the destination database.
destination list, A list containing the following elements:
  • filenamePrefix string, The prefix of the name of the file returned to the user.
  • storagePath list . A list containing the following elements:
    – filePath string, The path within the bucket where the exported file will be saved. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/
    – storageHostId integer, The ID of the destination storage host.
    – credentialId integer, The ID of the credentials for the destination storage host.
    – existingFiles string, Notifies the job of what to do in the case that the exported file already exists at the provided path. One of: fail, append, overwrite. Default: fail. If "append" is specified, the new file will always be added to the provided path. If "overwrite" is specified all existing files at the provided path will be deleted and the new file will be added. By default, or if "fail" is specified, the export will fail if a file exists at the provided path.
includeHeader boolean, A boolean value indicating whether or not the header should be included. Defaults to true.
exports_put_files_csv_archive

Update the archive status of this object

Description
Update the archive status of this object

Usage
exports_put_files_csv_archive(id, status)

Arguments
id integer required. The ID of the object.
status boolean required. The desired archived status of the object.

Value
A list containing the following elements:
id integer, The ID of this Csv Export job.
name string, The name of this Csv Export job.
source list, A list containing the following elements:
  • sql string, The SQL query for this Csv Export job
  • remoteHostId integer, The ID of the destination database host.
  • credentialId integer, The ID of the credentials for the destination database.
destination list, A list containing the following elements:
  • filenamePrefix string, The prefix of the name of the file returned to the user.
  • storagePath list. A list containing the following elements:
    – filePath string, The path within the bucket where the exported file will be saved. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/"
storageHostId integer, The ID of the destination storage host.
- credentialId integer, The ID of the credentials for the destination storage host.
- existingFiles string, Notifies the job of what to do in the case that the exported file already exists at the provided path. One of: fail, append, overwrite. Default: fail. If "append" is specified, the new file will always be added to the provided path. If "overwrite" is specified, all existing files at the provided path will be deleted and the new file will be added. By default, or if "fail" is specified, the export will fail if a file exists at the provided path.

includeHeader boolean, A boolean value indicating whether or not the header should be included. Defaults to true.
 compression string, The compression of the output file. Valid arguments are "gzip" and "none". Defaults to "gzip".
 columnDelimiter string, The column delimiter for the output file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".
 hidden boolean, A boolean value indicating whether or not this request should be hidden. Defaults to false.
 forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false
 maxFileSize integer, The max file size, in MB, created files will be. Only available when force_multifile is true.

feature_flags_delete_groups
   Deactivate a feature for a group

Description
   Deactivate a feature for a group

Usage
   feature_flags_delete_groups(flag_name, group_id)

Arguments
   flag_name string required. The feature flag name.
   group_id integer required. Group ID.

Value
   An empty HTTP response
**feature_flags_delete_users**

*Deactivate a feature for a user*

**Description**

Deactivate a feature for a user

**Usage**

`feature_flags_delete_users(flag_name, user_id)`

**Arguments**

- **flag_name**: string required. The feature flag name.
- **user_id**: integer required. The user ID.

**Value**

An empty HTTP response

**feature_flags_get**

*Show a feature flag*

**Description**

Show a feature flag

**Usage**

`feature_flags_get(name)`

**Arguments**

- **name**: string required. The name of the feature flag.

**Value**

A list containing the following elements:

- **name**: string, The name of the feature flag
- **organizations**: array, An array containing the following fields:
  - **id**: integer, Organization ID
  - **name**: string, Organization name
  - **slug**: string, Organization slug
**feature_flags_list**

array, An array containing the following fields:

- `id` integer, Group ID
- `name` string, Group name
- `slug` string, Group slug
- `users` array, Users within the group

**users** array, An array containing the following fields:

- `id` integer, User ID
- `username` string, Username

**percentage** integer, The target percentage of users who should have this feature flag enabled.

---

**feature_flags_list**

*List feature flags*

---

**Description**

List feature flags

**Usage**

`feature_flags_list()`

**Value**

An array containing the following fields:

- `name` string, The name of the feature flag.
- `userCount` integer, The number of users with this feature flag enabled.
- `description` string,
- `team` string,
- `jira` string,
- `added` string,
- `groupCount` integer,
- `organizationCount` integer,
- `percentage` integer, The target percentage of users who should have this feature flag enabled.
- `activeForMe` boolean, Whether the feature flag is active for the current user.
feature_flags_put_groups

Activate a feature for a group

Description
Activate a feature for a group

Usage
feature_flags_put_groups(flag_name, group_id)

Arguments
flag_name string required. The feature flag name.
group_id integer required. Group ID.

Value
A list containing the following elements:

name string, The name of the feature flag.
userCount integer, The number of users with this feature flag enabled.
description string,
team string,
jira string,
added string,
groupCount integer,
organizationCount integer,
percentage integer, The target percentage of users who should have this feature flag enabled.
activeForMe boolean, Whether the feature flag is active for the current user.
feature_flags_put_users

Activate a feature for a user

Description

Activate a feature for a user

Usage

feature_flags_put_users(flag_name, user_id)

Arguments

flag_name string required. The feature flag name.
user_id integer required. The user ID.

Value

A list containing the following elements:

name string, The name of the feature flag.
userCount integer, The number of users with this feature flag enabled.
description string,
team string,
jira string,
added string,
groupCount integer,
organizationCount integer,
percentage integer, The target percentage of users who should have this feature flag enabled.
activeForMe boolean, Whether the feature flag is active for the current user.
### fetch_all

*Retrieve all results from a paginated endpoint*

**Description**

Retrieve all results from a paginated endpoint

**Usage**

```r
fetch_all(fn, ...)
```

**Arguments**

- `fn`  
  The API function to be called.
- `...`  
  Arguments passed to `fn`.

**Value**

A list with the concatenated results of each page of `fn`.

**See Also**

Other pagination: `fetch_until()`

**Examples**

```r
## Not run:
columns <- fetch_all(tables_list_columns, id = 123)
column_names <- columns %>% purrr::map_chr("name")

## End(Not run)
```

### fetch_and_generate_client

*Fetches and generates the client in generated_client.R*

**Description**

Fetches and generates the client in `generated_client.R`

**Usage**

```r
fetch_and_generate_client()
```

**Details**

Skips autogeneration on windows with R < 3.4.0 and if `R_CLIENT_DEV == "TRUE"`. A valid CIVIS_API_KEY must be set.
fetch_logs

Fetch job logs from the Civis Platform

Description

Fetch job logs from the Civis Platform

Usage

fetch_logs(object, limit = 100, ...)

Arguments

- **object**: A `civis_api`, `civis_error`, or `civis_ml` object.
- **limit**: The number of log lines to fetch, the default is 100.
- **...**: Extra parameters passed to methods, currently unused.

Value

A list of log messages with class `civis_logs`.

Examples

```r
## Not run:
m <- civis_ml_fetch_existing(123)
fetch_logs(m)

import <- write_civis(iris, "scratch.mytest")
fetch_logs(import)

query_run <- query_civis(123)
fetch_logs(query_run)

e <- tryCatch(read_civis("asdf"), error = function(e) e)
fetch_logs(e)
## End(Not run)
```
**fetch_oos_scores**

*Retrieve out of sample/fold predictions*

**Description**

Retrieve out of sample/fold predictions

**Usage**

```r
fetch_oos_scores(model, ...)
```

**Arguments**

- `model` A `civis_ml` model.
- `...` Parameters passed to `read.csv`.

**Details**

Returns the out of sample (or out of fold) predictions for each observation. For a multiclass model, a data frame is returned with one column of predictions for each class.

**Value**

A data frame with out of sample/fold predictions for each row of the training data, and containing an additional column with a primary key.

**See Also**

civis_ml

---

**fetch_output_file_ids**

*Return output from a civis_script.*

**Description**

Return output from a civis_script.

**Usage**

```r
fetch_output_file_ids(x, regex = NULL)
```

```r
fetch_output(x, regex = NULL)
```

**Arguments**

- `x` civis_script
- `regex` string, regex used to match the run output name.
Details

If the script has no outputs, the results are a list of length is 0.

Value

A named list of run output file ids with names matching regex.

Functions

- `fetch_output`: Return output of `scripts_list_*_runs_outputs` matching regex.

See Also

Other `script_utils`: `civis_script()`, `run_civis()`, `run_template()`

Examples

```r
## Not run:
out <- fetch_output(civis_script(1234))

# Filter output with regex, then read into memory:
ids <- fetch_output_file_ids(civis_script(1234), regex = '/quotesingle.Var.csv/quotesingle.Var')
vals <- lapply(ids, read_civis, using = read.csv)

## End(Not run)
```

---

### fetch_predictions

Retrieve predictions from a CivisML prediction job

**Description**

Retrieve predictions from a CivisML prediction job

**Usage**

```r
fetch_predictions(x, ...)
```

**Arguments**

- `x`  
  - civis_ml_prediction object from `predict.civis_ml`

- `...`  
  - arguments passed to `read.csv`

**Details**

Predictions can also be downloaded as a csv directly using `download_civis` (see examples).
Value

A data.frame of predictions containing an additional column with a primary key. For a multiclass model, a data frame is returned with one column of predictions for each class.

Examples

```r
## Not run:
m <- civis_ml("path/to/file.csv", model_type = "sparse_logistic",
    dependent_variable = "Species")
pred_job <- predict(m, newdata = "path/to/newdata.csv")
yhat <- fetch_predictions(pred_job)

# download instead:
download_civis(pred_job$model_info$output_file_ids, path = "my_predictions.csv")

## End(Not run)
```

---

**fetch_until**

*Retrieve some results from a paginated endpoint*

### Description

`fetch_until` will retrieve paginated results until a condition is met. This is useful when searching for a particular value or record.

### Usage

`fetch_until(fn, .until, ...)`

### Arguments

- `fn`: The API function to be called.
- `.until`: A function which returns a boolean value. `.until` will be called with each item from the API response. When `.until` returns `TRUE` iteration will stop and `fetch_until` will return all responses accumulated so far.
- `...`: Arguments passed to `fn`.

### Value

A list with the concatenated results of each page of `fn`.

### See Also

Other pagination: `fetch_all()`
files_delete_preprocess_csv

Examples

```r
## Not run:
columns <- fetch_until(tables_list_columns,
                       .until = function(x) x == "voterbase_id")

## End(Not run)
```

files_delete_preprocess_csv

_Archive a Preprocess CSV (deprecated, use archiving endpoints instead)_

Description

Archive a Preprocess CSV (deprecated, use archiving endpoints instead)

Usage

```r
files_delete_preprocess_csv(id)
```

Arguments

- `id` integer required.

Value

An empty HTTP response

files_delete_projects

_Remove a File from a project_

Description

Remove a File from a project

Usage

```r
files_delete_projects(id, project_id)
```

Arguments

- `id` integer required. The ID of the File.
- `project_id` integer required. The ID of the project.

Value

An empty HTTP response
files_delete_shares_groups

Revoke the permissions a group has on this object

Description
Revoke the permissions a group has on this object

Usage
files_delete_shares_groups(id, group_id)

Arguments
- id: integer required. The ID of the resource that is shared.
- group_id: integer required. The ID of the group.

Value
An empty HTTP response

files_delete_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
files_delete_shares_users(id, user_id)

Arguments
- id: integer required. The ID of the resource that is shared.
- user_id: integer required. The ID of the user.

Value
An empty HTTP response
files_get

Get details about a file

Description
Get details about a file

Usage
files_get(id, link_expires_at = NULL, inline = NULL)

Arguments
- **id** integer required. The ID of the file.
- **link_expires_at** string optional. The date and time the download link will expire. Must be a time between now and 36 hours from now. Defaults to 30 minutes from now.
- **inline** boolean optional. If true, will return a url that can be displayed inline in HTML

Value
A list containing the following elements:
- **id** integer, The ID of the file.
- **name** string, The file name.
- **createdAt** string, The date and time the file was created.
- **fileSize** integer, The file size.
- **expiresAt** string, The date and time the file will expire. If not specified, the file will expire in 30 days. To keep a file indefinitely, specify null.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **downloadUrl** string, A JSON string containing information about the URL of the file.
- **fileUrl** string, The URL that may be used to download the file.
- **detectedInfo** list, A list containing the following elements:
  - **includeHeader** boolean, A boolean value indicating whether or not the first row of the file is a header row.
  - **columnDelimiter** string, The column delimiter for the file. One of "comma", "tab", or "pipe".
files_get_preprocess_csv

Get a Preprocess CSV

Description
Get a Preprocess CSV

Usage
files_get_preprocess_csv(id)

Arguments

id integer required.

Value
A list containing the following elements:

id integer, The ID of the job created.
fileId integer, The ID of the file.
inPlace boolean, If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.
detectTableColumns boolean, If true, detect the table columns in the file including the sql types. If false, skip table column detection. Defaults to false.

forceCharacterSetConversion boolean, If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).

includeHeader boolean, A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.

columnDelimiter string, The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.

hidden boolean, The hidden status of the item.
files_list_projects

List the projects a File belongs to

Description

List the projects a File belongs to

Usage

files_list_projects(id, hidden = NULL)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the File.</td>
</tr>
<tr>
<td>hidden</td>
<td>boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.</td>
</tr>
</tbody>
</table>

Value

An array containing the following fields:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The ID for this project.</td>
</tr>
<tr>
<td>author</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id integer, The ID of this user.</td>
</tr>
<tr>
<td></td>
<td>• name string, This user’s name.</td>
</tr>
<tr>
<td></td>
<td>• username string, This user’s username.</td>
</tr>
<tr>
<td></td>
<td>• initials string, This user’s initials.</td>
</tr>
<tr>
<td></td>
<td>• online boolean, Whether this user is online.</td>
</tr>
<tr>
<td>name</td>
<td>string, The name of this project.</td>
</tr>
<tr>
<td>description</td>
<td>string, A description of the project.</td>
</tr>
<tr>
<td>users</td>
<td>array, An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>• id integer, The ID of this user.</td>
</tr>
<tr>
<td></td>
<td>• name string, This user’s name.</td>
</tr>
<tr>
<td></td>
<td>• username string, This user’s username.</td>
</tr>
<tr>
<td></td>
<td>• initials string, This user’s initials.</td>
</tr>
<tr>
<td></td>
<td>• online boolean, Whether this user is online.</td>
</tr>
<tr>
<td>autoShare</td>
<td>boolean,</td>
</tr>
<tr>
<td>createdAt</td>
<td>string,</td>
</tr>
<tr>
<td>updatedAt</td>
<td>string,</td>
</tr>
<tr>
<td>archived</td>
<td>string, The archival status of the requested item(s).</td>
</tr>
</tbody>
</table>
files_list_shares  
*List users and groups permissioned on this object*

**Description**

List users and groups permissioned on this object

**Usage**

`files_list_shares(id)`

**Arguments**

- `id`  
  integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

- `readers`  
  list, A list containing the following elements:
  - users array,
  - groups array,

- `writers`  
  list, A list containing the following elements:
  - users array,
  - groups array,

- `owners`  
  list, A list containing the following elements:
  - users array,
  - groups array,

- `totalUserShares`  
  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- `totalGroupShares`  
  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
files_patch

Update details about a file

Description

Update details about a file

Usage

files_patch(id, name = NULL, expires_at = NULL)

Arguments

id integer required. The ID of the file.
name string optional. The file name. The extension must match the previous extension.
expires_at string optional. The date and time the file will expire.

Value

A list containing the following elements:

id integer, The ID of the file.
name string, The file name.
createdAt string, The date and time the file was created.
fileSize integer, The file size.
expiresAt string, The date and time the file will expire. If not specified, the file will expire in 30 days. To keep a file indefinitely, specify null.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
downloadUrl string, A JSON string containing information about the URL of the file.
fileUrl string, The URL that may be used to download the file.
detectedInfo list, A list containing the following elements:
  • includeHeader boolean, A boolean value indicating whether or not the first row of the file is a header row.
  • columnName string, The column delimiter for the file. One of "comma", "tab", or "pipe".
  • compression string, The type of compression of the file. One of "gzip", or "none".
  • tableColumns array, An array of hashes corresponding to the columns in the file. Each hash should have keys for column "name" and "sql_type"
files_patch_preprocess_csv

Update some attributes of this Preprocess CSV

Description

Update some attributes of this Preprocess CSV

Usage

files_patch_preprocess_csv(
   id,
   file_id = NULL,
   in_place = NULL,
   detect_table_columns = NULL,
   force_character_set_conversion = NULL,
   include_header = NULL,
   column_delimiter = NULL
)

Arguments

id integer required. The ID of the job created.

file_id integer optional. The ID of the file.

in_place boolean optional. If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.

detect_table_columns boolean optional. If true, detect the table columns in the file including the sql types. If false, skip table column detection. Defaults to false.

force_character_set_conversion boolean optional. If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).

include_header boolean optional. A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.

column_delimiter string optional. The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.

Value

A list containing the following elements:

id integer, The ID of the job created.
files_post

Initiate an upload of a file into the platform

Description

Initiate an upload of a file into the platform

Usage

files_post(name, expires_at = NULL)

Arguments

name

string required. The file name.

expires_at

string optional. The date and time the file will expire. If not specified, the file will expire in 30 days. To keep a file indefinitely, specify null.

Value

A list containing the following elements:

id

integer, The ID of the file.

name

string, The file name.

createdAt

string, The date and time the file was created.

fileSize

integer, The file size.
files_post_multipart

**Description**

Initiate a multipart upload

**Usage**

`files_post_multipart(name, num_parts, expires_at = NULL)`

**Arguments**

- **name** string required. The file name.
- **num_parts** integer required. The number of parts in which the file will be uploaded. This parameter determines the number of presigned URLs that are returned.
- **expires_at** string optional. The date and time the file will expire. If not specified, the file will expire in 30 days. To keep a file indefinitely, specify null.

**Value**

A list containing the following elements:

- **id** integer, The ID of the file.
- **name** string, The file name.
- **createdAt** string, The date and time the file was created.
- **fileSize** integer, The file size.
- **expiresAt** string, The date and time the file will expire. If not specified, the file will expire in 30 days. To keep a file indefinitely, specify null.
- **uploadUrls** array, An array of URLs that may be used to upload file parts. Use separate PUT requests to complete the part uploads. Links expire after 12 hours.
files_post_multipart_complete

Complete a multipart upload

Description

Complete a multipart upload

Usage

files_post_multipart_complete(id)

Arguments

id  integer required. The ID of the file.

Value

An empty HTTP response

files_post_preprocess_csv

Create a Preprocess CSV

Description

Create a Preprocess CSV

Usage

files_post_preprocess_csv(
    file_id,
    in_place = NULL,
    detect_table_columns = NULL,
    force_character_set_conversion = NULL,
    include_header = NULL,
    column_delimiter = NULL,
    hidden = NULL
)
Arguments

- **file_id** integer required. The ID of the file.
- **in_place** boolean optional. If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.
- **detect_table_columns** boolean optional. If true, detect the table columns in the file including the sql types. If false, skip table column detection. Defaults to false.
- **force_character_set_conversion** boolean optional. If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).
- **include_header** boolean optional. A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.
- **column_delimiter** string optional. The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.
- **hidden** boolean optional. The hidden status of the item.

Value

A list containing the following elements:

- **id** integer, The ID of the job created.
- **fileId** integer, The ID of the file.
- **inPlace** boolean, If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.
- **detectTableColumns** boolean, If true, detect the table columns in the file including the sql types. If false, skip table column detection. Defaults to false.
- **forceCharacterSetConversion** boolean, If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).
- **includeHeader** boolean, A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.
- **columnDelimiter** string, The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.
- **hidden** boolean, The hidden status of the item.
files_put

Update details about a file

Description
Update details about a file

Usage
files_put(id, name, expires_at)

Arguments
- id integer required. The ID of the file.
- name string required. The file name. The extension must match the previous extension.
- expires_at string required. The date and time the file will expire.

Value
A list containing the following elements:
- id integer, The ID of the file.
- name string, The file name.
- createdAt string, The date and time the file was created.
- fileSize integer, The file size.
- expiresAt string, The date and time the file will expire. If not specified, the file will expire in 30 days. To keep a file indefinitely, specify null.
- author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- downloadUrl string, A JSON string containing information about the URL of the file.
- fileUrl string, The URL that may be used to download the file.
- detectedInfo list, A list containing the following elements:
  - includeHeader boolean, A boolean value indicating whether or not the first row of the file is a header row.
  - columnDelimiter string, The column delimiter for the file. One of "comma", "tab", or "pipe".
  - compression string, The type of compression of the file. One of "gzip", or "none".
  - tableColumns array, An array of hashes corresponding to the columns in the file. Each hash should have keys for column "name" and "sql_type"
files_put_preprocess_csv

Replace all attributes of this Preprocess CSV

**Description**

Replace all attributes of this Preprocess CSV

**Usage**

```r
files_put_preprocess_csv(
  id,
  file_id,
  in_place = NULL,
  detect_table_columns = NULL,
  force_character_set_conversion = NULL,
  include_header = NULL,
  column_delimiter = NULL
)
```

**Arguments**

- **id** integer required. The ID of the job created.
- **file_id** integer required. The ID of the file.
- **in_place** boolean optional. If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.
- **detect_table_columns** boolean optional. If true, detect the table columns in the file including the sql types. If false, skip table column detection. Defaults to false.
- **force_character_set_conversion** boolean optional. If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).
- **include_header** boolean optional. A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.
- **column_delimiter** string optional. The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.

**Value**

A list containing the following elements:

- **id** integer, The ID of the job created.
files_put_preprocess_csv_archive

Description
Update the archive status of this object

Usage
files_put_preprocess_csv_archive(id, status)

Arguments
id integer required. The ID of the object.
status boolean required. The desired archived status of the object.

Value
A list containing the following elements:

id integer, The ID of the job created.

fileId integer, The ID of the file.
inPlace boolean, If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.
detectTableColumns  
boolean, If true, detect the table columns in the file including the sql types. If false, skip table column detection. Defaults to false.

forceCharacterSetConversion  
boolean, If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).

includeHeader  
boolean, A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.

columnDelimiter  
string, The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.

hidden  
boolean, The hidden status of the item.

files_put_projects  
Add a File to a project

Description
Add a File to a project

Usage
files_put_projects(id, project_id)

Arguments
id  
integer required. The ID of the File.

project_id  
integer required. The ID of the project.

Value
An empty HTTP response
files_put_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

files_put_shares_groups(
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)

Arguments

id
type: integer required. The ID of the resource that is shared.
group_ids
type: array required. An array of one or more group IDs.
permission_level
type: string required. Options are: "read", "write", or "manage".
share_email_body
type: string optional. Custom body text for e-mail sent on a share.
send_shared_email
type: boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers
type: list, A list containing the following elements:
  • users array,
  • groups array,

writers
type: list, A list containing the following elements:
  • users array,
  • groups array,

owners
type: list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares
type: integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
files_put_shares_users

Set the permissions users have on this object

Description
Set the permissions users have on this object

Usage
files_put_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)

Arguments
id integer required. The ID of the resource that is shared.
user_ids array required. An array of one or more user IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value
A list containing the following elements:
readers list, A list containing the following elements:
    • users array,
    • groups array,
writers list, A list containing the following elements:
    • users array,
    • groups array,
owners list, A list containing the following elements:
    • users array,
generate_client

- groups array,

  totalUserShares
  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

  totalGroupShares
  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**generate_client**  
*Generate a client*

**Description**
Generate a client

**Usage**
generate_client(spec)

**Arguments**
- spec  
  usually from get_spec

**Value**
A string containing one documented function for each verb at each endpoint.

---

**get_database_id**  
*Return the database id for a given database name*

**Description**
Return the database id for a given database name

**Usage**
get_database_id(database_name)

**Arguments**
- database_name  
  string, Name of database.

**Value**
database_id integer, id of the matching database.
get_error  

Get error data from civis_errors

Description

Get error data from civis_errors

Usage

get_error(x)

Arguments

x  
The error, usually from tryCatch

Value

A list containing

f  
The function

args  
A list of named arguments f was called with

error  
The error message from platform (if any)

status  
The status

Examples

```r
## Not run:
q_id <- queries_post(db_id, query, n_rows, cred_id)[["id"]]
r <- tryCatch(await(queries_get, id = q_id), error = function(e) e)
print(r)
get_error(r)

r <- try(await(queries_get, id = q_id))
get_error(r)

## End(Not run)
```
get_feature_importance

Get model feature importance

Description
Get model feature importance

Usage
get_feature_importance(model)

Arguments
model Object from civis_ml

Value
A matrix of features and their importance, ranked in descending order of importance

get_job_type_version
Derive the job type and version from the given alias.

Description
Derive the job type and version from the given alias.

Usage
get_job_type_version(alias)

Arguments
alias A one-length character vector of the CivisML alias

Value
A list containing the job_type and version
### get_metric

**Get model metrics**

**Description**

Get model metrics

**Usage**

```r
get_metric(model, name = NULL)
```

**Arguments**

- `model` Object from `civis_ml`
- `name` Name of the metric. If `NULL`, all metrics are returned. Possible metrics are listed in details.

**Details**

The list of possible metrics provided by CivisML is:

**Classification:**

- "accuracy",
- "confusion_matrix",
- "p_correct",
- "pop_incidence_true",
- "pop_incidence_pred",
- "roc_auc",
- "log_loss",
- "brier_score",
- "roc_curve",
- "calibration_curve",
- "deciles",
- "score_histogram",
- "training_histogram",
- "oos_score_table".

**Regression:**

- "mad",
- "rmse",
- "r_squared",
- "score_histogram",
- "training_histogram",
- "y_yhat_plot",
- "y_yhat_outlier_rows",
- "oos_score_table"

**Value**

The metric given by `name`, or all metrics.

---

### get_script_fun

**Get a script function matching a job type.**

**Description**

Get a script function matching a job type.

**Usage**

```r
get_script_fun(job, verb = c("list", "post"), fun_type = c("outputs", "logs"))
```
get_status

Arguments

job  output of jobs_get
verb  one of "list" or "post"
fun_type  one of "logs" or "outputs"

Details

container and custom scripts both have the same job type, but can be distinguished by a non-null fromTemplateId.

Value

The correct output or log fetching function (e.g. scripts_list_containers_runs_logs) based on the job type.

get_status  Get the status from results of await

Description

Get the status from results of await

Usage

get_status(response)

Arguments

response  the results from await

See Also

await await_all
get_table_id  
*Return the table id for a given table*

Description

Return the table id for a given table.

Usage

```r
get_table_id(table_name, database = NULL)
```

Arguments

- `table_name`  
  string, Name of table and schema "schema.tablename"

- `database`  
  string, Name of database where data frame is to be uploaded. If no database is specified, uses `options(civis.default_db)`

Value

`table_id` integer, id of the matching table.

See Also

- Other tables: `refresh_table()`, `transfer_table()`

get_template_ids_all_versions  
*Get template IDs for all accessible CivisML versions.*

Description

Get template IDs for all accessible CivisML versions.

Usage

```r
get_template_ids_all_versions()
```

Value

A data frame containing the template id, CivisML version, and job type.
**get_train_template_id**  
*Get training template IDs for the specified CivisML version*

**Description**

Get training template IDs for the specified CivisML version

**Usage**

```r
get_train_template_id(civisml_version = "prod")
```

**Arguments**

- `civisml_version`
  
  A one-length character vector of the CivisML version

**Value**

The template ID for training

---

**git_repos_delete**  
*Remove the bookmark on a git repository*

**Description**

Remove the bookmark on a git repository

**Usage**

```r
git_repos_delete(id)
```

**Arguments**

- `id`
  
  integer required. The ID for this git repository.

**Value**

An empty HTTP response
git_repos_get  Get a bookmarked git repository

Description
Get a bookmarked git repository

Usage

```
git_repos_get(id)
```

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID for this git repository.</td>
</tr>
</tbody>
</table>

Value

A list containing the following elements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>The ID for this git repository.</td>
</tr>
<tr>
<td>repoUrl</td>
<td>string</td>
<td>The URL for this git repository.</td>
</tr>
<tr>
<td>createdAt</td>
<td>string</td>
<td></td>
</tr>
<tr>
<td>updatedAt</td>
<td>string</td>
<td></td>
</tr>
</tbody>
</table>

git_repos_list  List bookmarked git repositories

Description
List bookmarked git repositories

Usage

```
git_repos_list(limit = NULL, page_num = NULL, order = NULL, order_dir = NULL)
```

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>limit</td>
<td>integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.</td>
</tr>
<tr>
<td>page_num</td>
<td>integer optional. Page number of the results to return. Defaults to the first page, 1.</td>
</tr>
<tr>
<td>order</td>
<td>string optional. The field on which to order the result set. Defaults to repo_url. Must be one of: repo_url, created_at.</td>
</tr>
<tr>
<td>order_dir</td>
<td>string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.</td>
</tr>
</tbody>
</table>
Value

An array containing the following fields:

- id: integer, The ID for this git repository.
- repoUrl: string, The URL for this git repository.
- createdAt: string,
- updatedAt: string,

Description

Bookmark a git repository

Usage

```python
git_repos_post(repo_url)
```

Arguments

- repo_url: string required. The URL for this git repository.

Value

A list containing the following elements:

- id: integer, The ID for this git repository.
- repoUrl: string, The URL for this git repository.
- createdAt: string,
- updatedAt: string,
groups_delete  
*Delete a Group (deprecated)*

**Description**
Delete a Group (deprecated)

**Usage**
`groups_delete(id)`

**Arguments**
id  integer required.

**Value**
An empty HTTP response

---

groups_delete_members  
*Remove a user from a group*

**Description**
Remove a user from a group

**Usage**
`groups_delete_members(id, user_id)`

**Arguments**
id  integer required. The ID of the group.
user_id  integer required. The ID of the user.

**Value**
An empty HTTP response
**groups_delete_shares_groups**

*Revoke the permissions a group has on this object*

**Description**

Revoke the permissions a group has on this object

**Usage**

```python
groups_delete_shares_groups(id, group_id)
```

**Arguments**

- `id`  
  integer required. The ID of the resource that is shared.
- `group_id`  
  integer required. The ID of the group.

**Value**

An empty HTTP response

---

**groups_delete_shares_users**

*Revoke the permissions a user has on this object*

**Description**

Revoke the permissions a user has on this object

**Usage**

```python
groups_delete_shares_users(id, user_id)
```

**Arguments**

- `id`  
  integer required. The ID of the resource that is shared.
- `user_id`  
  integer required. The ID of the user.

**Value**

An empty HTTP response
groups_get

Get a Group

Description
Get a Group

Usage

groups_get(id)

Arguments

id integer required.

Value
A list containing the following elements:

- id integer, The ID of this group.
- name string, This group’s name.
- createdAt string, The date and time when this group was created.
- description string, The description of the group.
- slug string, The slug for this group.
- organizationId integer, The ID of the organization this group belongs to.
- organizationName string, The name of the organization this group belongs to.
- memberCount integer, The total number of members in this group.
- mustAgreeToEula boolean, Whether or not members of this group must sign the EULA.
- defaultOtpRequiredForLogin boolean, The two factor authentication requirement for this group.
- roleIds array, An array of ids of all the roles this group has.
- defaultTimeZone string, The default time zone of this group.
- defaultJobsLabel string, The default partition label for jobs of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
- defaultNotebooksLabel string, The default partition label for notebooks of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
defaultServicesLabel

string. The default partition label for services of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.

members

array. An array containing the following fields:

• id integer. The ID of this user.
• name string. This user’s name.
• username string. This user’s username.
• initials string. This user’s initials.
• online boolean. Whether this user is online.

---

groups_list  List Groups

Description

List Groups

Usage

groups_list(
     query = NULL,
     permission = NULL,
     include_members = NULL,
     limit = NULL,
     page_num = NULL,
     order = NULL,
     order_dir = NULL
)

Arguments

query  string optional. If specified, it will filter the groups returned. Infix matching is supported (e.g., "query=group" will return "group" and "group of people" and "my group" and "my group of people").

permission  string optional. A permissions string, one of "read", "write", or "manage". Lists only groups for which the current user has that permission.

include_members  boolean optional. Show members of the group.

limit  integer optional. Number of results to return. Defaults to 50. Maximum allowed is 1000.

page_num  integer optional. Page number of the results to return. Defaults to the first page, 1.

order  string optional. The field on which to order the result set. Defaults to name. Must be one of: name, created_at.

order_dir  string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.
Value

An array containing the following fields:

- `id` integer, The ID of this group.
- `name` string, This group’s name.
- `createdAt` string, The date and time when this group was created.
- `slug` string, The slug for this group.
- `organizationId` integer, The ID of the organization this group belongs to.
- `organizationName` string, The name of the organization this group belongs to.
- `memberCount` integer, The total number of members in this group.
- `members` array, An array containing the following fields:
  - `id` integer, The ID of this user.
  - `name` string, This user’s name.
  - `username` string, This user's username.
  - `initials` string, This user’s initials.
  - `online` boolean, Whether this user is online.

Description

List users and groups permissioned on this object

Usage

groups_list_shares(id)

Arguments

- `id` integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

- `readers` list, A list containing the following elements:
  - `users` array,
  - `groups` array,
- `writers` list, A list containing the following elements:
  - `users` array,
  - `groups` array,
owners

list, A list containing the following elements:

- users array,
- groups array.

totalUserShares

integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares

integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

groups_patch

Update some attributes of this Group

Description

Update some attributes of this Group

Usage

groups_patch(
    id,
    name = NULL,
    description = NULL,
    slug = NULL,
    organization_id = NULL,
    must_agree_to_eula = NULL,
    default_otp_required_for_login = NULL,
    role_ids = NULL,
    default_time_zone = NULL,
    default_jobs_label = NULL,
    default_notebooks_label = NULL,
    default_services_label = NULL
)

Arguments

id

type: integer required. The ID of this group.

name

type: string optional. This group’s name.

description

type: string optional. The description of the group.

slug

type: string optional. The slug for this group.

organization_id

type: integer optional. The ID of the organization this group belongs to.

must_agree_to_eula

type: boolean optional. Whether or not members of this group must sign the EULA.
default_otp_required_for_login
   boolean optional. The two factor authentication requirement for this group.
role_ids
   array optional. An array of ids of all the roles this group has.
default_time_zone
   string optional. The default time zone of this group.
default_jobs_label
   string optional. The default partition label for jobs of this group. Only available
   if custom_partitions feature flag is set. Do not use this attribute as it may break
   in the future.
default_notebooks_label
   string optional. The default partition label for notebooks of this group. Only
   available if custom_partitions feature flag is set. Do not use this attribute as it
   may break in the future.
default_services_label
   string optional. The default partition label for services of this group. Only
   available if custom_partitions feature flag is set. Do not use this attribute as it
   may break in the future.

Value
A list containing the following elements:
id
   integer, The ID of this group.
name
   string, This group’s name.
createdAt
   string, The date and time when this group was created.
description
   string, The description of the group.
slug
   string, The slug for this group.
organizationId
   integer, The ID of the organization this group belongs to.
organizationName
   string, The name of the organization this group belongs to.
memberCount
   integer, The total number of members in this group.
mustAgreeToEula
   boolean, Whether or not members of this group must sign the EULA.
defaultOtpRequiredForLogin
   boolean, The two factor authentication requirement for this group.
roleIds
   array, An array of ids of all the roles this group has.
defaultTimeZone
   string, The default time zone of this group.
defaultJobsLabel
   string, The default partition label for jobs of this group. Only available if cus-
   tom_partitions feature flag is set. Do not use this attribute as it may break in the
   future.
defaultNotebooksLabel
   string, The default partition label for notebooks of this group. Only available if cus-
   tom_partitions feature flag is set. Do not use this attribute as it may break in the
   future.
defaultServicesLabel
  string. The default partition label for services of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.

members
  array. An array containing the following fields:
    • id integer. The ID of this user.
    • name string. This user’s name.
    • username string. This user’s username.
    • initials string. This user’s initials.
    • online boolean. Whether this user is online.

---

Create a Group

Description

Create a Group

Usage

```javascript
groups_post(
  name,
  description = NULL,
  slug = NULL,
  organization_id = NULL,
  must_agree_to_eula = NULL,
  default_otp_required_for_login = NULL,
  role_ids = NULL,
  default_time_zone = NULL,
  default_jobs_label = NULL,
  default_notebooks_label = NULL,
  default_services_label = NULL
)
```

Arguments

- **name**
  string required. This group’s name.
- **description**
  string optional. The description of the group.
- **slug**
  string optional. The slug for this group.
- **organization_id**
  integer optional. The ID of the organization this group belongs to.
- **must_agree_to_eula**
  boolean optional. Whether or not members of this group must sign the EULA.
- **default_otp_required_for_login**
  boolean optional. The two factor authentication requirement for this group.
role_ids: array optional. An array of ids of all the roles this group has.

default_time_zone: string optional. The default time zone of this group.

default_jobs_label: string optional. The default partition label for jobs of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.

default_notebooks_label: string optional. The default partition label for notebooks of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.

default_services_label: string optional. The default partition label for services of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.

Value

A list containing the following elements:

- id: integer, The ID of this group.
- name: string, This group’s name.
- createdAt: string, The date and time when this group was created.
- description: string, The description of the group.
- slug: string, The slug for this group.
- organizationId: integer, The ID of the organization this group belongs to.
- organizationName: string, The name of the organization this group belongs to.
- memberCount: integer, The total number of members in this group.
- mustAgreeToEula: boolean, Whether or not members of this group must sign the EULA.
- defaultOtpRequiredForLogin: boolean, The two factor authentication requirement for this group.
- roleIds: array, An array of ids of all the roles this group has.
- defaultTimeZone: string, The default time zone of this group.
- defaultJobsLabel: string, The default partition label for jobs of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
- defaultNotebooksLabel: string, The default partition label for notebooks of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
defaultServicesLabel
    string. The default partition label for services of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.

members
    array, An array containing the following fields:
        • id integer, The ID of this user.
        • name string, This user’s name.
        • username string, This user’s username.
        • initials string, This user’s initials.
        • online boolean, Whether this user is online.

Description
    Replace all attributes of this Group

Usage
    groups_put(
        id,
        name,
        description = NULL,
        slug = NULL,
        organization_id = NULL,
        must_agree_to_eula = NULL,
        default_otp_required_for_login = NULL,
        role_ids = NULL,
        default_time_zone = NULL,
        default_jobs_label = NULL,
        default_notebooks_label = NULL,
        default_services_label = NULL
    )

Arguments
    id integer required. The ID of this group.
    name string required. This group’s name.
    description string optional. The description of the group.
    slug string optional. The slug for this group.
    organization_id integer optional. The ID of the organization this group belongs to.
    must_agree_to_eula boolean optional. Whether or not members of this group must sign the EULA.
default_otp_required_for_login
  boolean optional. The two factor authentication requirement for this group.
role_ids
  array optional. An array of ids of all the roles this group has.
default_time_zone
  string optional. The default time zone of this group.
default_jobs_label
  string optional. The default partition label for jobs of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
default_notebooks_label
  string optional. The default partition label for notebooks of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
default_services_label
  string optional. The default partition label for services of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.

Value
A list containing the following elements:
id
  integer, The ID of this group.
name
  string, This group’s name.
createdAt
  string, The date and time when this group was created.
description
  string, The description of the group.
slug
  string, The slug for this group.
organizationId
  integer, The ID of the organization this group belongs to.
organizationName
  string, The name of the organization this group belongs to.
memberCount
  integer, The total number of members in this group.
mustAgreeToEula
  boolean, Whether or not members of this group must sign the EULA.
defaultOtpRequiredForLogin
  boolean, The two factor authentication requirement for this group.
roleIds
  array, An array of ids of all the roles this group has.
defaultTimeZone
  string, The default time zone of this group.
defaultJobsLabel
  string, The default partition label for jobs of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
defaultNotebooksLabel
  string, The default partition label for notebooks of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
groups_put_members

defaultServicesLabel
string, The default partition label for services of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.

members array, An array containing the following fields:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

Description
Add a user to a group

Usage
groups_put_members(id, user_id)

Arguments
  id integer required. The ID of the group.
  user_id integer required. The ID of the user.

Value
A list containing the following elements:
  id integer, The ID of this group.
  name string, This group’s name.
  createdAt string, The date and time when this group was created.
  description string, The description of the group.
  slug string, The slug for this group.
  organizationId integer, The ID of the organization this group belongs to.
  organizationName string, The name of the organization this group belongs to.
  memberCount integer, The total number of members in this group.
  mustAgreeToEula boolean, Whether or not members of this group must sign the EULA.
  defaultOtpRequiredForLogin boolean, The two factor authentication requirement for this group.
groups_put_shares_groups

Description

Set the permissions groups has on this object

Usage

```
groups_put_shares_groups(
    id,  
group_ids,  
permission_level,  
share_email_body = NULL,  
send_shared_email = NULL
)
```

Arguments

- **id** integer required. The ID of the resource that is shared.
- **group_ids** array required. An array of one or more group IDs.
groups_put_shares_users

permission_level
  string required. Options are: "read", "write", or "manage".

share_email_body
  string optional. Custom body text for e-mail sent on a share.

send_shared_email
  boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

Description

Set the permissions users have on this object

Usage

```java
    groups_put_shares_users(
        id,
        user_ids,
        permission_level,
        share_email_body = NULL,
        send_shared_email = NULL
    )
```
Arguments

- **id**: integer required. The ID of the resource that is shared.
- **user_ids**: array required. An array of one or more user IDs.
- **permission_level**: string required. Options are: "read", "write", or "manage".
- **share_email_body**: string optional. Custom body text for e-mail sent on a share.
- **send_shared_email**: boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers**: list, A list containing the following elements:
  - users array,
  - groups array,
- **writers**: list, A list containing the following elements:
  - users array,
  - groups array,
- **owners**: list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares**: integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares**: integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**hist.civis_ml**

Plot a histogram of the predicted scores or probabilities for a CivisML object

Description

Plot a histogram of the predicted scores or probabilities for a CivisML object

Usage

```r
## S3 method for class 'civis_ml'
hist(x, name = NULL, ...)
```
**imports_delete_files_csv**

*Archive a CSV Import (deprecated, use archiving endpoints instead)*

**Arguments**

- **x**: `civis_ml` object
- **name**: name of the class (for multiclass output)
- **...**: unused.

**Value**

A `ggplot2` plot object is returned invisibly.

**Description**

Archive a CSV Import (deprecated, use archiving endpoints instead)

**Usage**

`imports_delete_files_csv(id)`

**Arguments**

- **id**: integer required.

**Value**

An empty HTTP response

**imports_delete_files_runs**

*Cancel a run*

**Description**

Cancel a run

**Usage**

`imports_delete_files_runs(id, run_id)`

**Arguments**

- **id**: integer required. The ID of the import.
- **run_id**: integer required. The ID of the run.
**Value**

An empty HTTP response

---

**imports_delete_projects**

*Remove an Import from a project*

**Description**

Remove an Import from a project

**Usage**

`imports_delete_projects(id, project_id)`

**Arguments**

- `id`  
  integer required. The ID of the Import.
- `project_id`  
  integer required. The ID of the project.

**Value**

An empty HTTP response

---

**imports_delete_shares_groups**

*Revoke the permissions a group has on this object*

**Description**

Revoke the permissions a group has on this object

**Usage**

`imports_delete_shares_groups(id, group_id)`

**Arguments**

- `id`  
  integer required. The ID of the resource that is shared.
- `group_id`  
  integer required. The ID of the group.

**Value**

An empty HTTP response
**imports_delete_shares_users**

*Revoke the permissions a user has on this object*

**Description**

Revoke the permissions a user has on this object

**Usage**

```python
imports_delete_shares_users(id, user_id)
```

**Arguments**

- `id` : integer required. The ID of the resource that is shared.
- `user_id` : integer required. The ID of the user.

**Value**

An empty HTTP response

---

**imports_delete_syncs**

*Archive a sync (deprecated, use the /archive endpoint instead)*

**Description**

Archive a sync (deprecated, use the /archive endpoint instead)

**Usage**

```python
imports_delete_syncs(id, sync_id)
```

**Arguments**

- `id` : integer required. The ID of the import to fetch.
- `sync_id` : integer required. The ID of the sync to fetch.

**Value**

An empty HTTP response
Get details about an import

**Usage**

imports_get(id)

**Arguments**

id integer required. The ID for the import.

**Value**

A list containing the following elements:

- **name** string, The name of the import.
- **syncType** string, The type of sync to perform; one of Dbsync, AutoImport, GdocImport, GdocExport, and Salesforce.
- **source** list, A list containing the following elements:
  - remoteHostId integer,
  - credentialId integer,
  - additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
  - name string,
- **destination** list, A list containing the following elements:
  - remoteHostId integer,
  - credentialId integer,
  - additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
  - name string,
- **schedule** list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

parentId integer, Parent id to trigger this import from
id integer, The ID for the import.
isOutbound boolean,
jobType string, The job type of this import.
syncs array, An array containing the following fields:
• id integer,
• source object,
• destination object,
• advancedOptions object,

state string,
createdAt string,
updatedAt string,

lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

user list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user's name.
• username string, This user's username.
• initials string, This user's initials.
• online boolean, Whether this user is online.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user's name.
• username string, This user's username.
• initials string, This user's initials.
• online boolean, Whether this user is online.

goingAt string, The time of the next scheduled run.

timeZone string, The time zone of this import.

hidden boolean, The hidden status of the item.
archived string, The archival status of the item(s).

---

**imports_get_batches**

*Get details about a batch import*

**Description**

Get details about a batch import

**Usage**

`imports_get_batches(id)`

**Arguments**

id integer required. The ID for the import.

**Value**

A list containing the following elements:

id integer, The ID for the import.
schema string, The destination schema name. This schema must already exist in Redshift.
table string, The destination table name, without the schema prefix. This table must already exist in Redshift.
remoteHostId integer, The ID of the destination database host.
state string, The state of the run; one of "queued", "running", "succeeded", "failed", or "cancelled".
startedAt string, The time the last run started at.
finishedAt string, The time the last run completed.
error string, The error returned by the run, if any.
hidden boolean, The hidden status of the item.
Get a CSV Import

**Usage**

```
imports_get_files_csv(id)
```

**Arguments**

- **id** integer required.

**Value**

A list containing the following elements:

- **id** integer, The ID for the import.
- **name** string, The name of the import.
- **source** list, A list containing the following elements:
  - **fileIds** array, The file ID(s) to import, if importing Civis file(s).
  - **storagePath** list, A list containing the following elements:
    - **storageHostId** integer, The ID of the source storage host.
    - **credentialId** integer, The ID of the credentials for the source storage host.
    - **filePaths** array, The file or directory path(s) within the bucket from which to import. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/" If specifying a directory path, the job will import every file found under that path. All files must have the same column layout and file format (e.g., compression, columnDelimiter, etc.).

- **destination** list, A list containing the following elements:
  - **schema** string, The destination schema name.
  - **table** string, The destination table name.
  - **remoteHostId** integer, The ID of the destination database host.
  - **credentialId** integer, The ID of the credentials for the destination database.
  - **primaryKeys** array, A list of column(s) which together uniquely identify a row in the destination table. These columns must not contain NULL values. If the import mode is "upsert", this field is required; see the Civis Helpdesk article on "Advanced CSV Imports via the Civis API" for more information.
  - **lastModifiedKeys** array, A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.
firstRowIsHeader

boolean, A boolean value indicating whether or not the first row of the source file is a header row.

columnDelimiter

string, The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".

escaped

boolean, A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.

compression

string, The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".

existingTableRows

string, The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".

maxErrors

integer, The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.

tableColumns

array, An array containing the following fields:

• name string, The column name.

• sqlType string, The SQL type of the column.

loosenTypes

boolean, If true, SQL types with precisions/lengths will have these values increased to accommodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.

execution

string, In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accommodate concurrent upserts to the same table and speedier non-upsert imports.

redshiftDestinationOptions

list, A list containing the following elements:

• diststyle string, The diststyle to use for the table. One of "even", "all", or "key".

• distkey string, Distkey for this table in Redshift

• sortkeys array, Sortkeys for this table in Redshift. Please provide a maximum of two.

hidden

boolean, The hidden status of the item.

---

**Description**

Check status of a run
Usage

`imports_get_files_runs(id, run_id)`

Arguments

- **id** integer required. The ID of the import.
- **run_id** integer required. The ID of the run.

Value

A list containing the following elements:

- **id** integer. The ID of the run.
- **importId** integer. The ID of the import.
- **state** string. The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested** boolean. True if run cancel requested, else false.
- **startedAt** string. The time the last run started at.
- **finishedAt** string. The time the last run completed.
- **error** string. The error, if any, returned by the run.

---

**List Imports**

**Description**

List Imports

**Usage**

```python
imports_list(
    type = NULL,
    author = NULL,
    destination = NULL,
    source = NULL,
    status = NULL,
    hidden = NULL,
    archived = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```
Arguments

type | string optional. If specified, return imports of these types. It accepts a comma-separated list, possible values are ‘AutoImport’, ‘DbSync’, ‘Salesforce’, ‘GdocImport’.

author | string optional. If specified, return imports from this author. It accepts a comma-separated list of author ids.

destination | string optional. If specified, returns imports with one of these destinations. It accepts a comma-separated list of remote host ids.

source | string optional. If specified, returns imports with one of these sources. It accepts a comma-separated list of remote host ids. ‘DbSync’ must be specified for ‘type’.

status | string optional. If specified, returns imports with one of these statuses. It accepts a comma-separated list, possible values are ‘running’, ‘failed’, ‘succeeded’, ‘idle’, ‘scheduled’.

hidden | boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

archived | string optional. The archival status of the requested item(s).

limit | integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.

page_num | integer optional. Page number of the results to return. Defaults to the first page, 1.

order | string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at, last_run.updated_at.

order_dir | string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

name | string, The name of the import.

syncType | string, The type of sync to perform; one of Dbsync, AutoImport, GdocImport, GdocExport, and Salesforce.

source | list, A list containing the following elements:
  • remoteHostId integer,
  • credentialId integer,
  • additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
  • name string,

destination | list, A list containing the following elements:
  • remoteHostId integer,
• credentialId integer,
• additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
• name string,

schedule list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

id integer, The ID for the import.

isOutbound boolean,

jobType string, The job type of this import.

state string,

createdAt string,

updatedAt string,

lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

user list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

timeZone string, The time zone of this import.

archived string, The archival status of the requested item(s).
Description

List batch imports

Usage

```r
imports_list_batches(
  hidden = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

Arguments

- `hidden`: boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
- `limit`: integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
- `page_num`: integer optional. Page number of the results to return. Defaults to the first page, 1.
- `order`: string optional. The field on which to order the result set. Defaults to `updated_at`. Must be one of: `updated_at`, `created_at`.
- `order_dir`: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- `id`: integer, The ID for the import.
- `schema`: string, The destination schema name. This schema must already exist in Redshift.
- `table`: string, The destination table name, without the schema prefix. This table must already exist in Redshift.
- `remoteHostId`: integer, The ID of the destination database host.
- `state`: string, The state of the run; one of "queued", "running", "succeeded", "failed", or "cancelled".
- `startedAt`: string, The time the last run started at.
- `finishedAt`: string, The time the last run completed.
- `error`: string, The error returned by the run, if any.
**Description**

List runs for the given import

**Usage**

```python
imports_list_files_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

- `id` integer required. The ID of the import.
- `limit` integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
- `page_num` integer optional. Page number of the results to return. Defaults to the first page, 1.
- `order` string optional. The field on which to order the result set. Defaults to `id`. Must be one of: `id`.
- `order_dir` string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

- `id` integer, The ID of the run.
- `importId` integer, The ID of the import.
- `state` string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- `isCancelRequested` boolean, True if run cancel requested, else false.
- `startedAt` string, The time the last run started at.
- `finishedAt` string, The time the last run completed.
- `error` string, The error, if any, returned by the run.
imports_list_files_runs_logs

*Get the logs for a run*

**Description**

Get the logs for a run

**Usage**

```r
ingress_list_files_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

**Arguments**

- **id** integer required. The ID of the import.
- **run_id** integer required. The ID of the run.
- **last_id** integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- **limit** integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

- **id** integer, The ID of the log.
- **createdAt** string, The time the log was created.
- **message** string, The log message.
- **level** string, The level of the log. One of unknown, fatal, error, warn, info, debug.

---

imports_list_projects

*List the projects an Import belongs to*

**Description**

List the projects an Import belongs to

**Usage**

```r
ingress_list_projects(id, hidden = NULL)
```
imports_list_runs

Arguments

id integer required. The ID of the Import.
hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value

An array containing the following fields:

id integer, The ID for this project.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
name string, The name of this project.
description string, A description of the project.
users array, An array containing the following fields:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

autoShare boolean,
createdAt string,
updatedAt string,
archived string, The archival status of the requested item(s).

Get the run history of this import

Description

Get the run history of this import

Usage

imports_list_runs(id)

Arguments

id integer required.
Value

An array containing the following fields:

- **id**: integer,
- **state**: string,
- **createdAt**: string, The time that the run was queued.
- **startedAt**: string, The time that the run started.
- **finishedAt**: string, The time that the run completed.
- **error**: string, The error message for this run, if present.

---

**imports_list_runs_logs**

*Get the logs for a run*

---

**Description**

Get the logs for a run

**Usage**

`imports_list_runs_logs(id, run_id, last_id = NULL, limit = NULL)`

**Arguments**

- **id**: integer required. The ID of the import.
- **run_id**: integer required. The ID of the run.
- **last_id**: integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by `createdAt`.
- **limit**: integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

- **id**: integer, The ID of the log.
- **createdAt**: string, The time the log was created.
- **message**: string, The log message.
- **level**: string, The level of the log. One of unknown,fatal,error, warn, info, debug.
**Description**

List users and groups permissioned on this object

**Usage**

`imports_list_shares(id)`

**Arguments**

- **id**: integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

- **readers**: list, A list containing the following elements:
  - users array,
  - groups array,

- **writers**: list, A list containing the following elements:
  - users array,
  - groups array,

- **owners**: list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares**: integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares**: integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
Description

Update some attributes of this CSV Import

Usage

```r
imports_patch_files_csv(
  id,
  name = NULL,
  source = NULL,
  destination = NULL,
  first_row_is_header = NULL,
  column_delimiter = NULL,
  escaped = NULL,
  compression = NULL,
  existing_table_rows = NULL,
  max_errors = NULL,
  table_columns = NULL,
  loosen_types = NULL,
  execution = NULL,
  redshift_destination_options = NULL
)
```

Arguments

- `id` integer required. The ID for the import.
- `name` string optional. The name of the import.
- `source` list optional. A list containing the following elements:
  - fileIds array, The file ID(s) to import, if importing Civis file(s).
  - storagePath list. A list containing the following elements:
    - storageHostId integer, The ID of the source storage host.
    - credentialId integer, The ID of the credentials for the source storage host.
    - filePaths array, The file or directory path(s) within the bucket from which to import. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/"If specifying a directory path, the job will import every file found under that path. All files must have the same column layout and file format (e.g., compression, columnDelimiter, etc.).
- `destination` list optional. A list containing the following elements:
  - schema string, The destination schema name.
  - table string, The destination table name.
• remoteHostId integer. The ID of the destination database host.
• credentialId integer. The ID of the credentials for the destination database.
• primaryKeys array. A list of column(s) which together uniquely identify a row in the destination table. These columns must not contain NULL values. If the import mode is "upsert", this field is required; see the Civis Helpdesk article on "Advanced CSV Imports via the Civis API" for more information.
• lastModifiedKeys array. A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.

first_row_is_header
boolean optional. A boolean value indicating whether or not the first row of the source file is a header row.

column_delimiter
string optional. The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".

escaped
boolean optional. A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.

compression
string optional. The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".

existing_table_rows
string optional. The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".

max_errors
integer optional. The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.

table_columns
array optional. An array containing the following fields:

• name string. The column name.
• sqlType string. The SQL type of the column.

loosen_types
boolean optional. If true, SQL types with precisions/lengths will have these values increased to accommodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.

execution
string optional. In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accommodate concurrent upserts to the same table and speedier non-upsert imports.

redshift_destination_options
list optional. A list containing the following elements:

• diststyle string. The diststyle to use for the table. One of "even", "all", or "key".
• distkey string. Distkey for this table in Redshift
• sortkeys array. Sortkeys for this table in Redshift. Please provide a maximum of two.
Value

A list containing the following elements:

- **id** integer, The ID for the import.
- **name** string, The name of the import.
- **source** list, A list containing the following elements:
  - fileIds array, The file ID(s) to import, if importing Civis file(s).
  - storagePath list . A list containing the following elements:
    - credentialId integer, The ID of the credentials for the source storage host.
    - filePaths array, The file or directory path(s) within the bucket from
      which to import. E.g. the file_path for "s3://mybucket/files/all/" would
      be "/files/all/"If specifying a directory path, the job will import every
      file found under that path. All files must have the same column layout
      and file format (e.g., compression, columnDelimiter, etc.).
- **destination** list, A list containing the following elements:
  - schema string, The destination schema name.
  - table string, The destination table name.
  - remoteHostId integer, The ID of the destination database host.
  - credentialId integer, The ID of the credentials for the destination database.
  - primaryKeys array, A list of column(s) which together uniquely identify a
    row in the destination table. These columns must not contain NULL values.
    If the import mode is "upsert", this field is required; see the Civis Helpdesk
    article on "Advanced CSV Imports via the Civis API" for more information.
  - lastModifiedKeys array, A list of the columns indicating a record has been
    updated. If the destination table does not exist, and the import mode is "up-
    sert", this field is required.
- **firstRowIsHeader** boolean, A boolean value indicating whether or not the first row of the source
  file is a header row.
- **columnDelimiter** string, The column delimiter for the file. Valid arguments are "comma", "tab",
  and "pipe". Defaults to "comma".
- **escaped** boolean, A boolean value indicating whether or not the source file has quotes
  escaped with a backslash. Defaults to false.
- **compression** string, The type of compression of the source file. Valid arguments are "gzip"
  and "none". Defaults to "none".
- **existingTableRows** string, The behavior if a destination table with the requested name already exists.
  One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".
- **maxErrors** integer, The maximum number of rows with errors to ignore before failing. This
  option is not supported for Postgres databases.
- **tableColumns** array, An array containing the following fields:
Create a new import configuration

Usage

```python
imports_post(
    name,
    sync_type,
    is_outbound,
    source = NULL,
    destination = NULL,
    schedule = NULL,
    notifications = NULL,
    parent_id = NULL,
    next_run_at = NULL,
    time_zone = NULL,
    hidden = NULL
)
```
**Arguments**

- **name** string required. The name of the import.
- **sync_type** string required. The type of sync to perform; one of Dbsync, AutoImport, GdocImport, GdocExport, and Salesforce.
- **is_outbound** boolean required.
- **source** list optional. A list containing the following elements:
  - remoteHostId integer,
  - credentialId integer,
  - additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syns, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
- **destination** list optional. A list containing the following elements:
  - remoteHostId integer,
  - credentialId integer,
  - additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syns, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
- **schedule** list optional. A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
- **notifications** list optional. A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string, Name from which success emails are sent; defaults to “Civis.”
  - successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  - failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  - stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

parent_id integer optional. Parent id to trigger this import from
next_run_at string optional. The time of the next scheduled run.
time_zone string optional. The time zone of this import.
hidden boolean optional. The hidden status of the item.

Value

A list containing the following elements:

name string, The name of the import.
syncType string, The type of sync to perform; one of Dbsync, AutoImport, GdocImport, GdocExport, and Salesforce.

source list, A list containing the following elements:
• remoteHostId integer,
• credentialId integer,
• additionalCredentials array, Array that holds additional credentials used for specific imports. For Salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
• name string,

destination list, A list containing the following elements:
• remoteHostId integer,
• credentialId integer,
• additionalCredentials array, Array that holds additional credentials used for specific imports. For Salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
• name string,

schedule list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• **successEmailBody** string, Custom body text for success e-mail, written in Markdown.
• **successEmailAddresses** array, Addresses to notify by e-mail when the job completes successfully.
• **successEmailFromName** string, Name from which success emails are sent; defaults to "Civis."
• **successEmailReplyTo** string, Address for replies to success emails; defaults to the author of the job.
• **failureEmailAddresses** array, Addresses to notify by e-mail when the job fails.
• **stallWarningMinutes** integer, Stall warning emails will be sent after this amount of minutes.
• **successOn** boolean, If success email notifications are on.
• **failureOn** boolean, If failure email notifications are on.

**parentId** integer, Parent id to trigger this import from

**id** integer, The ID for the import.

**isOutbound** boolean,

**jobType** string, The job type of this import.

**syncs** array, An array containing the following fields:
• **id** integer,
• **source** object,
• **destination** object,
• **advancedOptions** object,

**state** string,

**createdAt** string,

**updatedAt** string,

**lastRun** list, A list containing the following elements:
• **id** integer,
• **state** string,
• **createdAt** string, The time that the run was queued.
• **startedAt** string, The time that the run started.
• **finishedAt** string, The time that the run completed.
• **error** string, The error message for this run, if present.

**user** list, A list containing the following elements:
• **id** integer, The ID of this user.
• **name** string, This user’s name.
• **username** string, This user's username.
• **initials** string, This user’s initials.
• **online** boolean, Whether this user is online.

**runningAs** list, A list containing the following elements:
• **id** integer, The ID of this user.
imports_post_batches

- name string. This user’s name.
- username string. This user’s username.
- initials string. This user’s initials.
- online boolean. Whether this user is online.

nextRunAt string. The time of the next scheduled run.
timeZone string. The time zone of this import.
hidden boolean. The hidden status of the item.
archived string. The archival status of the requested item(s).

---

imports_post_batches  Upload multiple files to Civis

Description

Upload multiple files to Civis

Usage

```python
imports_post_batches(
    file_ids,
    schema,
    table,
    remote_host_id,
    credential_id,
    column_delimiter = NULL,
    first_row_is_header = NULL,
    compression = NULL,
    hidden = NULL
)
```

Arguments

- `file_ids` array required. The file IDs for the import.
- `schema` string required. The destination schema name. This schema must already exist in Redshift.
- `table` string required. The destination table name, without the schema prefix. This table must already exist in Redshift.
- `remote_host_id` integer required. The ID of the destination database host.
- `credential_id` integer required. The ID of the credentials to be used when performing the database import.
- `column_delimiter` string optional. The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". If unspecified, defaults to "comma".
first_row_is_header
  boolean optional. A boolean value indicating whether or not the first row is a
  header row. If unspecified, defaults to false.
compression
  string optional. The type of compression. Valid arguments are "gzip", "zip", and
  "none". If unspecified, defaults to "gzip".
hidden
  boolean optional. The hidden status of the item.

Value
A list containing the following elements:

id
  integer, The ID for the import.
schema
  string, The destination schema name. This schema must already exist in Red-
  shift.
table
  string, The destination table name, without the schema prefix. This table must
  already exist in Redshift.
remoteHostId
  integer, The ID of the destination database host.
state
  string, The state of the run; one of "queued", "running", "succeeded", "failed",
  or "cancelled".
startedAt
  string, The time the last run started at.
finishedAt
  string, The time the last run completed.
error
  string, The error returned by the run, if any.
hidden
  boolean, The hidden status of the item.

imports_post_cancel    Cancel a run

Description
Cancel a run

Usage
imports_post_cancel(id)

Arguments
id
  integer required. The ID of the job.

Value
A list containing the following elements:

id
  integer, The ID of the run.
state
  string, The state of the run, one of 'queued', 'running' or 'cancelled'.
isCancelRequested
  boolean, True if run cancel requested, else false.
**Description**

Initiate an import of a tabular file into the platform

**Usage**

```python
imports_post_files(
    schema,  # string required. The schema of the destination table.
    name,    # string required. The name of the destination table.
    remote_host_id,  # integer required. The id of the destination database host.
    credential_id,  # integer required. The id of the credentials to be used when performing the database import.
    max_errors = NULL,  # integer optional. The maximum number of rows with errors to remove from the import before failing.
    existing_table_rows = NULL,  # string optional. The behaviour if a table with the requested name already exists. One of "fail", "truncate", "append", or "drop". Defaults to "fail".
    diststyle = NULL,  # string optional. The diststyle to use for the table. One of "even", "all", or "key".
    distkey = NULL,  # string optional. The column to use as the distkey for the table.
    sortkey1 = NULL,  # string optional. The column to use as the sort key for the table.
    sortkey2 = NULL,  # string optional. The second column in a compound sortkey for the table.
    column_delimiter = NULL,  # string optional. The column delimiter to use for the table.
    first_row_is_header = NULL,  # string optional. Whether to assume the first row as the header.
    multipart = NULL,  # string optional. Whether to use multipart uploads for the file.
    escaped = NULL,  # string optional. Whether to escape special characters.
    hidden = NULL
)
```

**Arguments**

- `schema` string required. The schema of the destination table.
- `name` string required. The name of the destination table.
- `remote_host_id` integer required. The id of the destination database host.
- `credential_id` integer required. The id of the credentials to be used when performing the database import.
- `max_errors` integer optional. The maximum number of rows with errors to remove from the import before failing.
- `existing_table_rows` string optional. The behaviour if a table with the requested name already exists. One of "fail", "truncate", "append", or "drop". Defaults to "fail".
- `diststyle` string optional. The diststyle to use for the table. One of "even", "all", or "key".
- `distkey` string optional. The column to use as the distkey for the table.
- `sortkey1` string optional. The column to use as the sort key for the table.
- `sortkey2` string optional. The second column in a compound sortkey for the table.
- `column_delimiter` string optional. The column delimiter to use for the table.
- `first_row_is_header` string optional. Whether to assume the first row as the header.
- `multipart` string optional. Whether to use multipart uploads for the file.
- `escaped` string optional. Whether to escape special characters.
- `hidden` string optional. Whether to hide the table on the platform.
column_delimiter

string optional. The column delimiter of the file. If column_delimiter is null or omitted, it will be auto-detected. Valid arguments are "comma", "tab", and "pipe".

first_row_is_header

boolean optional. A boolean value indicating whether or not the first row is a header row. If first_row_is_header is null or omitted, it will be auto-detected.

multipart

boolean optional. If true, the upload URI will require a 'multipart/form-data' POST request. Defaults to false.

escaped

boolean optional. If true, escape quotes with a backslash; otherwise, escape quotes by double-quoting. Defaults to false.

hidden

boolean optional. The hidden status of the item.

Value

A list containing the following elements:

id
integer, The id of the import.

uploadUri
string, The URI which may be used to upload a tabular file for import. You must use this URI to upload the file you wish imported and then inform the Civis API when your upload is complete using the URI given by the run_uri field of this response.

runUri
string, The URI to POST to once the file upload is complete. After uploading the file using the URI given in the uploadUri attribute of the response, POST to this URI to initiate the import of your uploaded file into the platform.

uploadFields
list, If multipart was set to true, these fields should be included in the multipart upload.

imports_post_files_csv

Create a CSV Import

Description

Create a CSV Import

Usage

imports_post_files_csv(
    source,
    destination,
    first_row_is_header,
    name = NULL,
    column_delimiter = NULL,
    escaped = NULL,
    compression = NULL,
imports_post_files_csv

```python
    existing_table_rows = NULL,
    max_errors = NULL,
    table_columns = NULL,
    loosen_types = NULL,
    execution = NULL,
    redshift_destination_options = NULL,
    hidden = NULL
)

Arguments

source list required. A list containing the following elements:
    • fileIds array, The file ID(s) to import, if importing Civis file(s).
    • storagePath list. A list containing the following elements:
        – storageHostId integer, The ID of the source storage host.
        – credentialId integer, The ID of the credentials for the source storage host.
        – filePaths array, The file or directory path(s) within the bucket from which to import. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/" If specifying a directory path, the job will import every file found under that path. All files must have the same column layout and file format (e.g., compression, columnDelimiter, etc.).

destination list required. A list containing the following elements:
    • schema string, The destination schema name.
    • table string, The destination table name.
    • remoteHostId integer, The ID of the destination database host.
    • credentialId integer, The ID of the credentials for the destination database.
    • primaryKeys array, A list of column(s) which together uniquely identify a row in the destination table. These columns must not contain NULL values. If the import mode is "upsert", this field is required; see the Civis Helpdesk article on "Advanced CSV Imports via the Civis API" for more information.
    • lastModifiedKeys array, A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.

first_row_is_header

boolean required. A boolean value indicating whether or not the first row of the source file is a header row.

name string optional. The name of the import.

column_delimiter

string optional. The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".

escaped boolean optional. A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.

compression string optional. The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".
```
existing_table_rows

string optional. The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".

max_errors

integer optional. The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.

table_columns

array optional. An array containing the following fields:
- name string, The column name.
- sqlType string, The SQL type of the column.

loosen_types

boolean optional. If true, SQL types with precisions/lengths will have these values increased to accommodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.

execution

string optional. In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accommodate concurrent upserts to the same table and speedier non-upsert imports.

redshift_destination_options

list optional. A list containing the following elements:
- diststyle string, The diststyle to use for the table. One of "even", "all", or "key".
- distkey string, Distkey for this table in Redshift
- sortkeys array, Sortkeys for this table in Redshift. Please provide a maximum of two.

hidden

boolean optional. The hidden status of the item.

Value

A list containing the following elements:

id

integer, The ID for the import.

name

string, The name of the import.

source

list, A list containing the following elements:
- fileIds array, The file ID(s) to import, if importing Civis file(s).
- storagePath list. A list containing the following elements:
  - storageHostId integer, The ID of the source storage host.
  - credentialId integer, The ID of the credentials for the source storage host.
  - filePaths array, The file or directory path(s) within the bucket from which to import. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/" If specifying a directory path, the job will import every file found under that path. All files must have the same column layout and file format (e.g., compression, columnDelimiter, etc.).

destination

list, A list containing the following elements:
imports_post_files_csv

- schema string, The destination schema name.
- table string, The destination table name.
- remoteHostId integer, The ID of the destination database host.
- credentialId integer, The ID of the credentials for the destination database.
- primaryKeys array, A list of column(s) which together uniquely identify a row in the destination table. These columns must not contain NULL values. If the import mode is "upsert", this field is required; see the Civis Helpdesk article on "Advanced CSV Imports via the Civis API" for more information.
- lastModifiedKeys array, A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.

firstRowIsHeader

boolean, A boolean value indicating whether or not the first row of the source file is a header row.

columnDelimiter

string, The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".

escaped

boolean, A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.

compression

string, The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".

existingTableRows

string, The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".

maxErrors

integer, The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.

tableColumns

array, An array containing the following fields:
- name string, The column name.
- sqlType string, The SQL type of the column.

loosenTypes

boolean, If true, SQL types with precisions/lengths will have these values increased to accommodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.

execution

string, In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accommodate concurrent upserts to the same table and speedier non-upsert imports.

redshiftDestinationOptions

list, A list containing the following elements:
- diststyle string, The diststyle to use for the table. One of "even", "all", or "key".
- distkey string, Distkey for this table in Redshift
- sortkeys array, Sortkeys for this table in Redshift. Please provide a maximum of two.

hidden

boolean, The hidden status of the item.
Start a run

Description
Start a run

Usage
imports_post_files_runs(id)

Arguments
id integer required. The ID of the import.

Value
A list containing the following elements:

id integer, The ID of the run.
importId integer, The ID of the import.
state string, The state of the run, one of ‘queued’ ‘running’ ‘succeeded’ ‘failed’ or ‘cancelled’.
isCancelRequested boolean, True if run cancel requested, else false.
startedAt string, The time the last run started at.
finishedAt string, The time the last run completed.
error string, The error, if any, returned by the run.

Run an import

Description
Run an import

Usage
imports_post_runs(id)

Arguments
id integer required. The ID of the import to run.
Value

A list containing the following elements:

runId integer, The ID of the new run triggered.

Description

Create a sync

Usage

imports_post_syncs(id, source, destination, advanced_options = NULL)

Arguments

id integer required.

source list required. A list containing the following elements:

• path string, The path of the dataset to sync from; for a database source, schema.tablename. If you are doing a Google Sheet export, this can be blank. This is a legacy parameter, it is recommended you use one of the following: databaseTable, file, googleWorksheet, salesforce
• databaseTable list. A list containing the following elements:
  – schema string, The database schema name.
  – table string, The database table name.
  – useWithoutSchema boolean, This attribute is no longer available; defaults to false but cannot be used.
• file list.
• googleWorksheet list. A list containing the following elements:
  – spreadsheet string, The spreadsheet document name.
  – spreadsheetId string, The spreadsheet document id.
  – worksheet string, The worksheet tab name.
  – worksheetId integer, The worksheet tab id.
• salesforce list. A list containing the following elements:
  – objectName string, The Salesforce object name.

destination list required. A list containing the following elements:

• path string, The schema.tablename to sync to. If you are doing a Google Sheet export, this is the spreadsheet and sheet name separated by a period. i.e. if you have a spreadsheet named "MySpreadsheet" and a sheet called "Sheet1" this field would be "MySpreadsheet.Sheet1". This is a legacy parameter, it is recommended you use one of the following: databaseTable, googleWorksheet
• databaseTable list. A list containing the following elements:
  – schema string, The database schema name.
  – table string, The database table name.
  – useWithoutSchema boolean, This attribute is no longer available; defaults to false but cannot be used.
• googleWorksheet list. A list containing the following elements:
  – spreadsheet string, The spreadsheet document name.
  – spreadsheetId string, The spreadsheet document id.
  – worksheet string, The worksheet tab name.
  – worksheetId integer, The worksheet tab id.

advanced_options
list optional. A list containing the following elements:
  • maxErrors integer,
  • existingTableRows string,
  • diststyle string,
  • distkey string,
  • sortkey1 string,
  • sortkey2 string,
  • columnDelimiter string,
  • columnOverrides object, Hash used for overriding auto-detected names and types, with keys being the index of the column being overridden.
  • escaped boolean, If true, escape quotes with a backslash; otherwise, escape quotes by double-quoting. Defaults to false.
  • identityColumn string,
  • rowChunkSize integer,
  • wipeDestinationTable boolean,
  • truncateLongLines boolean,
  • invalidCharReplacement string,
  • verifyTableRowCounts boolean,
  • partitionColumnName string, This parameter is deprecated
  • partitionSchemaName string, This parameter is deprecated
  • partitionTableName string, This parameter is deprecated
  • partitionTablePartitionColumnMinName string, This parameter is deprecated
  • partitionTablePartitionColumnMaxName string, This parameter is deprecated
  • lastModifiedColumn string,
  • mysqlCatalogMatchesSchema boolean, This attribute is no longer available; defaults to true but cannot be used.
  • chunkingMethod string, The method used to break the data into smaller chunks for transfer. The value can be set to sorted_by_identity_columns or if not set the chunking method will be chosen automatically.
  • firstRowIsHeader boolean,
• exportAction string. The kind of export action you want to have the export execute. Set to "newsprsht" if you want a new worksheet inside a new spreadsheet. Set to "newwksht" if you want a new worksheet inside an existing spreadsheet. Set to "updatewksht" if you want to overwrite an existing worksheet inside an existing spreadsheet. Set to "appendwksht" if you want to append to the end of an existing worksheet inside an existing spreadsheet. Default is set to "newsprsht"

• sqlQuery string. If you are doing a Google Sheet export, this is your SQL query.

• contactLists string,

• soqlQuery string,

• includeDeletedRecords boolean,

**Value**

A list containing the following elements:

| id | integer, |
| source | list, A list containing the following elements: |
| id | integer, The ID of the table or file, if available. |
| path | string, The path of the dataset to sync from; for a database source, schema.tablename. If you are doing a Google Sheet export, this can be blank. This is a legacy parameter, it is recommended you use one of the following: databaseTable, file, googleWorksheet, salesforce |
| databaseTable list . A list containing the following elements: |
| – schema | string, The database schema name. |
| – table | string, The database table name. |
| – useWithoutSchema boolean, This attribute is no longer available; defaults to false but cannot be used. |
| file list . A list containing the following elements: |
| – id | integer, The file id. |
| googleWorksheet list . A list containing the following elements: |
| – spreadsheet | string, The spreadsheet document name. |
| – spreadsheetId string, The spreadsheet document id. |
| – worksheet | string, The worksheet tab name. |
| – worksheetId integer, The worksheet tab id. |
| salesforce list . A list containing the following elements: |
| – objectName string, The Salesforce object name. |

| destination | list, A list containing the following elements: |
| path | string, The schema.tablename to sync to. If you are doing a Google Sheet export, this is the spreadsheet and sheet name separated by a period. i.e. if you have a spreadsheet named "MySpreadsheet" and a sheet called "Sheet1" this field would be "MySpreadsheet.Sheet1". This is a legacy parameter, it is recommended you use one of the following: databaseTable, googleWorksheet |
• databaseTable list. A list containing the following elements:
  – schema string, The database schema name.
  – table string, The database table name.
  – useWithoutSchema boolean, This attribute is no longer available; defaults to false but cannot be used.
• googleWorksheet list. A list containing the following elements:
  – spreadsheet string, The spreadsheet document name.
  – spreadsheetId string, The spreadsheet document id.
  – worksheet string, The worksheet tab name.
  – worksheetId integer, The worksheet tab id.

advancedOptions list, A list containing the following elements:
• maxErrors integer,
• existingTableRows string,
• diststyle string,
• distkey string,
• sortkey1 string,
• sortkey2 string,
• columnDelimiter string,
• columnOverrides object, Hash used for overriding auto-detected names and types, with keys being the index of the column being overridden.
• escaped boolean, If true, escape quotes with a backslash; otherwise, escape quotes by double-quoting. Defaults to false.
• identityColumn string,
• rowChunkSize integer,
• wipeDestinationTable boolean,
• truncateLongLines boolean,
• invalidCharReplacement string,
• verifyTableRowCounts boolean,
• partitionColumnName string, This parameter is deprecated
• partitionSchemaName string, This parameter is deprecated
• partitionTableName string, This parameter is deprecated
• partitionTablePartitionColumnMinName string, This parameter is deprecated
• partitionTablePartitionColumnMaxName string, This parameter is deprecated
• lastModifiedColumn string,
• mysqlCatalogMatchesSchema boolean, This attribute is no longer available; defaults to true but cannot be used.
• chunkingMethod string, The method used to break the data into smaller chunks for transfer. The value can be set to sorted_by_identity_columns or if not set the chunking method will be chosen automatically.
• firstRowIsHeader boolean,
• exportAction string. The kind of export action you want to have the ex-
port execute. Set to "newsprsht" if you want a new worksheet inside a
new spreadsheet. Set to "newwksht" if you want a new worksheet inside
an existing spreadsheet. Set to "updatewksht" if you want to overwrite an
existing worksheet inside an existing spreadsheet. Set to "appendwksht" if
you want to append to the end of an existing worksheet inside an existing
spreadsheet. Default is set to "newsprsht"
• sqlQuery string. If you are doing a Google Sheet export, this is your SQL
query.
• contactLists string,
• soqlQuery string,
• includeDeletedRecords boolean,

---

**imports_put**  
*Update an import*

**Description**

Update an import

**Usage**

```python
imports_put(
    id,
    name,
    sync_type,
    is_outbound,
    source = NULL,
    destination = NULL,
    schedule = NULL,
    notifications = NULL,
    parent_id = NULL,
    next_run_at = NULL,
    time_zone = NULL
)
```

**Arguments**

- **id** integer required. The ID for the import.
- **name** string required. The name of the import.
- **sync_type** string required. The type of sync to perform; one of Dbsync, AutoImport,
  GdocImport, GdocExport, and Salesforce.
- **is_outbound** boolean required.
- **source** list optional. A list containing the following elements:
  - remoteHostId integer,
• credentialId integer,
• additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.

destination list optional. A list containing the following elements:
• remoteHostId integer,
• credentialId integer,
• additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.

schedule list optional. A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list optional. A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

parent_id integer optional. Parent id to trigger this import from

next_run_at string optional. The time of the next scheduled run.

time_zone string optional. The time zone of this import.
Value

A list containing the following elements:

- **name** string, The name of the import.
- **syncType** string, The type of sync to perform; one of Dbsync, AutoImport, GdocImport, GdocExport, and Salesforce.
- **source** list, A list containing the following elements:
  - remoteHostId integer,
  - credentialId integer,
  - additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
  - name string,
- **destination** list, A list containing the following elements:
  - remoteHostId integer,
  - credentialId integer,
  - additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
  - name string,
- **schedule** list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
- **notifications** list, A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string, Name from which success emails are sent; defaults to "Civis,"
  - successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  - failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

parentId integer, Parent id to trigger this import from

id integer, The ID for the import.

isOutbound boolean,

jobType string, The job type of this import.

syncs array, An array containing the following fields:
  - id integer,
  - source object,
  - destination object,
  - advancedOptions object,

state string,

createdAt string,

updatedAt string,

lastRun list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.

user list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.

runningAs list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this import.

hidden boolean, The hidden status of the item.

archived string, The archival status of the requested item(s).
import put-archive

Update the archive status of this object

**Description**
Update the archive status of this object

**Usage**

`import put-archive(id, status)`

**Arguments**

- **id** integer required. The ID of the object.
- **status** boolean required. The desired archived status of the object.

**Value**
A list containing the following elements:

- **name** string, The name of the import.
- **syncType** string, The type of sync to perform; one of Dbsync, AutoImport, GdocImport, GdocExport, and Salesforce.
- **source** list, A list containing the following elements:
  - remoteHostId integer,
  - credentialId integer,
  - additionalCredentials array, Array that holds additional credentials used for specific imports. For Salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
  - name string.
- **destination** list, A list containing the following elements:
  - remoteHostId integer,
  - credentialId integer,
  - additionalCredentials array, Array that holds additional credentials used for specific imports. For Salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
  - name string.
- **schedule** list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

parentId integer, Parent id to trigger this import from
id integer, The ID for the import.
isOutbound boolean,
jobType string, The job type of this import.
syncs array, An array containing the following fields:
• id integer,
• source object,
• destination object,
• advancedOptions object,
state string,
createdAt string,
updatedAt string,
lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.
user list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this import.

hidden boolean, The hidden status of the item.

archived string, The archival status of the requested item(s).

---

**imports_put_files_csv**  
*Replace all attributes of this CSV Import*

---

**Description**

Replace all attributes of this CSV Import

**Usage**

```python
imports_put_files_csv(
    id,
    source,
    destination,
    first_row_is_header,
    name = NULL,
    column_delimiter = NULL,
    escaped = NULL,
    compression = NULL,
    existing_table_rows = NULL,
    max_errors = NULL,
    table_columns = NULL,
    loosen_types = NULL,
    execution = NULL,
    redshift_destination_options = NULL
)
```
Arguments

id integer required. The ID for the import.

source list required. A list containing the following elements:
  • fileIds array. The file ID(s) to import, if importing Civis file(s).
  • storagePath list. A list containing the following elements:
    – storageHostId integer. The ID of the source storage host.
    – credentialId integer. The ID of the credentials for the source storage host.
    – filePaths array. The file or directory path(s) within the bucket from which to import. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/". If specifying a directory path, the job will import every file found under that path. All files must have the same column layout and file format (e.g., compression, columnDelimiter, etc.).

destination list required. A list containing the following elements:
  • schema string. The destination schema name.
  • table string. The destination table name.
  • remoteHostId integer. The ID of the destination database host.
  • credentialId integer. The ID of the credentials for the destination database.
  • primaryKeys array. A list of column(s) which together uniquely identify a row in the destination table. These columns must not contain NULL values. If the import mode is "upsert", this field is required; see the Civis Helpdesk article on "Advanced CSV Imports via the Civis API" for more information.
  • lastModifiedKeys array. A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.

first_row_is_header boolean required. A boolean value indicating whether or not the first row of the source file is a header row.

name string optional. The name of the import.

column_delimiter string optional. The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".

escaped boolean optional. A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.

compression string optional. The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".

existing_table_rows string optional. The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".

max_errors integer optional. The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.

table_columns array optional. An array containing the following fields:
• name string, The column name.
• sqlType string, The SQL type of the column.

loosen_types boolean optional. If true, SQL types with precisions/lengths will have these values increased to accommodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.

execution string optional. In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accommodate concurrent upserts to the same table and speedier non-upsert imports.

redshift_destination_options list optional. A list containing the following elements:
• diststyle string, The diststyle to use for the table. One of "even", "all", or "key".
• distkey string, Distkey for this table in Redshift
• sortkeys array, Sortkeys for this table in Redshift. Please provide a maximum of two.

Value
A list containing the following elements:

id integer, The ID for the import.
name string, The name of the import.
source list, A list containing the following elements:
• fileIds array, The file ID(s) to import, if importing Civis file(s).
• storagePath list . A list containing the following elements:
  – storageHostId integer, The ID of the source storage host.
  – credentialId integer, The ID of the credentials for the source storage host.
  – filePaths array, The file or directory path(s) within the bucket from which to import. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/". If specifying a directory path, the job will import every file found under that path. All files must have the same column layout and file format (e.g., compression, columnDelimiter, etc.).

destination list, A list containing the following elements:
• schema string, The destination schema name.
• table string, The destination table name.
• remoteHostId integer, The ID of the destination database host.
• credentialId integer, The ID of the credentials for the destination database.
• primaryKeys array, A list of column(s) which together uniquely identify a row in the destination table. These columns must not contain NULL values. If the import mode is "upsert", this field is required; see the Civis Helpdesk article on "Advanced CSV Imports via the Civis API" for more information.
- lastModifiedKeys array. A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.

firstRowIsHeader
boolean, A boolean value indicating whether or not the first row of the source file is a header row.

columnDelimiter
string, The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".

escaped
boolean, A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.

compression
string, The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".

existingTableRows
string, The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".

maxErrors
integer, The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.

tableColumns
array, An array containing the following fields:
- name string. The column name.
- sqlType string. The SQL type of the column.

loosenTypes
boolean, If true, SQL types with precisions/lengths will have these values increased to accommodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.

execution
string, In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accommodate concurrent upserts to the same table and speedier non-upsert imports.

redshiftDestinationOptions
list, A list containing the following elements:
- diststyle string. The diststyle to use for the table. One of "even", "all", or "key".
- distkey string. Distkey for this table in Redshift
- sortkeys array. Sortkeys for this table in Redshift. Please provide a maximum of two.

hidden
boolean, The hidden status of the item.
**imports_put_files_csv_archive**

*Update the archive status of this object*

**Description**

Update the archive status of this object

**Usage**

```python
imports_put_files_csv_archive(id, status)
```

**Arguments**

- `id` integer required. The ID of the object.
- `status` boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

- `id` integer, The ID for the import.
- `name` string, The name of the import.
- `source` list, A list containing the following elements:
  - `fileIds` array, The file ID(s) to import, if importing Civis file(s).
  - `storagePath` list. A list containing the following elements:
    - `storageHostId` integer, The ID of the source storage host.
    - `credentialId` integer, The ID of the credentials for the source storage host.
    - `filePaths` array, The file or directory path(s) within the bucket from which to import. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/" If specifying a directory path, the job will import every file found under that path. All files must have the same column layout and file format (e.g., compression, columnDelimiter, etc.).
- `destination` list, A list containing the following elements:
  - `schema` string, The destination schema name.
  - `table` string, The destination table name.
  - `remoteHostId` integer, The ID of the destination database host.
  - `credentialId` integer, The ID of the credentials for the destination database.
  - `primaryKeys` array, A list of column(s) which together uniquely identify a row in the destination table. These columns must not contain NULL values. If the import mode is "upsert", this field is required; see the Civis Helpdesk article on "Advanced CSV Imports via the Civis API" for more information.
• lastModifiedKeys array. A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.

firstRowIsHeader
boolean, A boolean value indicating whether or not the first row of the source file is a header row.

columnDelimiter
string, The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".

escaped
boolean, A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.

compression
string, The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".

existingTableRows
string, The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".

maxErrors
integer, The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.

tableColumns
array, An array containing the following fields:
  • name string, The column name.
  • sqlType string, The SQL type of the column.

loosenTypes
boolean, If true, SQL types with precisions/lengths will have these values increased to accommodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.

execution
string, In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accommodate concurrent upserts to the same table and speedier non-upsert imports.

redshiftDestinationOptions
list, A list containing the following elements:
  • diststyle string, The diststyle to use for the table. One of "even", "all", or "key".
  • distkey string, Distkey for this table in Redshift
  • sortkeys array, Sortkeys for this table in Redshift. Please provide a maximum of two.

hidden
boolean, The hidden status of the item.
add an import to a project

Usage

```
imports_put_projects(id, project_id)
```

Arguments

- `id`: integer required. The ID of the Import.
- `project_id`: integer required. The ID of the project.

Value

An empty HTTP response

set the permissions groups has on this object

Usage

```
imports_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
imports_put_shares_users

Arguments

id          integer required. The ID of the resource that is shared.
group_ids   array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers    list, A list containing the following elements:
    • users array,
    • groups array,
writers     list, A list containing the following elements:
    • users array,
    • groups array,
owners      list, A list containing the following elements:
    • users array,
    • groups array,
totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

Description

Set the permissions users have on this object

Usage

imports_put_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
Argument

- **id**: integer required. The ID of the resource that is shared.
- **user_ids**: array required. An array of one or more user IDs.
- **permission_level**: string required. Options are: "read", "write", or "manage".
- **share_email_body**: string optional. Custom body text for e-mail sent on a share.
- **send_shared_email**: boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers**: list, A list containing the following elements:
  - **users array**,
  - **groups array**,
- **writers**: list, A list containing the following elements:
  - **users array**,
  - **groups array**,
- **owners**: list, A list containing the following elements:
  - **users array**,
  - **groups array**,
- **totalUserShares**: integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares**: integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**imports_put_syncs**  
*Update a sync*

**Description**

Update a sync

**Usage**

```python
imports_put_syncs(id, sync_id, source, destination, advanced_options = NULL)
```
Arguments

id  integer required. The ID of the import to fetch.
sync_id  integer required. The ID of the sync to fetch.
source  list required. A list containing the following elements:
  • path string, The path of the dataset to sync from; for a database source, schema.tablename. If you are doing a Google Sheet export, this can be blank. This is a legacy parameter, it is recommended you use one of the following: databaseTable, file, googleWorksheet, salesforce
  • databaseTable list. A list containing the following elements:
    – schema string, The database schema name.
    – table string, The database table name.
    – useWithoutSchema boolean, This attribute is no longer available; defaults to false but cannot be used.
  • file list.
  • googleWorksheet list. A list containing the following elements:
    – spreadsheet string, The spreadsheet document name.
    – spreadsheetId string, The spreadsheet document id.
    – worksheet string, The worksheet tab name.
    – worksheetId integer, The worksheet tab id.
  • salesforce list. A list containing the following elements:
    – objectName string, The Salesforce object name.
destination  list required. A list containing the following elements:
  • path string, The schema.tablename to sync to. If you are doing a Google Sheet export, this is the spreadsheet and sheet name separated by a period. i.e. if you have a spreadsheet named "MySpreadsheet" and a sheet called "Sheet1" this field would be "MySpreadsheet.Sheet1". This is a legacy parameter, it is recommended you use one of the following: databaseTable, googleWorksheet
  • databaseTable list. A list containing the following elements:
    – schema string, The database schema name.
    – table string, The database table name.
    – useWithoutSchema boolean, This attribute is no longer available; defaults to false but cannot be used.
  • googleWorksheet list. A list containing the following elements:
    – spreadsheet string, The spreadsheet document name.
    – spreadsheetId string, The spreadsheet document id.
    – worksheet string, The worksheet tab name.
    – worksheetId integer, The worksheet tab id.
advanced_options  list optional. A list containing the following elements:
  • maxErrors integer,
  • existingTableRows string,
imports_put_syncs

- diststyle string,
- distkey string,
- sortkey1 string,
- sortkey2 string,
- columnDelimiter string,
- columnOverrides object, Hash used for overriding auto-detected names and types, with keys being the index of the column being overridden.
- escaped boolean, If true, escape quotes with a backslash; otherwise, escape quotes by double-quoting. Defaults to false.
- identityColumn string,
- rowChunkSize integer,
- wipeDestinationTable boolean,
- truncateLongLines boolean,
- invalidCharReplacement string,
- verifyTableRowCounts boolean,
- partitionColumnName string, This parameter is deprecated
- partitionSchemaName string, This parameter is deprecated
- partitionTableName string, This parameter is deprecated
- partitionTablePartitionColumnMinName string, This parameter is deprecated
- partitionTablePartitionColumnMaxName string, This parameter is deprecated
- lastModifiedColumn string,
- mysqlCatalogMatchesSchema boolean, This attribute is no longer available; defaults to true but cannot be used.
- chunkingMethod string, The method used to break the data into smaller chunks for transfer. The value can be set to sorted_by_identity_columns or if not set the chunking method will be chosen automatically.
- firstRowIsHeader boolean,
- exportAction string, The kind of export action you want to have the export execute. Set to "newsprsht" if you want a new worksheet inside a new spreadsheet. Set to "newwksht" if you want a new worksheet inside an existing spreadsheet. Set to "updatewksht" if you want to overwrite an existing worksheet inside an existing spreadsheet. Set to "appendwksht" if you want to append to the end of an existing worksheet inside an existing spreadsheet. Default is set to "newsprsht"
- sqlQuery string, If you are doing a Google Sheet export, this is your SQL query.
- contactLists string,
- soqlQuery string,
- includeDeletedRecords boolean,

Value

A list containing the following elements:
id integer,
source list, A list containing the following elements:
  • id integer, The ID of the table or file, if available.
  • path string, The path of the dataset to sync from; for a database source, schema.tablename. If you are doing a Google Sheet export, this can be blank. This is a legacy parameter, it is recommended you use one of the following: databaseTable, file, googleWorksheet, salesforce
  • databaseTable list . A list containing the following elements:
    – schema string, The database schema name.
    – table string, The database table name.
    – useWithoutSchema boolean, This attribute is no longer available; defaults to false but cannot be used.
  • file list . A list containing the following elements:
    – id integer, The file id.
  • googleWorksheet list . A list containing the following elements:
    – spreadsheet string, The spreadsheet document name.
    – spreadsheetId string, The spreadsheet document id.
    – worksheet string, The worksheet tab name.
    – worksheetId integer, The worksheet tab id.
  • salesforce list . A list containing the following elements:
    – objectName string, The Salesforce object name.

destination list, A list containing the following elements:
  • path string, The schema.tablename to sync to. If you are doing a Google Sheet export, this is the spreadsheet and sheet name separated by a period. i.e. if you have a spreadsheet named "MySpreadsheet" and a sheet called "Sheet1" this field would be "MySpreadsheet.Sheet1". This is a legacy parameter, it is recommended you use one of the following: databaseTable, googleWorksheet
  • databaseTable list . A list containing the following elements:
    – schema string, The database schema name.
    – table string, The database table name.
    – useWithoutSchema boolean, This attribute is no longer available; defaults to false but cannot be used.
  • googleWorksheet list . A list containing the following elements:
    – spreadsheet string, The spreadsheet document name.
    – spreadsheetId string, The spreadsheet document id.
    – worksheet string, The worksheet tab name.
    – worksheetId integer, The worksheet tab id.

advancedOptions list, A list containing the following elements:
  • maxErrors integer,
  • existingTableRows string,
  • diststyle string,
• distkey string,
• sortkey1 string,
• sortkey2 string,
• columnDelimiter string,
• column Overrides object, Hash used for overriding auto-detected names and
types, with keys being the index of the column being overridden.
• escaped boolean, If true, escape quotes with a backslash; otherwise, escape
quotes by double-quoting. Defaults to false.
• identityColumn string,
• rowChunkSize integer,
• wipeDestinationTable boolean,
• truncateLongLines boolean,
• invalidCharReplacement string,
• verifyTableRowCounts boolean,
• partitionColumnName string, This parameter is deprecated
• partitionSchemaName string, This parameter is deprecated
• partitionTableName string, This parameter is deprecated
• partitionTablePartitionColumnMinName string, This parameter is depre-
cated
• partitionTablePartitionColumnMaxName string, This parameter is depre-
cated
• lastModifiedColumn string,
• mysqlCatalogMatchesSchema boolean, This attribute is no longer avail-
able; defaults to true but cannot be used.
• chunkingMethod string, The method used to break the data into smaller
chunks for transfer. The value can be set to sorted_by_identity_columns or
if not set the chunking method will be chosen automatically.
• firstRowIsHeader boolean,
• exportAction string, The kind of export action you want to have the ex-
port execute. Set to "newsprsht" if you want a new worksheet inside a
new spreadsheet. Set to "newwksht" if you want a new worksheet inside
an existing spreadsheet. Set to "updatewksht" if you want to overwrite an
existing worksheet inside an existing spreadsheet. Set to "appendwksht" if
you want to append to the end of an existing worksheet inside an existing
spreadsheet. Default is set to "newsprsht"
• sqlQuery string, If you are doing a Google Sheet export, this is your SQL
query.
• contactLists string,
• soqlQuery string,
• includeDeletedRecords boolean,
**Description**

Update the archive status of this sync

**Usage**

`imports_put_syncs_archive(id, sync_id, status = NULL)`

**Arguments**

- **id** integer required. The ID of the import to fetch.
- **sync_id** integer required. The ID of the sync to fetch.
- **status** boolean optional. The desired archived status of the sync.

**Value**

A list containing the following elements:

- **id** integer,
- **source** list, A list containing the following elements:
  - **id** integer, The ID of the table or file, if available.
  - **path** string, The path of the dataset to sync from; for a database source, `schema.tablename`. If you are doing a Google Sheet export, this can be blank. This is a legacy parameter, it is recommended you use one of the following: `databaseTable`, `file`, `googleWorksheet`, `salesforce`
  - **databaseTable** list. A list containing the following elements:
    - **schema** string, The database schema name.
    - **table** string, The database table name.
    - **useWithoutSchema** boolean, This attribute is no longer available; defaults to false but cannot be used.
  - **file** list. A list containing the following elements:
    - **id** integer, The file id.
  - **googleWorksheet** list. A list containing the following elements:
    - **spreadsheet** string, The spreadsheet document name.
    - **spreadsheetId** string, The spreadsheet document id.
    - **worksheet** string, The worksheet tab name.
    - **worksheetId** integer, The worksheet tab id.
  - **salesforce** list. A list containing the following elements:
    - **objectName** string, The Salesforce object name.
- **destination** list, A list containing the following elements:
• path string, The schema.tablename to sync to. If you are doing a Google Sheet export, this is the spreadsheet and sheet name separated by a period. i.e. if you have a spreadsheet named "MySpreadsheet" and a sheet called "Sheet1" this field would be "MySpreadsheet.Sheet1". This is a legacy parameter, it is recommended you use one of the following: databaseTable, googleWorksheet

• databaseTable list. A list containing the following elements:
  – schema string, The database schema name.
  – table string, The database table name.
  – useWithoutSchema boolean, This attribute is no longer available; defaults to false but cannot be used.

• googleWorksheet list. A list containing the following elements:
  – spreadsheet string, The spreadsheet document name.
  – spreadsheetId string, The spreadsheet document id.
  – worksheet string, The worksheet tab name.
  – worksheetId integer, The worksheet tab id.

advancedOptions list, A list containing the following elements:
• maxErrors integer,
• existingTableRows string,
• diststyle string,
• distkey string,
• sortkey1 string,
• sortkey2 string,
• columnDelimiter string,
• columnOverRides object, Hash used for overriding auto-detected names and types, with keys being the index of the column being overridden.
• escaped boolean, If true, escape quotes with a backslash; otherwise, escape quotes by double-quoting. Defaults to false.
• identityColumn string,
• rowChunkSize integer,
• wipeDestinationTable boolean,
• truncateLongLines boolean,
• invalidCharReplacement string,
• verifyTableRowCounts boolean,
• partitionColumnName string, This parameter is deprecated
• partitionSchemaName string, This parameter is deprecated
• partitionTableName string, This parameter is deprecated
• partitionTablePartitionColumnMinName string, This parameter is deprecated
• partitionTablePartitionColumnMaxName string, This parameter is deprecated
• lastModifiedColumn string,
jobs_delete_projects

Remove a Job from a project

Description

Remove a Job from a project

Usage

`jobs_delete_projects(id, project_id)`

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>integer required. The ID of the Job.</td>
</tr>
<tr>
<td>project_id</td>
<td>integer</td>
<td>integer required. The ID of the project.</td>
</tr>
</tbody>
</table>

Value

An empty HTTP response
jobs_delete_runs

**Description**
Cancel a run

**Usage**
jobs_delete_runs(id, run_id)

**Arguments**
- **id** integer required. The ID of the Job.
- **run_id** integer required. The ID of the Run.

**Value**
An empty HTTP response

---

jobs_delete_shares_groups

**Description**
Revoke the permissions a group has on this object

**Usage**
jobs_delete_shares_groups(id, group_id)

**Arguments**
- **id** integer required. The ID of the resource that is shared.
- **group_id** integer required. The ID of the group.

**Value**
An empty HTTP response
**jobs_delete_shares_users**

*Revoke the permissions a user has on this object*

**Description**
Revoke the permissions a user has on this object

**Usage**
```
jobs_delete_shares_users(id, user_id)
```

**Arguments**
- **id** integer required. The ID of the resource that is shared.
- **user_id** integer required. The ID of the user.

**Value**
An empty HTTP response

---

**jobs_get**

*Show basic job info*

**Description**
Show basic job info

**Usage**
```
jobs_get(id)
```

**Arguments**
- **id** integer required. The ID for this job.

**Value**
A list containing the following elements:
- **id** integer,
- **name** string,
- **type** string,
- **fromTemplateId** integer,
- **state** string, Whether the job is idle, queued, running, cancelled, or failed.
jobs_get_runs

- **createdAt**: string,
- **updatedAt**: string,
- **runs**: array. An array containing the following fields:
  - **id**: integer,
  - **state**: string,
  - **createdAt**: string, The time that the run was queued.
  - **startedAt**: string, The time that the run started.
  - **finishedAt**: string, The time that the run completed.
  - **error**: string, The error message for this run, if present.
- **lastRun**: list. A list containing the following elements:
  - **id**: integer,
  - **state**: string,
  - **createdAt**: string, The time that the run was queued.
  - **startedAt**: string, The time that the run started.
  - **finishedAt**: string, The time that the run completed.
  - **error**: string, The error message for this run, if present.
- **hidden**: boolean, The hidden status of the item.
- **archived**: string, The archival status of the requested item(s).
- **successEmailSubject**: string,
- **successEmailBody**: string,
- **runningAsUser**: string,
- **runByUser**: string,
- **schedule**: list. A list containing the following elements:
  - **scheduled**: boolean, If the item is scheduled.
  - **scheduledDays**: array, Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours**: array, Hours of the day it is scheduled on.
  - **scheduledMinutes**: array, Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour**: integer, Alternative to scheduled minutes, number of times to run per hour.

---

**Description**

Check status of a job

**Usage**

`jobs_get_runs(id, run_id)`
Arguments

id  integer required. The ID of the Job.
run_id  integer required. The ID of the Run.

Value

A list containing the following elements:

id  integer,
state  string,
createdAt  string, The time that the run was queued.
startedAt  string, The time that the run started.
finishedAt  string, The time that the run completed.
error  string, The error message for this run, if present.

jobs_list  List Jobs

Description

List Jobs

Usage

jobs_list(
    state = NULL,
    type = NULL,
    q = NULL,
    permission = NULL,
    scheduled = NULL,
    hidden = NULL,
    archived = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments

state  string optional. The job’s state. One or more of queued, running, succeeded, failed, and cancelled. Specify multiple values as a comma-separated list (e.g., "A,B").
type  string optional. The job’s type. Specify multiple values as a comma-separated list (e.g., "A,B").
Jobs List

- **q**
  - string optional. Query string to search on the id, name, and job type.

- **permission**
  - string optional. A permissions string, one of "read", "write", or "manage". Lists only jobs for which the current user has that permission.

- **scheduled**
  - boolean optional. If the item is scheduled.

- **hidden**
  - boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

- **archived**
  - string optional. The archival status of the requested item(s).

- **limit**
  - integer optional. Number of results to return. Defaults to its maximum of 50.

- **page_num**
  - integer optional. Page number of the results to return. Defaults to the first page, 1.

- **order**
  - string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at.

- **order_dir**
  - string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

- **id**
  - integer,

- **name**
  - string,

- **type**
  - string,

- **fromTemplateId**
  - integer,

- **state**
  - string, Whether the job is idle, queued, running, cancelled, or failed.

- **createdAt**
  - string,

- **updatedAt**
  - string,

- **lastRun**
  - list, A list containing the following elements:
    - id integer,
    - state string,
    - createdAt string, The time that the run was queued.
    - startedAt string, The time that the run started.
    - finishedAt string, The time that the run completed.
    - error string, The error message for this run, if present.

- **archived**
  - string, The archival status of the requested item(s).

- **schedule**
  - list, A list containing the following elements:
    - scheduled boolean, If the item is scheduled.
    - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
    - scheduledHours array, Hours of the day it is scheduled on.
    - scheduledMinutes array, Minutes of the day it is scheduled on.
    - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
jobs_list_children  
Show nested tree of children that this job triggers

Description
Show nested tree of children that this job triggers

Usage
jobs_list_children(id)

Arguments
id  integer required. The ID for this job.

Value
A list containing the following elements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
</tr>
<tr>
<td>name</td>
<td>string</td>
</tr>
<tr>
<td>type</td>
<td>string</td>
</tr>
<tr>
<td>fromTemplateId</td>
<td>integer</td>
</tr>
<tr>
<td>state</td>
<td>string</td>
</tr>
<tr>
<td>createdAt</td>
<td>string</td>
</tr>
<tr>
<td>updatedAt</td>
<td>string</td>
</tr>
<tr>
<td>runs</td>
<td>array, An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>• id integer,</td>
</tr>
<tr>
<td></td>
<td>• state string,</td>
</tr>
<tr>
<td></td>
<td>• createdAt string, The time that the run was queued.</td>
</tr>
<tr>
<td></td>
<td>• startedAt string, The time that the run started.</td>
</tr>
<tr>
<td></td>
<td>• finishedAt string, The time that the run completed.</td>
</tr>
<tr>
<td></td>
<td>• error string, The error message for this run, if present.</td>
</tr>
<tr>
<td>lastRun</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id integer,</td>
</tr>
<tr>
<td></td>
<td>• state string,</td>
</tr>
<tr>
<td></td>
<td>• createdAt string, The time that the run was queued.</td>
</tr>
<tr>
<td></td>
<td>• startedAt string, The time that the run started.</td>
</tr>
<tr>
<td></td>
<td>• finishedAt string, The time that the run completed.</td>
</tr>
<tr>
<td></td>
<td>• error string, The error message for this run, if present.</td>
</tr>
<tr>
<td>children</td>
<td>array,</td>
</tr>
</tbody>
</table>
Description

Show chain of parents as a list that this job triggers from

Usage

jobs_list_parents(id)

Arguments

id integer required. The ID for this job.

Value

A list containing the following elements:

- id integer,
- name string,
- type string,
- fromTemplateId integer,
- state string, Whether the job is idle, queued, running, cancelled, or failed.
- createdAt string,
- updatedAt string,
- runs array, An array containing the following fields:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.
- lastRun list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.
- hidden boolean, The hidden status of the item.
- archived string, The archival status of the requested item(s).
successEmailSubject
    string,
successEmailBody
    string,
runningAsUser
    string,
runByUser
    string,
schedule
    list, A list containing the following elements:
    • scheduled boolean, If the item is scheduled.
    • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
    • scheduledHours array, Hours of the day it is scheduled on.
    • scheduledMinutes array, Minutes of the day it is scheduled on.
    • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

jobs_list_projects

Description
List the projects a Job belongs to

Usage
jobs_list_projects(id, hidden = NULL)

Arguments
id
    integer required. The ID of the Job.
hidden
    boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value
An array containing the following fields:
id
    integer, The ID for this project.
author
    list, A list containing the following elements:
    • id integer, The ID of this user.
    • name string, This user's name.
    • username string, This user's username.
    • initials string, This user's initials.
    • online boolean, Whether this user is online.
namedescription
    string, The name of this project.
description
    string, A description of the project.
users array, An array containing the following fields:

- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

autoShare boolean,
createdAt string,
updatedAt string,
archived string, The archival status of the requested item(s).

jobs_list_runs

List runs for the given job

Description

List runs for the given job

Usage

```plaintext
jobs_list_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

- **id** integer required. The ID for this job.
- **limit** integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.
Value

An array containing the following fields:

- **id** integer,
- **state** string,
- **createdAt** string, The time that the run was queued.
- **startedAt** string, The time that the run started.
- **finishedAt** string, The time that the run completed.
- **error** string, The error message for this run, if present.

---

**jobs_list_runs_logs**  
*Get the logs for a run*

Description

Get the logs for a run

Usage

```
jobs_list_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

Arguments

- **id** integer required. The ID of the job.
- **run_id** integer required. The ID of the run.
- **last_id** integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- **limit** integer optional. The maximum number of log messages to return. Default of 10000.

Value

An array containing the following fields:

- **id** integer, The ID of the log.
- **createdAt** string, The time the log was created.
- **message** string, The log message.
- **level** string, The level of the log. One of unknown,fatal,error,warning,info,debug.
jobs_list_runs_outputs

List the outputs for a run

Description

List the outputs for a run

Usage

jobs_list_runs_outputs(
  id,
  run_id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)

Arguments

id          integer required. The ID of the job.
run_id      integer required. The ID of the run.
limit       integer optional. Number of results to return. Defaults to its maximum of 50.
page_num    integer optional. Page number of the results to return. Defaults to the first page, 1.
order       string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
order_dir   string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

objectType string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
objectId    integer, The ID of the output.
name        string, The name of the output.
link        string, The hypermedia link to the output.
value       string,
jobs_list_shares  

List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

jobs_list_shares(id)

Arguments

id  integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

readers  list, A list containing the following elements:
  • users array,
  • groups array,

writers  list, A list containing the following elements:
  • users array,
  • groups array,

owners  list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
jobs_list_workflows  

List the workflows a job belongs to

Description

List the workflows a job belongs to

Usage

jobs_list_workflows(id, archived = NULL)

Arguments

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required.</td>
</tr>
<tr>
<td>archived</td>
<td>string optional. The archival status of the requested item(s).</td>
</tr>
</tbody>
</table>

Value

An array containing the following fields:

- id integer, The ID for this workflow.
- name string, The name of this workflow.
- description string, A description of the workflow.
- valid boolean, The validity of the workflow definition.
- fileId string, The file id for the s3 file containing the workflow configuration.
- user list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- state string, The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.
- schedule list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
- allowConcurrentExecutions boolean, Whether the workflow can execute when already running.
- timeZone string, The time zone of this workflow.
nextExecutionAt
  string, The time of the next scheduled execution.
archived
  string, The archival status of the requested item(s).
createdAt
updatedAt

---

jobs_post_runs Run a job

Description
Run a job

Usage
jobs_post_runs(id)

Arguments
id integer required. The ID for this job.

Value
A list containing the following elements:

id integer,
state string,
createdAt string, The time that the run was queued.
startedAt string, The time that the run started.
finishedAt string, The time that the run completed.
error string, The error message for this run, if present.
jobs_post_trigger_email

Generate and retrieve trigger email address

Description

Generate and retrieve trigger email address

Usage

jobs_post_trigger_email(id)

Arguments

id

integer required. The ID for this job.

Value

A list containing the following elements:

triggerEmail

string, Email address which may be used to trigger this job to run.

jobs_put_archive

Update the archive status of this object

Description

Update the archive status of this object

Usage

jobs_put_archive(id, status)

Arguments

id

integer required. The ID of the object.

status

boolean required. The desired archived status of the object.
Value

A list containing the following elements:

- id integer,
- name string,
- type string,
- fromTemplateId integer,
- state string, Whether the job is idle, queued, running, cancelled, or failed.
- createdAt string,
- updatedAt string,
- runs array, An array containing the following fields:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.
- lastRun list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.
- hidden boolean, The hidden status of the item.
- archived string, The archival status of the requested item(s).
- successEmailSubject string,
- successEmailBody string,
- runningAsUser string,
- runByUser string,
- schedule list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
### jobs_put_projects

**Add a Job to a project**

**Description**

Add a Job to a project

**Usage**

```
jobs_put_projects(id, project_id)
```

**Arguments**

- `id` integer required. The ID of the Job.
- `project_id` integer required. The ID of the project.

**Value**

An empty HTTP response

---

### jobs_put_shares_groups

**Set the permissions groups has on this object**

**Description**

Set the permissions groups has on this object

**Usage**

```
jobs_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
Arguments

id         integer required. The ID of the resource that is shared.
group_ids  array required. An array of one or more group IDs.
permission_level  string required. Options are: "read", "write", or "manage".
share_email_body  string optional. Custom body text for e-mail sent on a share.
send_shared_email  boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers  list, A list containing the following elements:
• users array,
• groups array,

writers  list, A list containing the following elements:
• users array,
• groups array,

owners  list, A list containing the following elements:
• users array,
• groups array,

totalUserShares  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

Description

Set the permissions users have on this object

Usage

jobs_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
Arguments

- **id**: integer required. The ID of the resource that is shared.
- **user_ids**: array required. An array of one or more user IDs.
- **permission_level**: string required. Options are: "read", "write", or "manage".
- **share_email_body**: string optional. Custom body text for e-mail sent on a share.
- **send_shared_email**: boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers**: list, A list containing the following elements:
  - users array,
  - groups array,
- **writers**: list, A list containing the following elements:
  - users array,
  - groups array,
- **owners**: list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares**: integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares**: integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

`json_values_delete_shares_groups`

*Revoke the permissions a group has on this object*

---

Description

Revoke the permissions a group has on this object

Usage

`json_values_delete_shares_groups(id, group_id)`
### json_values_get

**Arguments**
- **id** integer required. The ID of the resource that is shared.
- **group_id** integer required. The ID of the group.

**Value**
An empty HTTP response

### json_values_delete_shares_users

*Revoke the permissions a user has on this object*

**Description**
Revoke the permissions a user has on this object

**Usage**
```
json_values_delete_shares_users(id, user_id)
```

**Arguments**
- **id** integer required. The ID of the resource that is shared.
- **user_id** integer required. The ID of the user.

**Value**
An empty HTTP response

### json_values_get

*Get details about a JSON Value*

**Description**
Get details about a JSON Value

**Usage**
```
json_values_get(id)
```

**Arguments**
- **id** integer required. The ID of the JSON Value.
**Value**

A list containing the following elements:

- **id** integer, The ID of the JSON Value.
- **name** string, The name of the JSON Value.
- **value** string, The deserialized JSON value.

---

**json_values_list_shares**

*List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

`json_values_list_shares(id)`

**Arguments**

- **id** integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
json_values_patch  Update some attributes of this JSON Value

Description
Update some attributes of this JSON Value

Usage
json_values_patch(id, name = NULL, value_str = NULL)

Arguments
<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the JSON Value.</td>
</tr>
<tr>
<td>name</td>
<td>string optional. The name of the JSON Value.</td>
</tr>
<tr>
<td>value_str</td>
<td>string optional. The JSON value to store. Should be a serialized JSON string. Limited to 1000000 bytes.</td>
</tr>
</tbody>
</table>

Value
A list containing the following elements:
<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The ID of the JSON Value.</td>
</tr>
<tr>
<td>name</td>
<td>string, The name of the JSON Value.</td>
</tr>
<tr>
<td>value</td>
<td>string, The deserialized JSON value.</td>
</tr>
</tbody>
</table>

json_values_post  Create a JSON Value

Description
Create a JSON Value

Usage
json_values_post(value_str, name = NULL)

Arguments
<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>value_str</td>
<td>string required. The JSON value to store. Should be a serialized JSON string. Limited to 1000000 bytes.</td>
</tr>
<tr>
<td>name</td>
<td>string optional. The name of the JSON Value.</td>
</tr>
</tbody>
</table>
json_values_put_shares_groups

Value
A list containing the following elements:

id integer, The ID of the JSON Value.
name string, The name of the JSON Value.
value string, The deserialized JSON value.

json_values_put_shares_groups
Set the permissions groups has on this object

Description
Set the permissions groups has on this object

Usage
json_values_put_shares_groups(
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)

Arguments
id integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value
A list containing the following elements:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
• groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

Set the permissions users have on this object

**Description**

Set the permissions users have on this object

**Usage**

```python
json_values_put_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

- `id` integer required. The ID of the resource that is shared.
- `user_ids` array required. An array of one or more user IDs.
- `permission_level` string required. Options are: "read", "write", or "manage".
- `share_email_body` string optional. Custom body text for e-mail sent on a share.
- `send_shared_email` boolean optional. Send email to the recipients of a share.
match_targets_delete_shares_groups

Value

A list containing the following elements:

readers

list, A list containing the following elements:

• users array,
• groups array,

writers

list, A list containing the following elements:

• users array,
• groups array,

owners

list, A list containing the following elements:

• users array,
• groups array,

totalUserShares

integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares

integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

match_targets_delete_shares_groups

Revoke the permissions a group has on this object

Description

Revoke the permissions a group has on this object

Usage

match_targets_delete_shares_groups(id, group_id)

Arguments

id integer required. The ID of the resource that is shared.
group_id integer required. The ID of the group.

Value

An empty HTTP response
match_targets_delete_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
match_targets_delete_shares_users(id, user_id)

Arguments
- id: integer required. The ID of the resource that is shared.
- user_id: integer required. The ID of the user.

Value
An empty HTTP response

match_targets_get

Show Match Target info

Description
Show Match Target info

Usage
match_targets_get(id)

Arguments
- id: integer required. The ID of the match target

Value
A list containing the following elements:
- id: integer, The ID of the match target
- name: string, The name of the match target
- targetFileName: string, The name of the target file
- createdAt: string,
- updatedAt: string,
- archived: boolean, Whether the match target has been archived.
match_targets_list  List match targets

**Description**

List match targets

**Usage**

```python
match_targets_list()
```

**Value**

An array containing the following fields:

- **id** integer, The ID of the match target
- **name** string, The name of the match target
- **targetFileName** string, The name of the target file
- **createdAt** string,
- **updatedAt** string,
- **archived** boolean, Whether the match target has been archived.

---

match_targets_list_shares  List users and groups permissioned on this object

**Description**

List users and groups permissioned on this object

**Usage**

```python
match_targets_list_shares(id)
```

**Arguments**

- **id** integer required. The ID of the resource that is shared.
Value
An array containing the following fields:

**readers** list, A list containing the following elements:
- users array,
- groups array,

**writers** list, A list containing the following elements:
- users array,
- groups array,

**owners** list, A list containing the following elements:
- users array,
- groups array,

**totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

**totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**match_targets_patch** Update a match target

**Description**
Update a match target

**Usage**

```
match_targets_patch(id, name = NULL, target_file_name = NULL, archived = NULL)
```

**Arguments**

- **id** integer required. The ID of the match target
- **name** string optional. The name of the match target
- **target_file_name** string optional. The name of the target file
- **archived** boolean optional. Whether the match target has been archived.
Value

A list containing the following elements:

- **id** integer, The ID of the match target
- **name** string, The name of the match target
- **targetFileName** string, The name of the target file
- **createdAt** string,
- **updatedAt** string,
- **archived** boolean, Whether the match target has been archived.

---

**match_targets_post**  
*Create a new match target*

---

Description

Create a new match target

Usage

`match_targets_post(name, target_file_name = NULL, archived = NULL)`

Arguments

- **name** string required. The name of the match target
- **target_file_name** string optional. The name of the target file
- **archived** boolean optional. Whether the match target has been archived.

Value

A list containing the following elements:

- **id** integer, The ID of the match target
- **name** string, The name of the match target
- **targetFileName** string, The name of the target file
- **createdAt** string,
- **updatedAt** string,
- **archived** boolean, Whether the match target has been archived.
match_targets_put_archive

Update the archive status of this object

Description

Update the archive status of this object

Usage

match_targets_put_archive(id, status)

Arguments

id
integer required. The ID of the object.

status
boolean required. The desired archived status of the object.

Value

A list containing the following elements:

id
integer, The ID of the match target

name
string, The name of the match target

targetFileName
string, The name of the target file

createdAt
string,

updatedAt
string,

archived
boolean, Whether the match target has been archived.

match_targets_put_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

match_targets_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
**Arguments**

- **id** (integer required): The ID of the resource that is shared.
- **group_ids** (array required): An array of one or more group IDs.
- **permission_level** (string required): Options are: "read", "write", or "manage".
- **share_email_body** (string optional): Custom body text for e-mail sent on a share.
- **send_shared_email** (boolean optional): Send email to the recipients of a share.

**Value**

A list containing the following elements:

- **readers** (list): A list containing the following elements:
  - users array,
  - groups array,

- **writers** (list): A list containing the following elements:
  - users array,
  - groups array,

- **owners** (list): A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** (integer): For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** (integer): For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**match_targets_put_shares_users**

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```python
match_targets_put_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
Arguments

- **id** integer required. The ID of the resource that is shared.
- **user_ids** array required. An array of one or more user IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

**media_delete_optimizations_runs**

*Cancel a run*

**Description**

Cancel a run

**Usage**

media_delete_optimizations_runs(id, run_id)
**media_delete_optimizations_shares_groups**

*Revoke the permissions a group has on this object*

**Arguments**

- **id**
  - integer required. The ID of the optimization.
- **run_id**
  - integer required. The ID of the run.

**Value**

An empty HTTP response

---

**media_delete_optimizations_shares_users**

*Revoke the permissions a user has on this object*

**Description**

Revoke the permissions a user has on this object

**Usage**

media_delete_optimizations_shares_users(id, user_id)

**Arguments**

- **id**
  - integer required. The ID of the resource that is shared.
- **user_id**
  - integer required. The ID of the user.

**Value**

An empty HTTP response
**media_delete_ratecards_shares_groups**

*Revoke the permissions a group has on this object*

**Description**

Revoke the permissions a group has on this object

**Usage**

`media_delete_ratecards_shares_groups(id, group_id)`

**Arguments**

- `id`  
  integer required. The ID of the resource that is shared.
- `group_id`  
  integer required. The ID of the group.

**Value**

An empty HTTP response

---

**media_delete_ratecards_shares_users**

*Revoke the permissions a user has on this object*

**Description**

Revoke the permissions a user has on this object

**Usage**

`media_delete_ratecards_shares_users(id, user_id)`

**Arguments**

- `id`  
  integer required. The ID of the resource that is shared.
- `user_id`  
  integer required. The ID of the user.

**Value**

An empty HTTP response
**media_delete_spot_orders_shares_groups**

Revoke the permissions a group has on this object

**Description**

Revoke the permissions a group has on this object

**Usage**

```python
media_delete_spot_orders_shares_groups(id, group_id)
```

**Arguments**

- **id** integer required. The ID of the resource that is shared.
- **group_id** integer required. The ID of the group.

**Value**

An empty HTTP response

---

**media_delete_spot_orders_shares_users**

Revoke the permissions a user has on this object

**Description**

Revoke the permissions a user has on this object

**Usage**

```python
media_delete_spot_orders_shares_users(id, user_id)
```

**Arguments**

- **id** integer required. The ID of the resource that is shared.
- **user_id** integer required. The ID of the user.

**Value**

An empty HTTP response
media_get_optimizations

*Show a single optimization*

**Description**

Show a single optimization

**Usage**

`media_get_optimizations(id)`

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The optimization ID.</td>
</tr>
</tbody>
</table>

**Value**

A list containing the following elements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The optimization ID.</td>
</tr>
<tr>
<td>author</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id integer, The ID of this user.</td>
</tr>
<tr>
<td></td>
<td>• name string, This user’s name.</td>
</tr>
<tr>
<td></td>
<td>• username string, This user’s username.</td>
</tr>
<tr>
<td></td>
<td>• initials string, This user’s initials.</td>
</tr>
<tr>
<td></td>
<td>• online boolean, Whether this user is online.</td>
</tr>
<tr>
<td>name</td>
<td>string, The name of the optimization.</td>
</tr>
<tr>
<td>createdAt</td>
<td>string,</td>
</tr>
<tr>
<td>updatedAt</td>
<td>string,</td>
</tr>
<tr>
<td>finishedAt</td>
<td>string, The end time of the last run.</td>
</tr>
<tr>
<td>state</td>
<td>string, The state of the last run.</td>
</tr>
<tr>
<td>lastRunId</td>
<td>integer, The ID of the last run.</td>
</tr>
<tr>
<td>spotOrderId</td>
<td>integer, The ID for the spot order produced by the optimization.</td>
</tr>
<tr>
<td>archived</td>
<td>string, The archival status of the requested item(s).</td>
</tr>
<tr>
<td>reportLink</td>
<td>string, A link to the visual report for the optimization.</td>
</tr>
<tr>
<td>spotOrderLink</td>
<td>string, A link to the json version of the spot order.</td>
</tr>
<tr>
<td>fileLinks</td>
<td>array, Links to the csv and xml versions of the spot order.</td>
</tr>
<tr>
<td>runs</td>
<td>array, An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>• marketId integer, The market ID.</td>
</tr>
<tr>
<td></td>
<td>• startDate string, The start date for the media run.</td>
</tr>
<tr>
<td></td>
<td>• endDate string, The end date for the media run.</td>
</tr>
</tbody>
</table>
media_get_optimizations_runs

Check status of a run

Description
Check status of a run

Usage
media_get_optimizations_runs(id, run_id)

Arguments
id integer required. The ID of the optimization.
run_id integer required. The ID of the run.

• forceCpm boolean, Whether to force optimization to use CPM data even if partition data is available.
• reachAlpha number, A tuning parameter used to adjust RF.
• syscodes array, The syscodes for the media run.
• rateCards array, The ratecards for the media run.
• constraints array, The constraints for the media run.

programs array, An array of programs that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_programs is not also set.
networks array, An array of networks that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_networks is not also set.

excludePrograms boolean, If Civis Media Optimizer should exclude the programs in the programs parameter. If this value is set to false, it will make the optimization limit itself to the programs supplied through the programs parameter. An error will be thrown if programs is not also set.

excludeNetworks boolean, If Civis Media Optimizer should exclude the networks in the networks parameter. If this value is set to false, it will make the optimization limit itself to the networks supplied through the networks. An error will be thrown if networks is not also set.

timeSlotPercentages list, The maximum amount of the budget spent on that particular day of the week, daypart, or specific time slot for broadcast and cable.
Value

A list containing the following elements:

- id: integer, The ID of the run.
- optimizationId: integer, The ID of the optimization.
- state: string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- isCancelRequested: boolean, True if run cancel requested, else false.
- startedAt: string, The time the last run started at.
- finishedAt: string, The time the last run completed.
- error: string, The error, if any, returned by the run.

---

media_get_ratecards  Get a Ratecard

Description

Get a Ratecard

Usage

media_get_ratecards(id)

Arguments

id: integer required.

Value

A list containing the following elements:

- id: integer, The ratecard ID.
- filename: string, Name of the ratecard file.
- startOn: string, First day to which the ratecard applies.
- endOn: string, Last day to which the ratecard applies.
- dmaNumber: integer, Number of the DMA associated with the ratecard.
- archived: string, The archival status of the requested item(s).
**media_get_spot_orders**  
*Show a single spot order*

**Description**
Show a single spot order

**Usage**
media_get_spot_orders(id)

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID for the spot order.</td>
</tr>
</tbody>
</table>

**Value**
A list containing the following elements:

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The ID for the spot order.</td>
</tr>
<tr>
<td>archived</td>
<td>string, The archival status of the requested item(s).</td>
</tr>
<tr>
<td>csvS3Uri</td>
<td>string, S3 URI for the spot order CSV file.</td>
</tr>
<tr>
<td>jsonS3Uri</td>
<td>string, S3 URI for the spot order JSON file.</td>
</tr>
<tr>
<td>xmlArchiveS3Uri</td>
<td>string, S3 URI for the spot order XML archive.</td>
</tr>
<tr>
<td>lastTransformJobId</td>
<td>integer, ID of the spot order transformation job.</td>
</tr>
</tbody>
</table>

**media_list_dmas**  
*List all Designated Market Areas*

**Description**
List all Designated Market Areas

**Usage**
media_list_dmas(name = NULL, number = NULL)

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>string optional. If specified, will be used to filter the DMAs returned. Substring matching is supported with &quot;%&quot; and &quot;*&quot; wildcards (e.g., &quot;name=%region%&quot; will return both &quot;region1&quot; and &quot;my region&quot;).</td>
</tr>
<tr>
<td>number</td>
<td>integer optional. If specified, will be used to filter the DMAS by number.</td>
</tr>
</tbody>
</table>
**Value**

An array containing the following fields:

- **name** string, Name for the DMA region.
- **number** integer, Identifier number for a DMA.

---

**media_list_optimizations**

*List all optimizations*

**Description**

List all optimizations

**Usage**

```python
def media_list_optimizations(
    archived = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

- **archived** string optional. The archival status of the requested item(s).
- **limit** integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, author, name.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

- **id** integer, The optimization ID.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
media_list_optimizations_runs

- initials string, This user’s initials.
- online boolean, Whether this user is online.

name string, The name of the optimization.
createdAt string,
updatedAt string,
finishedAt string, The end time of the last run.
state string, The state of the last run.
lastRunId integer, The ID of the last run.
spotOrderId integer, The ID for the spot order produced by the optimization.
archived string, The archival status of the requested item(s).

---

media_list_optimizations_runs

List runs for the given optimization

---

Description

List runs for the given optimization

Usage

```python
media_list_optimizations_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

- **id** integer required. The ID of the optimization.
- **limit** integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.
media_list_optimizations_runs_logs

Value

An array containing the following fields:

- **id**: integer, The ID of the run.
- **optimizationId**: integer, The ID of the optimization.
- **state**: string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested**: boolean, True if run cancel requested, else false.
- **startedAt**: string, The time the last run started at.
- **finishedAt**: string, The time the last run completed.
- **error**: string, The error, if any, returned by the run.

media_list_optimizations_runs_logs

*Get the logs for a run*

Description

Get the logs for a run

Usage

media_list_optimizations_runs_logs(id, run_id, last_id = NULL, limit = NULL)

Arguments

- **id**: integer required. The ID of the optimization.
- **run_id**: integer required. The ID of the run.
- **last_id**: integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- **limit**: integer optional. The maximum number of log messages to return. Default of 10000.

Value

An array containing the following fields:

- **id**: integer, The ID of the log.
- **createdAt**: string, The time the log was created.
- **message**: string, The log message.
- **level**: string, The level of the log. One of unknown,fatal,error,warn,info,debug.
**media_list_optimizations_shares**

*List users and groups permissioned on this object*

**Description**

List users and groups permissioned on this object

**Usage**

```python
media_list_optimizations_shares(id)
```

**Arguments**

- **id**: integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

- **readers**: list, A list containing the following elements:
  - users array,
  - groups array,

- **writers**: list, A list containing the following elements:
  - users array,
  - groups array,

- **owners**: list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares**: integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares**: integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
**media_list_ratecards**  
*List all ratecards*

**Description**
List all ratecards

**Usage**
```
media_list_ratecards(archived = NULL, filename = NULL, dma_number = NULL)
```

**Arguments**
- `archived` string optional. The archival status of the requested item(s).
- `filename` string optional. If specified, will be used to filter the ratecards returned. Substring matching is supported with "%" and "*" wildcards (e.g., "filename=%ratecard%" will return both "ratecard 1" and "my ratecard").
- `dma_number` integer optional. If specified, will be used to filter the ratecards by DMA.

**Value**
An array containing the following fields:

- `id` integer, The ratecard ID.
- `filename` string, Name of the ratecard file.
- `startOn` string, First day to which the ratecard applies.
- `endOn` string, Last day to which the ratecard applies.
- `dmaNumber` integer, Number of the DMA associated with the ratecard.
- `archived` string, The archival status of the requested item(s).

**media_list_ratecards_shares**  
*List users and groups permissioned on this object*

**Description**
List users and groups permissioned on this object

**Usage**
```
media_list_ratecards_shares(id)
```

**Arguments**
- `id` integer required. The ID of the resource that is shared.
**Value**

An array containing the following fields:

- **readers**
  - list, A list containing the following elements:
    - users array,
    - groups array,

- **writers**
  - list, A list containing the following elements:
    - users array,
    - groups array,

- **owners**
  - list, A list containing the following elements:
    - users array,
    - groups array,

- **totalUserShares**
  - integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares**
  - integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**media_list_spot_orders**

*List all spot orders*

---

**Description**

List all spot orders

**Usage**

media_list_spot_orders(id = NULL, archived = NULL)

**Arguments**

- **id**
  - integer optional. The ID for the spot order.
- **archived**
  - string optional. The archival status of the requested item(s).

**Value**

An array containing the following fields:

- **id**
  - integer, The ID for the spot order.
- **archived**
  - string, The archival status of the requested item(s).
**media_list_spot_orders_shares**

*List users and groups permissioned on this object*

**Description**

List users and groups permissioned on this object

**Usage**

```python
media_list_spot_orders_shares(id)
```

**Arguments**

- **id**: integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

- **readers**: list, A list containing the following elements:
  - users array,
  - groups array,

- **writers**: list, A list containing the following elements:
  - users array,
  - groups array,

- **owners**: list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares**: integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares**: integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
**media_list_targets**  
*List all Media Targets*

**Description**
List all Media Targets

**Usage**
```
media_list_targets(name = NULL, identifier = NULL, data_source = NULL)
```

**Arguments**
- **name**: string optional. The name of the target.
- **identifier**: string optional. A unique identifier for this target.
- **data_source**: string optional. The source of viewership data for this target.

**Value**
An array containing the following fields:
- **name**: string, The name of the target.
- **identifier**: string, A unique identifier for this target.
- **dataSource**: string, The source of viewership data for this target.

---

**media_patch_optimizations**  
*Edit an existing optimization*

**Description**
Edit an existing optimization

**Usage**
```
media_patch_optimizations(
    id,
    name = NULL,
    runs = NULL,
    programs = NULL,
    networks = NULL,
    exclude_programs = NULL,
    exclude_networks = NULL,
    time_slot_percentages = NULL
)
```
Arguments

id     integer required. The optimization ID.
name   string optional. The name of the optimization.
runs   array optional. An array containing the following fields:
  • marketId integer, The market ID.
  • startDate string, The start date for the media run.
  • endDate string, The end date for the media run.
  • forceCpm boolean, Whether to force optimization to use CPM data even if partition data is available.
  • reachAlpha number, A tuning parameter used to adjust RF.
  • syscodes array, The syscodes for the media run.
  • rateCards array, The ratecards for the media run.
  • constraints array, The constraints for the media run.

programs array optional. An array of programs that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_programs is not also set.

networks array optional. An array of networks that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_networks is not also set.

exclude_programs boolean optional. If Civis Media Optimizer should exclude the programs in the programs parameter. If this value is set to false, it will make the optimization limit itself to the programs supplied through the programs parameter. An error will be thrown if programs is not also set.

exclude_networks boolean optional. If Civis Media Optimizer should exclude the networks in the networks parameter. If this value is set to false, it will make the optimization limit itself to the networks supplied through the networks. An error will be thrown if networks is not also set.

value_slot_percentages list optional. The maximum amount of the budget spent on that particular day of the week, daypart, or specific time slot for broadcast and cable.

Value

A list containing the following elements:

id     integer, The optimization ID.

author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

name string, The name of the optimization.

createdAt string,
updatedAt  string, The end time of the last run.
finishedAt  string, The end time of the last run.
state  string, The state of the last run.
lastRunId  integer, The ID of the last run.
spotOrderId  integer, The ID for the spot order produced by the optimization.
archived  string, The archival status of the requested item(s).
reportLink  string, A link to the visual report for the optimization.
spotOrderLink  string, A link to the json version of the spot order.
fileLinks  array, Links to the csv and xml versions of the spot order.
runt  array, An array containing the following fields:

  • marketId  integer, The market ID.
  • startDate  string, The start date for the media run.
  • endDate  string, The end date for the media run.
  • forceCpm  boolean, Whether to force optimization to use CPM data even if partition data is available.
  • reachAlpha  number, A tuning parameter used to adjust RF.
  • syscodes  array, The syscodes for the media run.
  • rateCards  array, The ratecards for the media run.
  • constraints  array, The constraints for the media run.

programs  array, An array of programs that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_programs is not also set.

networks  array, An array of networks that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_networks is not also set.

excludePrograms  boolean, If Civis Media Optimizer should exclude the programs in the programs parameter. If this value is set to false, it will make the optimization limit itself to the programs supplied through the programs parameter. An error will be thrown if programs is not also set.

excludeNetworks  boolean, If Civis Media Optimizer should exclude the networks in the networks parameter. If this value is set to false, it will make the optimization limit itself to the networks supplied through the networks. An error will be thrown if networks is not also set.

timeSlotPercentages  list, The maximum amount of the budget spent on that particular day of the week, daypart, or specific time slot for broadcast and cable.
media_patch_ratecards  Update some attributes of this Ratecard

Description

Update some attributes of this Ratecard

Usage

media_patch_ratecards(
    id,
    filename = NULL,
    start_on = NULL,
    end_on = NULL,
    dma_number = NULL
)

Arguments

id  integer required. The ratecard ID.
filename  string optional. Name of the ratecard file.
start_on  string optional. First day to which the ratecard applies.
end_on  string optional. Last day to which the ratecard applies.
dma_number  integer optional. Number of the DMA associated with the ratecard.

Value

A list containing the following elements:

id  integer, The ratecard ID.
filename  string, Name of the ratecard file.
startOn  string, First day to which the ratecard applies.
endOn  string, Last day to which the ratecard applies.
dmaNumber  integer, Number of the DMA associated with the ratecard.
archived  string, The archival status of the requested item(s).
media_post_optimizations

Create a new optimization

Description

Create a new optimization

Usage

```r
media_post_optimizations(
  runs,
  name = NULL,
  programs = NULL,
  networks = NULL,
  exclude_programs = NULL,
  exclude_networks = NULL,
  time_slot_percentages = NULL
)
```

Arguments

- **runs**: array required. An array containing the following fields:
  - marketId integer, The market ID.
  - startDate string, The start date for the media run.
  - endDate string, The end date for the media run.
  - forceCpm boolean, Whether to force optimization to use CPM data even if partition data is available.
  - reachAlpha number, A tuning parameter used to adjust RF.
  - syscodes array, The syscodes for the media run.
  - rateCards array, The ratecards for the media run.
  - constraints array, The constraints for the media run.

- **name**: string optional. The name of the optimization.

- **programs**: array optional. An array of programs that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_programs is not also set.

- **networks**: array optional. An array of networks that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_networks is not also set.

- **exclude_programs**: boolean optional. If Civis Media Optimizer should exclude the programs in the programs parameter. If this value is set to false, it will make the optimization limit itself to the programs supplied through the programs parameter. An error will be thrown if programs is not also set.
exclude_networks

boolean optional. If Civis Media Optimizer should exclude the networks in the networks parameter. If this value is set to false, it will make the optimization limit itself to the networks supplied through the networks. An error will be thrown if networks is not also set.

time_slot_percentages

list optional. The maximum amount of the budget spent on that particular day of the week, daypart, or specific time slot for broadcast and cable.

Value

A list containing the following elements:

id
integer, The optimization ID.

author
dict, A list containing the following elements:

• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

name
string, The name of the optimization.

createdAt
string,

updatedAt
string,

finishedAt
string, The end time of the last run.

state
string, The state of the last run.

lastRunId
integer, The ID of the last run.

spotOrderId
integer, The ID for the spot order produced by the optimization.

archived
string, The archival status of the requested item(s).

reportLink
string, A link to the visual report for the optimization.

spotOrderLink
string, A link to the json version of the spot order.

fileLinks
dict, Links to the csv and xml versions of the spot order.

runs
list containing the following fields:

• marketId integer, The market ID.
• startDate string, The start date for the media run.
• endDate string, The end date for the media run.
• forceCpm boolean, Whether to force optimization to use CPM data even if partition data is available.
• reachAlpha number, A tuning parameter used to adjust RF.
• syscodes array, The syscodes for the media run.
• rateCards array, The ratecards for the media run.
• constraints array, The constraints for the media run.

programs
list, An array of programs that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_programs is not also set.
networks array, An array of networks that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_networks is not also set.

excludePrograms boolean, If Civis Media Optimizer should exclude the programs in the programs parameter. If this value is set to false, it will make the optimization limit itself to the programs supplied through the programs parameter. An error will be thrown if programs is not also set.

excludeNetworks boolean, If Civis Media Optimizer should exclude the networks in the networks parameter. If this value is set to false, it will make the optimization limit itself to the networks supplied through the networks. An error will be thrown if networks is not also set.

timeSlotPercentages list, The maximum amount of the budget spent on that particular day of the week, daypart, or specific time slot for broadcast and cable.

---

**media_post_optimizations_clone**

*Clone an existing optimization*

**Description**

Clone an existing optimization

**Usage**

`media_post_optimizations_clone(id)`

**Arguments**

| id | integer required. The optimization ID. |

**Value**

A list containing the following elements:

| id | integer, The optimization ID. |
| author | list, A list containing the following elements: |
| name | string, The name of the optimization. |
| createdAt | string, |
updatedAt  string,
finishedAt  string, The end time of the last run.
state  string, The state of the last run.
lastRunId  integer, The ID of the last run.
spotOrderId  integer, The ID for the spot order produced by the optimization.
archived  string, The archival status of the requested item(s).
reportLink  string, A link to the visual report for the optimization.
spotOrderLink  string, A link to the json version of the spot order.
fileLinks  array, Links to the csv and xml versions of the spot order.
runs  array, An array containing the following fields:
  • marketId integer, The market ID.
  • startDate string, The start date for the media run.
  • endDate string, The end date for the media run.
  • forceCpm boolean, Whether to force optimization to use CPM data even if partition data is available.
  • reachAlpha number, A tuning parameter used to adjust RF.
  • syscodes array, The syscodes for the media run.
  • rateCards array, The ratecards for the media run.
  • constraints array, The constraints for the media run.
programs  array, An array of programs that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_programs is not also set.
networks  array, An array of networks that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_networks is not also set.
excludePrograms  boolean, If Civis Media Optimizer should exclude the programs in the programs parameter. If this value is set to false, it will make the optimization limit itself to the programs supplied through the programs parameter. An error will be thrown if programs is not also set.
excludeNetworks  boolean, If Civis Media Optimizer should exclude the networks in the networks parameter. If this value is set to false, it will make the optimization limit itself to the networks supplied through the networks. An error will be thrown if networks is not also set.
timeSlotPercentages  list, The maximum amount of the budget spent on that particular day of the week, daypart, or specific time slot for broadcast and cable.
**media_post_optimizations_runs**

*Start a run*

**Description**

Start a run

**Usage**

```plaintext
media_post_optimizations_runs(id)
```

**Arguments**

- `id` (integer required): The ID of the optimization.

**Value**

A list containing the following elements:

- `id` (integer): The ID of the run.
- `optimizationId` (integer): The ID of the optimization.
- `state` (string): The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- `isCancelRequested` (boolean): True if run cancel requested, else false.
- `startedAt` (string): The time the last run started at.
- `finishedAt` (string): The time the last run completed.
- `error` (string): The error, if any, returned by the run.

---

**media_post_ratecards**

*Create a Ratecard*

**Description**

Create a Ratecard

**Usage**

```plaintext
media_post_ratecards(filename, start_on, end_on, dma_number)
```
Arguments

filename  string required. Name of the ratecard file.
start_on  string required. First day to which the ratecard applies.
end_on    string required. Last day to which the ratecard applies.
dma_number integer required. Number of the DMA associated with the ratecard.

Value

A list containing the following elements:
id             integer, The ratecard ID.
filename       string, Name of the ratecard file.
startOn        string, First day to which the ratecard applies.
endOn          string, Last day to which the ratecard applies.
dmaNumber      integer, Number of the DMA associated with the ratecard.
archived       string, The archival status of the requested item(s).

media_post_spot_orders

Create a spot order

Description

Create a spot order

Usage

media_post_spot_orders(body = NULL)

Arguments

body           string optional. CSV body of a spot order.

Value

A list containing the following elements:
id             integer, The ID for the spot order.
archived       string, The archival status of the requested item(s).
csvS3Uri       string, S3 URI for the spot order CSV file.
jsonS3Uri      string, S3 URI for the spot order JSON file.
xmlArchiveS3Uri string, S3 URI for the spot order XML archive.
lastTransformJobId
integer, ID of the spot order transformation job.
media_put_optimizations_archive

Update the archive status of this object

Description
Update the archive status of this object

Usage
media_put_optimizations_archive(id, status)

Arguments
- id: integer required. The ID of the object.
- status: boolean required. The desired archived status of the object.

Value
A list containing the following elements:

- id: integer, The optimization ID.
- author: list, A list containing the following elements:
  - id: integer, The ID of this user.
  - name: string, This user’s name.
  - username: string, This user’s username.
  - initials: string, This user’s initials.
  - online: boolean, Whether this user is online.
- name: string, The name of the optimization.
- createdAt: string,
- updatedAt: string,
- finishedAt: string, The end time of the last run.
- state: string, The state of the last run.
- lastRunId: integer, The ID of the last run.
- spotOrderId: integer, The ID for the spot order produced by the optimization.
- archived: string, The archival status of the requested item(s).
- reportLink: string, A link to the visual report for the optimization.
- spotOrderLink: string, A link to the json version of the spot order.
- fileLinks: array, Links to the csv and xml versions of the spot order.
- runs: array, An array containing the following fields:
  - marketId: integer, The market ID.
  - startDate: string, The start date for the media run.
media_put_optimizations_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

media_put_optimizations_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
Arguments

- **id** (integer required): The ID of the resource that is shared.
- **group_ids** (array required): An array of one or more group IDs.
- **permission_level** (string required): Options are: "read", "write", or "manage".
- **share_email_body** (string optional): Custom body text for e-mail sent on a share.
- **send_shared_email** (boolean optional): Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers** (list, A list containing the following elements):
  - **users array**,
  - **groups array**,
- **writers** (list, A list containing the following elements):
  - **users array**,
  - **groups array**,
- **owners** (list, A list containing the following elements):
  - **users array**,
  - **groups array**,
- **totalUserShares** (integer): For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares** (integer): For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**media_put_optimizations_shares_users**

*Set the permissions users have on this object*

Description

Set the permissions users have on this object

Usage

```python
media_put_optimizations_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>The ID of the resource that is shared.</td>
</tr>
<tr>
<td>user_ids</td>
<td>array</td>
<td>An array of one or more user IDs.</td>
</tr>
<tr>
<td>permission_level</td>
<td>string</td>
<td>Options are: &quot;read&quot;, &quot;write&quot;, or &quot;manage&quot;.</td>
</tr>
<tr>
<td>share_email_body</td>
<td>string</td>
<td>Custom body text for e-mail sent on a share.</td>
</tr>
<tr>
<td>send_shared_email</td>
<td>boolean</td>
<td>Send email to the recipients of a share.</td>
</tr>
</tbody>
</table>

Value

A list containing the following elements:

- readers
  - list, A list containing the following elements:
    - users array,
    - groups array,

- writers
  - list, A list containing the following elements:
    - users array,
    - groups array,

- owners
  - list, A list containing the following elements:
    - users array,
    - groups array,

- totalUserShares
  - integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- totalGroupShares
  - integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**media_put_ratecards** Replace all attributes of this Ratecard

Description

Replace all attributes of this Ratecard

Usage

```
media_put_ratecards(id, filename, start_on, end_on, dma_number)
```
media_put_ratecards_archive

Arguments

id    integer required. The ratecard ID.
filename    string required. Name of the ratecard file.
start_on    string required. First day to which the ratecard applies.
end_on    string required. Last day to which the ratecard applies.
dma_number    integer required. Number of the DMA associated with the ratecard.

Value

A list containing the following elements:

id    integer, The ratecard ID.
filename    string, Name of the ratecard file.
startOn    string, First day to which the ratecard applies.
endOn    string, Last day to which the ratecard applies.
dmaNumber    integer, Number of the DMA associated with the ratecard.
archived    string, The archival status of the requested item(s).

media_put_ratecards_archive

Update the archive status of this object

Description

Update the archive status of this object

Usage

media_put_ratecards_archive(id, status)

Arguments

id    integer required. The ID of the object.
status    boolean required. The desired archived status of the object.

Value

A list containing the following elements:

id    integer, The ratecard ID.
filename    string, Name of the ratecard file.
startOn    string, First day to which the ratecard applies.
endOn    string, Last day to which the ratecard applies.
dmaNumber    integer, Number of the DMA associated with the ratecard.
archived    string, The archival status of the requested item(s).
media_put_ratecards_shares_groups

Set the permissions groups has on this object

Description
Set the permissions groups has on this object

Usage

```python
media_put_ratecards_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

Arguments

- **id**
  integer required. The ID of the resource that is shared.
- **group_ids**
  array required. An array of one or more group IDs.
- **permission_level**
  string required. Options are: "read", "write", or "manage".
- **share_email_body**
  string optional. Custom body text for e-mail sent on a share.
- **send_shared_email**
  boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers**
  list, A list containing the following elements:
  - users array,
  - groups array,
- **writers**
  list, A list containing the following elements:
  - users array,
  - groups array,
- **owners**
  list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares**
  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares
    integer. For owners, the number of total groups shared. For writers and readers,
    the number of visible groups shared.

media_put_ratecards_shares_users
    Set the permissions users have on this object

Description
    Set the permissions users have on this object

Usage
    media_put_ratecards_shares_users(
        id,
        user_ids,
        permission_level,
        share_email_body = NULL,
        send_shared_email = NULL
    )

Arguments
    id                integer required. The ID of the resource that is shared.
    user_ids          array required. An array of one or more user IDs.
    permission_level  string required. Options are: "read", "write", or "manage".
    share_email_body  string optional. Custom body text for e-mail sent on a share.
    send_shared_email boolean optional. Send email to the recipients of a share.

Value
    A list containing the following elements:
    readers      list, A list containing the following elements:
                  • users array,
                  • groups array,
    writers      list, A list containing the following elements:
                  • users array,
                  • groups array,
    owners       list, A list containing the following elements:
                  • users array,
• groups array,

```plaintext
totalUserShares
  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares
  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
```

---

`media_put_spot_orders  Edit the specified spot order`

**Description**

Edit the specified spot order

**Usage**

```plaintext
media_put_spot_orders(id, body = NULL)
```

**Arguments**

- `id` integer required. The ID for the spot order.
- `body` string optional. CSV body of a spot order.

**Value**

A list containing the following elements:

```plaintext
id
archived
csvS3Uri
jsonS3Uri
xmlArchiveS3Uri
lastTransformJobId
  integer, The ID for the spot order.
  string, The archival status of the requested item(s).
  string, S3 URI for the spot order CSV file.
  string, S3 URI for the spot order JSON file.
  string, S3 URI for the spot order XML archive.
  integer, ID of the spot order transformation job.
```
media_put_spot_orders_archive

Update the archive status of this object

Description
Update the archive status of this object

Usage
media_put_spot_orders_archive(id, status)

Arguments
id integer required. The ID of the object.
status boolean required. The desired archived status of the object.

Value
A list containing the following elements:
id integer, The ID for the spot order.
archived string, The archival status of the requested item(s).
csvS3Uri string, S3 URI for the spot order CSV file.
jsonS3Uri string, S3 URI for the spot order JSON file.
xmlArchiveS3Uri string, S3 URI for the spot order XML archive.
lastTransformJobId integer, ID of the spot order transformation job.

media_put_spot_orders_shares_groups

Set the permissions groups has on this object

Description
Set the permissions groups has on this object

Usage
media_put_spot_orders_shares_groups(
id,group_ids,permission_level,
share_email_body = NULL,
send_shared_email = NULL
)
media_put_spot_orders_shares_users

**Arguments**

- **id** integer required. The ID of the resource that is shared.
- **group_ids** array required. An array of one or more group IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

media_put_spot_orders_shares_users

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```python
media_put_spot_orders_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
models_delete_builds

Arguments

id: integer required. The ID of the resource that is shared.
user_ids: array required. An array of one or more user IDs.
permission_level: string required. Options are: "read", "write", or "manage".
share_email_body: string optional. Custom body text for e-mail sent on a share.
send_shared_email: boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:
readers: list, A list containing the following elements:
  • users array,
  • groups array,
writers: list, A list containing the following elements:
  • users array,
  • groups array,
owners: list, A list containing the following elements:
  • users array,
  • groups array,
totalUserShares: integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares: integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

Description

Cancel a build

Usage

models_delete_builds(id, build_id)

Arguments

id: integer required. The ID of the model.
build_id: integer required. The ID of the build.
Value

An empty HTTP response

models_delete_projects

Remove a Model from a project

Description

Remove a Model from a project

Usage

models_delete_projects(id, project_id)

Arguments

id integer required. The ID of the Model.
project_id integer required. The ID of the project.

Value

An empty HTTP response

models_delete_shares_groups

Revoke the permissions a group has on this object

Description

Revoke the permissions a group has on this object

Usage

models_delete_shares_groups(id, group_id)

Arguments

id integer required. The ID of the resource that is shared.
group_id integer required. The ID of the group.

Value

An empty HTTP response
**models_delete_shares_users**

*Revoke the permissions a user has on this object*

**Description**
Revoke the permissions a user has on this object

**Usage**
```python
models_delete_shares_users(id, user_id)
```

**Arguments**
- `id` integer required. The ID of the resource that is shared.
- `user_id` integer required. The ID of the user.

**Value**
An empty HTTP response

---

**models_get**

*Retrieve model configuration*

**Description**
Retrieve model configuration

**Usage**
```python
models_get(id)
```

**Arguments**
- `id` integer required. The ID of the model.

**Value**
A list containing the following elements:
- `id` integer, The ID of the model.
- `tableName` string, The qualified name of the table containing the training set from which to build the model.
- `databaseId` integer, The ID of the database holding the training set table used to build the model.
credentialId  integer, The ID of the credential used to read the target table. Defaults to the user’s default credential.

modelName  string, The name of the model.
description  string, A description of the model.
interactionTerms  boolean, Whether to search for interaction terms.

boxCoxTransformation  boolean, Whether to transform data so that it assumes a normal distribution. Valid only with continuous models.

modelTypeId  integer, The ID of the model’s type.

primaryKey  string, The unique ID (primary key) of the training dataset.
dependentVariable  string, The dependent variable of the training dataset.
dependentVariableOrder  array, The order of dependent variables, especially useful for Ordinal Modeling.
excludedColumns  array, A list of columns which will be considered ineligible to be independent variables.

limitingSQL  string, A custom SQL WHERE clause used to filter the rows used to build the model. (e.g., "id > 105").

activeBuildId  integer, The ID of the current active build, the build used to score predictions.
crossValidationParameters  list, Cross validation parameter grid for tree methods, e.g. "n_estimators": [100, 200, 500], "learning_rate": [0.01, 0.1], "max_depth": [2, 3].
nNumberOfFolds  integer, Number of folds for cross validation. Default value is 5.

notifications  list, A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  - successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  - failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  - stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  - successOn boolean, If success email notifications are on.
  - failureOn boolean, If failure email notifications are on.

schedule  list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parentId integer, The ID of the parent job that will trigger this model.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

timeZone string, The time zone of this model.

lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

user list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

createdAt string, The time the model was created.

updatedAt string, The time the model was updated.

currentBuildState string, The status of the current model build. One of "succeeded", "failed", "queued", or "running,"or "idle", if no build has been attempted.

currentBuildException string, Exception message, if applicable, of the current model build.

builds array, An array containing the following fields:
  • id integer, The ID of the model build.
  • name string, The name of the model build.
  • createdAt string, The time the model build was created.
  • description string, A description of the model build.
• rootMeanSquaredError number, A key metric for continuous models. Nil for other model types.
• rSquaredError number, A key metric for continuous models. Nil for other model types.
• rocAuc number, A key metric for binary, multinomial, and ordinal models. Nil for other model types.

predictions array, An array containing the following fields:
• id integer, The ID of the model to which to apply the prediction.
• tableName string, The qualified name of the table on which to apply the predictive model.
• primaryKey array, The primary key or composite keys of the table being predicted.
• limitingSQL string, A SQL WHERE clause used to scope the rows to be predicted.
• outputTable string, The qualified name of the table to be created which will contain the model’s predictions.
• schedule object,
• state string, The status of the prediction. One of: "succeeded", "failed", "queued", or "running," or "idle", if no build has been attempted.

lastOutputLocation string, The output JSON for the last build.
archived string, The archival status of the requested item(s).

models_get_builds

Check status of a build

Description

Check status of a build

Usage

models_get_builds(id, build_id)

Arguments

id integer required. The ID of the model.
build_id integer required. The ID of the build.
Value

A list containing the following elements:

- **id**: integer, The ID of the model build.
- **state**: string, The state of the model build. One of 'queued' 'running' 'succeeded' 'failed' or 'Cancelled'.
- **error**: string, The error, if any, returned by the build.
- **name**: string, The name of the model build.
- **createdAt**: string, The time the model build was created.
- **description**: string, A description of the model build.
- **rootMeanSquaredError**: number, A key metric for continuous models. Nil for other model types.
- **rSquaredError**: number, A key metric for continuous models. Nil for other model types.
- **rocAuc**: number, A key metric for binary, multinomial, and ordinal models. Nil for other model types.
- **transformationMetadata**: string, A string representing the full JSON output of the metadata for transformation of column names.
- **output**: string, A string representing the JSON output for the specified build. Only present when smaller than 10KB in size.
- **outputLocation**: string, A URL representing the location of the full JSON output for the specified build. The URL link will be valid for 5 minutes.

---

models_list

List

Description

List

Usage

```r
models_list(
  model_name = NULL,
  training_table_name = NULL,
  dependent_variable = NULL,
  author = NULL,
  status = NULL,
  hidden = NULL,
  archived = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```
Arguments

**model_name**  
string optional. If specified, will be used to filter the models returned. Substring matching is supported. (e.g., "modelName=model" will return both "model1" and "my model").

**training_table_name**  
string optional. If specified, will be used to filter the models returned by the training dataset table name. Substring matching is supported. (e.g., "trainingTableName=table" will return both "table1" and "my_table").

**dependent_variable**  
string optional. If specified, will be used to filter the models returned by the dependent variable column name. Substring matching is supported. (e.g., "dependentVariable=predictor" will return both "predictor" and "my predictor").

**author**  
string optional. If specified, return models from this author. It accepts a comma-separated list of author ids.

**status**  
string optional. If specified, returns models with one of these statuses. It accepts a comma-separated list, possible values are 'running', 'failed', 'succeeded', 'idle', 'scheduled'.

**hidden**  
boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

**archived**  
string optional. The archival status of the requested item(s).

**limit**  
integer optional. Number of results to return. Defaults to its maximum of 50.

**page_num**  
integer optional. Page number of the results to return. Defaults to the first page, 1.

**order**  
string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at, last_run.updated_at.

**order_dir**  
string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

**id**  
integer, The ID of the model.

**tableName**  
string, The qualified name of the table containing the training set from which to build the model.

**databaseId**  
integer, The ID of the database holding the training set table used to build the model.

**credentialId**  
integer, The ID of the credential used to read the target table. Defaults to the user's default credential.

**modelName**  
string, The name of the model.

**description**  
string, A description of the model.

**interactionTerms**  
boolean, Whether to search for interaction terms.
boxCoxTransformation

boolean, Whether to transform data so that it assumes a normal distribution. Valid only with continuous models.

modelTypeId

integer, The ID of the model’s type.

primaryKey

string, The unique ID (primary key) of the training dataset.

dependentVariable

string, The dependent variable of the training dataset.

dependentVariableOrder

array, The order of dependent variables, especially useful for Ordinal Modeling.

excludedColumns

array, A list of columns which will be considered ineligible to be independent variables.

limitingSQL

string, A custom SQL WHERE clause used to filter the rows used to build the model. (e.g., "id > 105").

crossValidationParameters

list, Cross validation parameter grid for tree methods, e.g. "n_estimators": [100, 200, 500], "learning_rate": [0.01, 0.1], "max_depth": [2, 3].

numberOfFolds

integer, Number of folds for cross validation. Default value is 5.

schedule

list, A list containing the following elements:

• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parentId

integer, The ID of the parent job that will trigger this model.

timeZone

string, The time zone of this model.

lastRun

list, A list containing the following elements:

• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

user

list, A list containing the following elements:

• id integer, The ID of this user.
• name string. This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

createdAt

string, The time the model was created.
models_list_builds

updatedAt string, The time the model was updated.
currentBuildState
    string, The status of the current model build. One of "succeeded", "failed", "queued", or "running."or "idle", if no build has been attempted.
currentBuildException
    string, Exception message, if applicable, of the current model build.
built array, An array containing the following fields:
    • id integer, The ID of the model build.
    • name string, The name of the model build.
    • createdAt string, The time the model build was created.
    • description string, A description of the model build.
    • rootMeanSquaredError number, A key metric for continuous models. Nil for other model types.
    • rSquaredError number, A key metric for continuous models. Nil for other model types.
    • rocAuc number, A key metric for binary, multinomial, and ordinal models. Nil for other model types.
predictions array, An array containing the following fields:
    • id integer, The ID of the model to which to apply the prediction.
    • tableName string, The qualified name of the table on which to apply the predictive model.
    • primaryKey array, The primary key or composite keys of the table being predicted.
    • limitingSQL string, A SQL WHERE clause used to scope the rows to be predicted.
    • outputTable string, The qualified name of the table to be created which will contain the model’s predictions.
    • state string, The status of the prediction. One of "succeeded", "failed", "queued", or "running."or "idle", if no build has been attempted.
lastOutputLocation
    string, The output JSON for the last build.
archived string, The archival status of the requested item(s).

List builds for the given model

Description

List builds for the given model
Usage

```r
models_list_builds(
  id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

Arguments

- **id**: integer required. The ID of the model.
- **limit**: integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
- **page_num**: integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**: string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
- **order_dir**: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **id**: integer, The ID of the model build.
- **state**: string, The state of the model build. one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **error**: string, The error, if any, returned by the build.
- **name**: string, The name of the model build.
- **createdAt**: string, The time the model build was created.
- **description**: string, A description of the model build.
- **rootMeanSquaredError**: number, A key metric for continuous models. Nil for other model types.
- **rSquaredError**: number, A key metric for continuous models. Nil for other model types.
- **rocAuc**: number, A key metric for binary, multinomial, and ordinal models. Nil for other model types.
- **transformationMetadata**: string, A string representing the full JSON output of the metadata for transformation of column names
- **output**: string, A string representing the JSON output for the specified build. Only present when smaller than 10KB in size.
- **outputLocation**: string, A URL representing the location of the full JSON output for the specified build. The URL link will be valid for 5 minutes.
models_list_builds_logs

Get the logs for a build

**Description**

Get the logs for a build

**Usage**

```r
models_list_builds_logs(id, build_id, last_id = NULL, limit = NULL)
```

**Arguments**

- **id** integer required. The ID of the model.
- **build_id** integer required. The ID of the build.
- **last_id** integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- **limit** integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

- **id** integer, The ID of the log.
- **createdAt** string, The time the log was created.
- **message** string, The log message.
- **level** string, The level of the log. One of unknown, fatal, error, warn, info, debug.

models_list_projects

List the projects a Model belongs to

**Description**

List the projects a Model belongs to

**Usage**

```r
models_list_projects(id, hidden = NULL)
```
Arguments

- **id**
  integer required. The ID of the Model.

- **hidden**
  boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value

An array containing the following fields:

- **id**
  integer, The ID for this project.

- **author**
  list, A list containing the following elements:
  - **id**
    integer, The ID of this user.
  - **name**
    string, This user’s name.
  - **username**
    string, This user's username.
  - **initials**
    string, This user's initials.
  - **online**
    boolean, Whether this user is online.

- **name**
  string, The name of this project.

- **description**
  string, A description of the project.

- **users**
  array, An array containing the following fields:
  - **id**
    integer, The ID of this user.
  - **name**
    string, This user’s name.
  - **username**
    string, This user's username.
  - **initials**
    string, This user's initials.
  - **online**
    boolean, Whether this user is online.

- **autoShare**
  boolean,

- **createdAt**
  string,

- **updatedAt**
  string,

- **archived**
  string, The archival status of the requested item(s).

---

**models_list_schedules**  *Show the model build schedule*

Description

Show the model build schedule

Usage

`models_list_schedules(id)`

Arguments

- **id**
  integer required. The ID of the model associated with this schedule.
Value

A list containing the following elements:

- **id** integer, The ID of the model associated with this schedule.
- **schedule** list, A list containing the following elements:
  - **scheduled** boolean, If the item is scheduled.
  - **scheduledDays** array, Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours** array, Hours of the day it is scheduled on.
  - **scheduledMinutes** array, Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour** integer, Alternative to scheduled minutes, number of times to run per hour.

models_list_shares

List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

models_list_shares(id)

Arguments

- **id** integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
models_list_types  List all available model types

Description
List all available model types

Usage
models_list_types()

Value
An array containing the following fields:

- id: integer, The ID of the model type.
- algorithm: string, The name of the algorithm used to train the model.
- dvType: string, The type of dependent variable predicted by the model.
- fintAllowed: boolean, Whether this model type supports searching for interaction terms.

models_put_archive  Update the archive status of this object

Description
Update the archive status of this object

Usage
models_put_archive(id, status)

Arguments

- id: integer required. The ID of the object.
- status: boolean required. The desired archived status of the object.

Value
A list containing the following elements:

- id: integer, The ID of the model.
- tableName: string, The qualified name of the table containing the training set from which to build the model.
- databaseId: integer, The ID of the database holding the training set table used to build the model.
credentialId  integer, The ID of the credential used to read the target table. Defaults to the user’s default credential.

modelName  string, The name of the model.

description  string, A description of the model.

interactionTerms  boolean, Whether to search for interaction terms.

boxCoxTransformation  boolean, Whether to transform data so that it assumes a normal distribution. Valid only with continuous models.

modelTypeId  integer, The ID of the model’s type.

primaryKey  string, The unique ID (primary key) of the training dataset.

dependentVariable  string, The dependent variable of the training dataset.

dependentVariableOrder  array, The order of dependent variables, especially useful for Ordinal Modeling.

excludedColumns  array, A list of columns which will be considered ineligible to be independent variables.

limitingSQL  string, A custom SQL WHERE clause used to filter the rows used to build the model. (e.g., "id > 105").

activeBuildId  integer, The ID of the current active build, the build used to score predictions.

crossValidationParameters  list, Cross validation parameter grid for tree methods, e.g. "n_estimators": [100, 200, 500], "learning_rate": [0.01, 0.1], "max_depth": [2, 3].

numberOfFolds  integer, Number of folds for cross validation. Default value is 5.

notifications  list, A list containing the following elements:

• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis,"
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

schedule  list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number
  of times to run per hour.

parentId integer, The ID of the parent job that will trigger this model.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

timeZone string, The time zone of this model.

lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

user list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

createdAt string, The time the model was created.

updatedAt string, The time the model was updated.

currentBuildState string, The status of the current model build. One of "succeeded", "failed",
"queued", or "running,"or "idle", if no build has been attempted.

currentBuildException string, Exception message, if applicable, of the current model build.

builds array, An array containing the following fields:
  • id integer, The ID of the model build.
  • name string, The name of the model build.
  • createdAt string, The time the model build was created.
  • description string, A description of the model build.
models_put_projects

Add a Model to a project

Description

Add a Model to a project

Usage

models_put_projects(id, project_id)

Arguments

id integer required. The ID of the Model.
project_id integer required. The ID of the project.

Value

An empty HTTP response
models_put_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

```python
models_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

Arguments

- `id`    integer required. The ID of the resource that is shared.
- `group_ids`    array required. An array of one or more group IDs.
- `permission_level`    string required. Options are: "read", "write", or "manage".
- `share_email_body`    string optional. Custom body text for e-mail sent on a share.
- `send_shared_email`    boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- `readers`    list, A list containing the following elements:
  - `users` array,
  - `groups` array,
- `writers`    list, A list containing the following elements:
  - `users` array,
  - `groups` array,
- `owners`    list, A list containing the following elements:
  - `users` array,
  - `groups` array,
- `totalUserShares`    integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares
    integer. For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

models_put_shares_users

Set the permissions users have on this object

Description

Set the permissions users have on this object

Usage

models_put_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)

Arguments

id                  integer required. The ID of the resource that is shared.
user_ids            array required. An array of one or more user IDs.
permission_level    string required. Options are: "read", "write", or "manage".
share_email_body    string optional. Custom body text for e-mail sent on a share.
send_shared_email   boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers          list, A list containing the following elements:
    • users array,
    • groups array,

writers          list, A list containing the following elements:
    • users array,
    • groups array,

owners           list, A list containing the following elements:
    • users array,
multipart_upload

- groups array,
  
  totalUserShares
  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
  
  totalGroupShares
  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

multipart_upload

Upload to files endpoint in parts.

Description

If a future::plan has been set, will be carried out in parallel.

Usage

multipart_upload(file, name = "", chunk_size = 32 * 1024, expires_at = NULL)

Arguments

- file: the file
- name: name of the upload, defaults to
- chunk_size: size of the chunks in bytes
- expires_at: when the file expires (default never).

notebooks_delete

Archive a Notebook (deprecated, use archiving endpoints instead)

Description

Archive a Notebook (deprecated, use archiving endpoints instead)

Usage

notebooks_delete(id)

Arguments

- id: integer required.

Value

An empty HTTP response
**notebooks_delete_deployments**

*Delete a Notebook deployment*

**Description**

Delete a Notebook deployment

**Usage**

`notebooks_delete_deployments(notebook_id, deployment_id)`

**Arguments**

- `notebook_id` integer required. The ID of the owning Notebook
- `deployment_id` integer required. The ID for this deployment

**Value**

An empty HTTP response

---

**notebooks_delete_projects**

*Remove a Notebook from a project*

**Description**

Remove a Notebook from a project

**Usage**

`notebooks_delete_projects(id, project_id)`

**Arguments**

- `id` integer required. The ID of the Notebook.
- `project_id` integer required. The ID of the project.

**Value**

An empty HTTP response
notebooks_delete_shares_groups

Revoke the permissions a group has on this object

Description

Revoke the permissions a group has on this object

Usage

notebooks_delete_shares_groups(id, group_id)

Arguments

id integer required. The ID of the resource that is shared.
group_id integer required. The ID of the group.

Value

An empty HTTP response

notebooks_delete_shares_users

Revoke the permissions a user has on this object

Description

Revoke the permissions a user has on this object

Usage

notebooks_delete_shares_users(id, user_id)

Arguments

id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value

An empty HTTP response
notebooks_get  
Get a Notebook

Description
Get a Notebook

Usage
notebooks_get(id)

Arguments
id  integer required.

Value
A list containing the following elements:

id  integer, The ID for this notebook.
name  string, The name of this notebook.
language  string, The kernel language of this notebook.
description  string, The description of this notebook.
notebookUrl  string, Time-limited URL to get the .ipynb file for this notebook.
notebookPreviewUrl  string, Time-limited URL to get the .htm preview file for this notebook.
requirementsUrl  string, Time-limited URL to get the requirements.txt file for this notebook.
fileId  string, The file ID for the S3 file containing the .ipynb file.
requirementsFileId  string, The file ID for the S3 file containing the requirements.txt file.
user  list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
dockerImageName  string, The name of the docker image to pull from DockerHub.
dockerImageTag  string, The tag of the docker image to pull from DockerHub (default: latest).
instanceType  string, The EC2 instance type to deploy to.
memory  integer, The amount of memory allocated to the notebook.
cpu  integer, The amount of cpu allocated to the notebook.
created_at: string,
updated_at: string,
mmost_recent_deployment: list, A list containing the following elements:
  • deployment_id: integer, The ID for this deployment.
  • user_id: integer, The ID of the owner.
  • host: string, Domain of the deployment.
  • name: string, Name of the deployment.
  • docker_image_name: string, The name of the docker image to pull from DockerHub.
  • docker_image_tag: string, The tag of the docker image to pull from DockerHub (default: latest).
  • display_url: string, A signed URL for viewing the deployed item.
  • instance_type: string, The EC2 instance type requested for the deployment.
  • memory: integer, The memory allocated to the deployment.
  • cpu: integer, The CPU allocated to the deployment.
  • state: string, The state of the deployment.
  • state_message: string, A detailed description of the state.
  • created_at: string,
  • updated_at: string,
  • published: boolean,
  • notebook_id: integer, The ID of owning Notebook

credentials: array, A list of credential IDs to pass to the notebook.
environment_variables: list, Environment variables to be passed into the Notebook.
idle_timeout: integer, How long the notebook will stay alive without any kernel activity.
git_repo_id: integer, The ID of the git repository.
git_repo_url: string, The URL of the git repository.
git_ref: string, The git reference if git repo is specified.
git_path: string, The path to the .ipynb file in the git repo that will be started up on notebook launch.
archived: string, The archival status of the requested item(s).
hidden: boolean, The hidden status of the item.
notebooks_get_deployments

*Get details about a Notebook deployment*

**Description**
Get details about a Notebook deployment

**Usage**

```python
notebooks_get_deployments(notebook_id, deployment_id)
```

**Arguments**

- **notebook_id**
  - integer required. The ID of the owning Notebook
- **deployment_id**
  - integer required. The ID for this deployment

**Value**
A list containing the following elements:

- **deploymentId**
  - integer, The ID for this deployment.
- **userId**
  - integer, The ID of the owner.
- **host**
  - string, Domain of the deployment.
- **name**
  - string, Name of the deployment.
- **dockerImageName**
  - string, The name of the docker image to pull from DockerHub.
- **dockerImageTag**
  - string, The tag of the docker image to pull from DockerHub (default: latest).
- **displayUrl**
  - string, A signed URL for viewing the deployed item.
- **instanceType**
  - string, The EC2 instance type requested for the deployment.
- **memory**
  - integer, The memory allocated to the deployment.
- **cpu**
  - integer, The cpu allocated to the deployment.
- **state**
  - string, The state of the deployment.
- **stateMessage**
  - string, A detailed description of the state.
- **createdAt**
- **updatedAt**
- **published**
- **notebookId**
  - integer, The ID of owning Notebook
notebooks_get_git_commits

*Get file contents at commit_hash*

**Description**

Get file contents at commit_hash

**Usage**

```python
notebooks_get_git_commits(id, commit_hash)
```

**Arguments**

- **id**: integer required. The ID of the file.
- **commit_hash**: string required. The SHA (full or shortened) of the desired git commit.

**Value**

A list containing the following elements:

- **content**: string, The file’s contents.
- **type**: string, The file’s type.
- **size**: integer, The file’s size.
- **fileHash**: string, The SHA of the file.

---

**notebooks_list**

*List Notebooks*

**Description**

List Notebooks

**Usage**

```python
notebooks_list(
    hidden = NULL,
    archived = NULL,
    author = NULL,
    status = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```
Arguments

- **hidden** boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
- **archived** string optional. The archival status of the requested item(s).
- **author** string optional. If specified, return imports from this author. It accepts a comma-separated list of author IDs.
- **status** string optional. If specified, returns notebooks with one of these statuses. It accepts a comma-separated list, possible values are ‘running’, ‘pending’, ‘idle’.
- **limit** integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **id** integer, The ID for this notebook.
- **name** string, The name of this notebook.
- **language** string, The kernel language of this notebook.
- **description** string, The description of this notebook.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.

- **createdAt** string,
- **updatedAt** string,
- **mostRecentDeployment** list, A list containing the following elements:
  - **deploymentId** integer, The ID for this deployment.
  - **userId** integer, The ID of the owner.
  - **host** string, Domain of the deployment.
  - **name** string, Name of the deployment.
  - **dockerImageName** string, The name of the docker image to pull from DockerHub.
  - **dockerImageTag** string, The tag of the docker image to pull from DockerHub (default: latest).
notebooks_list_deployments

List deployments for a Notebook

Description

List deployments for a Notebook

Usage

```python
notebooks_list_deployments(
    notebook_id,
    deployment_id = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

- **notebook_id** integer required. The ID of the owning Notebook
- **deployment_id** integer optional. The ID for this deployment
- **limit** integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to `created_at`. Must be one of: `created_at`.
- **order_dir** string optional. Direction in which to sort, either `asc` (ascending) or `desc` (descending) defaulting to `desc`.

- instanceType string, The EC2 instance type requested for the deployment.
- memory integer, The memory allocated to the deployment.
- cpu integer, The cpu allocated to the deployment.
- state string, The state of the deployment.
- stateMessage string, A detailed description of the state.
- createdAt string,
- updatedAt string,
- published boolean,
- notebookId integer, The ID of owning Notebook

archived string, The archival status of the requested item(s).
Value

An array containing the following fields:

- **deploymentId**: integer, The ID for this deployment.
- **userId**: integer, The ID of the owner.
- **host**: string, Domain of the deployment.
- **name**: string, Name of the deployment.
- **dockerImageName**: string, The name of the docker image to pull from DockerHub.
- **dockerImageTag**: string, The tag of the docker image to pull from DockerHub (default: latest).
- **instanceType**: string, The EC2 instance type requested for the deployment.
- **memory**: integer, The memory allocated to the deployment.
- **cpu**: integer, The cpu allocated to the deployment.
- **state**: string, The state of the deployment.
- **stateMessage**: string, A detailed description of the state.
- **createdAt**, **updatedAt**, **published**: boolean.
- **notebookId**: integer, The ID of owning Notebook

---

**notebooks_list_deployments_logs**

*Get the logs for a Notebook deployment*

**Description**

Get the logs for a Notebook deployment

**Usage**

```python
notebooks_list_deployments_logs(
    id,
    deployment_id,
    start_at = NULL,
    end_at = NULL,
    limit = NULL
)
```
Arguments

- **id**: integer required. The ID of the owning Notebook.
- **deployment_id**: integer required. The ID for this deployment.
- **start_at**: string optional. Log entries with a lower timestamp will be omitted.
- **end_at**: string optional. Log entries with a higher timestamp will be omitted.
- **limit**: integer optional. The maximum number of log messages to return. Default of 10000.

Value

An array containing the following fields:

- **message**: string, The log message.
- **stream**: string, The stream of the log. One of "stdout", "stderr".
- **createdAt**: string, The time the log was created.
- **source**: string, The source of the log. One of "system", "user".

---

**notebooks_list_git**  
*Get the git metadata attached to an item*

Description

Get the git metadata attached to an item

Usage

**notebooks_list_git(id)**

Arguments

- **id**: integer required. The ID of the file.

Value

A list containing the following elements:

- **gitRef**: string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **gitBranch**: string, The git branch that the file is on.
- **gitPath**: string, The path of the file in the repository.
- **gitRepo**: list, A list containing the following elements:
  - **id**: integer, The ID for this git repository.
  - **repoUrl**: string, The URL for this git repository.
  - **createdAt**: string,
  - **updatedAt**: string,
- **pullFromGit**: boolean, Automatically pull latest commit from git. Only works for scripts.
notebooks_list_projects

List the projects a Notebook belongs to

Description

List the projects a Notebook belongs to

Usage

notebooks_list_projects(id, hidden = NULL)

Arguments

id integer required. The ID of the Notebook.
hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

notebooks_list_git_commits

Get the git commits for an item

Description

Get the git commits for an item

Usage

notebooks_list_git_commits(id)

Arguments

id integer required. The ID of the file.

Value

A list containing the following elements:

commitHash string, The SHA of the commit.
authorName string, The name of the commit's author.
date string, The commit's timestamp.
message string, The commit message.
Value

An array containing the following fields:

- **id**: integer, The ID for this project.
- **author**: list, A list containing the following elements:
  - **id**: integer, The ID of this user.
  - **name**: string, This user’s name.
  - **username**: string, This user’s username.
  - **initials**: string, This user’s initials.
  - **online**: boolean, Whether this user is online.
- **name**: string, The name of this project.
- **description**: string, A description of the project.
- **users**: array, An array containing the following fields:
  - **id**: integer, The ID of this user.
  - **name**: string, This user’s name.
  - **username**: string, This user’s username.
  - **initials**: string, This user’s initials.
  - **online**: boolean, Whether this user is online.
- **autoShare**: boolean,
- **createdAt**: string,
- **updatedAt**: string,
- **archived**: string, The archival status of the requested item(s).

---

**notebooks_list_shares** *List users and groups permissioned on this object*

---

Description

List users and groups permissioned on this object

Usage

`notebooks_list_shares(id)`

Arguments

- **id**: integer required. The ID of the resource that is shared.
Value

An array containing the following fields:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

Notebooks List Update Links

*Get URLs to update notebook*

Description

Get URLs to update notebook

Usage

notebooks_list_update_links(id)

Arguments

- **id** integer required.

Value

A list containing the following elements:

- **updateUrl** string, Time-limited URL to PUT new contents of the .ipynb file for this notebook.

- **updatePreviewUrl** string, Time-limited URL to PUT new contents of the .htm preview file for this notebook.
**Description**

Update some attributes of this Notebook

**Usage**

```python
notebooks_patch(
    id,
    name = NULL,
    language = NULL,
    description = NULL,
    file_id = NULL,
    requirements_file_id = NULL,
    requirements = NULL,
    docker_image_name = NULL,
    docker_image_tag = NULL,
    instance_type = NULL,
    memory = NULL,
    cpu = NULL,
    credentials = NULL,
    environment_variables = NULL,
    idle_timeout = NULL,
    git_repo_url = NULL,
    git_ref = NULL,
    git_path = NULL
)
```

**Arguments**

- **id**
  - integer required. The ID for this notebook.
- **name**
  - string optional. The name of this notebook.
- **language**
  - string optional. The kernel language of this notebook.
- **description**
  - string optional. The description of this notebook.
- **file_id**
  - string optional. The file ID for the S3 file containing the .ipynb file.
- **requirements_file_id**
  - string optional. The file ID for the S3 file containing the requirements.txt file.
- **requirements**
  - string optional. The requirements txt file.
- **docker_image_name**
  - string optional. The name of the docker image to pull from DockerHub.
- **docker_image_tag**
  - string optional. The tag of the docker image to pull from DockerHub (default: latest).
instance_type  string optional. The EC2 instance type to deploy to.
memory  integer optional. The amount of memory allocated to the notebook.
cpu  integer optional. The amount of cpu allocated to the notebook.
credentials  array optional. A list of credential IDs to pass to the notebook.
environment_variables  list optional. Environment variables to be passed into the Notebook.
idle_timeout  integer optional. How long the notebook will stay alive without any kernel activity.
git_repo_url  string optional. The url of the git repository.
git_ref  string optional. The git reference if git repo is specified.
git_path  string optional. The path to the .ipynb file in the git repo that will be started up on notebook launch.

Value
A list containing the following elements:

id  integer, The ID for this notebook.
name  string, The name of this notebook.
language  string, The kernel language of this notebook.
description  string, The description of this notebook.
notebook_url  string, Time-limited URL to get the .ipynb file for this notebook.
notebook_preview_url  string, Time-limited URL to get the .htm preview file for this notebook.
requirements_url  string, Time-limited URL to get the requirements.txt file for this notebook.
file_id  string, The file ID for the S3 file containing the .ipynb file.
requirements_file_id  string, The file ID for the S3 file containing the requirements.txt file.
user  list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
docker_image_name  string, The name of the docker image to pull from DockerHub.
docker_image_tag  string, The tag of the docker image to pull from DockerHub (default: latest).
instance_type  string, The EC2 instance type to deploy to.
memory  integer, The amount of memory allocated to the notebook.
cpu  integer, The amount of cpu allocated to the notebook.
created_at  string,
**Description**

Create a Notebook
Usage

```r
notebooks_post(
    name = NULL,
    language = NULL,
    description = NULL,
    file_id = NULL,
    requirements_file_id = NULL,
    requirements = NULL,
    docker_image_name = NULL,
    docker_image_tag = NULL,
    instance_type = NULL,
    memory = NULL,
    cpu = NULL,
    credentials = NULL,
    environment_variables = NULL,
    idle_timeout = NULL,
    git_repo_url = NULL,
    git_ref = NULL,
    git_path = NULL,
    hidden = NULL
)
```

Arguments

- **name**: string optional. The name of this notebook.
- **language**: string optional. The kernel language of this notebook.
- **description**: string optional. The description of this notebook.
- **file_id**: string optional. The file ID for the S3 file containing the .ipynb file.
- **requirements_file_id**: string optional. The file ID for the S3 file containing the requirements.txt file.
- **requirements**: string optional. The requirements txt file.
- **docker_image_name**: string optional. The name of the docker image to pull from DockerHub.
- **docker_image_tag**: string optional. The tag of the docker image to pull from DockerHub (default: latest).
- **instance_type**: string optional. The EC2 instance type to deploy to.
- **memory**: integer optional. The amount of memory allocated to the notebook.
- **cpu**: integer optional. The amount of cpu allocated to the the notebook.
- **credentials**: array optional. A list of credential IDs to pass to the notebook.
- **environment_variables**: list optional. Environment variables to be passed into the Notebook.
- **idle_timeout**: integer optional. How long the notebook will stay alive without any kernel activity.
git_repo_url  string optional. The url of the git repository
git_ref  string optional. The git reference if git repo is specified
git_path  string optional. The path to the .ipynb file in the git repo that will be started up on notebook launch
hidden  boolean optional. The hidden status of the item.

Value
A list containing the following elements:

id  integer, The ID for this notebook.
name  string, The name of this notebook.
language  string, The kernel language of this notebook.
description  string, The description of this notebook.
notebookUrl  string, Time-limited URL to get the .ipynb file for this notebook.
notebookPreviewUrl  string, Time-limited URL to get the .htm preview file for this notebook.
requirementsUrl  string, Time-limited URL to get the requirements.txt file for this notebook.
fileId  string, The file ID for the S3 file containing the .ipynb file.
requirementsFileId  string, The file ID for the S3 file containing the requirements.txt file.
user  list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
dockerImageName  string, The name of the docker image to pull from DockerHub.
dockerImageTag  string, The tag of the docker image to pull from DockerHub (default: latest).
instanceType  string, The EC2 instance type to deploy to.
memory  integer, The amount of memory allocated to the notebook.
cpu  integer, The amount of cpu allocated to the the notebook.
createdAt  string,
updatedAt  string,
mmostRecentDeployment  list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
- dockerImageName string, The name of the docker image to pull from DockerHub.
- dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
- displayUrl string, A signed URL for viewing the deployed item.
- instanceType string, The EC2 instance type requested for the deployment.
- memory integer, The memory allocated to the deployment.
- cpu integer, The cpu allocated to the deployment.
- state string, The state of the deployment.
- stateMessage string, A detailed description of the state.
- createdAt string,
- updatedAt string,
- published boolean,
- notebookId integer, The ID of owning Notebook

credentials array, A list of credential IDs to pass to the notebook.
environmentVariables list, Environment variables to be passed into the Notebook.
idleTimeout integer, How long the notebook will stay alive without any kernel activity.
gitRepoId integer, The ID of the git repository.
gitRepoUrl string, The url of the git repository

gitRef string, The git reference if git repo is specified

gitPath string, The path to the .ipynb file in the git repo that will be started up on notebook launch

archived string, The archival status of the requested item(s).

hidden boolean, The hidden status of the item.

---

**notebooks_post_clone**  
*Clone this Notebook*

**Description**

Clone this Notebook

**Usage**

`notebooks_post_clone(id)`

**Arguments**

id integer required.
Value

A list containing the following elements:

- **id** integer, The ID for this notebook.
- **name** string, The name of this notebook.
- **language** string, The kernel language of this notebook.
- **description** string, The description of this notebook.
- **notebookUrl** string, Time-limited URL to get the .ipynb file for this notebook.
- **notebookPreviewUrl** string, Time-limited URL to get the .htm preview file for this notebook.
- **requirementsUrl** string, Time-limited URL to get the requirements.txt file for this notebook.
- **fileId** string, The file ID for the S3 file containing the .ipynb file.
- **requirementsFileId** string, The file ID for the S3 file containing the requirements.txt file.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **dockerImageName** string, The name of the docker image to pull from DockerHub.
- **dockerImageTag** string, The tag of the docker image to pull from DockerHub (default: latest).
- **instanceType** string, The EC2 instance type to deploy to.
- **memory** integer, The amount of memory allocated to the notebook.
- **cpu** integer, The amount of cpu allocated to the notebook.
- **createdAt** string,
- **updatedAt** string,
- **mostRecentDeployment** list, A list containing the following elements:
  - **deploymentId** integer, The ID for this deployment.
  - **userId** integer, The ID of the owner.
  - **host** string, Domain of the deployment.
  - **name** string, Name of the deployment.
  - **dockerImageName** string, The name of the docker image to pull from DockerHub.
  - **dockerImageTag** string, The tag of the docker image to pull from DockerHub (default: latest).
  - **displayUrl** string, A signed URL for viewing the deployed item.
  - **instanceType** string, The EC2 instance type requested for the deployment.


- memory integer, The memory allocated to the deployment.
- cpu integer, The cpu allocated to the deployment.
- state string, The state of the deployment.
- stateMessage string, A detailed description of the state.
- createdAt string,
- updatedAt string,
- published boolean,
- notebookId integer, The ID of owning Notebook

credentials array, A list of credential IDs to pass to the notebook.
environmentVariables list, Environment variables to be passed into the Notebook.
idleTimeout integer, How long the notebook will stay alive without any kernel activity.
gitRepoId integer, The ID of the git repository.
gitRepoUrl string, The url of the git repository

gitRef string, The git reference if git repo is specified

gitPath string, The path to the .ipynb file in the git repo that will be started up on notebook launch

archived string, The archival status of the requested item(s).
hidden boolean, The hidden status of the item.

---

**notebooks_post_deployments**

*Deploy a Notebook*

**Description**

Deploy a Notebook

**Usage**

```
notebooks_post_deployments(notebook_id, deployment_id = NULL, published = NULL)
```

**Arguments**

- **notebook_id** integer required. The ID of the owning Notebook
- **deployment_id** integer optional. The ID for this deployment
- **published** boolean optional.
Value

A list containing the following elements:

- deploymentId: integer, The ID for this deployment.
- userId: integer, The ID of the owner.
- host: string, Domain of the deployment.
- name: string, Name of the deployment.
- dockerImageName: string, The name of the docker image to pull from DockerHub.
- dockerImageTag: string, The tag of the docker image to pull from DockerHub (default: latest).
- displayUrl: string, A signed URL for viewing the deployed item.
- instanceType: string, The EC2 instance type requested for the deployment.
- memory: integer, The memory allocated to the deployment.
- cpu: integer, The cpu allocated to the deployment.
- state: string, The state of the deployment.
- stateMessage: string, A detailed description of the state.
- createdAt: string,
- updatedAt: string,
- published: boolean,
- notebookId: integer, The ID of owning Notebook

Commit and push a new version of the file

Commit and push a new version of the file

Usage

notebooks_post_git_commits(id, content, message, file_hash)

Arguments

- id: integer required. The ID of the file.
- content: string required. The contents to commit to the file.
- message: string required. A commit message describing the changes being made.
- file_hash: string required. The full SHA of the file being replaced.
Value
A list containing the following elements:

<table>
<thead>
<tr>
<th>Element</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>content</td>
<td>string</td>
<td>The file’s contents.</td>
</tr>
<tr>
<td>type</td>
<td>string</td>
<td>The file’s type.</td>
</tr>
<tr>
<td>size</td>
<td>integer</td>
<td>The file’s size.</td>
</tr>
<tr>
<td>fileHash</td>
<td>string</td>
<td>The SHA of the file.</td>
</tr>
</tbody>
</table>

notebooks_put

Replace all attributes of this Notebook

Description
Replace all attributes of this Notebook

Usage

```python
notebooks_put(
    id,
    name = NULL,
    language = NULL,
    description = NULL,
    file_id = NULL,
    requirements_file_id = NULL,
    requirements = NULL,
    docker_image_name = NULL,
    docker_image_tag = NULL,
    instance_type = NULL,
    memory = NULL,
    cpu = NULL,
    credentials = NULL,
    environment_variables = NULL,
    idle_timeout = NULL,
    git_repo_url = NULL,
    git_ref = NULL,
    git_path = NULL
)
```

Arguments

- **id** integer required. The ID for this notebook.
- **name** string optional. The name of this notebook.
- **language** string optional. The kernel language of this notebook.
- **description** string optional. The description of this notebook.
- **file_id** string optional. The file ID for the S3 file containing the .ipynb file.
requirements_file_id
string optional. The file ID for the S3 file containing the requirements.txt file.
requirements
string optional. The requirements.txt file.
docker_image_name
string optional. The name of the docker image to pull from DockerHub.
docker_image_tag
string optional. The tag of the docker image to pull from DockerHub (default: latest).
instance_type
string optional. The EC2 instance type to deploy to.
memory
integer optional. The amount of memory allocated to the notebook.
cpu
integer optional. The amount of cpu allocated to the notebook.
credentials
array optional. A list of credential IDs to pass to the notebook.
environment_variables
list optional. Environment variables to be passed into the Notebook.
idle_timeout
integer optional. How long the notebook will stay alive without any kernel activity.
git_repo_url
string optional. The url of the git repository

git_ref
string optional. The git reference if git repo is specified

git_path
string optional. The path to the .ipynb file in the git repo that will be started up on notebook launch

Value
A list containing the following elements:
id
integer, The ID for this notebook.
name
string, The name of this notebook.
language
string, The kernel language of this notebook.
description
string, The description of this notebook.
notebookUrl
string, Time-limited URL to get the .ipynb file for this notebook.
notebookPreviewUrl
string, Time-limited URL to get the .htm preview file for this notebook.
requirementsUrl
string, Time-limited URL to get the requirements.txt file for this notebook.

fileId
string, The file ID for the S3 file containing the .ipynb file.

requirementsFileId
string, The file ID for the S3 file containing the requirements.txt file.

user
list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
- online boolean, Whether this user is online.

dockerImageName
string, The name of the docker image to pull from DockerHub.
dockerImageTag
string, The tag of the docker image to pull from DockerHub (default: latest).
instanceType
string, The EC2 instance type to deploy to.
memory
integer, The amount of memory allocated to the notebook.
cpu
integer, The amount of cpu allocated to the notebook.
createdAt
string,
updatedAt
string,
mostRecentDeployment
list, A list containing the following elements:
- deploymentId integer, The ID for this deployment.
- userId integer, The ID of the owner.
- host string, Domain of the deployment.
- name string, Name of the deployment.
- dockerImageName string, The name of the docker image to pull from DockerHub.
- dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
- displayUrl string, A signed URL for viewing the deployed item.
- instanceType string, The EC2 instance type requested for the deployment.
- memory integer, The memory allocated to the deployment.
- cpu integer, The cpu allocated to the deployment.
- state string, The state of the deployment.
- stateMessage string, A detailed description of the state.
- createdAt string,
- updatedAt string,
- published boolean,
- notebookId integer, The ID of owning Notebook
credentials
array, A list of credential IDs to pass to the notebook.
environmentVariables
list, Environment variables to be passed into the Notebook.
idleTimeout
integer, How long the notebook will stay alive without any kernel activity.
gitRepoId
integer, The ID of the git repository.
gitRepoUrl
string, The url of the git repository
gitRef
string, The git reference if git repo is specified
gitPath
string, The path to the .ipynb file in the git repo that will be started up on notebook launch
archived
string, The archival status of the requested item(s).
hidden
boolean, The hidden status of the item.
Update the archive status of this object

Usage

```
notebooks_put_archive(id, status)
```

Arguments

- **id**: integer required. The ID of the object.
- **status**: boolean required. The desired archived status of the object.

Value

A list containing the following elements:

- **id**: integer, The ID for this notebook.
- **name**: string, The name of this notebook.
- **language**: string, The kernel language of this notebook.
- **description**: string, The description of this notebook.
- **notebookUrl**: string, Time-limited URL to get the .ipynb file for this notebook.
- **notebookPreviewUrl**: string, Time-limited URL to get the .htm preview file for this notebook.
- **requirementsUrl**: string, Time-limited URL to get the requirements.txt file for this notebook.
- **fileId**: string, The file ID for the S3 file containing the .ipynb file.
- **requirementsFileId**: string, The file ID for the S3 file containing the requirements.txt file.
- **user**: list, A list containing the following elements:
  - **id**: integer, The ID of this user.
  - **name**: string, This user’s name.
  - **username**: string, This user’s username.
  - **initials**: string, This user’s initials.
  - **online**: boolean, Whether this user is online.
- **dockerImageName**: string, The name of the docker image to pull from DockerHub.
- **dockerImageTag**: string, The tag of the docker image to pull from DockerHub (default: latest).
- **instanceType**: string, The EC2 instance type to deploy to.
- **memory**: integer, The amount of memory allocated to the notebook.
cpu integer, The amount of cpu allocated to the the notebook.
createdAt string,
updatedAt string,
mostRecentDeployment list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
  • dockerImageName string, The name of the docker image to pull from DockerHub.
  • dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
  • displayUrl string, A signed URL for viewing the deployed item.
  • instanceType string, The EC2 instance type requested for the deployment.
  • memory integer, The memory allocated to the deployment.
  • cpu integer, The cpu allocated to the deployment.
  • state string, The state of the deployment.
  • stateMessage string, A detailed description of the state.
  • createdAt string,
  • updatedAt string,
  • published boolean,
  • notebookId integer, The ID of owning Notebook
credentials array, A list of credential IDs to pass to the notebook.
environmentVariables list, Environment variables to be passed into the Notebook.
idleTimeout integer, How long the notebook will stay alive without any kernel activity.
gitRepoId integer, The ID of the git repository.
gitRepoUrl string, The url of the git repository
gitRef string, The git reference if git repo is specified
gitPath string, The path to the .ipynb file in the git repo that will be started up on notebook launch
archived string, The archival status of the requested item(s).
hidden boolean, The hidden status of the item.
notebooks_put_git

Attach an item to a file in a git repo

Description

Attach an item to a file in a git repo

Usage

```r
notebooks_put_git(
  id,
  git_ref = NULL,
  git_branch = NULL,
  git_path = NULL,
  git_repo_url = NULL,
  pull_from_git = NULL
)
```

Arguments

- `id` integer required. The ID of the file.
- `git_ref` string optional. A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- `git_branch` string optional. The git branch that the file is on.
- `git_path` string optional. The path of the file in the repository.
- `git_repo_url` string optional. The URL of the git repository.
- `pull_from_git` boolean optional. Automatically pull latest commit from git. Only works for scripts.

Value

A list containing the following elements:

- `gitRef` string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- `gitBranch` string, The git branch that the file is on.
- `gitPath` string, The path of the file in the repository.
- `gitRepo` list, A list containing the following elements:
  - `id` integer, The ID for this git repository.
  - `repoUrl` string, The URL for this git repository.
  - `createdAt` string,
  - `updatedAt` string,
- `pullFromGit` boolean, Automatically pull latest commit from git. Only works for scripts.
notebooks_put_projects

Add a Notebook to a project

Description

Add a Notebook to a project

Usage

notebooks_put_projects(id, project_id)

Arguments

id          integer required. The ID of the Notebook.
project_id  integer required. The ID of the project.

Value

An empty HTTP response

notebooks_put_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

notebooks_put_shares_groups(
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
Arguments

- **id**  
  integer required. The ID of the resource that is shared.

- **group_ids**  
  array required. An array of one or more group IDs.

- **permission_level**  
  string required. Options are: "read", "write", or "manage".

- **share_email_body**  
  string optional. Custom body text for e-mail sent on a share.

- **send_shared_email**  
  boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers**  
  list, A list containing the following elements:
  - users array,
  - groups array,

- **writers**  
  list, A list containing the following elements:
  - users array,
  - groups array,

- **owners**  
  list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares**  
  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares**  
  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**notebooks_put_shares_users**  

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```python
notebooks_put_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
Arguments

id integer required. The ID of the resource that is shared.
user_ids array required. An array of one or more user IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

notifications_list Receive a stream of notifications as they come in

Description

Receive a stream of notifications as they come in

Usage

notifications_list(last_event_id = NULL, r = NULL, mock = NULL)
ontology_list

Arguments

last_event_id  string optional. allows browser to keep track of last event fired
r  string optional. specifies retry/reconnect timeout
mock  string optional. used for testing

Value

An empty HTTP response

---

ontology_list  List the ontology of column names Civis uses

Description

List the ontology of column names Civis uses

Usage

ontology_list(subset = NULL)

Arguments

subset  string optional. A subset of fields to return.

Value

An array containing the following fields:

key  string,
title  string,
desc  string, A description of this field.
aliases  array,
**plot.civis_ml_classifier**

*Decile plot for classification with civis_ml*

**Description**

Decile plot for classification with civis_ml

**Usage**

```r
## S3 method for class 'civis_ml_classifier'
plot(x, name = NULL, ...)
```

**Arguments**

- `x` civis_ml object.
- `name` Name of the class in a multiclass model to plot.
- `...` unused.

**Value**

A ggplot2 plot object is returned invisibly.

---

**plot.civis_ml_regressor**

*Y-yhat plot for regression with civis_ml*

**Description**

Y-yhat plot for regression with civis_ml

**Usage**

```r
## S3 method for class 'civis_ml_regressor'
plot(x, ...)
```

**Arguments**

- `x` civis_ml object
- `...` unused

**Value**

A ggplot2 plot object is returned invisibly.
predictions_get

Show the specified prediction

Description
Show the specified prediction

Usage
predictions_get(id)

Arguments
id integer required. The ID of the prediction.

Value
A list containing the following elements:

- id integer, The ID of the prediction.
- modelId integer, The ID of the model used for this prediction.
- scoredTableId integer, The ID of the source table for this prediction.
- scoredTableName string, The name of the source table for this prediction.
- outputTableName string, The name of the output table for this prediction.
- state string, The state of the last run of this prediction.
- error string, The error, if any, of the last run of this prediction.
- startedAt string, The start time of the last run of this prediction.
- finishedAt string, The end time of the last run of this prediction.
- lastRun list, A list containing the following elements:
  - id integer,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.
- scoredTables array, An array containing the following fields:
  - id integer, The ID of the table with created predictions.
  - schema string, The schema of table with created predictions.
  - name string, The name of table with created predictions.
  - createdAt string, The time when the table with created predictions was created.
predictions_list

List predictions

Description

List predictions

Usage

predictions_list(model_id = NULL)

Arguments

model_id integer optional. If specified, only return predictions associated with this model ID.

Value

An array containing the following fields:

- id integer, The ID of the prediction.
- modelId integer, The ID of the model used for this prediction.
- scoredTableId integer, The ID of the source table for this prediction.
- scoredTableName string, The name of the source table for this prediction.
- outputTableName string, The name of the output table for this prediction.
- state string, The state of the last run of this prediction.
- error string, The error, if any, of the last run of this prediction.
- startedAt string, The start time of the last run of this prediction.
- finishedAt string, The end time of the last run of this prediction.
- lastRun list, A list containing the following elements:
predictions_list_schedules

• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

predictions_list_schedules

Show the prediction schedule

Description

Show the prediction schedule

Usage

predictions_list_schedules(id)

Arguments

id integer required. ID of the prediction associated with this schedule.

Value

A list containing the following elements:

id integer, ID of the prediction associated with this schedule.
schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
scoreOnModelBuild boolean, Whether the prediction will run after a rebuild of the associated model.
print.civis_api  Print results from a Civis API call

Description

Print results from a Civis API call

Usage

```r
## S3 method for class 'civis_api'
print(x, ...)
```

Arguments

- `x` A civis_api response.
- `...` Further arguments passed to `str`

Value

The `civis_api` object, invisibly.

Examples

```r
## Not run:
query_civis("SELECT * FROM schema.my_table", "database", preview_rows = 100)
csv_to_civis("file.csv", "my_database", "schema.my_table")
print(databases_list(), max = 5)
## End(Not run)
```

projects_delete  Archive a project (deprecated, use the /archive endpoint instead)

Description

Archive a project (deprecated, use the /archive endpoint instead)

Usage

```r
projects_delete(project_id)
```

Arguments

- `project_id` integer required.

Value

An empty HTTP response
projects_delete_parent_projects

Remove an item from a Parent Project

Description

Remove an item from a Parent Project

Usage

projects_delete_parent_projects(id, parent_project_id)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the item.</td>
</tr>
<tr>
<td>parent_project_id</td>
<td>integer required. The ID of the Parent Project.</td>
</tr>
</tbody>
</table>

Value

An empty HTTP response

projects_delete_shares_groups

Revoke the permissions a group has on this object

Description

Revoke the permissions a group has on this object

Usage

projects_delete_shares_groups(id, group_id)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the resource that is shared.</td>
</tr>
<tr>
<td>group_id</td>
<td>integer required. The ID of the group.</td>
</tr>
</tbody>
</table>

Value

An empty HTTP response
**projects_delete_shares_users**

*Revoke the permissions a user has on this object*

**Description**
Revoke the permissions a user has on this object

**Usage**
```
projects_delete_shares_users(id, user_id)
```

**Arguments**
- **id** integer required. The ID of the resource that is shared.
- **user_id** integer required. The ID of the user.

**Value**
An empty HTTP response

**projects_get**

*Get a detailed view of a project and the objects in it*

**Description**
Get a detailed view of a project and the objects in it

**Usage**
```
projects_get(project_id)
```

**Arguments**
- **project_id** integer required.

**Value**
A list containing the following elements:
- **id** integer, The ID for this project.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user's name.
  - **username** string, This user's username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

name string, The name of this project.

description string, A description of the project.

users array, An array containing the following fields:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

autoShare boolean,
createdAt string,
updatedAt string,

tables array, An array containing the following fields:
• schema string,
• name string,
• rowCount integer,
• columnCount integer,
• createdAt string,
• updatedAt string,

surveys array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,

scripts array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• type string,
• finishedAt string,
• state string,
• lastRun object,

imports array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• type string,
• finishedAt string,
• state string,
• lastRun object,

exports array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• type string,
• finishedAt string,
• state string,
• lastRun object,

models array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• state string,

notebooks array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• currentDeploymentId integer,
• lastDeploy object,

services array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• currentDeploymentId integer,
• lastDeploy object,

workflows array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• state string,
• lastExecution object,

reports array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• state string,

scriptTemplates array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,

files array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• fileName string,
• fileSize integer,
• expired boolean,

enhancements array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• lastRun object,

appInstances array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• slug string,

projects array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• description string,

allObjects array, An array containing the following fields:
• projectId integer,
• objectId integer,
• objectType string,
• fcoType string,
• subType string,
• name string,
• icon string,
• author string,
• updatedAt string,
• archived string, The archival status of the requested item(s).
• hidden boolean, The hidden status of the item.
	note string,
hidden boolean, The hidden status of the item.
archived string, The archival status of the requested item(s).
parentProject list, A list containing the following elements:
  • id integer, The parent project’s ID.
  • name integer, The parent project’s name.

projects_list

List projects

Description
List projects

Usage

projects_list(
  author = NULL,
  permission = NULL,
  hidden = NULL,
  archived = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)

Arguments

author string optional. If specified, return projects owned by this author. It accepts a comma-separated list of author ids.

permission string optional. A permissions string, one of "read", "write", or "manage". Lists only projects for which the current user has that permission.

hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

archived string optional. The archival status of the requested item(s).

limit integer optional. Number of results to return. Defaults to 20. Maximum allowed is 1000.
**projects_list_parent_projects**

`projects_list_parent_projects(id, hidden = NULL)`

<table>
<thead>
<tr>
<th><strong>Value</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>id</strong></td>
</tr>
<tr>
<td><strong>author</strong></td>
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</tr>
<tr>
<td><strong>name</strong></td>
</tr>
<tr>
<td><strong>description</strong></td>
</tr>
<tr>
<td><strong>users</strong></td>
</tr>
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<td></td>
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<tr>
<td></td>
</tr>
<tr>
<td><strong>autoShare</strong></td>
</tr>
<tr>
<td><strong>createdAt</strong></td>
</tr>
<tr>
<td><strong>updatedAt</strong></td>
</tr>
<tr>
<td><strong>archived</strong></td>
</tr>
</tbody>
</table>

**Description**

List the Parent Projects an item belongs to

**Usage**

`projects_list_parent_projects(id, hidden = NULL)`
projects_list_shares

Arguments

- **id**: integer required. The ID of the item.
- **hidden**: boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value

An array containing the following fields:

- **id**: integer, The ID for this project.
- **author**: list, A list containing the following elements:
  - **id**: integer, The ID of this user.
  - **name**: string, This user’s name.
  - **username**: string, This user’s username.
  - **initials**: string, This user’s initials.
  - **online**: boolean, Whether this user is online.
- **name**: string, The name of this project.
- **description**: string, A description of the project.
- **users**: array, An array containing the following fields:
  - **id**: integer, The ID of this user.
  - **name**: string, This user’s name.
  - **username**: string, This user’s username.
  - **initials**: string, This user’s initials.
  - **online**: boolean, Whether this user is online.
- **autoShare**: boolean,
- **createdAt**: string,
- **updatedAt**: string,
- **archived**: string, The archival status of the requested item(s).

projects_list_shares  List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

projects_list_shares(id)

Arguments

- **id**: integer required. The ID of the resource that is shared.
Value

An array containing the following fields:

- **readers** list, A list containing the following elements:
  * users array,
  * groups array,

- **writers** list, A list containing the following elements:
  * users array,
  * groups array,

- **owners** list, A list containing the following elements:
  * users array,
  * groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**projects_post**  
*Create a project*

Description

Create a project

Usage

`projects_post(name, description, note = NULL, hidden = NULL)`

Arguments

- **name** string required. The name of this project.
- **description** string required. A description of the project.
- **note** string optional. Notes for the project.
- **hidden** boolean optional. The hidden status of the item.
**Value**

A list containing the following elements:

- `id` integer, The ID for this project.
- `author` list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- `name` string, The name of this project.
- `description` string, A description of the project.
- `users` array, An array containing the following fields:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- `autoShare` boolean,
- `createdAt` string,
- `updatedAt` string,
- `tables` array, An array containing the following fields:
  - schema string,
  - name string,
  - rowCount integer,
  - columnCount integer,
  - createdAt string,
  - updatedAt string,
- `surveys` array, An array containing the following fields:
  - id integer, The item’s ID.
  - createdAt string,
  - updatedAt string,
- `scripts` array, An array containing the following fields:
  - id integer, The item’s ID.
  - createdAt string,
  - updatedAt string,
  - name string,
  - type string,
  - finishedAt string,
  - state string,
import array, An array containing the following fields:
- id integer, The item’s ID.
- createdAt string,
- updatedAt string,
- name string,
- type string,
- finishedAt string,
- state string,
- lastRun object,

exports array, An array containing the following fields:
- id integer, The item’s ID.
- createdAt string,
- updatedAt string,
- name string,
- type string,
- finishedAt string,
- state string,
- lastRun object,

models array, An array containing the following fields:
- id integer, The item’s ID.
- createdAt string,
- updatedAt string,
- name string,
- state string,

notebooks array, An array containing the following fields:
- id integer, The item’s ID.
- createdAt string,
- updatedAt string,
- name string,
- currentDeploymentId integer,
- lastDeploy object,

services array, An array containing the following fields:
- id integer, The item’s ID.
- createdAt string,
- updatedAt string,
- name string,
- currentDeploymentId integer,
- lastDeploy object,

workflows array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• state string,
• lastExecution object,

reports array, An array containing the following fields:

• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• state string,

scriptTemplates array, An array containing the following fields:

• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,

files array, An array containing the following fields:

• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• fileName string,
• fileSize integer,
• expired boolean,

enhancements array, An array containing the following fields:

• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• lastRun object,

appInstances array, An array containing the following fields:

• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• slug string,

projects array, An array containing the following fields:

• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• description string,

allObjects array, An array containing the following fields:
  • projectId integer,
  • objectId integer,
  • objectType string,
  • fcoType string,
  • subType string,
  • name string,
  • icon string,
  • author string,
  • updatedAt string,
  • archived string, The archival status of the requested item(s).
  • hidden boolean, The hidden status of the item.

note string,
hidden boolean, The hidden status of the item.
archived string, The archival status of the requested item(s).
parentProject list, A list containing the following elements:
  • id integer, The parent project’s ID.
  • name integer, The parent project’s name.

projects_put Update a project

Description
Update a project

Usage
projects_put(
    project_id,
    name = NULL,
    description = NULL,
    note = NULL,
    auto_share = NULL
)

Arguments
project_id integer required.
name string optional. The name of this project.
description string optional. A description of the project.
note string optional. Notes for the project.
auto_share boolean optional. A toggle for sharing the objects within the project when the project is shared. This does not automatically share new objects to the project.
Value

A list containing the following elements:

- **id** integer, The ID for this project.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **name** string, The name of this project.
- **description** string, A description of the project.
- **users** array, An array containing the following fields:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **autoShare** boolean,
- **createdAt** string,
- **updatedAt** string,
- **tables** array, An array containing the following fields:
  - **schema** string,
  - **name** string.
  - **rowCount** integer,
  - **columnCount** integer,
  - **createdAt** string,
  - **updatedAt** string,
- **surveys** array, An array containing the following fields:
  - **id** integer, The item’s ID.
  - **createdAt** string,
  - **updatedAt** string,
- **scripts** array, An array containing the following fields:
  - **id** integer, The item’s ID.
  - **createdAt** string,
  - **updatedAt** string,
  - **name** string,
  - **type** string,
  - **finishedAt** string,
  - **state** string,
- lastRun object,

**imports** array, An array containing the following fields:
- id integer, The item's ID.
- createdAt string,
- updatedAt string,
- name string,
- type string,
- finishedAt string,
- state string,
- lastRun object,

**exports** array, An array containing the following fields:
- id integer, The item's ID.
- createdAt string,
- updatedAt string,
- name string,
- type string,
- finishedAt string,
- state string,
- lastRun object,

**models** array, An array containing the following fields:
- id integer, The item's ID.
- createdAt string,
- updatedAt string,
- name string,
- state string,

**notebooks** array, An array containing the following fields:
- id integer, The item's ID.
- createdAt string,
- updatedAt string,
- name string,
- currentDeploymentId integer,
- lastDeploy object,

**services** array, An array containing the following fields:
- id integer, The item's ID.
- createdAt string,
- updatedAt string,
- name string,
- currentDeploymentId integer,
- lastDeploy object,

**workflows** array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• state string,
• lastExecution object,

reports array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• state string,

scriptTemplates array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,

files array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• fileName string,
• fileSize integer,
• expired boolean,

enhancements array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• lastRun object,

appInstances array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• slug string,

projects array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
projects_put_archive

- name string,
- description string,

allObjects array, An array containing the following fields:
- projectId integer,
- objectId integer,
- objectType string,
- fcoType string,
- subType string,
- name string,
- icon string,
- author string,
- updatedAt string,
- archived string, The archival status of the requested item(s).
- hidden boolean, The hidden status of the item.

note string,

hidden boolean, The hidden status of the item.

archived string, The archival status of the requested item(s).

parentProject list, A list containing the following elements:
- id integer, The parent project’s ID.
- name integer, The parent project’s name.

projects_put_archive  Update the archive status of this object

Description

Update the archive status of this object

Usage

projects_put_archive(id, status)

Arguments

id integer required. The ID of the object.

status boolean required. The desired archived status of the object.
Value

A list containing the following elements:

- **id** integer, The ID for this project.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **name** string, The name of this project.
- **description** string, A description of the project.
- **users** array, An array containing the following fields:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **autoShare** boolean,
- **createdAt** string,
- **updatedAt** string,
- **tables** array, An array containing the following fields:
  - **schema** string,
  - **name** string,
  - **rowCount** integer,
  - **columnCount** integer,
  - **createdAt** string,
  - **updatedAt** string,
- **surveys** array, An array containing the following fields:
  - **id** integer, The item’s ID.
  - **createdAt** string,
  - **updatedAt** string,
- **scripts** array, An array containing the following fields:
  - **id** integer, The item’s ID.
  - **createdAt** string,
  - **updatedAt** string,
  - **name** string,
  - **type** string,
  - **finishedAt** string,
  - **state** string,
• lastRun object,

imports array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,
  • name string,
  • type string,
  • finishedAt string,
  • state string,
  • lastRun object,

exports array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,
  • name string,
  • type string,
  • finishedAt string,
  • state string,
  • lastRun object,

models array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,
  • name string,
  • state string,

notebooks array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,
  • name string,
  • currentDeploymentId integer,
  • lastDeploy object,

services array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,
  • name string,
  • currentDeploymentId integer,
  • lastDeploy object,

workflows array, An array containing the following fields:
- id integer, The item’s ID.
- createdAt string,
- updatedAt string,
- name string,
- state string,
- lastExecution object,

reports array, An array containing the following fields:
- id integer, The item’s ID.
- createdAt string,
- updatedAt string,
- name string,
- state string,

scriptTemplates array, An array containing the following fields:
- id integer, The item’s ID.
- createdAt string,
- updatedAt string,
- name string,

files array, An array containing the following fields:
- id integer, The item’s ID.
- createdAt string,
- updatedAt string,
- fileName string,
- fileSize integer,
- expired boolean,

enhancements array, An array containing the following fields:
- id integer, The item’s ID.
- createdAt string,
- updatedAt string,
- name string,
- lastRun object,

appInstances array, An array containing the following fields:
- id integer, The item’s ID.
- createdAt string,
- updatedAt string,
- name string,
- slug string,

projects array, An array containing the following fields:
- id integer, The item’s ID.
- createdAt string,
- updatedAt string,
projects_put_parent_projects

Add an item to a Parent Project

Description
Add an item to a Parent Project

Usage
projects_put_parent_projects(id, parent_project_id)

Arguments
id          integer required. The ID of the item.
parent_project_id  integer required. The ID of the Parent Project.

Value
An empty HTTP response
projects_put_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

projects_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)

Arguments

id           integer required. The ID of the resource that is shared.
group_ids    array required. An array of one or more group IDs.
permission_level  string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers      list, A list containing the following elements:
    • users array,
    • groups array,
writers      list, A list containing the following elements:
    • users array,
    • groups array,
owners       list, A list containing the following elements:
    • users array,
    • groups array,
totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares
integer. For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**projects_put_shares_users**

*Set the permissions users have on this object*

**Description**

Set the permissions users have on this object

**Usage**

```python
projects_put_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

- **id** integer required. The ID of the resource that is shared.
- **user_ids** array required. An array of one or more user IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
  - users array,
• groups array,

`totalUserShares`
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

`totalGroupShares`
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**publish_addin**

*Add in to Publish an R Markdown file to Platform Reports from RStudio*

**Description**

This function is called when the "Publish To Civis" button is pressed in the RStudio IDE AddIn menu. It will attempt to save the current changes of the active document and push it to the appropriate location in Platform. RMarkdown files will be rendered to html with `publish_rmd` and published as a report. Currently only RMarkdown files are supported.

**Usage**

`publish_addin()`

**See Also**

`publish_rmd` for publishing RMarkdown files

---

**publish_html**

*Publish HTML to Platform Reports*

**Description**

Publish HTML to Platform Reports

**Usage**

```r
publish_html(
  html_file,
  report_id = NULL,
  report_name = NULL,
  provide_api_key = NULL,
  project_id = NULL
)
```
# publish_rmd

## Arguments

- `html_file` (string): HTML file
- `report_id` (integer): ID of an existing report, if provided, the contents of the report will be replaced. If `report_id` is NULL, a new report will be created.
- `report_name` (string): Title of report in platform
- `provide_api_key` (bool): Set to true to include API key in report.
- `project_id` (integer): Project_id that the report should be added to.

## See Also

- `publish_rmd` to publish an R Markdown document to Civis

## Examples

```r
## Not run:
# Uploads html and prints link to report in Platform
publish_html("my_beautiful_report.html")
## End(Not run)
```

---

# publish_rmd

## Publish an R Markdown file to Platform Reports

### Description

Publish an R Markdown file to Platform Reports

### Usage

```r
publish_rmd(
  rmd_file,
  report_id = NULL,
  report_name = NULL,
  provide_api_key = NULL,
  project_id = NULL,
  ...
)
```

### Arguments

- `rmd_file` (string): R Markdown file (.Rmd)
- `report_id` (integer): ID of an existing report, if provided, the contents of the report will be replaced. If `report_id` is NULL, a new report will be created.
- `report_name` (string): Title of report in platform

```r
publish_rmd(  
  rmd_file,  
  report_id = NULL,  
  report_name = NULL,  
  provide_api_key = NULL,  
  project_id = NULL,  
  ...
)
```
provide_api_key
  bool, Set to true to include API key in report.
project_id
  integer, Project_id that the report should be added to.
...
additional parameters to send to \texttt{rmarkdown::render}. Note: A temporary file will be used for output_file if output_file is not explicitly set and input will be overwritten with rmd_file.

Details

This function also supports passing report_id, report_name, provide_api_key and project_id as metadata in the report's YAML front matter. Just as the title of an RMarkdown document can be set with \texttt{title: "my title!"}, these parameters can be set like

\begin{verbatim}
civis:
  report_name: "My Report Name"
  report_id: 9000
\end{verbatim}

Since report_id is set, this code will overwrite the existing report with that number, which may be useful when updating a report on a schedule. Any argument passed in explicitly to \texttt{publish_rmd} will be used in place of the corresponding argument set in YAML metadata.

Note

\texttt{rmarkdown::render} depends on a recent version of pandoc. pandoc is distributed with RStudio and thus, \texttt{publish_rmd} will work in an RStudio environment. Outside of RStudio pandoc may be installed or \texttt{knitr::knit2html} can be used to convert an R Markdown document into html. The html can then be published to Civis with \texttt{publish_html}.

See Also

\texttt{publish_html} to publish html to Civis

Examples

\begin{verbatim}
## Not run:

# Publish a standard report
publish_rmd("my_beautiful_doc.Rmd")

# Publish a parameterized R Markdown document
# See: \url{http://rmarkdown.rstudio.com/developer_parameterized_reports.html}
params <- list("region" = "east", start = as.Date("2015-02-01"))
publish_rmd("my_parameterized_doc.Rmd", params=params)

## End(Not run)
\end{verbatim}
queries_delete_runs  Cancel a run

**Description**
Cancel a run

**Usage**
queries_delete_runs(id, run_id)

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the query.</td>
</tr>
<tr>
<td>run_id</td>
<td>integer required. The ID of the run.</td>
</tr>
</tbody>
</table>

**Value**
An empty HTTP response

queries_get  Get details about a query

**Description**
Get details about a query

**Usage**
queries_get(id)

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The query ID.</td>
</tr>
</tbody>
</table>

**Value**
A list containing the following elements:

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The query ID.</td>
</tr>
<tr>
<td>database</td>
<td>integer, The database ID.</td>
</tr>
<tr>
<td>sql</td>
<td>string, The SQL to execute.</td>
</tr>
<tr>
<td>credential</td>
<td>integer, The credential ID.</td>
</tr>
<tr>
<td>resultRows</td>
<td>array, A preview of rows returned by the query.</td>
</tr>
<tr>
<td>resultColumns</td>
<td>array, A preview of columns returned by the query.</td>
</tr>
</tbody>
</table>
queries_get_runs

Check status of a run

Description

Check status of a run

Usage

queries_get_runs(id, run_id)

Arguments

id

integer required. The ID of the query.

run_id

integer required. The ID of the run.
queries_list

Value

A list containing the following elements:

- **id**: integer, The ID of the run.
- **queryId**: integer, The ID of the query.
- **state**: string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested**: boolean, True if run cancel requested, else false.
- **startedAt**: string, The time the last run started at.
- **finishedAt**: string, The time the last run completed.
- **error**: string, The error, if any, returned by the run.

---

queries_list List

Description

List

Usage

```python
queries_list(
    database_id = NULL,
    author_id = NULL,
    created_before = NULL,
    exclude_results = NULL,
    hidden = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

- **database_id**: integer optional. The database ID.
- **author_id**: integer optional. The author of the query.
- **created_before**: string optional. An upper bound for the creation date of the query.
- **exclude_results**: boolean optional. If true, does not return cached query results.
- **hidden**: boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
queries_list_runs

limit  integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
page_num  integer optional. Page number of the results to return. Defaults to the first page, 1.
order  string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at.
order_dir  string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:
id  integer, The query ID.
database  integer, The database ID.
sql  string, The SQL to execute.
credential  integer, The credential ID.
resultRows  array, A preview of rows returned by the query.
resultColumns  array, A preview of columns returned by the query.
scriptId  integer, The ID of the script associated with this query.
exception  string, Deprecated and not used.
error  string, The error message for this run, if present.
createdAt  string,
updatedAt  string,
finishedAt  string, The end time of the last run.
state  string, The state of the last run.
lastRunId  integer, The ID of the last run.
previewRows  integer, The number of rows to save from the query’s result (maximum: 100).
startedAt  string, The start time of the last run.
reportId  integer, The ID of the report associated with this query.

queries_list_runs  List runs for the given query

Description

List runs for the given query
Usage

```python
queries_list_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

- **id**: integer required. The ID of the query.
- **limit**: integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
- **page_num**: integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**: string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
- **order_dir**: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **id**: integer, The ID of the run.
- **queryId**: integer, The ID of the query.
- **state**: string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested**: boolean, True if run cancel requested, else false.
- **startedAt**: string, The time the last run started at.
- **finishedAt**: string, The time the last run completed.
- **error**: string, The error, if any, returned by the run.

Description

Get the logs for a run
Usage

queries_list_runs_logs(id, run_id, last_id = NULL, limit = NULL)

Arguments

id integer required. The ID of the query.
run_id integer required. The ID of the run.
last_id integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
limit integer optional. The maximum number of log messages to return. Default of 10000.

Value

An array containing the following fields:

id integer, The ID of the log.
createdAt string, The time the log was created.
message string, The log message.
level string, The level of the log. One of unknown,fatal,error,warn,info,debug.

queries_post Execute a query

Description

Execute a query

Usage

queries_post(
   database,
   sql,
   preview_rows,
   credential = NULL,
   hidden = NULL,
   interactive = NULL,
   include_header = NULL,
   compression = NULL,
   column_delimiter = NULL,
   unquoted = NULL,
   filename_prefix = NULL
)
Arguments

database  integer required. The database ID.
sql  string required. The SQL to execute.
preview_rows  integer required. The number of rows to save from the query’s result (maximum: 100).
credential  integer optional. The credential ID.
hidden  boolean optional. The hidden status of the item.
interactive  boolean optional. Deprecated and not used.
include_header  boolean optional. Whether the CSV output should include a header row [default: true].
compression  string optional. The type of compression. One of gzip or zip, or none [default: gzip].
column_delimiter  string optional. The delimiter to use. One of comma or tab, or pipe [default: comma].
unquoted  boolean optional. If true, will not quote fields.
filename_prefix  string optional. The output filename prefix.

Value

A list containing the following elements:

id  integer, The query ID.
database  integer, The database ID.
sql  string, The SQL to execute.
credential  integer, The credential ID.
resultRows  array, A preview of rows returned by the query.
resultColumns  array, A preview of columns returned by the query.
scriptId  integer, The ID of the script associated with this query.
exception  string, Deprecated and not used.
error  string, The error message for this run, if present.
createdAt  string,
updatedAt  string,
finishedAt  string, The end time of the last run.
state  string, The state of the last run.
lastRunId  integer, The ID of the last run.
hidden  boolean, The hidden status of the item.
interactive  boolean, Deprecated and not used.
previewRows  integer, The number of rows to save from the query’s result (maximum: 100).
includeHeader boolean, Whether the CSV output should include a header row [default: true].
compression string, The type of compression. One of gzip or zip, or none [default: gzip].
columnDelimiter string, The delimiter to use. One of comma or tab, or pipe [default: comma].
unquoted boolean, If true, will not quote fields.
filenamePrefix string, The output filename prefix.
startedAt string, The start time of the last run.
reportId integer, The ID of the report associated with this query.

queries_post_runs  Start a run

Description
Start a run

Usage
queries_post_runs(id)

Arguments
id integer required. The ID of the query.

Value
A list containing the following elements:
id integer, The ID of the run.
queryId integer, The ID of the query.
state string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested boolean, True if run cancel requested, else false.
startedAt string, The time the last run started at.
finishedAt string, The time the last run completed.
error string, The error, if any, returned by the run.
queries_put_scripts  
Update the query’s associated script

Description
Update the query’s associated script

Usage
queries_put_scripts(id, script_id)

Arguments
id  integer required. The query ID.
script_id  integer required. The ID of the script associated with this query.

Value
A list containing the following elements:

id  integer, The query ID.
database  integer, The database ID.
sql  string, The SQL to execute.
credential  integer, The credential ID.
resultRows  array, A preview of rows returned by the query.
resultColumns  array, A preview of columns returned by the query.
scriptId  integer, The ID of the script associated with this query.
exception  string, Deprecated and not used.
error  string, The error message for this run, if present.
createdAt  string,
updatedAt  string,
finishedAt  string, The end time of the last run.
state  string, The state of the last run.
lastRunId  integer, The ID of the last run.
hidden  boolean, The hidden status of the item.
name  string, The name of the query.
author  list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
startedAt  string, The start time of the last run.
reportId  integer, The ID of the report associated with this query.
query_civis

Run a Query on Platform

Description
Utility to run queries that return no output.

A default database can be set using options(civis.default_db = "my_database"). If there is only one database available, this database will automatically be used as the default.

Usage

query_civis(x, ...)

## S3 method for class 'sql'
query_civis(x, database = NULL, verbose = FALSE, ...)

## S3 method for class 'numeric'
query_civis(x, verbose = FALSE, ...)

## S3 method for class 'character'
query_civis(x, database = NULL, verbose = FALSE, ...)

Arguments

- x: sql("...") , "query", or id of an existing sql script.
- ...: arguments passed to queries_post.
- database: string, Name of database where query is run.
- verbose: bool, Print detailed updates of job status.

Methods (by class)

- sql: Run a SQL query.
- numeric: Run a SQL query from a previous SQL query id.
- character: Run a SQL query.

See Also

read_civis for downloading results of SQL scripts from Civis Platform as a data frame.

io

Other io: download_civis(), query_civis_file(), read_civis(), write_civis_file(), write_civis()
query_civis_file

Examples

```r
## Not run:
query_civis("GRANT ALL ON schema.my_table TO GROUP admin", "database", credential=0000)

## End(Not run)
```

---

query_civis_file  
Export results from a query to S3 and return a file id.

Description

Exports results from a Redshift SQL query, and returns the id of the file on S3 for use with read_civis or download_civis.

Usage

```r
query_civis_file(x, ...)
```

---

## S3 method for class 'character'

```r
query_civis_file(
  x,
  database = NULL,
  job_name = NULL,
  hidden = TRUE,
  verbose = verbose,
  csv_settings = NULL,
  ...
)
```

## S3 method for class 'sql'

```r
query_civis_file(
  x,
  database = NULL,
  job_name = NULL,
  hidden = TRUE,
  verbose = FALSE,
  csv_settings = NULL,
  ...
)
```

## S3 method for class 'numeric'

```r
query_civis_file(x, database = NULL, verbose = FALSE, ...)
```
Arguments

x "schema.table", sql("query"), or a sql script job id.
... Options passed to scripts_post_sql, including credential.
database string, Name of database where data frame is to be uploaded. If no database is specified, uses options(civis.default_db).
job_name string, Name of the job (default: "Civis S3 Export Via R Client").
hidden bool, Whether the job is hidden.
verbose bool, Set to TRUE to print intermediate progress indicators.
csv_settings See scripts_post_sql for details.

Details

By default, the export uses the default csv_settings in scripts_post_sql, which is a gzipped csv.

Methods (by class)

- character: Export a "schema.table" to a file id.
- sql: Export results of a query to a file id.
- numeric: Run an existing sql script and return the file id of the results on S3.

See Also

Other io: download_civis(), query_civis(), read_civis(), write_civis_file(), write_civis()

Examples

```r
## Not run:
id <- query_civis_file("schema.tablename", database = "my_database")
df <- read_civis(id, using = read.csv)

query <- sql("SELECT * FROM table JOIN other_table USING id WHERE var1 < 23")
id <- query_civis_file(query)
df <- read_civis(id, using = read.csv)

id <- query_civis_file(query_id, credential_id = 0000)
df <- read_civis(id, using = read.csv)

## End(Not run)
```
Description

`read_civis` loads a table from Redshift as a data frame if given a "schema.table" or `sql("query")` as the first argument, or loads a file from Amazon S3 (the files endpoint) if a file id is given. Run outputs from any Civis platform script are returned if a `civis_script` is given.

A default database can be set using `options(civis.default_db = "my_database")`. If there is only one database available, this database will automatically be used as the default.

Usage

```r
read_civis(x, ...)
```

```r
## S3 method for class 'numeric'
read_civis(x, using = read.csv, verbose = FALSE, ...)
```

```r
## S3 method for class 'character'
read_civis(x, database = NULL, ...)
```

```r
## S3 method for class 'sql'
read_civis(
  x,
  database = NULL,
  using = utils::read.csv,
  job_name = NULL,
  hidden = TRUE,
  verbose = FALSE,
  ...
)
```

```r
## S3 method for class 'civis_script'
read_civis(x, using, regex = NULL, ...)
```

Arguments

- `x`: "schema.table", `sql("query")`, or a file id.
- `...`: arguments passed to `using`.
- `using`: function, Function to convert the file to a data frame or to unserialize the file (e.g. `read.csv` or `readRDS`).
- `verbose`: bool. Set to TRUE to print intermediate progress indicators.
- `database`: string. Name of database where data frame is to be uploaded. If no database is specified, uses `options(civis.default_db)`. 
- `job_name`: string. Name of the job (default: "Civis Export Via R Client").
hidden    bool, Whether the job is hidden.
regex     Regex of matching run output names.

Details
By default, read_civis.numeric assumes the file is a CSV. For reading a serialized R object, set using = readRDS for example.
If using = NULL, read_civis.civis_script will return all JSONValues with name matching regex. Otherwise all File run outputs matching regex will be read into memory with using. Results are always a named list. If the script has no outputs, an empty list will be returned.

Methods (by class)
• numeric: Return a file as a data frame
• character: Return all columns from a table as a data frame.
• sql: Return a SQL query as a data frame.
• civis_script: Return run outputs of a civis_script as a named list.

See Also
Other io: download_civis(), query_civis_file(), query_civis(), write_civis_file(), write_civis()

Examples
## Not run:
# Read all columns in a single table
df <- read_civis("schema.my_table", database = "my_database")

# Read data from a SQL select statement
query <- sql("SELECT * FROM other_table JOIN other_table USING id WHERE var1 < 23")
df <- read_civis(query, database = "my_database")

# Read an R object from the files endpoint.
id <- write_civis_file(df)
df <- read_civis(id)

# Read a text file or csv from the files endpoint.
id <- write_civis_file("my_csv.csv")
df <- read_civis(id)

# Read JSONValues from a civis script
vals <- read_civis(civis_script(1234))

# Read File run outputs from a civis script
df <- read_civis(civis_script(1234), regex = ".csv", using = read.csv)
obj <- read_civis(civis_script(1234), regex = ".rds", using = readRDS)

# Gracefully handle when read_civis.sql returns no rows
query <- sql("SELECT * FROM table WHERE 1 = 2")
mean_x <- tryCatch({
df <- read_civis(query, database = "my_database")
mean(df$x)
}, empty_result_error = function(e) {
NA
})

## End(Not run)

### refresh_table

**Refresh a table**

**Description**

Refreshes a table on Redshift using `tables_post_refresh`, which runs the table scanner and updates table meta-data.

**Usage**

```r
refresh_table(tablename, database = NULL, verbose = FALSE)
```

**Arguments**

- `tablename` (string): Name of table and schema "schema.tablename"
- `database` (string): Name of database where data frame is to be uploaded. If no database is specified, uses `options(civis.default_db)`
- `verbose` (bool): Set to TRUE to print intermediate progress indicators.

**Value**

Returns table meta-data from `tables_get`.

**See Also**

Other tables: `get_table_id()`, `transfer_table()`

---

### remote_hosts_list

**List the remote hosts**

**Description**

List the remote hosts

**Usage**

```r
remote_hosts_list(type = NULL)
```
remote_hosts_list_data_sets

List data sets available from a remote host

Arguments

id integer required. The ID of the remote host.
credential_id integer optional. The credential ID.
username string optional. The user name for remote host.
password string optional. The password for remote host.
q string optional. The query string for data set.
s boolean optional. If true will only return schemas, otherwise, the results will be the full path.

Value

An array containing the following fields:

id integer, The ID of the remote host.
name string, The name of the remote host.
type string, The type of remote host. One of: RemoteHostTypes::Bitbucket, RemoteHostTypes::GitSSH, RemoteHostTypes::Github, RemoteHostTypes::GoogleDoc, RemoteHostTypes::JDBC, RemoteHostTypes::Postgres, RemoteHostTypes::Redshift, RemoteHostTypes::S3Storage, and RemoteHostTypes::Salesforce
url string, The URL for remote host.
remote_hosts_post

Value

An array containing the following fields:

- **name**: string, The path to a data_set.
- **fullPath**: boolean, Boolean that indicates whether further querying needs to be done before the table can be selected.

---

remote_hosts_post

*Create a new remote host*

---

Description

Create a new remote host

Usage

```python
remote_hosts_post(name, url, type)
```

Arguments

- **name**: string required. The human readable name for the remote host.
- **url**: string required. The URL to your host.
- **type**: string required. The type of remote host. One of: RemoteHostTypes::Bitbucket, RemoteHostTypes::GitSSH, RemoteHostTypes::Github, RemoteHostTypes::GoogleDoc, RemoteHostTypes::JDBC, RemoteHostTypes::Postgres, RemoteHostTypes::Redshift, RemoteHostTypes::S3Storage, and RemoteHostTypes::Salesforce

Value

A list containing the following elements:

- **id**: integer, The ID of the remote host.
- **name**: string, The name of the remote host.
- **type**: string, The type of remote host. One of: RemoteHostTypes::Bitbucket, RemoteHostTypes::GitSSH, RemoteHostTypes::Github, RemoteHostTypes::GoogleDoc, RemoteHostTypes::JDBC, RemoteHostTypes::Postgres, RemoteHostTypes::Redshift, RemoteHostTypes::S3Storage, and RemoteHostTypes::Salesforce
- **url**: string, The URL for remote host.
remote_hosts_post_authenticate

Authenticate against a remote host using either a credential or a user name and password

Description

Authenticate against a remote host using either a credential or a user name and password

Usage

remote_hosts_post_authenticate(
    id,
    credential_id = NULL,
    username = NULL,
    password = NULL
)

Arguments

id | integer required. The ID of the remote host.
credential_id | integer optional. The credential ID.
username | string optional. The user name for remote host.
password | string optional. The password for remote host.

Value

An empty HTTP response

reports_delete_grants

Revoke permission for this report to perform Civis platform API operations on your behalf

Description

Revoke permission for this report to perform Civis platform API operations on your behalf

Usage

reports_delete_grants(id)

Arguments

id | integer required. The ID of this report.
Value
   An empty HTTP response

reports_delete_projects
   Remove a Report from a project

Description
   Remove a Report from a project

Usage
   reports_delete_projects(id, project_id)

Arguments
   id    integer required. The ID of the Report.
   project_id   integer required. The ID of the project.

Value
   An empty HTTP response

reports_delete_services_projects
   Remove a Service Report from a project

Description
   Remove a Service Report from a project

Usage
   reports_delete_services_projects(id, project_id)

Arguments
   id    integer required. The ID of the Service Report.
   project_id   integer required. The ID of the project.

Value
   An empty HTTP response
reports_delete_services_shares_groups

Revoke the permissions a group has on this object

Description

Revoke the permissions a group has on this object

Usage

reports_delete_services_shares_groups(id, group_id)

Arguments

id          integer required. The ID of the resource that is shared.
group_id    integer required. The ID of the group.

Value

An empty HTTP response

reports_delete_services_shares_users

Revoke the permissions a user has on this object

Description

Revoke the permissions a user has on this object

Usage

reports_delete_services_shares_users(id, user_id)

Arguments

id          integer required. The ID of the resource that is shared.
user_id     integer required. The ID of the user.

Value

An empty HTTP response
**reports_delete_shares_groups**

*Revoke the permissions a group has on this object*

**Description**

Revoke the permissions a group has on this object

**Usage**

`reports_delete_shares_groups(id, group_id)`

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the resource that is shared.</td>
</tr>
<tr>
<td>group_id</td>
<td>integer required. The ID of the group.</td>
</tr>
</tbody>
</table>

**Value**

An empty HTTP response

---

**reports_delete_shares_users**

*Revoke the permissions a user has on this object*

**Description**

Revoke the permissions a user has on this object

**Usage**

`reports_delete_shares_users(id, user_id)`

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the resource that is shared.</td>
</tr>
<tr>
<td>user_id</td>
<td>integer required. The ID of the user.</td>
</tr>
</tbody>
</table>

**Value**

An empty HTTP response
**Description**

Show a single report

**Usage**

```
reports_get(id)
```

**Arguments**

id(integer required. The ID of this report.

**Value**

A list containing the following elements:

- **id** (integer, The ID of this report.)
- **name** (string, The name of the report.)
- **user** (list, A list containing the following elements:
  - id (integer, The ID of this user.)
  - name (string, This user’s name.)
  - username (string, This user’s username.)
  - initials (string, This user’s initials.)
  - online (boolean, Whether this user is online.)
- **createdAt** (string, )
- **updatedAt** (string, )
- **projects** (array, An array containing the following fields:
  - id (integer, The ID for the project.)
  - name (string, The name of the project.)
- **state** (string, The status of the report’s last run.)
- **finishedAt** (string, The time that the report’s last run finished.)
- **vizUpdatedAt** (string, The time that the report’s visualization was last updated.)
- **script** (list, A list containing the following elements:
  - id (integer, The ID for the script.)
  - name (string, The name of the script.)
  - sql (string, The raw SQL query for the script.)
- **jobPath** (string, The link to details of the job that backs this report.)
- **tableauId** (integer, )
- **type** (string, )
templateId  integer, The ID of the template used for this report.
authThumbnailUrl  string, URL for a thumbnail of the report.
lastRun  list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.
archived  string, The archival status of the requested item(s).
hidden  boolean, The hidden status of the item.
authDataUrl  string,
authCodeUrl  string,
config  string, Any configuration metadata for this report.
validOutputFile  boolean, Whether the job (a script or a query) that backs the report currently has a valid output file.
provideAPIKey  boolean, Whether the report requests an API Key from the report viewer.
apiKey  string, A Civis API key that can be used by this report.
apiKeyId  integer, The ID of the API key. Can be used for auditing API use by this report.
appState  list, Any application state blob for this report.
useViewersTableauUsername  boolean, Apply user level filtering on Tableau reports.

---

**reports_get_git_commits**

*Get file contents at commit_hash*

---

**Description**

Get file contents at commit_hash

**Usage**

`reports_get_git_commits(id, commit_hash)`

**Arguments**

- **id**  integer required. The ID of the file.
- **commit_hash**  string required. The SHA (full or shortened) of the desired git commit.
Value

A list containing the following elements:

- content (string), The file’s contents.
- type (string), The file’s type.
- size (integer), The file’s size.
- fileHash (string), The SHA of the file.

reports_get_services

Show a single service report

Description

Show a single service report

Usage

reports_get_services(id)

Arguments

- id (integer required), The ID of this report.

Value

A list containing the following elements:

- id (integer), The ID of this report.
- name (string), The name of the report.
- user (list), A list containing the following elements:
  - id (integer), The ID of this user.
  - name (string), This user’s name.
  - username (string), This user’s username.
  - initials (string), This user’s initials.
  - online (boolean), Whether this user is online.
- createdAt (string),
- updatedAt (string),
- host (string), The host for the service report
- displayUrl (string), The URL to display the service report.
- serviceId (integer), The id of the backing service
- provideAPIKey (boolean), Whether the report requests an API Key from the report viewer.
- apiKey (string), A Civis API key that can be used by this report.
- apiKeyId (integer), The ID of the API key. Can be used for auditing API use by this report.
Description

List Reports

Usage

```python
reports_list(
    type = NULL,
    author = NULL,
    template_id = NULL,
    hidden = NULL,
    archived = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

- **type** string optional. If specified, return report of these types. It accepts a comma-separated list, possible values are 'tableau' or 'other'.
- **author** string optional. If specified, return reports from this author. It accepts a comma-separated list of author ids.
- **template_id** integer optional. If specified, return reports using the provided Template.
- **hidden** boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
- **archived** string optional. The archival status of the requested item(s).
- **limit** integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **id** integer, The ID of this report.
reports_list

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>string</td>
<td>The name of the report.</td>
</tr>
<tr>
<td>user</td>
<td>list</td>
<td>A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• id integer, The ID of this user.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• name string, This user’s name.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• username string, This user’s username.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• initials string, This user’s initials.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• online boolean, Whether this user is online.</td>
</tr>
<tr>
<td>createdAt</td>
<td>string</td>
<td></td>
</tr>
<tr>
<td>updatedAt</td>
<td>string</td>
<td></td>
</tr>
<tr>
<td>projects</td>
<td>array</td>
<td>An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• id integer, The ID for the project.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• name string, The name of the project.</td>
</tr>
<tr>
<td>state</td>
<td>string</td>
<td>The status of the report’s last run.</td>
</tr>
<tr>
<td>finishedAt</td>
<td>string</td>
<td>The time that the report’s last run finished.</td>
</tr>
<tr>
<td>vizUpdatedAt</td>
<td>string</td>
<td>The time that the report’s visualization was last updated.</td>
</tr>
<tr>
<td>script</td>
<td>list</td>
<td>A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• id integer, The ID for the script.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• name string, The name of the script.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• sql string, The raw SQL query for the script.</td>
</tr>
<tr>
<td>jobPath</td>
<td>string</td>
<td>The link to details of the job that backs this report.</td>
</tr>
<tr>
<td>tableauId</td>
<td>integer</td>
<td></td>
</tr>
<tr>
<td>type</td>
<td>string</td>
<td></td>
</tr>
<tr>
<td>templateId</td>
<td>integer</td>
<td>The ID of the template used for this report.</td>
</tr>
<tr>
<td>authThumbnailUrl</td>
<td>string</td>
<td>URL for a thumbnail of the report.</td>
</tr>
<tr>
<td>lastRun</td>
<td>list</td>
<td>A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• id integer,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• state string,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• createdAt string, The time that the run was queued.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• startedAt string, The time that the run started.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• finishedAt string, The time that the run completed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• error string, The error message for this run, if present.</td>
</tr>
<tr>
<td>archived</td>
<td>string</td>
<td>The archival status of the requested item(s).</td>
</tr>
</tbody>
</table>
**reports_list_git**

*Get the git metadata attached to an item*

**Description**

Get the git metadata attached to an item

**Usage**

```python
reports_list_git(id)
```

**Arguments**

- `id`
  - integer required. The ID of the file.

**Value**

A list containing the following elements:

- `gitRef`
  - string. A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.

- `gitBranch`
  - string. The git branch that the file is on.

- `gitPath`
  - string. The path of the file in the repository.

- `gitRepo`
  - list. A list containing the following elements:
    - `id`
      - integer. The ID for this git repository.
    - `repoUrl`
      - string. The URL for this git repository.
    - `createdAt`
      - string.
    - `updatedAt`
      - string.

- `pullFromGit`
  - boolean. Automatically pull latest commit from git. Only works for scripts.

**reports_list_git_commits**

*Get the git commits for an item*

**Description**

Get the git commits for an item

**Usage**

```python
reports_list_git_commits(id)
```

**Arguments**

- `id`
  - integer required. The ID of the file.
Value

A list containing the following elements:

- **commitHash** string, The SHA of the commit.
- **authorName** string, The name of the commit’s author.
- **date** string, The commit’s timestamp.
- **message** string, The commit message.

---

reports_list_projects  List the projects a Report belongs to

---

Description

List the projects a Report belongs to

Usage

```none
reports_list_projects(id, hidden = NULL)
```

Arguments

- **id** integer required. The ID of the Report.
- **hidden** boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value

An array containing the following fields:

- **id** integer, The ID for this project.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **name** string, The name of this project.
- **description** string, A description of the project.
- **users** array, An array containing the following fields:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
• online boolean, Whether this user is online.

autoShare   boolean,
createdAt   string,
updatedAt   string,
archived    string, The archival status of the requested item(s).

reports_list_services_projects

List the projects a Service Report belongs to

Description

List the projects a Service Report belongs to

Usage

reports_list_services_projects(id, hidden = NULL)

Arguments

id          integer required. The ID of the Service Report.
hidden      boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value

An array containing the following fields:

id          integer, The ID for this project.
author      list, A list containing the following elements:
              • id integer, The ID of this user.
              • name string, This user’s name.
              • username string, This user’s username.
              • initials string, This user’s initials.
              • online boolean, Whether this user is online.
name        string, The name of this project.
description string, A description of the project.
users       array, An array containing the following fields:
              • id integer, The ID of this user.
              • name string, This user’s name.
              • username string, This user’s username.
              • initials string, This user’s initials.
              • online boolean, Whether this user is online.
autoShare boolean,
createdAt string,
updatedAt string,
archived string, The archival status of the requested item(s).

reports_list_services_shares

List users and groups permissioned on this object

Description
List users and groups permissioned on this object

Usage
reports_list_services_shares(id)

Arguments
id integer required. The ID of the resource that is shared.

Value
An array containing the following fields:
readers list, A list containing the following elements:
  • users array,
  • groups array,
writers list, A list containing the following elements:
  • users array,
  • groups array,
owners list, A list containing the following elements:
  • users array,
  • groups array,
totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
reports_list_shares  List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

reports_list_shares(id)

Arguments

id        integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

readers     list, A list containing the following elements:
            • users array,
            • groups array,

writers     list, A list containing the following elements:
            • users array,
            • groups array,

owners      list, A list containing the following elements:
            • users array,
            • groups array,

totalUserShares
            integer, For owners, the number of total users shared. For writers and readers,
            the number of visible users shared.

totalGroupShares
            integer, For owners, the number of total groups shared. For writers and readers,
            the number of visible groups shared.
Description

Update a report

Usage

```
reports_patch(
    id,
    name = NULL,
    script_id = NULL,
    code_body = NULL,
    config = NULL,
    app_state = NULL,
    provide_api_key = NULL,
    template_id = NULL,
    use_viewers_tableau_username = NULL
)
```

Arguments

- **id**: integer required. The ID of the report to modify.
- **name**: string optional. The name of the report.
- **script_id**: integer optional. The ID of the job (a script or a query) used to create this report.
- **code_body**: string optional. The code for the report visualization.
- **config**: string optional.
- **app_state**: list optional. The application state blob for this report.
- **provide_api_key**: boolean optional. Allow the report to provide an API key to front-end code.
- **template_id**: integer optional. The ID of the template used for this report. If null is passed, no template will back this report. Changes to the backing template will reset the report appState.
- **use_viewers_tableau_username**: boolean optional. Apply user level filtering on Tableau reports.

Value

A list containing the following elements:

- **id**: integer, The ID of this report.
- **name**: string, The name of the report.
- **user**: list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

createdAt string,
updatedAt string,
projects array, An array containing the following fields:
• id integer, The ID for the project.
• name string, The name of the project.

state string, The status of the report’s last run.
finishedAt string, The time that the report’s last run finished.
vizUpdatedAt string, The time that the report’s visualization was last updated.

script list, A list containing the following elements:
• id integer, The ID for the script.
• name string, The name of the script.
• sql string, The raw SQL query for the script.

jobPath string, The link to details of the job that backs this report.
tableauId integer,
type string,
templateId integer, The ID of the template used for this report.
authThumbnailUrl string, URL for a thumbnail of the report.

lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

archived string, The archival status of the requested item(s).
hidden boolean, The hidden status of the item.
authDataUrl string,
authCodeUrl string,
config string, Any configuration metadata for this report.
validOutputFile boolean, Whether the job (a script or a query) that backs the report currently has a valid output file.

provideAPIKey boolean, Whether the report requests an API Key from the report viewer.
apiKey string, A Civis API key that can be used by this report.
apiKeyId integer, The ID of the API key. Can be used for auditing API use by this report.
appState list, Any application state blob for this report.
useViewersTableauUsername boolean, Apply user level filtering on Tableau reports.

---

**reports_patch_services**

*Update some attributes of this service report*

**Description**

Update some attributes of this service report

**Usage**

`reports_patch_services(id, name = NULL, provide_api_key = NULL)`

**Arguments**

- **id** integer required. The ID of this report.
- **name** string optional. The name of the service report.
- **provide_api_key** boolean optional. Whether the report requests an API Key from the report viewer.

**Value**

A list containing the following elements:

- **id** integer, The ID of this report.
- **name** string, The name of the report.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **createdAt** string,
- **updatedAt** string,
- **host** string, The host for the service report
- **displayUrl** string, The URL to display the service report.
- **serviceId** integer, The id of the backing service
- **provideAPIKey** boolean, Whether the report requests an API Key from the report viewer.
- **apiKey** string, A Civis API key that can be used by this report.
- **apiKeyId** integer, The ID of the API key. Can be used for auditing API use by this report.
Description

Create a report

Usage

```r
reports_post(
    script_id = NULL,
    name = NULL,
    code_body = NULL,
    app_state = NULL,
    provide_api_key = NULL,
    template_id = NULL,
    hidden = NULL
)
```

Arguments

- **script_id**  
  integer optional. The ID of the job (a script or a query) used to create this report.
- **name**  
  string optional. The name of the report.
- **code_body**  
  string optional. The code for the report visualization.
- **app_state**  
  list optional. Any application state blob for this report.
- **provide_api_key**  
  boolean optional. Allow the report to provide an API key to front-end code.
- **template_id**  
  integer optional. The ID of the template used for this report.
- **hidden**  
  boolean optional. The hidden status of the item.

Value

A list containing the following elements:

- **id**  
  integer, The ID of this report.
- **name**  
  string, The name of the report.
- **user**  
  list, A list containing the following elements:
    - **id**  
      integer, The ID of this user.
    - **name**  
      string, This user's name.
    - **username**  
      string, This user's username.
    - **initials**  
      string, This user's initials.
    - **online**  
      boolean, Whether this user is online.
- **createdAt**  
  string,
- **updatedAt**  
  string,
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
state string, The status of the report’s last run.
finishedAt string, The time that the report’s last run finished.
vizUpdatedAt string, The time that the report’s visualization was last updated.
script list, A list containing the following elements:
  • id integer, The ID for the script.
  • name string, The name of the script.
  • sql string, The raw SQL query for the script.
jobPath string, The link to details of the job that backs this report.
tableauId integer,
type string,
templateId integer, The ID of the template used for this report.
authThumbnailUrl string, URL for a thumbnail of the report.
lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.
archived string, The archival status of the requested item(s).
hidden boolean, The hidden status of the item.
authDataUrl string,
authCodeUrl string,
config string, Any configuration metadata for this report.
validOutputFile boolean, Whether the job (a script or a query) that backs the report currently has a valid output file.
provideAPIKey boolean, Whether the report requests an API Key from the report viewer.
apiKey string, A Civis API key that can be used by this report.
apiKeyId integer, The ID of the API key. Can be used for auditing API use by this report.
appState list, Any application state blob for this report.
useViewersTableauUsername boolean, Apply user level filtering on Tableau reports.
reports_post_git_commits

Commit and push a new version of the file

Description
Commit and push a new version of the file

Usage
reports_post_git_commits(id, content, message, file_hash)

Arguments
- id: integer required. The ID of the file.
- content: string required. The contents to commit to the file.
- message: string required. A commit message describing the changes being made.
- file_hash: string required. The full SHA of the file being replaced.

Value
A list containing the following elements:
- content: string, The file’s contents.
- type: string, The file’s type.
- size: integer, The file’s size.

reports_post_grants
Grant this report the ability to perform Civis platform API operations on your behalf

Description
Grant this report the ability to perform Civis platform API operations on your behalf

Usage
reports_post_grants(id)

Arguments
- id: integer required. The ID of this report.
Value

A list containing the following elements:

- **id** integer, The ID of this report.
- **name** string, The name of the report.

**user** list, A list containing the following elements:

- **id** integer, The ID of this user.
- **name** string, This user’s name.
- **username** string, This user’s username.
- **initials** string, This user’s initials.
- **online** boolean, Whether this user is online.

- **createdAt** string,
- **updatedAt** string,

**projects** array, An array containing the following fields:

- **id** integer, The ID for the project.
- **name** string, The name of the project.

- **state** string, The status of the report’s last run.
- **finishedAt** string, The time that the report’s last run finished.
- **vizUpdatedAt** string, The time that the report’s visualization was last updated.

**script** list, A list containing the following elements:

- **id** integer, The ID for the script.
- **name** string, The name of the script.
- **sql** string, The raw SQL query for the script.

- **jobPath** string, The link to details of the job that backs this report.
- **tableauId** integer,
- **type** string,
- **templateId** integer, The ID of the template used for this report.
- **authThumbnailUrl** string, URL for a thumbnail of the report.

**lastRun** list, A list containing the following elements:

- **id** integer,
- **state** string,
- **createdAt** string, The time that the run was queued.
- **startedAt** string, The time that the run started.
- **finishedAt** string, The time that the run completed.
- **error** string, The error message for this run, if present.

- **archived** string, The archival status of the requested item(s).
- **hidden** boolean, The hidden status of the item.
- **authDataUrl** string,
authCodeUrl string,
config string, Any configuration metadata for this report.
validOutputFile boolean, Whether the job (a script or a query) that backs the report currently has a valid output file.
provideAPIKey boolean, Whether the report requests an API Key from the report viewer.
apiKey string, A Civis API key that can be used by this report.
apiKeyId integer, The ID of the API key. Can be used for auditing API use by this report.
appState list, Any application state blob for this report.
useViewersTableauUsername boolean, Apply user level filtering on Tableau reports.

reports_post_refresh  Refresh the data in this Tableau report

Description
Refresh the the data in this Tableau report

Usage
reports_post_refresh(id)

Arguments
id integer required. The ID of this report.

Value
A list containing the following elements:

id integer, The ID of this report.
organization list, A list containing the following elements:
  • id integer, The ID of this organization.
  • tableauRefreshUsage integer, The number of tableau refreshes used this month.
  • tableauRefreshLimit integer, The number of monthly tableau refreshes permitted to this organization.
  • tableauRefreshHistory array, The number of tableau refreshes used this month.
Create a service report

Usage

reports_post_services(service_id, provide_api_key = NULL)

Arguments

- service_id: integer required. The id of the backing service
- provide_api_key: boolean optional. Whether the report requests an API Key from the report viewer.

Value

A list containing the following elements:

- id: integer, The ID of this report.
- name: string, The name of the report.
- user: list, A list containing the following elements:
  - id: integer, The ID of this user.
  - name: string, This user’s name.
  - username: string, This user’s username.
  - initials: string, This user’s initials.
  - online: boolean, Whether this user is online.
- createdAt: string,
- updatedAt: string,
- host: string, The host for the service report
- displayUrl: string, The URL to display the service report.
- serviceId: integer, The id of the backing service
- provideAPIKey: boolean, Whether the report requests an API Key from the report viewer.
- apiKey: string, A Civis API key that can be used by this report.
- apiKeyId: integer, The ID of the API key. Can be used for auditing API use by this report.
Update the archive status of this object

**Usage**

`reports_put_archive(id, status)`

**Arguments**

- **id** integer required. The ID of the object.
- **status** boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

- **id** integer, The ID of this report.
- **name** string, The name of the report.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **createdAt** string,
- **updatedAt** string,
- **projects** array, An array containing the following fields:
  - **id** integer, The ID for the project.
  - **name** string, The name of the project.
- **state** string, The status of the report’s last run.
- **finishedAt** string, The time that the report’s last run finished.
- **vizUpdatedAt** string, The time that the report’s visualization was last updated.
- **script** list, A list containing the following elements:
  - **id** integer, The ID for the script.
  - **name** string, The name of the script.
  - **sql** string, The raw SQL query for the script.
- **jobPath** string, The link to details of the job that backs this report.
- **tableauId** integer,
type string,
templateId integer, The ID of the template used for this report.
authThumbnailUrl string, URL for a thumbnail of the report.
lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.
archived string, The archival status of the requested item(s).
hidden boolean, The hidden status of the item.
authDataUrl string,
authCodeUrl string,
config string, Any configuration metadata for this report.
validOutputFile boolean, Whether the job (a script or a query) that backs the report currently has a valid output file.
provideAPIKey boolean, Whether the report requests an API Key from the report viewer.
apiKey string, A Civis API key that can be used by this report.
apiKeyId integer, The ID of the API key. Can be used for auditing API use by this report.
appState list, Any application state blob for this report.
useViewersTableauUsername boolean, Apply user level filtering on Tableau reports.

---

**reports_put_git**  
*Attach an item to a file in a git repo*

**Description**

Attach an item to a file in a git repo

**Usage**

```python
reports_put_git(
    id,
    git_ref = NULL,
    git_branch = NULL,
    git_path = NULL,
    git_repo_url = NULL,
    pull_from_git = NULL
)
```
Arguments

- **id** integer required. The ID of the file.
- **git_ref** string optional. A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **git_branch** string optional. The git branch that the file is on.
- **git_path** string optional. The path of the file in the repository.
- **git_repo_url** string optional. The URL of the git repository.
- **pull_from_git** boolean optional. Automatically pull latest commit from git. Only works for scripts.

Value

A list containing the following elements:

- **gitRef** string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **gitBranch** string, The git branch that the file is on.
- **gitPath** string, The path of the file in the repository.
- **gitRepo** list, A list containing the following elements:
  - **id** integer, The ID for this git repository.
  - **repoUrl** string, The URL for this git repository.
  - **createdAt** string,
  - **updatedAt** string,
- **pullFromGit** boolean, Automatically pull latest commit from git. Only works for scripts.

### Description

*Add a Report to a project*

Add a Report to a project

### Usage

```
reports_put_projects(id, project_id)
```

### Arguments

- **id** integer required. The ID of the Report.
- **project_id** integer required. The ID of the project.

### Value

An empty HTTP response
### reports_put_services_projects

**Add a Service Report to a project**

**Description**

Add a Service Report to a project

**Usage**

```python
reports_put_services_projects(id, project_id)
```

**Arguments**

- **id**  
  integer required. The ID of the Service Report.
- **project_id**  
  integer required. The ID of the project.

**Value**

An empty HTTP response

---

### reports_put_services_shares_groups

**Set the permissions groups has on this object**

**Description**

Set the permissions groups has on this object

**Usage**

```python
reports_put_services_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
Arguments

id integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

Description

Set the permissions users have on this object

Usage

reports_put_services_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
Arguments

- **id**: integer required. The ID of the resource that is shared.
- **user_ids**: array required. An array of one or more user IDs.
- **permission_level**: string required. Options are: "read", "write", or "manage".
- **share_email_body**: string optional. Custom body text for e-mail sent on a share.
- **send_shared_email**: boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers**: list, A list containing the following elements:
  - users array,
  - groups array,
- **writers**: list, A list containing the following elements:
  - users array,
  - groups array,
- **owners**: list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares**: integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares**: integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

Description

Set the permissions groups has on this object

Usage

```python
reports_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
**reports_put_shares_users**

**Arguments**

- **id** integer required. The ID of the resource that is shared.
- **group_ids** array required. An array of one or more group IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

**Description**

Set the permissions users have on this object

**Usage**

```
reports_put_shares_users(
   id,
   user_ids,
   permission_level,
   share_email_body = NULL,
   send_shared_email = NULL
)
```
Arguments

- **id**: integer required. The ID of the resource that is shared.
- **user_ids**: array required. An array of one or more user IDs.
- **permission_level**: string required. Options are: "read", "write", or "manage".
- **share_email_body**: string optional. Custom body text for e-mail sent on a share.
- **send_shared_email**: boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers**: list, A list containing the following elements:
  - **users** array,
  - **groups** array,

- **writers**: list, A list containing the following elements:
  - **users** array,
  - **groups** array,

- **owners**: list, A list containing the following elements:
  - **users** array,
  - **groups** array,

- **totalUserShares**: integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares**: integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**run_civis**

*Evaluate an R expression in a Civis Platform container*

---

Description

Evaluate an R expression in a Civis Platform container

Usage

```run_civis(expr, ...)
```

Arguments

- **expr**: code to evaluate
- **...**: arguments to CivisFuture
Details

`run_civis` blocks until completion. For non-blocking calls, use futures directly with `civis_platform`. Attempts are made at detecting and installing necessary packages within the container, and detecting global variables required in `expr`.

See Also

Other script utils: `civis_script()`, `fetch_output_file_ids()`, `run_template()`

Examples

```r
## Not run:
run_civis(2+2)

# specify required resources, and a specific image
run_civis(2+2,
  required_resources = list(cpu = 1024, memory = 2048),
  docker_image_name='image',
  docker_image_tag = 'latest')

## End(Not run)
```

---

**run_template**  
*Run a template script*

Description

Run a template script

Usage

```r
run_template(id, arguments, JSONValue = FALSE, ...)
```

Arguments

- `id`  
  id of the template script.
- `arguments`  
  list of arguments to the script.
- `JSONValue`  
  bool (default FALSE) If true, returns the JSON values instead of the file_ids
- `...`  
  additional arguments to `scripts_post_custom`

Value

If `JSONValue` is FALSE, File ids of any run outputs are returned. If `JSONValue` is TRUE, JSON values of first JSON run output is returned. If there are no JSON outputs, warning message is printed and nothing is returned If there are more than 1 JSON outputs, warning message is printed and the first JSON output is returned.
saml_service_providers_delete_shares_groups

Revoke the permissions a group has on this object

**Description**

Revoke the permissions a group has on this object

**Usage**

`saml_service_providers_delete_shares_groups(id, group_id)`

**Arguments**

- `id` integer required. The ID of the resource that is shared.
- `group_id` integer required. The ID of the group.

**Value**

An empty HTTP response
saml_service_providers_delete_shares_users

Revoke the permissions a user has on this object

**Description**
Revoke the permissions a user has on this object

**Usage**
saml_service_providers_delete_shares_users(id, user_id)

**Arguments**
id
integer required. The ID of the resource that is shared.
user_id
integer required. The ID of the user.

**Value**
An empty HTTP response

saml_service_providers_list_shares

List users and groups permissioned on this object

**Description**
List users and groups permissioned on this object

**Usage**
saml_service_providers_list_shares(id)

**Arguments**
id
integer required. The ID of the resource that is shared.

**Value**
An array containing the following fields:

- readers
list, A list containing the following elements:
  - users array,
  - groups array,

- writers
list, A list containing the following elements:
saml_service_providers_put_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

saml_service_providers_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)

Arguments

id integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

owners list, A list containing the following elements:

• users array,
• groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
saml_service_providers_put_shares_users

Value

A list containing the following elements:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

saml_service_providers_put_shares_users

Set the permissions users have on this object

Description

Set the permissions users have on this object

Usage

saml_service_providers_put_shares_users(
  id,  
  user_ids,  
  permission_level,  
  share_email_body = NULL,  
  send_shared_email = NULL  
)

Arguments

id integer required. The ID of the resource that is shared.
user_ids array required. An array of one or more user IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.
scripts_delete

Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**scripts_delete**

*Archive a script (deprecated, use archive endpoints instead)*

---

Description

Archive a script (deprecated, use archive endpoints instead)

Usage

scripts_delete(id)

Arguments

- **id** integer required. The ID for the script.

Value

An empty HTTP response
scripts_delete_containers

Archive a container (deprecated, use archive endpoints)

Description

Archive a container (deprecated, use archive endpoints)

Usage

scripts_delete_containers(id)

Arguments

id
integer required. The ID for the script.

Value

An empty HTTP response

scripts_delete_containers_projects

Remove a Container Script from a project

Description

Remove a Container Script from a project

Usage

scripts_delete_containers_projects(id, project_id)

Arguments

id
integer required. The ID of the Container Script.

project_id
integer required. The ID of the project.

Value

An empty HTTP response
scripts_delete_containers_runs

Cancel a run

Description
Cancel a run

Usage
scripts_delete_containers_runs(id, run_id)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the container.</td>
</tr>
<tr>
<td>run_id</td>
<td>integer required. The ID of the run.</td>
</tr>
</tbody>
</table>

Value
An empty HTTP response

scripts_delete_containers_shares_groups

Revoke the permissions a group has on this object

Description
Revoke the permissions a group has on this object

Usage
scripts_delete_containers_shares_groups(id, group_id)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the resource that is shared.</td>
</tr>
<tr>
<td>group_id</td>
<td>integer required. The ID of the group.</td>
</tr>
</tbody>
</table>

Value
An empty HTTP response
scíptes_delete_containers_shares_users

Revoke the permissions a user has on this object

Description

Revoke the permissions a user has on this object

Usage

scripts_delete_containers_shares_users(id, user_id)

Arguments

id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value

An empty HTTP response

----------------------

cortefic_delete_custom Archive a Custom Script (deprecated, use archiving endpoints instead)

----------------------

Description

Archive a Custom Script (deprecated, use archiving endpoints instead)

Usage

scripts_delete_custom(id)

Arguments

id integer required.

Value

An empty HTTP response
scripts_delete_custom_projects

Remove a Custom Script from a project

Description
Remove a Custom Script from a project

Usage
scripts_delete_custom_projects(id, project_id)

Arguments
id integer required. The ID of the Custom Script.
project_id integer required. The ID of the project.

Value
An empty HTTP response

---

scripts_delete_custom_runs

Cancel a run

Description
Cancel a run

Usage
scripts_delete_custom_runs(id, run_id)

Arguments
id integer required. The ID of the custom.
run_id integer required. The ID of the run.

Value
An empty HTTP response
scripts_delete_custom_shares_groups

Revoke the permissions a group has on this object

Description
Revoke the permissions a group has on this object

Usage
scripts_delete_custom_shares_groups(id, group_id)

Arguments
id integer required. The ID of the resource that is shared.
group_id integer required. The ID of the group.

Value
An empty HTTP response

scripts_delete_custom_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
scripts_delete_custom_shares_users(id, user_id)

Arguments
id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value
An empty HTTP response
scripts_delete_javascript

Archive a JavaScript Script (deprecated, use archiving endpoints instead)

Description
Archive a JavaScript Script (deprecated, use archiving endpoints instead)

Usage
scripts_delete_javascript(id)

Arguments
id integer required.

Value
An empty HTTP response

scripts_delete_javascript_projects

Remove a JavaScript Script from a project

Description
Remove a JavaScript Script from a project

Usage
scripts_delete_javascript_projects(id, project_id)

Arguments
id integer required. The ID of the JavaScript Script.
project_id integer required. The ID of the project.

Value
An empty HTTP response
scripts_delete_javascript_runs

*Cancel a run*

**Description**

Cancel a run

**Usage**

```
scripts_delete_javascript_runs(id, run_id)
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required</td>
<td>The ID of the javascript.</td>
</tr>
<tr>
<td>run_id</td>
<td>integer required</td>
<td>The ID of the run.</td>
</tr>
</tbody>
</table>

**Value**

An empty HTTP response

---

scripts_delete_javascript_shares_groups

*Revoke the permissions a group has on this object*

**Description**

Revoke the permissions a group has on this object

**Usage**

```
scripts_delete_javascript_shares_groups(id, group_id)
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required</td>
<td>The ID of the resource that is shared.</td>
</tr>
<tr>
<td>group_id</td>
<td>integer required</td>
<td>The ID of the group.</td>
</tr>
</tbody>
</table>

**Value**

An empty HTTP response
scripts_delete_javascript_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
scripts_delete_javascript_shares_users(id, user_id)

Arguments
id           integer required. The ID of the resource that is shared.
user_id      integer required. The ID of the user.

Value
An empty HTTP response

scripts_delete_python3

Archive a Python Script (deprecated, use archiving endpoints instead)

Description
Archive a Python Script (deprecated, use archiving endpoints instead)

Usage
scripts_delete_python3(id)

Arguments
id           integer required.

Value
An empty HTTP response
scripts_delete_python3_projects

Remove a Python Script from a project

Description
Remove a Python Script from a project

Usage
scripts_delete_python3_projects(id, project_id)

Arguments
id  integer required. The ID of the Python Script.
project_id  integer required. The ID of the project.

Value
An empty HTTP response

scripts_delete_python3_runs

Cancel a run

Description
Cancel a run

Usage
scripts_delete_python3_runs(id, run_id)

Arguments
id  integer required. The ID of the python.
run_id  integer required. The ID of the run.

Value
An empty HTTP response
scripts_delete_python3_shares_groups

Revoke the permissions a group has on this object

Description

Revoke the permissions a group has on this object

Usage

scripts_delete_python3_shares_groups(id, group_id)

Arguments

id  integer required. The ID of the resource that is shared.
group_id  integer required. The ID of the group.

Value

An empty HTTP response

scripts_delete_python3_shares_users

Revoke the permissions a user has on this object

Description

Revoke the permissions a user has on this object

Usage

scripts_delete_python3_shares_users(id, user_id)

Arguments

id  integer required. The ID of the resource that is shared.
user_id  integer required. The ID of the user.

Value

An empty HTTP response
<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
<th>Usage</th>
<th>Arguments</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>scripts_delete_r</td>
<td>Archive an R Script (deprecated, use archiving endpoints instead)</td>
<td><code>scripts_delete_r(id)</code></td>
<td>id</td>
<td>An empty HTTP response</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>project_id</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>scripts_delete_r_projects</td>
<td>Remove an R Script from a project</td>
<td><code>scripts_delete_r_projects(id, project_id)</code></td>
<td>id</td>
<td>An empty HTTP response</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>project_id</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### scripts_delete_r_runs  
*Cancel a run*

**Description**

Cancel a run

**Usage**

```python
scripts_delete_r_runs(id, run_id)
```

**Arguments**

- **id**: integer required. The ID of the resource.
- **run_id**: integer required. The ID of the run.

**Value**

An empty HTTP response

### scripts_delete_r_shares_groups

*Revoke the permissions a group has on this object*

**Description**

Revoke the permissions a group has on this object

**Usage**

```python
scripts_delete_r_shares_groups(id, group_id)
```

**Arguments**

- **id**: integer required. The ID of the resource that is shared.
- **group_id**: integer required. The ID of the group.

**Value**

An empty HTTP response
scripts_delete_r_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
scripts_delete_r_shares_users(id, user_id)

Arguments
- id: integer required. The ID of the resource that is shared.
- user_id: integer required. The ID of the user.

Value
An empty HTTP response

scripts_delete_sql Archive a SQL script (deprecated, use archiving endpoints instead)

Description
Archive a SQL script (deprecated, use archiving endpoints instead)

Usage
scripts_delete_sql(id)

Arguments
- id: integer required.

Value
An empty HTTP response
scripts_delete_sql_projects

Remove a SQL script from a project

Description
Remove a SQL script from a project

Usage
scripts_delete_sql_projects(id, project_id)

Arguments
id integer required. The ID of the SQL script.
project_id integer required. The ID of the project.

Value
An empty HTTP response

scripts_delete_sql_runs

Cancel a run

Description
Cancel a run

Usage
scripts_delete_sql_runs(id, run_id)

Arguments
id integer required. The ID of the sql.
run_id integer required. The ID of the run.

Value
An empty HTTP response
scripts_delete_sql_shares_groups

Revoke the permissions a group has on this object

Description
Revoke the permissions a group has on this object

Usage
scripts_delete_sql_shares_groups(id, group_id)

Arguments
id integer required. The ID of the resource that is shared.
group_id integer required. The ID of the group.

Value
An empty HTTP response

scripts_delete_sql_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
scripts_delete_sql_shares_users(id, user_id)

Arguments
id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value
An empty HTTP response
scripts_get  Get details about a script

Description
Get details about a script

Usage
scripts_get(id)

Arguments
id integer required. The ID for the script.

Value
A list containing the following elements:

- id integer, The ID for the script.
- name string, The name of the script.
- type string, The type of script.
- createdAt string, The time this script was created.
- updatedAt string, The time this script was last updated.
- author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- state string, The status of the script’s last run.
- finishedAt string, The time that the script’s last run finished.
- category string, The category of the script.
- projects array, An array containing the following fields:
  - id integer, The ID for the project.
  - name string, The name of the project.
- parentId integer, The ID of the parent job that will trigger this script
- userContext string, "runner" or "author", who to execute the script as when run as a template.
- params array, An array containing the following fields:
  - name string, The variable’s name as used within your code.
  - label string, The label to present to users when asking them for the value.
- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''

arguments
- list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate
- boolean, Whether others scripts use this one as a template.

publishedAsTemplateId
- integer, The ID of the template that this script is backing.

fromTemplateId
- integer, The ID of the template this script uses, if any.

templateDependentsCount
- integer, How many other scripts use this one as a template.

templateScriptName
- string, The name of the template script.

links
- list, A list containing the following elements:
  - details string, The details link to get more information about the script.
  - runs string, The runs link to get the run information list for this script.

schedule
- list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications
- list, A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
scripts_get

- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
- id integer,
- state string,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.

archived string, The archival status of the requested item(s).

sql string, The raw SQL query for the script.

expandedArguments list, Expanded arguments for use in injecting into different environments.

templateScriptId integer, The ID of the template script, if any.
scripts_get_containers

View a container

Description

View a container

Usage

scripts_get_containers(id)

Arguments

id  integer required. The ID for the script.

Value

A list containing the following elements:

- id  integer, The ID for the script.
- name  string, The name of the container.
- type  string, The type of the script (e.g. Container)
- createdAt  string, The time this script was created.
- updatedAt  string, The time the script was last updated.
- author  list, A list containing the following elements:
  - id  integer, The ID of this user.
  - name  string, This user's name.
  - username  string, This user's username.
  - initials  string, This user's initials.
  - online  boolean, Whether this user is online.
- state  string, The status of the script's last run.
- finishedAt  string, The time that the script's last run finished.
- category  string, The category of the script.
- projects  array, An array containing the following fields:
  - id  integer, The ID for the project.
  - name  string, The name of the project.
- parentId  integer, The ID of the parent job that will trigger this script
- userContext  string, "runner" or "author", who to execute the script as when run as a template.
- params  array, An array containing the following fields:
  - name  string, The variable’s name as used within your code.
  - label  string, The label to present to users when asking them for the value.
- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label': 'Import', 'value': 'import'

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.

templateDependentsCount integer, How many other scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template script.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:
  - details string, The details link to get more information about the script.
  - runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- **successEmailFromName** string, Name from which success emails are sent; defaults to "Civis."
- **successEmailReplyTo** string, Address for replies to success emails; defaults to the author of the job.
- **failureEmailAddresses** array, Addresses to notify by e-mail when the job fails.
- **stallWarningMinutes** integer, Stall warning emails will be sent after this amount of minutes.
- **successOn** boolean, If success email notifications are on.
- **failureOn** boolean, If failure email notifications are on.

**runningAs** list, A list containing the following elements:
- **id** integer, The ID of this user.
- **name** string, This user’s name.
- **username** string, This user’s username.
- **initials** string, This user’s initials.
- **online** boolean, Whether this user is online.

**requiredResources** list, A list containing the following elements:
- **cpu** integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.
- **memory** integer, The amount of RAM to allocate for the container (in MB).
- **diskSpace** number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

**repoHttpUri** string, The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.

**repoRef** string, The tag or branch of the github repo to clone into the container.

**remoteHostCredentialId** integer, The id of the database credentials to pass into the environment of the container.

**gitCredentialId** integer, The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you’ve submitted will be used. Unnecessary if no git repo is specified or the git repo is public.

**dockerCommand** string, The command to run on the container. Will be run via sh as: ["sh", "-c", dockerCommand]. Defaults to the Docker image’s ENTRYPOINT/CMD.

**dockerImageName** string, The name of the docker image to pull from DockerHub.

**dockerImageTag** string, The tag of the docker image to pull from DockerHub.

**instanceType** string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

**cancelTimeout** integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

timeZone string, The time zone of this script.

hidden boolean, The hidden status of the item.

archived string, The archival status of the requested item(s).

targetProjectId integer, Target project to which script outputs will be added.

------------------------------------------------------------------------------------------------------------------

scripts_get_containers_runs

*Check status of a run*

------------------------------------------------------------------------------------------------------------------

**Description**

Check status of a run

**Usage**

`scripts_get_containers_runs(id, run_id)`

**Arguments**

- **id** integer required. The ID of the container.
- **run_id** integer required. The ID of the run.

**Value**

A list containing the following elements:

- **id** integer, The ID of the run.
- **containerId** integer, The ID of the container.
- **state** string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested** boolean, True if run cancel requested, else false.
- **startedAt** string, The time the last run started at.
- **finishedAt** string, The time the last run completed.
- **error** string, The error, if any, returned by the run.
scripts_get_custom

Get a Custom Script

Description
Get a Custom Script

Usage
scripts_get_custom(id)

Arguments
id          integer required.

Value
A list containing the following elements:

id          integer, The ID for the script.
name        string, The name of the script.
type        string, The type of the script (e.g Custom)
createdAt   string, The time this script was created.
updatedAt   string, The time the script was last updated.
author      list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state       string, The status of the script’s last run.
finishedAt  string, The time that the script’s last run finished.
category    string,
projects    array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentId    integer, The ID of the parent job that will trigger this script
params      array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
scripts_get_custom

- type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template script.
uiReportUrl integer, The url of the custom HTML.
uiReportId integer, The id of the report with the custom HTML.
uiReportProvideAPIKey boolean, Whether the ui report requests an API Key from the report viewer.
templateScriptName string, The name of the template script.
templateNote string, The template's note.
remoteHostId integer, The remote host ID that this script will connect to.
credentialId integer, The credential that this script will use.
codePreview string, The code that this script will run with arguments inserted.
schedule list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."

• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.

• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.

• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.

• successOn boolean, If success email notifications are on.

• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:

• id integer, The ID of this user.

• name string, This user’s name.

• username string, This user’s username.

• initials string, This user’s initials.

• online boolean, Whether this user is online.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:

• id integer,

• state string,

• createdAt string, The time that the run was queued.

• startedAt string, The time that the run started.

• finishedAt string, The time that the run completed.

• error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

archived string, The archival status of the requested item(s).

targetProjectId integer, Target project to which script outputs will be added.

lastSuccessfulRun list, A list containing the following elements:

• id integer,

• state string,

• createdAt string, The time that the run was queued.

• startedAt string, The time that the run started.

• finishedAt string, The time that the run completed.

• error string, The error message for this run, if present.
scripts_get_custom_runs

*Check status of a run*

**Description**

Check status of a run

**Usage**

scripts_get_custom_runs(id, run_id)

**Arguments**

- **id** integer required. The ID of the custom.
- **run_id** integer required. The ID of the run.

**Value**

A list containing the following elements:

- **id** integer, The ID of the run.
- **customId** integer, The ID of the custom.
- **state** string, The state of the run, one of ‘queued’ ‘running’ ‘succeeded’ ‘failed’ or ‘cancelled’.
- **isCancelRequested** boolean, True if run cancel requested, else false.
- **startedAt** string, The time the last run started at.
- **finishedAt** string, The time the last run completed.
- **error** string, The error, if any, returned by the run.

---

scripts_get_javascript

*Get a JavaScript Script*

**Description**

Get a JavaScript Script

**Usage**

scripts_get_javascript(id)
Arguments

id integer required.

Value

A list containing the following elements:

id integer, The ID for the script.
name string, The name of the script.
type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentId integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.
params array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
allowedValues array. The possible values this parameter can take, effect-
ively making this an enumerable parameter. Allowed values is an array of
hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’

arguments list, Parameter-value pairs to use when running this script. Only settable if this
script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.

links list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number
    of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in
    Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job
    completes successfully.
  • successEmailFromName string, Name from which success emails are sent;
    defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults
    to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job
    fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this
    amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
scripts_get_javascript_git_commits

- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this script.
lastRun list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
targetProjectId integer, Target project to which script outputs will be added.
archived string, The archival status of the requested item(s).
source string, The body/text of the script.
remoteHostId integer, The remote host ID that this script will connect to.
credentialId integer, The credential that this script will use.

---

**Description**

Get file contents at commit_hash

**Usage**

`scripts_get_javascript_git_commits(id, commit_hash)`

**Arguments**

- id integer required. The ID of the file.
- commit_hash string required. The SHA (full or shortened) of the desired git commit.

**Value**

A list containing the following elements:

- content string, The file’s contents.
- type string, The file’s type.
- size integer, The file’s size.
- fileHash string, The SHA of the file.
scripts_get_javascript_runs

*Check status of a run*

**Description**

Check status of a run

**Usage**

```python
scripts_get_javascript_runs(id, run_id)
```

**Arguments**

- `id` integer required. The ID of the javascript.
- `run_id` integer required. The ID of the run.

**Value**

A list containing the following elements:

- `id` integer, The ID of the run.
- `javascriptId` integer, The ID of the javascript.
- `state` string, The state of the run, one of ‘queued’ ‘running’ ‘succeeded’ ‘failed’ or ‘cancelled’.
- `isCancelRequested` boolean, True if run cancel requested, else false.
- `startedAt` string, The time the last run started at.
- `finishedAt` string, The time the last run completed.
- `error` string, The error, if any, returned by the run.

---

```python
scripts_get_python3  Get a Python Script
```

**Description**

Get a Python Script

**Usage**

```python
scripts_get_python3(id)
```

**Arguments**

- `id` integer required.
Value

A list containing the following elements:

- id
  - integer, The ID for the script.
- name
  - string, The name of the script.
- type
  - string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
- createdAt
  - string, The time this script was created.
- updatedAt
  - string, The time the script was last updated.
- author
  - list, A list containing the following elements:
    - id integer, The ID of this user.
    - name string, This user’s name.
    - username string, This user’s username.
    - initials string, This user’s initials.
    - online boolean, Whether this user is online.
- state
  - string, The status of the script’s last run.
- finishedAt
  - string, The time that the script’s last run finished.
- category
  - string, The category of the script.
- projects
  - array, An array containing the following fields:
    - id integer, The ID for the project.
    - name string, The name of the project.
- parentId
  - integer, The ID of the parent job that will trigger this script
- userContext
  - string, "runner" or "author", who to execute the script as when run as a template.
- params
  - array, An array containing the following fields:
    - name string, The variable’s name as used within your code.
    - label string, The label to present to users when asking them for the value.
    - description string, A short sentence or fragment describing this parameter to the end user.
    - type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
    - required boolean, Whether this param is required.
    - value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
    - default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
    - allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ’Import’, ‘value’: ’import’‘
- arguments
  - list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate    boolean, Whether others scripts use this one as a template.

publishedAsTemplateId    integer, The ID of the template that this script is backing.

fromTemplateId    integer, The ID of the template this script uses, if any.

templateDependentsCount    integer, How many other scripts use this one as a template.

templateScriptName    string, The name of the template script.

links    list, A list containing the following elements:

- details string, The details link to get more information about the script.
- runs string, The runs link to get the run information list for this script.

schedule    list, A list containing the following elements:

- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications    list, A list containing the following elements:

- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs    list, A list containing the following elements:

- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

nextRunAt    string, The time of the next scheduled run.
scripts_get_python3_git_commits

Get file contents at commit_hash

**Description**

Get file contents at commit_hash

**Usage**

scripts_get_python3_git_commits(id, commit_hash)
Arguments

id integer required. The ID of the file.
commit_hash string required. The SHA (full or shortened) of the desired git commit.

Value

A list containing the following elements:

content string, The file’s contents.
type string, The file’s type.
size integer, The file’s size.
fileHash string, The SHA of the file.

---

scripts_get_python3_runs

_Check status of a run_

Description

Check status of a run

Usage

scripts_get_python3_runs(id, run_id)

Arguments

id integer required. The ID of the python.
run_id integer required. The ID of the run.

Value

A list containing the following elements:

id integer, The ID of the run.
pythonId integer, The ID of the python.
state string, The state of the run, one of ’queued’ ’running’ ’succeeded’ ’failed’ or ’cancelled’.
isCancelRequested boolean, True if run cancel requested, else false.
startedAt string, The time the last run started at.
finishedAt string, The time the last run completed.
error string, The error, if any, returned by the run.
Description

Get an R Script

Usage

scripts_get_r(id)

Arguments

id integer required.

Value

A list containing the following elements:

- **id** integer, The ID for the script.
- **name** string, The name of the script.
- **type** string, The type of the script (e.g. SQL, Container, Python, R, JavaScript)
- **createdAt** string, The time this script was created.
- **updatedAt** string, The time the script was last updated.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **state** string, The status of the script’s last run.
- **finishedAt** string, The time that the script’s last run finished.
- **category** string, The category of the script.
- **projects** array, An array containing the following fields:
  - **id** integer, The ID for the project.
  - **name** string, The name of the project.
- **parentId** integer, The ID of the parent job that will trigger this script
- **userContext** string, "runner" or "author", who to execute the script as when run as a template.
- **params** array, An array containing the following fields:
  - **name** string, The variable’s name as used within your code.
  - **label** string, The label to present to users when asking them for the value.
• description string, A short sentence or fragment describing this parameter to the end user.
• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
• required boolean, Whether this param is required.
• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.

links list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this script.
lastRun list, A list containing the following elements:
  • id integer,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
targetProjectId integer, Target project to which script outputs will be added.
archived string, The archival status of the requested item(s).

requiredResources list, A list containing the following elements:
  • cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
  • memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
  • diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instanceType string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
source string, The body/text of the script.
cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

dockerImageTag string, The tag of the docker image to pull from DockerHub.

---

scripts_get_r_runs

Check status of a run

---

scripts_get_r_git_commits

Get file contents at commit_hash

---

Description

Get file contents at commit_hash

Usage

scripts_get_r_git_commits(id, commit_hash)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>integer required. The ID of the file.</td>
</tr>
<tr>
<td>commit_hash</td>
<td>string</td>
<td>string required. The SHA (full or shortened) of the desired git commit.</td>
</tr>
</tbody>
</table>

Value

A list containing the following elements:

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>content</td>
<td>string</td>
<td>string, The file’s contents.</td>
</tr>
<tr>
<td>type</td>
<td>string</td>
<td>string, The file’s type.</td>
</tr>
<tr>
<td>size</td>
<td>integer</td>
<td>integer, The file’s size.</td>
</tr>
<tr>
<td>fileHash</td>
<td>string</td>
<td>string, The SHA of the file.</td>
</tr>
</tbody>
</table>

---

scripts_get_r_runs

Check status of a run

---

Description

Check status of a run

Usage

scripts_get_r_runs(id, run_id)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>integer required. The ID of the r.</td>
</tr>
<tr>
<td>run_id</td>
<td>integer</td>
<td>integer required. The ID of the run.</td>
</tr>
</tbody>
</table>
scripts_get_sql

### Value
A list containing the following elements:

- **id**
  - integer, The ID of the run.

- **rId**
  - integer, The ID of the r.

- **state**
  - string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.

- **isCancelRequested**
  - boolean, True if run cancel requested, else false.

- **startedAt**
  - string, The time the last run started at.

- **finishedAt**
  - string, The time the last run completed.

- **error**
  - string, The error, if any, returned by the run.

---

scripts_get_sql  
*Get a SQL script*

---

### Description
Get a SQL script

### Usage

scripts_get_sql(id)

### Arguments

- **id**
  - integer required.

### Value
A list containing the following elements:

- **id**
  - integer, The ID for the script.

- **name**
  - string, The name of the script.

- **type**
  - string, The type of the script (e.g SQL, Container, Python, R, JavaScript)

- **createdAt**
  - string, The time this script was created.

- **updatedAt**
  - string, The time the script was last updated.

- **author**
  - list, A list containing the following elements:
    - **id** integer, The ID of this user.
    - **name** string, This user’s name.
    - **username** string, This user’s username.
    - **initials** string, This user’s initials.
    - **online** boolean, Whether this user is online.
scripts_get_sql

- **state**: string, The status of the script's last run.
- **finishedAt**: string, The time that the script's last run finished.
- **category**: string, The category of the script.
- **projects**: array, An array containing the following fields:
  - **id**: integer, The ID for the project.
  - **name**: string, The name of the project.
- **parentId**: integer, The ID of the parent job that will trigger this script.
- **userContext**: string, "runner" or "author", who to execute the script as when run as a template.
- **params**: array, An array containing the following fields:
  - **name**: string, The variable's name as used within your code.
  - **label**: string, The label to present to users when asking them for the value.
  - **description**: string, A short sentence or fragment describing this parameter to the end user.
  - **type**: string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom.
  - **required**: boolean, Whether this param is required.
  - **value**: string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - **default**: string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
  - **allowedValues**: array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import''
- **arguments**: list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
- **isTemplate**: boolean, Whether others scripts use this one as a template.
- **publishedAsTemplateId**: integer, The ID of the template that this script is backing.
- **fromTemplateId**: integer, The ID of the template this script uses, if any.
- **templateDependentsCount**: integer, How many other scripts use this one as a template.
- **templateScriptName**: string, The name of the template script.
- **links**: list, A list containing the following elements:
  - **details**: string, The details link to get more information about the script.
  - **runs**: string, The runs link to get the run information list for this script.
- **schedule**: list, A list containing the following elements:
  - **scheduled**: boolean, If the item is scheduled.
  - **scheduledDays**: array, Day based on numeric value starting at 0 for Sunday.
scripts_get_sql

- `scheduledHours` array, Hours of the day it is scheduled on.
- `scheduledMinutes` array, Minutes of the day it is scheduled on.
- `scheduledRunsPerHour` integer, Alternative to scheduled minutes, number of times to run per hour.

**notifications** list, A list containing the following elements:
- `urls` array, URLs to receive a POST request at job completion
- `successEmailSubject` string, Custom subject line for success e-mail.
- `successEmailBody` string, Custom body text for success e-mail, written in Markdown.
- `successEmailAddresses` array, Addresses to notify by e-mail when the job completes successfully.
- `successEmailFromName` string, Name from which success emails are sent; defaults to "Civis."
- `successEmailReplyTo` string, Address for replies to success emails; defaults to the author of the job.
- `failureEmailAddresses` array, Addresses to notify by e-mail when the job fails.
- `stallWarningMinutes` integer, Stall warning emails will be sent after this amount of minutes.
- `successOn` boolean, If success email notifications are on.
- `failureOn` boolean, If failure email notifications are on.

**runningAs** list, A list containing the following elements:
- `id` integer, The ID of this user.
- `name` string, This user’s name.
- `username` string, This user’s username.
- `initials` string, This user’s initials.
- `online` boolean, Whether this user is online.

**nextRunAt** string, The time of the next scheduled run.

**timeZone** string, The time zone of this script.

**lastRun** list, A list containing the following elements:
- `id` integer,
- `state` string,
- `createdAt` string, The time that the run was queued.
- `startedAt` string, The time that the run started.
- `finishedAt` string, The time that the run completed.
- `error` string, The error message for this run, if present.

**hidden** boolean, The hidden status of the item.

**targetProjectId** integer, Target project to which script outputs will be added.

**archived** string, The archival status of the requested item(s).

**sql** string, The raw SQL query for the script.
expandedArguments

list, Expanded arguments for use in injecting into different environments.

remoteHostId

integer, The remote host ID that this script will connect to.

credentialId

integer, The credential that this script will use.

codePreview

string, The code that this script will run with arguments inserted.

csvSettings

list, A list containing the following elements:

• includeHeader boolean, Whether or not to include headers in the output
data. Default: true
• compression string, The type of compression to use, if any, one of "none",
"zip", or "gzip". Default: gzip
• columnDelimiter string, Which delimiter to use, one of "comma", "tab", or
"pipe". Default: comma
• unquoted boolean, Whether or not to quote fields. Default: false
• forceMultifile boolean, Whether or not the csv should be split into multiple
files. Default: false
• filenamePrefix string, A user specified filename prefix for the output file to
have. Default: null
• maxFileSize integer, The max file size, in MB, created files will be. Only
available when force_multifile is true.

scripts_get_sql_git_commits

Get file contents at commit_hash

Description

Get file contents at commit_hash

Usage

scripts_get_sql_git_commits(id, commit_hash)

Arguments

id

integer required. The ID of the file.

commit_hash

string required. The SHA (full or shortened) of the desired git commit.

Value

A list containing the following elements:

content

string, The file’s contents.

type

string, The file’s type.

size

integer, The file’s size.

fileHash

string, The SHA of the file.
scripts_get_sql_runs

Description

Check status of a run

Usage

scripts_get_sql_runs(id, run_id)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the sql.</td>
</tr>
<tr>
<td>run_id</td>
<td>integer required. The ID of the run.</td>
</tr>
</tbody>
</table>

Value

A list containing the following elements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The ID of this run.</td>
</tr>
<tr>
<td>sqlId</td>
<td>integer, The ID of this sql.</td>
</tr>
<tr>
<td>state</td>
<td>string, The state of this run.</td>
</tr>
<tr>
<td>isCancelRequested</td>
<td>boolean, True if run cancel requested, else false.</td>
</tr>
<tr>
<td>startedAt</td>
<td>string, The time the last run started.</td>
</tr>
<tr>
<td>finishedAt</td>
<td>string, The time that this run finished.</td>
</tr>
<tr>
<td>error</td>
<td>string, The error message for this run, if present.</td>
</tr>
<tr>
<td>output</td>
<td>array, An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>• outputName string, The name of the output file.</td>
</tr>
<tr>
<td></td>
<td>• fileId integer, The unique ID of the output file.</td>
</tr>
<tr>
<td></td>
<td>• path string, The temporary link to download this output file, valid for 36 hours.</td>
</tr>
</tbody>
</table>
scripts_list

List Scripts

Description

List Scripts

Usage

```r
scripts_list(
    type = NULL,
    category = NULL,
    author = NULL,
    status = NULL,
    hidden = NULL,
    archived = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

type string optional. If specified, return items of these types. The valid types are sql, python3, javascript, r, and containers.

category string optional. A job category for filtering scripts. Must be one of script, import, export, and enhancement.

author string optional. If specified, return items from this author. Must use user IDs. A comma separated list of IDs is also accepted to return items from multiple authors.

status string optional. If specified, returns items with one of these statuses. It accepts a comma-separated list, possible values are 'running', 'failed', 'succeeded', 'idle', 'scheduled'.

hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

archived string optional. The archival status of the requested item(s).

limit integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.

page_num integer optional. Page number of the results to return. Defaults to the first page, 1.

order string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at, last_run.updated_at.

order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.
Value

An array containing the following fields:

id (integer), The ID for the script.
name (string), The name of the script.
type (string), The type of the script (e.g SQL, Container, Python, R, JavaScript).
created_at (string), The time this script was created.
updated_at (string), The time the script was last updated.
author (list), A list containing the following elements:
  • id (integer), The ID of this user.
  • name (string), This user’s name.
  • username (string), This user’s username.
  • initials (string), This user’s initials.
  • online (boolean), Whether this user is online.
state (string), The status of the script’s last run.
finished_at (string), The time that the script’s last run finished.
projects (array), An array containing the following fields:
  • id (integer), The ID for the project.
  • name (string), The name of the project.
parentId (integer), The ID of the parent job that will trigger this script.
isTemplate (boolean), Whether others scripts use this one as a template.
fromTemplateId (integer), The ID of the template this script uses, if any.
links (list), A list containing the following elements:
  • details (string), The details link to get more information about the script.
  • runs (string), The runs link to get the run information list for this script.
timeZone (string), The time zone of this script.
lastRun (list), A list containing the following elements:
  • id (integer),
  • state (string),
  • createdAt (string), The time that the run was queued.
  • startedAt (string), The time that the run started.
  • finishedAt (string), The time that the run completed.
  • error (string), The error message for this run, if present.
archived (string), The archival status of the requested item(s).
templateScriptId (integer), The ID of the template script, if any.
scripts_list_containers_projects

*List the projects a Container Script belongs to*

**Description**

List the projects a Container Script belongs to

**Usage**

```
scripts_list_containers_projects(id, hidden = NULL)
```

**Arguments**

- **id** integer required. The ID of the Container Script.
- **hidden** boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

**Value**

An array containing the following fields:

- **id** integer, The ID for this project.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **name** string, The name of this project.
- **description** string, A description of the project.
- **users** array, An array containing the following fields:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **autoShare** boolean,
- **createdAt** string,
- **updatedAt** string,
- **archived** string, The archival status of the requested item(s).
scripts_list_containers_runs

List runs for the given container

Description
List runs for the given container

Usage

scripts_list_containers_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments

id integer required. The ID of the container.
limit integer optional. Number of results to return. Defaults to 20. Maximum allowed
    is 100.
page_num integer optional. Page number of the results to return. Defaults to the first page,
    1.
order string optional. The field on which to order the result set. Defaults to id. Must
    be one of: id.
order_dir string optional. Direction in which to sort, either asc (ascending) or desc (de-
    scending) defaulting to desc.

Value

An array containing the following fields:

id integer, The ID of the run.
containerId integer, The ID of the container.
state string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or
    'cancelled'.
isCancelRequested boolean, True if run cancel requested, else false.
startedAt string, The time the last run started at.
finishedAt string, The time the last run completed.
error string, The error, if any, returned by the run.
scripts_list_containers_runs_logs

Get the logs for a run

Description

Get the logs for a run

Usage

scripts_list_containers_runs_logs(id, run_id, last_id = NULL, limit = NULL)

Arguments

- **id**: integer required. The ID of the container.
- **run_id**: integer required. The ID of the run.
- **last_id**: integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- **limit**: integer optional. The maximum number of log messages to return. Default of 10000.

Value

An array containing the following fields:

- **id**: integer, The ID of the log.
- **createdAt**: string, The time the log was created.
- **message**: string, The log message.
- **level**: string, The level of the log. One of unknown, fatal, error, warn, info, debug.

scripts_list_containers_runs_outputs

List the outputs for a run

Description

List the outputs for a run
Usage

```
scripts_list_containers_runs_outputs(
    id,
    run_id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

- **id**  
  integer required. The ID of the container script.

- **run_id**  
  integer required. The ID of the run.

- **limit**  
  integer optional. Number of results to return. Defaults to its maximum of 50.

- **page_num**  
  integer optional. Page number of the results to return. Defaults to the first page, 1.

- **order**  
  string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.

- **order_dir**  
  string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **objectType**  
  string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue.

- **objectId**  
  integer, The ID of the output.

- **name**  
  string, The name of the output.

- **link**  
  string, The hypermedia link to the output.

- **value**  
  string,

---

**scripts_list_containers_shares**

*List users and groups permissioned on this object*

Description

List users and groups permissioned on this object

Usage

```
scripts_list_containers_shares(id)
```
Arguments

id integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts_list_custom List Custom Scripts

Description

List Custom Scripts

Usage

```python
scripts_list_custom(
  from_template_id = NULL,
  author = NULL,
  status = NULL,
  hidden = NULL,
  archived = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```
Arguments

from_template_id
string optional. If specified, return scripts based on the template with this ID. Specify multiple IDs as a comma-separated list.

author
string optional. If specified, return items from this author. Must use user IDs. A comma separated list of IDs is also accepted to return items from multiple authors.

status
string optional. If specified, returns items with one of these statuses. It accepts a comma-separated list, possible values are ‘running’, ‘failed’, ‘succeeded’, ‘idle’, ‘scheduled’.

hidden
boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

archived
string optional. The archival status of the requested item(s).

limit
integer optional. Number of results to return. Defaults to its maximum of 50.

page_num
integer optional. Page number of the results to return. Defaults to the first page, 1.

order
string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at.

order_dir
string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

Value

An array containing the following fields:

id
integer, The ID for the script.

name
string, The name of the script.

type
string, The type of the script (e.g Custom)

createdAt
string, The time this script was created.

updatedAt
string, The time the script was last updated.

author
list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

state
string, The status of the script’s last run.

finishedAt
string, The time that the script’s last run finished.

projects
array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.

parentId
integer, The ID of the parent job that will trigger this script
fromTemplateId integer, The ID of the template script.
timeZone string, The time zone of this script.
lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.
archived string, The archival status of the requested item(s).
lastSuccessfulRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

---

**scripts_list_custom_projects**

*List the projects a Custom Script belongs to*

**Description**

List the projects a Custom Script belongs to

**Usage**

```r
scripts_list_custom_projects(id, hidden = NULL)
```

**Arguments**

- **id** integer required. The ID of the Custom Script.
- **hidden** boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
Value

An array containing the following fields:

- **id**: integer, The ID for this project.
- **author**: list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- **name**: string, The name of this project.
- **description**: string, A description of the project.
- **users**: array, An array containing the following fields:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- **autoShare**: boolean,
- **createdAt**: string,
- **updatedAt**: string,
- **archived**: string, The archival status of the requested item(s).

---

**scripts_list_custom_runs**

*List runs for the given custom*

---

**Description**

List runs for the given custom

**Usage**

```python
scripts_list_custom_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```
Arguments

id  integer required. The ID of the custom.
limit  integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num  integer optional. Page number of the results to return. Defaults to the first page, 1.
order  string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir  string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

id  integer, The ID of the run.
customId  integer, The ID of the custom.
state  string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested  boolean, True if run cancel requested, else false.
startedAt  string, The time the last run started at.
finishedAt  string, The time the last run completed.
error  string, The error, if any, returned by the run.

Description

Get the logs for a run

Usage

scripts_list_custom_runs_logs(id, run_id, last_id = NULL, limit = NULL)

Arguments

id  integer required. The ID of the custom.
rn_id  integer required. The ID of the run.
last_id  integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
limit  integer optional. The maximum number of log messages to return. Default of 10000.
scripts_list_custom_runs_outputs

List the outputs for a run

Description

List the outputs for a run

Usage

scripts_list_custom_runs_outputs(
    id,
    run_id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments

id integer required. The ID of the custom script.
run_id integer required. The ID of the run.
limit integer optional. Number of results to return. Defaults to its maximum of 50.
page_num integer optional. Page number of the results to return. Defaults to the first page, 1.
order string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.
Value

An array containing the following fields:

- **objectType**: string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- **objectId**: integer, The ID of the output.
- **name**: string, The name of the output.
- **link**: string, The hypermedia link to the output.
- **value**: string,

---

**scripts_list_custom_shares**

*List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

```
scripts_list_custom_shares(id)
```

**Arguments**

- **id**: integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

- **readers**: list, A list containing the following elements:
  - users array,
  - groups array,
- **writers**: list, A list containing the following elements:
  - users array,
  - groups array,
- **owners**: list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares**: integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares**: integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
**scripts_list_history**  Get the run history and outputs of this script

**Description**
Get the run history and outputs of this script

**Usage**
scripts_list_history(id)

**Arguments**
id  integer required. The ID for the script.

**Value**
A list containing the following elements:

- id  integer, The ID of this run.
- sqlId  integer, The ID of this sql.
- state  string, The state of this run.
- isCancelRequested  boolean, True if run cancel requested, else false.
- finishedAt  string, The time that this run finished.
- error  string, The error message for this run, if present.
- output  array, An array containing the following fields:
  - outputName  string, The name of the output file.
  - fileId  integer, The unique ID of the output file.
  - path  string, The temporary link to download this output file, valid for 36 hours.

**scripts_list_javascript_git**  Get the git metadata attached to an item

**Description**
Get the git metadata attached to an item

**Usage**
scripts_list_javascript_git(id)
**Arguments**

id integer required. The ID of the file.

**Value**

A list containing the following elements:

- gitRef string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- gitBranch string, The git branch that the file is on.
- gitPath string, The path of the file in the repository.
- gitRepo list, A list containing the following elements:
  - id integer, The ID for this git repository.
  - repoUrl string, The URL for this git repository.
  - createdAt string,
  - updatedAt string,
- pullFromGit boolean, Automatically pull latest commit from git. Only works for scripts.

---

**scripts_list_javascript_git_commits**

*Get the git commits for an item*

**Description**

Get the git commits for an item

**Usage**

`scripts_list_javascript_git_commits(id)`

**Arguments**

id integer required. The ID of the file.

**Value**

A list containing the following elements:

- commitHash string, The SHA of the commit.
- authorName string, The name of the commit’s author.
- date string, The commit’s timestamp.
- message string, The commit message.
scripts_list_javascript_projects

List the projects a JavaScript Script belongs to

Description

List the projects a JavaScript Script belongs to

Usage

scripts_list_javascript_projects(id, hidden = NULL)

Arguments

id integer required. The ID of the JavaScript Script.
hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value

An array containing the following fields:

id integer, The ID for this project.
author list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.
name string, The name of this project.
description string, A description of the project.
users array, An array containing the following fields:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.
autoShare boolean,
createdAt string,
updatedAt string,
archived string, The archival status of the requested item(s).
scripts_list_javascript_runs

List runs for the given javascript

Description

List runs for the given javascript

Usage

scripts_list_javascript_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments

id
integer required. The ID of the javascript.

limit
integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.

page_num
integer optional. Page number of the results to return. Defaults to the first page, 1.

order
string optional. The field on which to order the result set. Defaults to id. Must be one of: id.

order_dir
string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

id
integer, The ID of the run.

javascriptId
integer, The ID of the javascript.

state
string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.

isCancelRequested
boolean, True if run cancel requested, else false.

startedAt
string, The time the last run started at.

finishedAt
string, The time the last run completed.

error
string, The error, if any, returned by the run.
scripts_list_javascript_runs_logs

Get the logs for a run

Description

Get the logs for a run

Usage

scripts_list_javascript_runs_logs(id, run_id, last_id = NULL, limit = NULL)

Arguments

id  integer required. The ID of the javascript.
run_id  integer required. The ID of the run.
last_id  integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
limit  integer optional. The maximum number of log messages to return. Default of 10000.

Value

An array containing the following fields:

id  integer, The ID of the log.
createdAt  string, The time the log was created.
message  string, The log message.
level  string, The level of the log. One of unknown,fatal,error,warning,info,debug.

scripts_list_javascript_runs_outputs

List the outputs for a run

Description

List the outputs for a run
Usage

```python
scripts_list_javascript_runs_outputs(
    id,
    run_id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

- **id**
  - integer required. The ID of the javascript script.
- **run_id**
  - integer required. The ID of the run.
- **limit**
  - integer optional. Number of results to return. Defaults to its maximum of 50.
- **page_num**
  - integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**
  - string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
- **order_dir**
  - string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **objectType**
  - string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- **objectId**
  - integer, The ID of the output.
- **name**
  - string, The name of the output.
- **link**
  - string, The hypermedia link to the output.
- **value**
  - string,

---

**scripts_list_javascript_shares**

*List users and groups permissioned on this object*

Description

List users and groups permissioned on this object

Usage

```python
scripts_list_javascript_shares(id)
```
Arguments

id integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

scripts_list_python3_git

Get the git metadata attached to an item

Description

Get the git metadata attached to an item

Usage

scripts_list_python3_git(id)

Arguments

id integer required. The ID of the file.
Value

A list containing the following elements:

- **gitRef** string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **gitBranch** string, The git branch that the file is on.
- **gitPath** string, The path of the file in the repository.
- **gitRepo** list, A list containing the following elements:
  - id integer, The ID for this git repository.
  - repoUrl string, The URL for this git repository.
  - createdAt string,
  - updatedAt string,
- **pullFromGit** boolean, Automatically pull latest commit from git. Only works for scripts.

---

**scripts_list_python3_git_commits**

*Get the git commits for an item*

Description

Get the git commits for an item

Usage

`scripts_list_python3_git_commits(id)`

Arguments

- **id** integer required. The ID of the file.

Value

A list containing the following elements:

- **commitHash** string, The SHA of the commit.
- **authorName** string, The name of the commit’s author.
- **date** string, The commit’s timestamp.
- **message** string, The commit message.
scripts_list_python3_projects

List the projects a Python Script belongs to

Description

List the projects a Python Script belongs to

Usage

scripts_list_python3_projects(id, hidden = NULL)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the Python Script.</td>
</tr>
<tr>
<td>hidden</td>
<td>boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.</td>
</tr>
</tbody>
</table>

Value

An array containing the following fields:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The ID for this project.</td>
</tr>
<tr>
<td>author</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id integer, The ID of this user.</td>
</tr>
<tr>
<td></td>
<td>• name string, This user's name.</td>
</tr>
<tr>
<td></td>
<td>• username string, This user's username.</td>
</tr>
<tr>
<td></td>
<td>• initials string, This user's initials.</td>
</tr>
<tr>
<td></td>
<td>• online boolean, Whether this user is online.</td>
</tr>
<tr>
<td>name</td>
<td>string, The name of this project.</td>
</tr>
<tr>
<td>description</td>
<td>string, A description of the project.</td>
</tr>
<tr>
<td>users</td>
<td>array, An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>• id integer, The ID of this user.</td>
</tr>
<tr>
<td></td>
<td>• name string, This user's name.</td>
</tr>
<tr>
<td></td>
<td>• username string, This user's username.</td>
</tr>
<tr>
<td></td>
<td>• initials string, This user's initials.</td>
</tr>
<tr>
<td></td>
<td>• online boolean, Whether this user is online.</td>
</tr>
<tr>
<td>autoShare</td>
<td>boolean,</td>
</tr>
<tr>
<td>createdAt</td>
<td>string,</td>
</tr>
<tr>
<td>updatedAt</td>
<td>string,</td>
</tr>
<tr>
<td>archived</td>
<td>string, The archival status of the requested item(s).</td>
</tr>
</tbody>
</table>
scripts_list_python3_runs

*List runs for the given python*

**Description**

List runs for the given python

**Usage**

```python
def scripts_list_python3_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

- **id** integer required. The ID of the python.
- **limit** integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

- **id** integer, The ID of the run.
- **pythonId** integer, The ID of the python.
- **state** string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested** boolean, True if run cancel requested, else false.
- **startedAt** string, The time the last run started at.
- **finishedAt** string, The time the last run completed.
- **error** string, The error, if any, returned by the run.
scripts_list_python3_runs_logs

*Get the logs for a run*

## Description

Get the logs for a run

## Usage

```r
scripts_list_python3_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

## Arguments

- **id**: integer required. The ID of the python.
- **run_id**: integer required. The ID of the run.
- **last_id**: integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- **limit**: integer optional. The maximum number of log messages to return. Default of 10000.

## Value

An array containing the following fields:

- **id**: integer, The ID of the log.
- **createdAt**: string, The time the log was created.
- **message**: string, The log message.
- **level**: string, The level of the log. One of unknown, fatal, error, warn, info, debug.

---

scripts_list_python3_runs_outputs

*List the outputs for a run*

## Description

List the outputs for a run
Usage

```python
def scripts_list_python3_runs_outputs(  
id,  
run_id,  
limit = NULL,  
page_num = NULL,  
order = NULL,  
order_dir = NULL  
)
```

Arguments

- **id**
  integer required. The ID of the python script.
- **run_id**
  integer required. The ID of the run.
- **limit**
  integer optional. Number of results to return. Defaults to its maximum of 50.
- **page_num**
  integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**
  string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
- **order_dir**
  string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **objectType**
  string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- **objectId**
  integer, The ID of the output.
- **name**
  string, The name of the output.
- **link**
  string, The hypermedia link to the output.
- **value**
  string,
Arguments

id   integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

readers   list, A list containing the following elements:
   • users array,
   • groups array,

writers   list, A list containing the following elements:
   • users array,
   • groups array,

owners    list, A list containing the following elements:
   • users array,
   • groups array,

totalUserShares   integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares   integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts_list_r_git   Get the git metadata attached to an item

Description

Get the git metadata attached to an item

Usage

scripts_list_r_git(id)

Arguments

id   integer required. The ID of the file.
Value

A list containing the following elements:

- **gitRef** string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **gitBranch** string, The git branch that the file is on.
- **gitPath** string, The path of the file in the repository.
- **gitRepo** list, A list containing the following elements:
  - **id** integer, The ID for this git repository.
  - **repoUrl** string, The URL for this git repository.
  - **createdAt** string,
  - **updatedAt** string,
- **pullFromGit** boolean, Automatically pull latest commit from git. Only works for scripts.

---

```r
scripts_list_r_git_commits

Get the git commits for an item
```

Description

Get the git commits for an item

Usage

`scripts_list_r_git_commits(id)`

Arguments

- **id** integer required. The ID of the file.

Value

A list containing the following elements:

- **commitHash** string, The SHA of the commit.
- **authorName** string, The name of the commit’s author.
- **date** string, The commit’s timestamp.
- **message** string, The commit message.
scripts_list_r_projects

List the projects an R Script belongs to

Description
List the projects an R Script belongs to

Usage
scripts_list_r_projects(id, hidden = NULL)

Arguments
id integer required. The ID of the R Script.
hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value
An array containing the following fields:

id integer, The ID for this project.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
name string, The name of this project.
description string, A description of the project.
users array, An array containing the following fields:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
autoShare boolean,
createdAt string,
updatedAt string,
archived string, The archival status of the requested item(s).
**scripts_list_r_runs**  
*List runs for the given r*

**Description**

List runs for the given r

**Usage**

```r
scripts_list_r_runs(
  id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

- `id` integer required. The ID of the r.
- `limit` integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
- `page_num` integer optional. Page number of the results to return. Defaults to the first page, 1.
- `order` string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
- `order_dir` string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

- `id` integer, The ID of the run.
- `rId` integer, The ID of the r.
- `state` string, The state of the run, one of ‘queued’ ‘running’ ‘succeeded’ ‘failed’ or ‘cancelled’.
- `isCancelRequested` boolean, True if run cancel requested, else false.
- `startedAt` string, The time the last run started at.
- `finishedAt` string, The time the last run completed.
- `error` string, The error, if any, returned by the run.
Get the logs for a run

**Description**

Get the logs for a run

**Usage**

```
scripts_list_r_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the r.</td>
</tr>
<tr>
<td>run_id</td>
<td>integer required. The ID of the run.</td>
</tr>
<tr>
<td>last_id</td>
<td>integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.</td>
</tr>
<tr>
<td>limit</td>
<td>integer optional. The maximum number of log messages to return. Default of 10000.</td>
</tr>
</tbody>
</table>

**Value**

An array containing the following fields:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The ID of the log.</td>
</tr>
<tr>
<td>createdAt</td>
<td>string, The time the log was created.</td>
</tr>
<tr>
<td>message</td>
<td>string, The log message.</td>
</tr>
<tr>
<td>level</td>
<td>string, The level of the log. One of unknown,fatal,error,warn,info,debug.</td>
</tr>
</tbody>
</table>

List the outputs for a run

**Description**

List the outputs for a run
Usage

`scripts_list_r_runs_outputs(
    id,
    run_id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
` 

Arguments

- **id**: integer required. The ID of the R script.
- **run_id**: integer required. The ID of the run.
- **limit**: integer optional. Number of results to return. Defaults to its maximum of 50.
- **page_num**: integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**: string optional. The field on which to order the result set. Defaults to `created_at`. Must be one of: `created_at`, `id`.
- **order_dir**: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **objectType**: string, The type of the output. Valid values are `File`, `Table`, `Report`, `Project`, `Credential`, or `JSONValue`
- **objectId**: integer, The ID of the output.
- **name**: string, The name of the output.
- **link**: string, The hypermedia link to the output.
- **value**: string,

Description

List users and groups permissioned on this object

Usage

`scripts_list_r_shares(id)`
scripts_list_sql_git

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the resource that is shared.</td>
</tr>
</tbody>
</table>

Value

An array containing the following fields:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts_list_sql_git  Get the git metadata attached to an item

Description

Get the git metadata attached to an item

Usage

scripts_list_sql_git(id)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the file.</td>
</tr>
</tbody>
</table>
Value

A list containing the following elements:

- **gitRef**: string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **gitBranch**: string, The git branch that the file is on.
- **gitPath**: string, The path of the file in the repository.
- **gitRepo**: list, A list containing the following elements:
  - **id**: integer, The ID for this git repository.
  - **repoUrl**: string, The URL for this git repository.
  - **createdAt**: string,
  - **updatedAt**: string,
- **pullFromGit**: boolean, Automatically pull latest commit from git. Only works for scripts.

---

**scripts_list_sql_git_commits**

Get the git commits for an item

Description

Get the git commits for an item

Usage

`scripts_list_sql_git_commits(id)`

Arguments

- **id**: integer required. The ID of the file.

Value

A list containing the following elements:

- **commitHash**: string, The SHA of the commit.
- **authorName**: string, The name of the commit’s author.
- **date**: string, The commit’s timestamp.
- **message**: string, The commit message.
scripts_list_sql_projects

List the projects a SQL script belongs to

Description

List the projects a SQL script belongs to

Usage

scripts_list_sql_projects(id, hidden = NULL)

Arguments

id integer required. The ID of the SQL script.
hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value

An array containing the following fields:

id integer, The ID for this project.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user's username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
name string, The name of this project.
description string, A description of the project.
users array, An array containing the following fields:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user's username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
autoShare boolean,
createdAt string,
updatedAt string,
archived string, The archival status of the requested item(s).
scripts_list_sql_runs  List runs for the given sql

Description
List runs for the given sql

Usage

```
scripts_list_sql_runs(
  id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

Arguments

- **id** integer required. The ID of the sql.
- **limit** integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **id** integer, The ID of this run.
- **sqlId** integer, The ID of this sql.
- **state** string, The state of this run.
- **isCancelRequested** boolean, True if run cancel requested, else false.
- **startedAt** string, The time the last run started.
- **finishedAt** string, The time that this run finished.
- **error** string, The error message for this run, if present.
- **output** array, An array containing the following fields:
  - **outputName** string, The name of the output file.
  - **fileId** integer, The unique ID of the output file.
  - **path** string, The temporary link to download this output file, valid for 36 hours.
scripts_list_sql_runs_logs

*Get the logs for a run*

**Description**

Get the logs for a run

**Usage**

```python
scripts_list_sql_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

**Arguments**

- **id**: integer required. The ID of the sql.
- **run_id**: integer required. The ID of the run.
- **last_id**: integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- **limit**: integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

- **id**: integer, The ID of the log.
- **createdAt**: string, The time the log was created.
- **message**: string, The log message.
- **level**: string, The level of the log. One of unknown, fatal, error, warn, info, debug.

---

scripts_list_sql_runs_outputs

*List the outputs for a run*

**Description**

List the outputs for a run
Usage

```python
scripts_list_sql_runs_outputs(
    id,
    run_id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

- **id** integer required. The ID of the sql script.
- **run_id** integer required. The ID of the run.
- **limit** integer optional. Number of results to return. Defaults to its maximum of 50.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **objectType** string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- **objectId** integer, The ID of the output.
- **name** string, The name of the output.
- **link** string, The hypermedia link to the output.
- **value** string,

---

**scripts_list_sql_shares**

List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

```python
scripts_list_sql_shares(id)
```
**Arguments**

id  
integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares**  
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares**  
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**scripts_list_types**  
*List available script types*

**Description**

List available script types

**Usage**

`scripts_list_types()`

**Value**

An array containing the following fields:

- **name**  
string, The name of the type.
scripts_patch

Update a script

**Description**

Update a script

**Usage**

```r
scripts_patch(
  id,
  name = NULL,
  sql = NULL,
  params = NULL,
  arguments = NULL,
  template_script_id = NULL,
  schedule = NULL,
  notifications = NULL,
  parent_id = NULL
)
```

**Arguments**

- `id` integer required. The ID for the script.
- `name` string optional. The name of the script.
- `sql` string optional. The raw SQL query for the script.
- `params` array optional. An array containing the following fields:
  - `name` string, The variable’s name as used within your code.
  - `label` string, The label to present to users when asking them for the value.
  - `description` string, A short sentence or fragment describing this parameter to the end user.
  - `type` string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - `required` boolean, Whether this param is required.
  - `value` string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - `default` string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  - `allowedValues` array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: `label: 'Import', 'value': 'import'`
arguments list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

template_script_id integer optional. The ID of the template script, if any. A script cannot both have a template script and be a template for other scripts.

schedule list optional. A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list optional. A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

parent_id integer optional. The ID of the parent job that will trigger this script

Value

A list containing the following elements:

id integer, The ID for the script.
name string, The name of the script.
type string, The type of script.
createdAt string, The time this script was created.
updatedAt string, The time this script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.

parentId integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.
params array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  • allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.

links list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.
scripts_patch

scheduled boolean, If the item is scheduled.
scheduledDays array, Day based on numeric value starting at 0 for Sunday.
scheduledHours array, Hours of the day it is scheduled on.
scheduledMinutes array, Minutes of the day it is scheduled on.
scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  urls array, URLs to receive a POST request at job completion
  successEmailSubject string, Custom subject line for success e-mail.
  successEmailBody string, Custom body text for success e-mail, written in Markdown.
  successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  successOn boolean, If success email notifications are on.
  failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  id integer, The ID of this user.
  name string, This user’s name.
  username string, This user’s username.
  initials string, This user's initials.
  online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
  id integer,
  state string,
  createdAt string, The time that the run was queued.
  startedAt string, The time that the run started.
  finishedAt string, The time that the run completed.
  error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
targetProjectId integer, Target project to which script outputs will be added.
scripts_patch_containers

Update a container

Description

Update a container

Usage

```python
scripts_patch_containers(
    id,
    name = NULL,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    required_resources = NULL,
    repo_http_uri = NULL,
    repo_ref = NULL,
    remote_host_credential_id = NULL,
    git_credential_id = NULL,
    docker_command = NULL,
    docker_image_name = NULL,
    docker_image_tag = NULL,
    instance_type = NULL,
    cancel_timeout = NULL,
    time_zone = NULL,
    target_project_id = NULL
)
```

Arguments

- **id** integer required. The ID for the script.
- **name** string optional. The name of the container.
- **parent_id** integer optional. The ID of the parent job that will trigger this script
user_context  string optional. "runner" or "author", who to execute the script as when run as a template.

params  array optional. An array containing the following fields:
  • name string. The variable’s name as used within your code.
  • label string. The label to present to users when asking them for the value.
  • description string. A short sentence or fragment describing this parameter to the end user.
  • type string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean. Whether this param is required.
  • value string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  • allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’‘

arguments  list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

schedule  list optional. A list containing the following elements:
  • scheduled boolean. If the item is scheduled.
  • scheduledDays array. Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array. Hours of the day it is scheduled on.
  • scheduledMinutes array. Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer. Alternative to scheduled minutes, number of times to run per hour.

notifications  list optional. A list containing the following elements:
  • urls array. URLs to receive a POST request at job completion
  • successEmailSubject string. Custom subject line for success e-mail.
  • successEmailBody string. Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array. Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string. Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string. Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array. Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer. Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

required_resources
list optional. A list containing the following elements:
• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.
• memory integer, The amount of RAM to allocate for the container (in MB).
• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.
• wholeInstance boolean, Whether or not to use the entire instance. If true, cpu, memory, and disk space are not required and will be set to an instance’s max.

repo_http_uri string optional. The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.

repo_ref string optional. The tag or branch of the github repo to clone into the container.

remote_host_credential_id integer optional. The id of the database credentials to pass into the environment of the container.

git_credential_id integer optional. The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you’ve submitted will be used. Unnecessary if no git repo is specified or the git repo is public.

docker_command string optional. The command to run on the container. Will be run via sh as: ["sh", "-c", dockerCommand]. Defaults to the Docker image’s ENTRY-POINT/CMD.

docker_image_name string optional. The name of the docker image to pull from DockerHub.

docker_image_tag string optional. The tag of the docker image to pull from DockerHub.

instance_type string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

cancel_timeout integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

time_zone string optional. The time zone of this script.

target_project_id integer optional. Target project to which script outputs will be added.

Value
A list containing the following elements:

id integer, The ID for the script.
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>string, The name of the container.</td>
</tr>
<tr>
<td>type</td>
<td>string, The type of the script (e.g. Container)</td>
</tr>
<tr>
<td>createdAt</td>
<td>string, The time this script was created.</td>
</tr>
<tr>
<td>updatedAt</td>
<td>string, The time the script was last updated.</td>
</tr>
<tr>
<td>author</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id integer, The ID of this user.</td>
</tr>
<tr>
<td></td>
<td>• name string, This user’s name.</td>
</tr>
<tr>
<td></td>
<td>• username string, This user’s username.</td>
</tr>
<tr>
<td></td>
<td>• initials string, This user’s initials.</td>
</tr>
<tr>
<td></td>
<td>• online boolean, Whether this user is online.</td>
</tr>
<tr>
<td>state</td>
<td>string, The status of the script’s last run.</td>
</tr>
<tr>
<td>finishedAt</td>
<td>string, The time that the script’s last run finished.</td>
</tr>
<tr>
<td>category</td>
<td>string, The category of the script.</td>
</tr>
<tr>
<td>projects</td>
<td>array, An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>• id integer, The ID for the project.</td>
</tr>
<tr>
<td></td>
<td>• name string, The name of the project.</td>
</tr>
<tr>
<td>parentId</td>
<td>integer, The ID of the parent job that will trigger this script</td>
</tr>
<tr>
<td>userContext</td>
<td>string, &quot;runner&quot; or &quot;author&quot;, who to execute the script as when run as a template.</td>
</tr>
<tr>
<td>params</td>
<td>array, An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>• name string, The variable’s name as used within your code.</td>
</tr>
<tr>
<td></td>
<td>• label string, The label to present to users when asking them for the value.</td>
</tr>
<tr>
<td></td>
<td>• description string, A short sentence or fragment describing this parameter to the end user.</td>
</tr>
<tr>
<td></td>
<td>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</td>
</tr>
<tr>
<td></td>
<td>• required boolean, Whether this param is required.</td>
</tr>
<tr>
<td></td>
<td>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</td>
</tr>
<tr>
<td></td>
<td>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.</td>
</tr>
<tr>
<td></td>
<td>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’</td>
</tr>
<tr>
<td>arguments</td>
<td>list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.</td>
</tr>
<tr>
<td>isTemplate</td>
<td>boolean, Whether others scripts use this one as a template.</td>
</tr>
<tr>
<td>templateDependentsCount</td>
<td>integer, How many other scripts use this one as a template.</td>
</tr>
</tbody>
</table>
scripts_patch_containers

publishedAsTemplateId
integer, The ID of the template that this script is backing.

fromTemplateId
integer, The ID of the template script.

templateScriptName
string, The name of the template script.

links
list, A list containing the following elements:

• details string, The details link to get more information about the script.
• runs string, The runs link to get the run information list for this script.

schedule
list, A list containing the following elements:

• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications
list, A list containing the following elements:

• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs
list, A list containing the following elements:

• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

requiredResources
list, A list containing the following elements:

• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.
- memory integer, The amount of RAM to allocate for the container (in MB).
- diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

repoHttpUri string, The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.

repoRef string, The tag or branch of the github repo to clone into the container.

remoteHostCredentialId integer, The id of the database credentials to pass into the environment of the container.

gitCredentialId integer, The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you’ve submitted will be used. Unnecessary if no git repo is specified or the git repo is public.

dockerCommand string, The command to run on the container. Will be run via sh as: ["sh", "-c", dockerCommand]. Defaults to the Docker image’s ENTRYPOINT/CMD.

dockerImageName string, The name of the docker image to pull from DockerHub.

dockerImageTag string, The tag of the docker image to pull from DockerHub.

instanceType string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

lastRun list, A list containing the following elements:
- id integer,
- state string,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

timeZone string, The time zone of this script.

hidden boolean, The hidden status of the item.

archived string, The archival status of the requested item(s).

targetProjectId integer, Target project to which script outputs will be added.
Update some attributes of this Custom Script

Usage

```python
scripts_patch_custom(
    id,
    name = NULL,
    parent_id = NULL,
    arguments = NULL,
    remote_host_id = NULL,
    credential_id = NULL,
    schedule = NULL,
    notifications = NULL,
    time_zone = NULL,
    target_project_id = NULL
)
```

Arguments

- **id** integer required. The ID for the script.
- **name** string optional. The name of the script.
- **parent_id** integer optional. The ID of the parent job that will trigger this script.
- **arguments** list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
- **remote_host_id** integer optional. The remote host ID that this script will connect to.
- **credential_id** integer optional. The credential that this script will use.
- **schedule** list optional. A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
- **notifications** list optional. A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

time_zone string optional. The time zone of this script.
target_project_id integer optional. Target project to which script outputs will be added.

Value

A list containing the following elements:

id integer, The ID for the script.
name string, The name of the script.
type string, The type of the script (e.g Custom)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string,
projects array, An array containing the following fields:
• id integer, The ID for the project.
• name string, The name of the project.
parent_id integer, The ID of the parent job that will trigger this script
params array, An array containing the following fields:
• name string, The variable’s name as used within your code.
• label string, The label to present to users when asking them for the value.
• description string, A short sentence or fragment describing this parameter to the end user.
• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
• required boolean, Whether this param is required.
• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import'

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template script.
uiReportUrl integer, The url of the custom HTML.
uiReportId integer, The id of the report with the custom HTML.
uiReportProvideAPIKey boolean, Whether the ui report requests an API Key from the report viewer.
templateScriptName string, The name of the template script.
templateNote string, The template’s note.
remoteHostId integer, The remote host ID that this script will connect to.
credentialId integer, The credential that this script will use.
codePreview string, The code that this script will run with arguments inserted.
schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

archived string, The archival status of the requested item(s).

targetProjectId integer, Target project to which script outputs will be added.

lastSuccessfulRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.
scripts_patch_javascript

Update some attributes of this JavaScript Script

Description

Update some attributes of this JavaScript Script

Usage

scripts_patch_javascript(
    id,
    name = NULL,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    next_run_at = NULL,
    time_zone = NULL,
    target_project_id = NULL,
    source = NULL,
    remote_host_id = NULL,
    credential_id = NULL
)

Arguments

id integer required. The ID for the script.
name string optional. The name of the script.
parent_id integer optional. The ID of the parent job that will trigger this script.
user_context string optional. "runner" or "author", who to execute the script as when run as a template.
params array optional. An array containing the following fields:
    • name string. The variable’s name as used within your code.
    • label string. The label to present to users when asking them for the value.
    • description string. A short sentence or fragment describing this parameter to the end user.
    • type string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
    • required boolean, Whether this param is required.
    • value string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.

• allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import'’

arguments list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

schedule list optional. A list containing the following elements:

• scheduled boolean. If the item is scheduled.
• scheduledDays array. Day based on numeric value starting at 0 for Sunday.
• scheduledHours array. Hours of the day it is scheduled on.
• scheduledMinutes array. Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer. Alternative to scheduled minutes, number of times to run per hour.

notifications list optional. A list containing the following elements:

• urls array. URLs to receive a POST request at job completion
• successEmailSubject string. Custom subject line for success e-mail.
• successEmailBody string. Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array. Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string. Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string. Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array. Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer. Stall warning emails will be sent after this amount of minutes.
• successOn boolean. If success email notifications are on.
• failureOn boolean. If failure email notifications are on.

next_run_at string optional. The time of the next scheduled run.

time_zone string optional. The time zone of this script.

target_project_id integer optional. Target project to which script outputs will be added.

source string optional. The body/text of the script.

remote_host_id integer optional. The remote host ID that this script will connect to.

credential_id integer optional. The credential that this script will use.
Value
A list containing the following elements:

- `id` integer, The ID for the script.
- `name` string, The name of the script.
- `type` string, The type of the script (e.g. SQL, Container, Python, R, JavaScript)
- `createdAt` string, The time this script was created.
- `updatedAt` string, The time the script was last updated.
- `author` list, A list containing the following elements:
  - `id` integer, The ID of this user.
  - `name` string, This user’s name.
  - `username` string, This user’s username.
  - `initials` string, This user’s initials.
  - `online` boolean, Whether this user is online.
- `state` string, The status of the script’s last run.
- `finishedAt` string, The time that the script’s last run finished.
- `category` string, The category of the script.
- `projects` array, An array containing the following fields:
  - `id` integer, The ID for the project.
  - `name` string, The name of the project.
- `parentId` integer, The ID of the parent job that will trigger this script
- `userContext` string, "runner" or "author", who to execute the script as when run as a template.
- `params` array, An array containing the following fields:
  - `name` string, The variable’s name as used within your code.
  - `label` string, The label to present to users when asking them for the value.
  - `description` string, A short sentence or fragment describing this parameter to the end user.
  - `type` string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - `required` boolean, Whether this param is required.
  - `value` string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - `default` string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  - `allowedValues` array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’
- `arguments` list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
scripts_patch_javascript

isTemplate boolean, Whether others scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.

templateDependentsCount integer, How many other scripts use this one as a template.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this script.
lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.
hidden boolean, The hidden status of the item.
targetProjectId integer, Target project to which script outputs will be added.
archived string, The archival status of the requested item(s).
source string, The body/text of the script.
remoteHostId integer, The remote host ID that this script will connect to.
credentialId integer, The credential that this script will use.

---

**scripts_patch_python3**  
*Update some attributes of this Python Script*

---

**Description**

Update some attributes of this Python Script

**Usage**

```python
scripts_patch_python3(
    id,
    name = NULL,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    next_run_at = NULL,
    time_zone = NULL,
    target_project_id = NULL,
    required_resources = NULL,
    instance_type = NULL,
    source = NULL,
    cancel_timeout = NULL,
    docker_image_tag = NULL
)
```
Arguments

id | integer required. The ID for the script.
name | string optional. The name of the script.
parent_id | integer optional. The ID of the parent job that will trigger this script
user_context | string optional. "runner" or "author", who to execute the script as when run as a template.

params | array optional. An array containing the following fields:
  • name string. The variable’s name as used within your code.
  • label string. The label to present to users when asking them for the value.
  • description string. A short sentence or fragment describing this parameter to the end user.
  • type string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  • allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’

arguments | list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
schedule | list optional. A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications | list optional. A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string. Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array. Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer. Stall warning emails will be sent after this amount of minutes.
• successOn boolean. If success email notifications are on.
• failureOn boolean. If failure email notifications are on.

next_run_at string optional. The time of the next scheduled run.
time_zone string optional. The time zone of this script.
target_project_id integer optional. Target project to which script outputs will be added.
required_resources list optional. A list containing the following elements:
  • cpu integer. The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
  • memory integer. The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
  • diskSpace number. The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instance_type string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
source string optional. The body/text of the script.
cancel_timeout integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
docker_image_tag string optional. The tag of the docker image to pull from DockerHub.

Value

A list containing the following elements:

id integer, The ID for the script.
name string, The name of the script.
type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

**state** string, The status of the script’s last run.

**finishedAt** string, The time that the script’s last run finished.

**category** string, The category of the script.

**projects** array, An array containing the following fields:
  - id integer, The ID for the project.
  - name string, The name of the project.

**parentId** integer, The ID of the parent job that will trigger this script

**userContext** string, "runner" or "author", who to execute the script as when run as a template.

**params** array, An array containing the following fields:
  - name string, The variable’s name as used within your code.
  - label string, The label to present to users when asking them for the value.
  - description string, A short sentence or fragment describing this parameter to the end user.
  - type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - required boolean, Whether this param is required.
  - value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  - allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label’: ‘Import’, ‘value’: ‘import’

**arguments** list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

**isTemplate** boolean, Whether others scripts use this one as a template.

**publishedAsTemplateId** integer, The ID of the template that this script is backing.

**fromTemplateId** integer, The ID of the template this script uses, if any.

**templateDependentsCount** integer, How many other scripts use this one as a template.

**templateScriptName** string, The name of the template script.

**links** list, A list containing the following elements:
  - details string, The details link to get more information about the script.
  - runs string, The runs link to get the run information list for this script.
scripts_patch_python3

schedule list, A list containing the following elements:
   • scheduled boolean, If the item is scheduled.
   • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
   • scheduledHours array, Hours of the day it is scheduled on.
   • scheduledMinutes array, Minutes of the day it is scheduled on.
   • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
   • urls array, URLs to receive a POST request at job completion
   • successEmailSubject string, Custom subject line for success e-mail.
   • successEmailBody string, Custom body text for success e-mail, written in Markdown.
   • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
   • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
   • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
   • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
   • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
   • successOn boolean, If success email notifications are on.
   • failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
   • id integer, The ID of this user.
   • name string, This user’s name.
   • username string, This user’s username.
   • initials string, This user’s initials.
   • online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
   • id integer,
   • state string,
   • createdAt string, The time that the run was queued.
   • startedAt string, The time that the run started.
   • finishedAt string, The time that the run completed.
   • error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.
scripts_patch_r

archived string, The archival status of the requested item(s).
requiredResources list, A list containing the following elements:
  • cpu integer, The number of CPU shares to allocate for the container. Each
    core has 1000 shares. Must be at least 2 shares.
  • memory integer, The amount of RAM to allocate for the container (in MB).
    Must be at least 4 MB.
  • diskSpace number, The amount of disk space, in GB, to allocate for the
    container. This space will be used to hold the git repo configured for the
    container and anything your container writes to /tmp or /data. Fractional
    values (e.g. 0.25) are supported.
instanceType string, The EC2 instance type to deploy to. Only available for jobs running on
kubernetes.
source string, The body/text of the script.
cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the
script. When the script is cancelled, it is first sent a TERM signal. If the script
is still running after the timeout, it is sent a KILL signal. Defaults to 0.
dockerImageTag string, The tag of the docker image to pull from DockerHub.

---

scripts_patch_r Update some attributes of this R Script

Description

Update some attributes of this R Script

Usage

scripts_patch_r(
  id,
  name = NULL,
  parent_id = NULL,
  user_context = NULL,
  params = NULL,
  arguments = NULL,
  schedule = NULL,
  notifications = NULL,
  next_run_at = NULL,
  time_zone = NULL,
  target_project_id = NULL,
  required_resources = NULL,
  instance_type = NULL,
  source = NULL,
  cancel_timeout = NULL,
  docker_image_tag = NULL
)
**Arguments**

- **id**
  integer required. The ID for the script.

- **name**
  string optional. The name of the script.

- **parent_id**
  integer optional. The ID of the parent job that will trigger this script.

- **user_context**
  string optional. "runner" or "author", who to execute the script as when run as a template.

- **params**
  array optional. An array containing the following fields:
  - **name** string. The variable’s name as used within your code.
  - **label** string. The label to present to users when asking them for the value.
  - **description** string. A short sentence or fragment describing this parameter to the end user.
  - **type** string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom.
  - **required** boolean. Whether this param is required.
  - **value** string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - **default** string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  - **allowedValues** array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import''

- **arguments**
  list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

- **schedule**
  list optional. A list containing the following elements:
  - **scheduled** boolean. If the item is scheduled.
  - **scheduledDays** array, Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours** array, Hours of the day it is scheduled on.
  - **scheduledMinutes** array, Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour** integer, Alternative to scheduled minutes, number of times to run per hour.

- **notifications**
  list optional. A list containing the following elements:
  - **urls** array, URLs to receive a POST request at job completion.
  - **successEmailSubject** string, Custom subject line for success e-mail.
  - **successEmailBody** string, Custom body text for success e-mail, written in Markdown.
  - **successEmailAddresses** array, Addresses to notify by e-mail when the job completes successfully.
  - **successEmailFromName** string, Name from which success emails are sent; defaults to "Civis."
scripts_patch_r

- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

next_run_at string optional. The time of the next scheduled run.

time_zone string optional. The time zone of this script.

target_project_id integer optional. Target project to which script outputs will be added.

required_resources list optional. A list containing the following elements:
- cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
- memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
- diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instance_type string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

source string optional. The body/text of the script.

cancel_timeout integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

docker_image_tag string optional. The tag of the docker image to pull from DockerHub.

Value

A list containing the following elements:

- id integer, The ID for the script.
- name string, The name of the script.
- type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
- createdAt string, The time this script was created.
- updatedAt string, The time the script was last updated.
- author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

state string, The status of the script’s last run.

finishedAt string, The time that the script’s last run finished.

category string, The category of the script.

projects array, An array containing the following fields:
- id integer, The ID for the project.
- name string, The name of the project.

parentId integer, The ID of the parent job that will trigger this script.

userContext string, "runner" or "author", who to execute the script as when run as a template.

params array, An array containing the following fields:
- name string, The variable’s name as used within your code.
- label string, The label to present to users when asking them for the value.
- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.

templateDependentsCount integer, How many other scripts use this one as a template.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:
- details string, The details link to get more information about the script.
- runs string, The runs link to get the run information list for this script.
schedule list, A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
- id integer,
- state string,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.
scripts_patch_sql

Update some attributes of this SQL script

Description

Update some attributes of this SQL script

Usage

```python
scripts_patch_sql(
    id,
    name = NULL,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    next_run_at = NULL,
    time_zone = NULL,
    target_project_id = NULL,
    sql = NULL,
    remote_host_id = NULL,
    credential_id = NULL,
    csv_settings = NULL
)
```
**Arguments**

- **id** integer required. The ID for the script.
- **name** string optional. The name of the script.
- **parent_id** integer optional. The ID of the parent job that will trigger this script.
- **user_context** string optional. "runner" or "author", who to execute the script as when run as a template.
- **params** array optional. An array containing the following fields:
  - **name** string. The variable’s name as used within your code.
  - **label** string. The label to present to users when asking them for the value.
  - **description** string. A short sentence or fragment describing this parameter to the end user.
  - **type** string. The type of parameter. Valid options: `string`, `multi_line_string`, `integer`, `float`, `bool`, `file`, `table`, `database`, `credential_aws`, `credential_redshift`, or `credential_custom`
  - **required** boolean. Whether this param is required.
  - **value** string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - **default** string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  - **allowedValues** array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: `{label: 'Import', 'value': 'import'}`
- **arguments** list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
- **schedule** list optional. A list containing the following elements:
  - **scheduled** boolean. If the item is scheduled.
  - **scheduledDays** array. Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours** array. Hours of the day it is scheduled on.
  - **scheduledMinutes** array. Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour** integer. Alternative to scheduled minutes, number of times to run per hour.
- **notifications** list optional. A list containing the following elements:
  - **urls** array. URLs to receive a POST request at job completion.
  - **successEmailSubject** string. Custom subject line for success e-mail.
  - **successEmailBody** string. Custom body text for success e-mail, written in Markdown.
  - **successEmailAddresses** array. Addresses to notify by e-mail when the job completes successfully.
  - **successEmailFromName** string. Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

next_run_at string optional. The time of the next scheduled run.
time_zone string optional. The time zone of this script.
target_project_id integer optional. Target project to which script outputs will be added.
sql string optional. The raw SQL query for the script.
remote_host_id integer optional. The remote host ID that this script will connect to.
credential_id integer optional. The credential that this script will use.
csv_settings list optional. A list containing the following elements:
  - includeHeader boolean, Whether or not to include headers in the output data. Default: true
  - compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip
  - columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma
  - unquoted boolean, Whether or not to quote fields. Default: false
  - forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false
  - filenamePrefix string, A user specified filename prefix for the output file to have. Default: null
  - maxFileSize integer, The max file size, in MB, created files will be. Only available when forceMultifile is true.

Value

A list containing the following elements:

- id integer, The ID for the script.
- name string, The name of the script.
- type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
- createdAt string, The time this script was created.
- updatedAt string, The time the script was last updated.
- author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

state
string, The status of the script’s last run.
finishedAt
string, The time that the script’s last run finished.
category
string, The category of the script.
projects
array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentId
integer, The ID of the parent job that will trigger this script
userContext
string, "runner" or "author", who to execute the script as when run as a template.
params
array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  • allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’
arguments
list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate
boolean, Whether others scripts use this one as a template.
publishedAsTemplateId
integer, The ID of the template that this script is backing.
fromTemplateId
integer, The ID of the template this script uses, if any.
templateDependentsCount
integer, How many other scripts use this one as a template.
templateScriptName
string, The name of the template script.
links
list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.
schedule
list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
targetProjectId integer, Target project to which script outputs will be added.

archived string, The archival status of the requested item(s).
scripts_post

sql string, The raw SQL query for the script.
expandedArguments list, Expanded arguments for use in injecting into different environments.
remoteHostId integer, The remote host ID that this script will connect to.
credentialId integer, The credential that this script will use.
codePreview string, The code that this script will run with arguments inserted.
csvSettings list, A list containing the following elements:
  • includeHeader boolean, Whether or not to include headers in the output data. Default: true
  • compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip
  • columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma
  • unquoted boolean, Whether or not to quote fields. Default: false
  • forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false
  • filenamePrefix string, A user specified filename prefix for the output file to have. Default: null
  • maxFileSize integer, The max file size, in MB, created files will be. Only available when force_multifile is true.

scripts_post Create a script

Description
Create a script

Usage

```javascript
scripts_post(
  name,
  remote_host_id,
  credential_id,
  sql,
  params = NULL,
  arguments = NULL,
  template_script_id = NULL,
  notifications = NULL,
  hidden = NULL
)
```
# Arguments

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>string</td>
<td>required</td>
<td>The name of the script.</td>
</tr>
<tr>
<td>remote_host_id</td>
<td>integer</td>
<td>required</td>
<td>The database ID.</td>
</tr>
<tr>
<td>credential_id</td>
<td>integer</td>
<td>required</td>
<td>The credential ID.</td>
</tr>
<tr>
<td>sql</td>
<td>string</td>
<td>required</td>
<td>The raw SQL query for the script.</td>
</tr>
<tr>
<td>params</td>
<td>array</td>
<td>optional</td>
<td>An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• name string, The variable’s name as used within your code.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• label string, The label to present to users when asking them for the value.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• description string, A short sentence or fragment describing this parameter</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>to the end user.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• type string, The type of parameter. Valid options: string, multi_line_string,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>integer, float, bool, file, table, database, credential_aws, credential_redshift,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>or credential_custom</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• required boolean, Whether this param is required.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• value string, The value you would like to set this param to. Setting this</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>value makes this parameter a fixed param.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• default string, If an argument for this parameter is not defined, it will use</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>this default value. Use true, True, t, y, yes, or 1 for true bool’s or false,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>required or a credential type.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• allowedValues array, The possible values this parameter can take, effect-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', ‘value': 'import'’</td>
</tr>
<tr>
<td>arguments</td>
<td>list</td>
<td>optional</td>
<td>Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.</td>
</tr>
<tr>
<td>template_script_id</td>
<td>integer</td>
<td>optional</td>
<td>The ID of the template script, if any. A script cannot both have a template script and be a template for other scripts.</td>
</tr>
<tr>
<td>notifications</td>
<td>list</td>
<td>optional</td>
<td>A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>urls array</td>
<td></td>
<td>URLs to receive a POST request at job completion</td>
</tr>
<tr>
<td></td>
<td>successEmailSubject string</td>
<td></td>
<td>Custom subject line for success e-mail.</td>
</tr>
<tr>
<td></td>
<td>successEmailBody string</td>
<td></td>
<td>Custom body text for success e-mail, written in Markdown.</td>
</tr>
<tr>
<td></td>
<td>successEmailAddresses array</td>
<td></td>
<td>Addresses to notify by e-mail when the job completes successfully.</td>
</tr>
<tr>
<td></td>
<td>successEmailFromName string</td>
<td></td>
<td>Name from which success emails are sent; defaults to &quot;Civis.&quot;</td>
</tr>
<tr>
<td></td>
<td>successEmailReplyTo string</td>
<td></td>
<td>Address for replies to success emails; defaults to the author of the job.</td>
</tr>
<tr>
<td></td>
<td>failureEmailAddresses array</td>
<td></td>
<td>Addresses to notify by e-mail when the job fails.</td>
</tr>
<tr>
<td></td>
<td>stallWarningMinutes integer</td>
<td></td>
<td>Stall warning emails will be sent after this amount of minutes.</td>
</tr>
</tbody>
</table>
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

**hidden** boolean optional. The hidden status of the item.

**Value**

A list containing the following elements:

- id integer, The ID for the script.
- name string, The name of the script.
- type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
- createdAt string, The time this script was created.
- updatedAt string, The time the script was last updated.
- author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- state string, The status of the script’s last run.
- finishedAt string, The time that the script’s last run finished.
- category string, The category of the script.
- projects array, An array containing the following fields:
  - id integer, The ID for the project.
  - name string, The name of the project.
- parentId integer, The ID of the parent job that will trigger this script
- userContext string, "runner" or "author", who to execute the script as when run as a template.
- params array, An array containing the following fields:
  - name string, The variable’s name as used within your code.
  - label string, The label to present to users when asking them for the value.
  - description string, A short sentence or fragment describing this parameter to the end user.
  - type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - required boolean, Whether this param is required.
  - value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
scripts_post

- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.

templateDependentsCount integer, How many other scripts use this one as a template.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:
  - details string, The details link to get more information about the script.
  - runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  - successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  - failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  - stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  - successOn boolean, If success email notifications are on.
  - failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  - id integer, The ID of this user.
scripts_post_cancel

- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this script.
lastRun list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
targetProjectId integer, Target project to which script outputs will be added.
archived string, The archival status of the requested item(s).
templateScriptId integer, The ID of the template script, if any.

---

**scripts_post_cancel**  *Cancel a run*

**Description**
Cancel a run

**Usage**
```
scripts_post_cancel(id)
```

**Arguments**
- **id** integer required. The ID of the job.

**Value**
A list containing the following elements:
- **id** integer, The ID of the run.
- **state** string, The state of the run, one of 'queued', 'running' or 'cancelled'.
- **isCancelRequested** boolean, True if run cancel requested, else false.
scripts_post_containers

Create a container

Description
Create a container

Usage

scripts_post_containers(
    required_resources,
    docker_image_name,
    name = NULL,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    repo_http_uri = NULL,
    repo_ref = NULL,
    remote_host_credential_id = NULL,
    git_credential_id = NULL,
    docker_command = NULL,
    docker_image_tag = NULL,
    instance_type = NULL,
    cancel_timeout = NULL,
    time_zone = NULL,
    hidden = NULL,
    target_project_id = NULL
)

Arguments
required_resources
list required. A list containing the following elements:
• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.
• memory integer, The amount of RAM to allocate for the container (in MB).
• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.
• wholeInstance boolean, Whether or not to use the entire instance. If true, cpu, memory, and disk space are not required and will be set to an instance’s max.
scripts_post_containers

docker_image_name
string required. The name of the docker image to pull from DockerHub.

name
string optional. The name of the container.

parent_id
integer optional. The ID of the parent job that will trigger this script

user_context
string optional. "runner" or "author", who to execute the script as when run as a template.

params
array optional. An array containing the following fields:
  • name string. The variable’s name as used within your code.
  • label string. The label to present to users when asking them for the value.
  • description string. A short sentence or fragment describing this parameter to the end user.
  • type string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean. Whether this param is required.
  • value string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  • allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import'’

arguments
list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

schedule
list optional. A list containing the following elements:
  • scheduled boolean. If the item is scheduled.
  • scheduledDays array. Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array. Hours of the day it is scheduled on.
  • scheduledMinutes array. Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer. Alternative to scheduled minutes, number of times to run per hour.

notifications
list optional. A list containing the following elements:
  • urls array. URLs to receive a POST request at job completion
  • successEmailSubject string. Custom subject line for success e-mail.
  • successEmailBody string. Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array. Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string. Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string. Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

repo_http_uri string optional. The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.

repo_ref string optional. The tag or branch of the github repo to clone into the container.

remote_host_credential_id integer optional. The id of the database credentials to pass into the environment of the container.

git_credential_id integer optional. The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you’ve submitted will be used. Unnecessary if no git repo is specified or the git repo is public.

docker_command string optional. The command to run on the container. Will be run via sh as: ["sh", "-c", dockerCommand]. Defaults to the Docker image’s ENTRY-POINT/CMD.

docker_image_tag string optional. The tag of the docker image to pull from DockerHub.

instance_type string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

cancel_timeout integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

time_zone string optional. The time zone of this script.

hidden boolean optional. The hidden status of the item.

target_project_id integer optional. Target project to which script outputs will be added.

Value

A list containing the following elements:

id integer, The ID for the script.

name string, The name of the container.

type string, The type of the script (e.g Container)

createdAt string, The time this script was created.

updatedAt string, The time the script was last updated.

author list, A list containing the following elements:

• id integer, The ID of this user.

• name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

**state** string, The status of the script’s last run.

**finishedAt** string, The time that the script’s last run finished.

**category** string, The category of the script.

**projects** array, An array containing the following fields:
  - id integer, The ID for the project.
  - name string, The name of the project.

**parentId** integer, The ID of the parent job that will trigger this script

**userContext** string, "runner" or "author", who to execute the script as when run as a template.

**params** array, An array containing the following fields:
  - name string, The variable’s name as used within your code.
  - label string, The label to present to users when asking them for the value.
  - description string, A short sentence or fragment describing this parameter to the end user.
  - type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - required boolean, Whether this param is required.
  - value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  - allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’

**arguments** list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

**isTemplate** boolean, Whether others scripts use this one as a template.

**templateDependentsCount** integer, How many other scripts use this one as a template.

**publishedAsTemplateId** integer, The ID of the template that this script is backing.

**fromTemplateId** integer, The ID of the template script.

**templateScriptName** string, The name of the template script.

**links** list, A list containing the following elements:
  - details string, The details link to get more information about the script.
  - runs string, The runs link to get the run information list for this script.
scripts_post_containers

**Schedule**
- list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

**Notifications**
- list, A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  - successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  - failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  - stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  - successOn boolean, If success email notifications are on.
  - failureOn boolean, If failure email notifications are on.

**Running As**
- list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.

**Required Resources**
- list, A list containing the following elements:
  - cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.
  - memory integer, The amount of RAM to allocate for the container (in MB).
  - diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

**repoHttpUri** string, The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.

**repoRef** string, The tag or branch of the github repo to clone into the container.
remoteHostCredentialId
    integer, The id of the database credentials to pass into the environment of the container.

gitCredentialId
    integer, The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you’ve submitted will be used. Unnecessary if no git repo is specified or the git repo is public.
dockerCommand
    string, The command to run on the container. Will be run via sh as: ["sh", ",-c", dockerCommand]. Defaults to the Docker image’s ENTRYPOINT/CMD.
dockerImageName
    string, The name of the docker image to pull from DockerHub.
dockerImageTag
    string, The tag of the docker image to pull from DockerHub.
dockerCommand
    string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
cancelTimeout
    integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
lastRun
    list, A list containing the following elements:
    • id integer,
    • state string,
    • createdAt string, The time that the run was queued.
    • startedAt string, The time that the run started.
    • finishedAt string, The time that the run completed.
    • error string, The error message for this run, if present.
timeZone
    string, The time zone of this script.
hidden
    boolean, The hidden status of the item.
archived
    string, The archival status of the requested item(s).
targetProjectId
    integer, Target project to which script outputs will be added.

---

scripts_post_containers_clone

Clone this Container Script

Description

Clone this Container Script

Usage

scripts_post_containers_clone(
    id,
    clone_schedule = NULL,
    clone_triggers = NULL,
    clone_notifications = NULL
)
Arguments

id integer required. The ID for the script.
clone_schedule boolean optional. If true, also copy the schedule to the new script.
clone_triggers boolean optional. If true, also copy the triggers to the new script.
clone_notifications boolean optional. If true, also copy the notifications to the new script.

Value

A list containing the following elements:

id integer, The ID for the script.
name string, The name of the container.
type string, The type of the script (e.g Container)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentId integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.
params array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
- allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import''

**arguments**
- list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

**isTemplate**
- boolean, Whether others scripts use this one as a template.

**templateDependentsCount**
- integer, How many other scripts use this one as a template.

**publishedAsTemplateId**
- integer, The ID of the template that this script is backing.

**fromTemplateId**
- integer, The ID of the template script.

**templateScriptName**
- string, The name of the template script.

**links**
- list, A list containing the following elements:
  - details string, The details link to get more information about the script.
  - runs string, The runs link to get the run information list for this script.

**schedule**
- list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

**notifications**
- list, A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  - successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  - failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  - stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  - successOn boolean, If success email notifications are on.
scripts_post_containers_clone

- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.

requiredResources list, A list containing the following elements:
  - cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.
  - memory integer, The amount of RAM to allocate for the container (in MB).
  - diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

repoHttpUri string, The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.

repoRef string, The tag or branch of the github repo to clone into the container.

remoteHostCredentialId integer, The id of the database credentials to pass into the environment of the container.

gitCredentialId integer, The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you’ve submitted will be used. Unnecessary if no git repo is specified or the git repo is public.

dockerCommand string, The command to run on the container. Will be run via sh as: ["sh", ",-c", dockerCommand]. Defaults to the Docker image’s ENTRYPOINT/CMD.

dockerImageName string, The name of the docker image to pull from DockerHub.

dockerImageTag string, The tag of the docker image to pull from DockerHub.

instanceType string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

lastRun list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.
scripts_post_containers_runs

Start a run

Description
Start a run

Usage
scripts_post_containers_runs(id)

Arguments
id integer required. The ID of the container.

Value
A list containing the following elements:

id integer, The ID of the run.
containerId integer, The ID of the container.
state string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested boolean, True if run cancel requested, else false.
startedAt string, The time the last run started at.
finishedAt string, The time the last run completed.
error string, The error, if any, returned by the run.
scripts_post_containers_runs_logs

*Add log messages*

**Description**

Add log messages

**Usage**

```python
scripts_post_containers_runs_logs(
    id,
    run_id,
    message = NULL,
    level = NULL,
    messages = NULL,
    child_job_id = NULL
)
```

**Arguments**

- **id** integer required. The ID of the script.
- **run_id** integer required. The ID of the script run.
- **message** string optional. The log message to store.
- **level** string optional. The log level of this message [default: info]
- **messages** array optional. An array containing the following fields:
  - message string. The log message to store.
  - level string. The log level of this message [default: info]
  - createdAt string. The timestamp of this message in ISO 8601 format. This is what logs are ordered by, so it is recommended to use timestamps with nanosecond precision. If absent, defaults to the time that the log was received by the API.
- **child_job_id** integer optional. The ID of the child job the message came from.

**Value**

An empty HTTP response
scripts_post_containers_runs_outputs

Add an output for a run

Description

Add an output for a run

Usage

scripts_post_containers_runs_outputs(id, run_id, object_type, object_id)

Arguments

id
integer required. The ID of the container script.

run_id
integer required. The ID of the run.

object_type
string required. The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue

object_id
integer required. The ID of the output.

Value

A list containing the following elements:

objectType
string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue

objectId
integer, The ID of the output.

name
string, The name of the output.

link
string, The hypermedia link to the output.

value
string,
Usage

```python
scripts_post_custom(
    from_template_id,
    name = NULL,
    parent_id = NULL,
    arguments = NULL,
    remote_host_id = NULL,
    credential_id = NULL,
    schedule = NULL,
    notifications = NULL,
    time_zone = NULL,
    hidden = NULL,
    target_project_id = NULL
)
```

Arguments

- **from_template_id**
  integer required. The ID of the template script.

- **name**
  string optional. The name of the script.

- **parent_id**
  integer optional. The ID of the parent job that will trigger this script

- **arguments**
  list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

- **remote_host_id**
  integer optional. The remote host ID that this script will connect to.

- **credential_id**
  integer optional. The credential that this script will use.

- **schedule**
  list optional. A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

- **notifications**
  list optional. A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  - successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

time_zone string optional. The time zone of this script.
hidden boolean optional. The hidden status of the item.
target_project_id integer optional. Target project to which script outputs will be added.

Value

A list containing the following elements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>The ID for the script.</td>
</tr>
<tr>
<td>name</td>
<td>string</td>
<td>The name of the script.</td>
</tr>
<tr>
<td>type</td>
<td>string</td>
<td>The type of the script (e.g. Custom)</td>
</tr>
<tr>
<td>createdAt</td>
<td>string</td>
<td>The time this script was created.</td>
</tr>
<tr>
<td>updatedAt</td>
<td>string</td>
<td>The time the script was last updated.</td>
</tr>
<tr>
<td>author</td>
<td>list</td>
<td>A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• id integer, The ID of this user.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• name string, This user’s name.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• username string, This user’s username.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• initials string, This user’s initials.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• online boolean, Whether this user is online.</td>
</tr>
<tr>
<td>state</td>
<td>string</td>
<td>The status of the script’s last run.</td>
</tr>
<tr>
<td>finishedAt</td>
<td>string</td>
<td>The time that the script’s last run finished.</td>
</tr>
<tr>
<td>category</td>
<td>string</td>
<td></td>
</tr>
<tr>
<td>projects</td>
<td>array</td>
<td>An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• id integer, The ID for the project.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• name string, The name of the project.</td>
</tr>
<tr>
<td>parentId</td>
<td>integer</td>
<td>The ID of the parent job that will trigger this script</td>
</tr>
<tr>
<td>params</td>
<td>array</td>
<td>An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• name string, The variable’s name as used within your code.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• label string, The label to present to users when asking them for the value.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• description string, A short sentence or fragment describing this parameter to the end user.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• required boolean, Whether this param is required.</td>
</tr>
</tbody>
</table>
• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import''

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template script.
uiReportUrl integer, The url of the custom HTML.
uiReportId integer, The id of the report with the custom HTML.
uiReportProvideAPIKey boolean, Whether the ui report requests an API Key from the report viewer.
templateScriptName string, The name of the template script.
templateNote string, The template’s note.
remoteHostId integer, The remote host ID that this script will connect to.
credentialId integer, The credential that this script will use.
codePreview string, The code that this script will run with arguments inserted.
schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
failureEmailAddresses array, Addresses to notify by e-mail when the job fails.

stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.

successOn boolean, If success email notifications are on.

failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:

• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:

• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

archived string, The archival status of the requested item(s).

targetProjectId integer, Target project to which script outputs will be added.

lastSuccessfulRun list, A list containing the following elements:

• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

---

Clone this Custom Script

Description

Clone this Custom Script
Usage

scripts_post_custom_clone(
    id,
    clone_schedule = NULL,
    clone_triggers = NULL,
    clone_notifications = NULL
)

Arguments

id integer required. The ID for the script.
clone_schedule boolean optional. If true, also copy the schedule to the new script.
clone_triggers boolean optional. If true, also copy the triggers to the new script.
clone_notifications boolean optional. If true, also copy the notifications to the new script.

Value

A list containing the following elements:

id integer, The ID for the script.
name string, The name of the script.
type string, The type of the script (e.g Custom)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
    • id integer, The ID of this user.
    • name string, This user’s name.
    • username string, This user’s username.
    • initials string, This user’s initials.
    • online boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string,
projects array, An array containing the following fields:
    • id integer, The ID for the project.
    • name string, The name of the project.
parentId integer, The ID of the parent job that will trigger this script
params array, An array containing the following fields:
    • name string, The variable’s name as used within your code.
    • label string, The label to present to users when asking them for the value.
    • description string, A short sentence or fragment describing this parameter to the end user.
• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
• required boolean, Whether this param is required.
• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ’Import’, ‘value’: ‘import’’

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template script.
iReportUrl integer, The url of the custom HTML.
iReportId integer, The id of the report with the custom HTML.
iReportProvideAPIKey boolean, Whether the ui report requests an API Key from the report viewer.
templateScriptName string, The name of the template script.
templateNote string, The template’s note.
remoteHostId integer, The remote host ID that this script will connect to.
credentialId integer, The credential that this script will use.

codePreview string, The code that this script will run with arguments inserted.
schedule list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

archived string, The archival status of the requested item(s).

targetProjectId integer, Target project to which script outputs will be added.

lastSuccessfulRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.
**scripts_post_custom_runs**

*Start a run*

**Description**

Start a run

**Usage**

`scripts_post_custom_runs(id)`

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the custom.</td>
</tr>
</tbody>
</table>

**Value**

A list containing the following elements:

- id: integer, The ID of the run.
- customId: integer, The ID of the custom.
- state: string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- isCancelRequested: boolean, True if run cancel requested, else false.
- startedAt: string, The time the last run started at.
- finishedAt: string, The time the last run completed.
- error: string, The error, if any, returned by the run.

---

**scripts_post_custom_runs_outputs**

*Add an output for a run*

**Description**

Add an output for a run

**Usage**

`scripts_post_custom_runs_outputs(id, run_id, object_type, object_id)`
Arguments

- id (integer required) The ID of the custom script.
- run_id (integer required) The ID of the run.
- object_type (string required) The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- object_id (integer required) The ID of the output.

Value

A list containing the following elements:

- objectType (string) The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- objectId (integer) The ID of the output.
- name (string) The name of the output.
- link (string) The hypermedia link to the output.
- value (string)

---

scripts_post_javascript

Create a JavaScript Script

Description

Create a JavaScript Script

Usage

```
scripts_post_javascript(
    name,
    source,
    remote_host_id,
    credential_id,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    next_run_at = NULL,
    time_zone = NULL,
    hidden = NULL,
    target_project_id = NULL
)```
**Arguments**

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>string required. The name of the script.</td>
</tr>
<tr>
<td>source</td>
<td>string required. The body/text of the script.</td>
</tr>
<tr>
<td>remote_host_id</td>
<td>integer required. The remote host ID that this script will connect to.</td>
</tr>
<tr>
<td>credential_id</td>
<td>integer required. The credential that this script will use.</td>
</tr>
<tr>
<td>parent_id</td>
<td>integer optional. The ID of the parent job that will trigger this script</td>
</tr>
<tr>
<td>user_context</td>
<td>string optional. &quot;runner&quot; or &quot;author&quot;, who to execute the script as when run as a template.</td>
</tr>
<tr>
<td>params</td>
<td>array optional. An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>• name string. The variable’s name as used within your code.</td>
</tr>
<tr>
<td></td>
<td>• label string. The label to present to users when asking them for the value.</td>
</tr>
<tr>
<td></td>
<td>• description string. A short sentence or fragment describing this parameter to the end user.</td>
</tr>
<tr>
<td></td>
<td>• type string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</td>
</tr>
<tr>
<td></td>
<td>• required boolean. Whether this param is required.</td>
</tr>
<tr>
<td></td>
<td>• value string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.</td>
</tr>
<tr>
<td></td>
<td>• default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.</td>
</tr>
<tr>
<td></td>
<td>• allowedValues array. The possible values this parameter can take, effective making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import’, ‘value’: 'import'</td>
</tr>
<tr>
<td>arguments</td>
<td>list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.</td>
</tr>
<tr>
<td>schedule</td>
<td>list optional. A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• scheduled boolean. If the item is scheduled.</td>
</tr>
<tr>
<td></td>
<td>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</td>
</tr>
<tr>
<td></td>
<td>• scheduledHours array, Hours of the day it is scheduled on.</td>
</tr>
<tr>
<td></td>
<td>• scheduledMinutes array, Minutes of the day it is scheduled on.</td>
</tr>
<tr>
<td></td>
<td>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</td>
</tr>
<tr>
<td>notifications</td>
<td>list optional. A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• urls array, URLs to receive a POST request at job completion</td>
</tr>
<tr>
<td></td>
<td>• successEmailSubject string, Custom subject line for success e-mail.</td>
</tr>
<tr>
<td></td>
<td>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</td>
</tr>
<tr>
<td></td>
<td>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</td>
</tr>
</tbody>
</table>
scripts_post_javascript

- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

next_run_at string optional. The time of the next scheduled run.
time_zone string optional. The time zone of this script.
hidden boolean optional. The hidden status of the item.
target_project_id integer optional. Target project to which script outputs will be added.

Value

A list containing the following elements:

- id integer, The ID for the script.
- name string, The name of the script.
- type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
- createdAt string, The time this script was created.
- updatedAt string, The time the script was last updated.
- author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- state string, The status of the script’s last run.
- finishedAt string, The time that the script’s last run finished.
- category string, The category of the script.
- projects array, An array containing the following fields:
  - id integer, The ID for the project.
  - name string, The name of the project.
- parentId integer, The ID of the parent job that will trigger this script
- userContext string, "runner" or "author", who to execute the script as when run as a template.
- params array, An array containing the following fields:
  - name string, The variable’s name as used within your code.
  - label string, The label to present to users when asking them for the value.
• description string, A short sentence or fragment describing this parameter to the end user.
• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
• required boolean, Whether this param is required.
• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import'

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.

links list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
- id integer,
- state string,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.

archived string, The archival status of the requested item(s).

source string, The body/text of the script.

remoteHostId integer, The remote host ID that this script will connect to.

credentialId integer, The credential that this script will use.

---

**scripts_post_javascript_clone**

Clone this JavaScript Script

**Description**

Clone this JavaScript Script
Usage

```javascript
scripts_post_javascript_clone(
    id,
    clone_schedule = NULL,
    clone_triggers = NULL,
    clone_notifications = NULL
)
```

Arguments

- **id** integer required. The ID for the script.
- **clone_schedule** boolean optional. If true, also copy the schedule to the new script.
- **clone_triggers** boolean optional. If true, also copy the triggers to the new script.
- **clone_notifications** boolean optional. If true, also copy the notifications to the new script.

Value

A list containing the following elements:

- **id** integer, The ID for the script.
- **name** string, The name of the script.
- **type** string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
- **createdAt** string, The time this script was created.
- **updatedAt** string, The time the script was last updated.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **state** string, The status of the script’s last run.
- **finishedAt** string, The time that the script’s last run finished.
- **category** string, The category of the script.
- **projects** array, An array containing the following fields:
  - **id** integer, The ID for the project.
  - **name** string, The name of the project.
- **parentId** integer, The ID of the parent job that will trigger this script
- **userContext** string, "runner" or "author", who to execute the script as when run as a template.
- **params** array, An array containing the following fields:
  - **name** string, The variable’s name as used within your code.
  - **label** string, The label to present to users when asking them for the value.
• description string, A short sentence or fragment describing this parameter to the end user.
• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
• required boolean, Whether this param is required.
• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’‘

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.

links list, A list containing the following elements:
• details string, The details link to get more information about the script.
• runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
scripts_post_javascript_git_commits

Commit and push a new version of the file

Description

Commit and push a new version of the file
Usage

scripts_post_javascript_git_commits(id, content, message, file_hash)

Arguments

id integer required. The ID of the file.
content string required. The contents to commit to the file.
message string required. A commit message describing the changes being made.
file_hash string required. The full SHA of the file being replaced.

Value

A list containing the following elements:

content string, The file’s contents.
type string, The file’s type.
size integer, The file’s size.
fileHash string, The SHA of the file.

Usage

scripts_post_javascript_runs(id)

Arguments

id integer required. The ID of the javascript.

Value

A list containing the following elements:

id integer, The ID of the run.
javascriptId integer, The ID of the javascript.
state string, The state of the run, one of ‘queued’ ‘running’ ‘succeeded’ ‘failed’ or ‘cancelled’.
isCancelRequested boolean, True if run cancel requested, else false.
startedAt string, The time the last run started at.
finishedAt string, The time the last run completed.
error string, The error, if any, returned by the run.
scripts_post_javascript_runs_outputs

*Add an output for a run*

**Description**

Add an output for a run

**Usage**

```python
scripts_post_javascript_runs_outputs(id, run_id, object_type, object_id)
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the javascript script.</td>
</tr>
<tr>
<td>run_id</td>
<td>integer required. The ID of the run.</td>
</tr>
<tr>
<td>object_type</td>
<td>string required. The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue</td>
</tr>
<tr>
<td>object_id</td>
<td>integer required. The ID of the output.</td>
</tr>
</tbody>
</table>

**Value**

A list containing the following elements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>objectType</td>
<td>string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue</td>
</tr>
<tr>
<td>objectId</td>
<td>integer, The ID of the output.</td>
</tr>
<tr>
<td>name</td>
<td>string, The name of the output.</td>
</tr>
<tr>
<td>link</td>
<td>string, The hypermedia link to the output.</td>
</tr>
<tr>
<td>value</td>
<td>string,</td>
</tr>
</tbody>
</table>

---

**scripts_post_python3**  

*Create a Python Script*

**Description**

Create a Python Script
Usage

```python
scripts_post_python3(
    name,
    source,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    next_run_at = NULL,
    time_zone = NULL,
    hidden = NULL,
    target_project_id = NULL,
    required_resources = NULL,
    instance_type = NULL,
    cancel_timeout = NULL,
    docker_image_tag = NULL
)
```

Arguments

- **name** string required. The name of the script.
- **source** string required. The body/text of the script.
- **parent_id** integer optional. The ID of the parent job that will trigger this script.
- **user_context** string optional. "runner" or "author", who to execute the script as when run as a template.
- **params** array optional. An array containing the following fields:
  - **name** string. The variable’s name as used within your code.
  - **label** string. The label to present to users when asking them for the value.
  - **description** string. A short sentence or fragment describing this parameter to the end user.
  - **type** string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - **required** boolean. Whether this param is required.
  - **value** string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - **default** string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  - **allowedValues** array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ’Import’, ‘value’: ’import’
arguments

list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

schedule

list optional. A list containing the following elements:

- scheduled boolean. If the item is scheduled.
- scheduledDays array. Day based on numeric value starting at 0 for Sunday.
- scheduledHours array. Hours of the day it is scheduled on.
- scheduledMinutes array. Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer. Alternative to scheduled minutes, number of times to run per hour.

notifications

list optional. A list containing the following elements:

- urls array. URLs to receive a POST request at job completion
- successEmailSubject string. Custom subject line for success e-mail.
- successEmailBody string. Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array. Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string. Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string. Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array. Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer. Stall warning emails will be sent after this amount of minutes.
- successOn boolean. If success email notifications are on.
- failureOn boolean. If failure email notifications are on.

next_run_at

string optional. The time of the next scheduled run.

time_zone

string optional. The time zone of this script.

hidden

boolean optional. The hidden status of the item.

target_project_id

integer optional. Target project to which script outputs will be added.

required_resources

list optional. A list containing the following elements:

- cpu integer. The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
- memory integer. The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
- diskSpace number. The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instance_type

string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
cancel_timeout integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

docker_image_tag string optional. The tag of the docker image to pull from DockerHub.

Value

A list containing the following elements:

id integer, The ID for the script.
name string, The name of the script.
type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user's username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentId integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.
params array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import''

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.

templateDependentsCount integer, How many other scripts use this one as a template.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:
- details string, The details link to get more information about the script.
- runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.

archived string, The archival status of the requested item(s).

requiredResources list, A list containing the following elements:
• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
• memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instanceType string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

source string, The body/text of the script.

cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

dockerImageTag string, The tag of the docker image to pull from DockerHub.
scripts_post_python3_clone

*Clone this Python Script*

**Description**

Clone this Python Script

**Usage**

```python
scripts_post_python3_clone(
    id,
    clone_schedule = NULL,
    clone_triggers = NULL,
    clone_notifications = NULL
)
```

**Arguments**

- **id**
  - integer required. The ID for the script.
- **clone_schedule**
  - boolean optional. If true, also copy the schedule to the new script.
- **clone_triggers**
  - boolean optional. If true, also copy the triggers to the new script.
- **clone_notifications**
  - boolean optional. If true, also copy the notifications to the new script.

**Value**

A list containing the following elements:

- **id**
  - integer, The ID for the script.
- **name**
  - string, The name of the script.
- **type**
  - string, The type of the script (e.g SQL, Container, Python, R, JavaScript).
- **created_at**
  - string, The time this script was created.
- **updated_at**
  - string, The time the script was last updated.
- **author**
  - list, A list containing the following elements:
    - **id**
      - integer, The ID of this user.
    - **name**
      - string, This user’s name.
    - **username**
      - string, This user’s username.
    - **initials**
      - string, This user’s initials.
    - **online**
      - boolean, Whether this user is online.
- **state**
  - string, The status of the script’s last run.
- **finished_at**
  - string, The time that the script’s last run finished.
- **category**
  - string, The category of the script.
projects array, An array containing the following fields:
- id integer, The ID for the project.
- name string, The name of the project.

parentId integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.
params array, An array containing the following fields:
- name string, The variable's name as used within your code.
- label string, The label to present to users when asking them for the value.
- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.

links list, A list containing the following elements:
- details string, The details link to get more information about the script.
- runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
notifications list, A list containing the following elements:

- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:

- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:

- id integer,
- state string,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.

archived string, The archival status of the requested item(s).

requiredResources list, A list containing the following elements:

- cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
- memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
scripts_post_python3_git_commits

Commit and push a new version of the file

Description

Commit and push a new version of the file

Usage

scripts_post_python3_git_commits(id, content, message, file_hash)

Arguments

id

integer required. The ID of the file.

content

string required. The contents to commit to the file.

message

string required. A commit message describing the changes being made.

file_hash

string required. The full SHA of the file being replaced.

Value

A list containing the following elements:

content

string, The file’s contents.

type

string, The file’s type.

size

integer, The file’s size.

fileHash

string, The SHA of the file.
scripts_post_python3_runs

*Start a run*

**Description**

Start a run

**Usage**

```python
scripts_post_python3_runs(id)
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the python.</td>
</tr>
</tbody>
</table>

**Value**

A list containing the following elements:

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer. The ID of the run.</td>
</tr>
<tr>
<td>pythonId</td>
<td>integer. The ID of the python.</td>
</tr>
<tr>
<td>state</td>
<td>string. The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.</td>
</tr>
<tr>
<td>isCancelRequested</td>
<td>boolean. True if run cancel requested, else false.</td>
</tr>
<tr>
<td>startedAt</td>
<td>string. The time the last run started at.</td>
</tr>
<tr>
<td>finishedAt</td>
<td>string. The time the last run completed.</td>
</tr>
<tr>
<td>error</td>
<td>string. The error, if any, returned by the run.</td>
</tr>
</tbody>
</table>

---

scripts_post_python3_runs_outputs

*Add an output for a run*

**Description**

Add an output for a run

**Usage**

```python
scripts_post_python3_runs_outputs(id, run_id, object_type, object_id)
```
Arguments

- **id**: integer required. The ID of the python script.
- **run_id**: integer required. The ID of the run.
- **object_type**: string required. The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue.
- **object_id**: integer required. The ID of the output.

Value

A list containing the following elements:

- **objectType**: string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue.
- **objectId**: integer, The ID of the output.
- **name**: string, The name of the output.
- **link**: string, The hypermedia link to the output.
- **value**: string,

---

**scripts_post_r**  
*Create an R Script*

Description

Create an R Script

Usage

```r
scripts_post_r(
  name,
  source,
  parent_id = NULL,
  user_context = NULL,
  params = NULL,
  arguments = NULL,
  schedule = NULL,
  notifications = NULL,
  next_run_at = NULL,
  time_zone = NULL,
  hidden = NULL,
  target_project_id = NULL,
  required_resources = NULL,
  instance_type = NULL,
  cancel_timeout = NULL,
  docker_image_tag = NULL
)
```
## Arguments

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>string required. The name of the script.</td>
</tr>
<tr>
<td>source</td>
<td>string required. The body/text of the script.</td>
</tr>
<tr>
<td>parent_id</td>
<td>integer optional. The ID of the parent job that will trigger this script.</td>
</tr>
<tr>
<td>user_context</td>
<td>string optional. &quot;runner&quot; or &quot;author&quot;, who to execute the script as when run as a template.</td>
</tr>
<tr>
<td>params</td>
<td>array optional. An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>• name string. The variable’s name as used within your code.</td>
</tr>
<tr>
<td></td>
<td>• label string. The label to present to users when asking them for the value.</td>
</tr>
<tr>
<td></td>
<td>• description string. A short sentence or fragment describing this parameter to the end user.</td>
</tr>
<tr>
<td></td>
<td>• type string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</td>
</tr>
<tr>
<td></td>
<td>• required boolean. Whether this param is required.</td>
</tr>
<tr>
<td></td>
<td>• value string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.</td>
</tr>
<tr>
<td></td>
<td>• default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.</td>
</tr>
<tr>
<td></td>
<td>• allowedValues array. The possible values this parameter can take, effective making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import''</td>
</tr>
<tr>
<td>arguments</td>
<td>list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.</td>
</tr>
<tr>
<td>schedule</td>
<td>list optional. A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• scheduled boolean. If the item is scheduled.</td>
</tr>
<tr>
<td></td>
<td>• scheduledDays array. Day based on numeric value starting at 0 for Sunday.</td>
</tr>
<tr>
<td></td>
<td>• scheduledHours array. Hours of the day it is scheduled on.</td>
</tr>
<tr>
<td></td>
<td>• scheduledMinutes array. Minutes of the day it is scheduled on.</td>
</tr>
<tr>
<td></td>
<td>• scheduledRunsPerHour integer. Alternative to scheduled minutes, number of times to run per hour.</td>
</tr>
<tr>
<td>notifications</td>
<td>list optional. A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• urls array, URLs to receive a POST request at job completion</td>
</tr>
<tr>
<td></td>
<td>• successEmailSubject string. Custom subject line for success e-mail.</td>
</tr>
<tr>
<td></td>
<td>• successEmailBody string. Custom body text for success e-mail, written in Markdown.</td>
</tr>
<tr>
<td></td>
<td>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</td>
</tr>
<tr>
<td></td>
<td>• successEmailFromName string, Name from which success emails are sent; defaults to &quot;Civis.&quot;</td>
</tr>
</tbody>
</table>
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

next_run_at string optional. The time of the next scheduled run.
time_zone string optional. The time zone of this script.
hidden boolean optional. The hidden status of the item.
target_project_id integer optional. Target project to which script outputs will be added.

required_resources list optional. A list containing the following elements:
- cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
- memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
- diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instance_type string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
cancel_timeout integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
docker_image_tag string optional. The tag of the docker image to pull from DockerHub.

Value

A list containing the following elements:

id integer, The ID for the script.
nname string, The name of the script.
type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentId integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.
params array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  • allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label’: ‘Import’, ‘value’: ‘import’

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.
links list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.
schedule list, A list containing the following elements:

- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:

- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to “Civis.”
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:

- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:

- id integer,
- state string,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.
scripts_post_run

<table>
<thead>
<tr>
<th>archived</th>
<th>string, The archival status of the requested item(s).</th>
</tr>
</thead>
<tbody>
<tr>
<td>requiredResources</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.</td>
</tr>
<tr>
<td></td>
<td>• memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.</td>
</tr>
<tr>
<td></td>
<td>• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.</td>
</tr>
<tr>
<td>instanceType</td>
<td>string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.</td>
</tr>
<tr>
<td>source</td>
<td>string, The body/text of the script.</td>
</tr>
<tr>
<td>cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.</td>
<td></td>
</tr>
<tr>
<td>dockerImageTag</td>
<td>string, The tag of the docker image to pull from DockerHub.</td>
</tr>
</tbody>
</table>

---

**scripts_post_run**  
*Run a script*

**Description**

Run a script

**Usage**

scripts_post_run(id)

**Arguments**

id integer required. The ID for the script.

**Value**

An empty HTTP response
Description

Clone this R Script

Usage

scripts_post_r_clone(
  id,
  clone_schedule = NULL,
  clone_triggers = NULL,
  clone_notifications = NULL
)

Arguments

id integer required. The ID for the script.
clone_schedule boolean optional. If true, also copy the schedule to the new script.
clone_triggers boolean optional. If true, also copy the triggers to the new script.
clone_notifications boolean optional. If true, also copy the notifications to the new script.

Value

A list containing the following elements:

id integer, The ID for the script.
name string, The name of the script.
type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
- id integer, The ID for the project.
- name string, The name of the project.

parentId integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.

params array, An array containing the following fields:
- name string, The variable’s name as used within your code.
- label string, The label to present to users when asking them for the value.
- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.

links list, A list containing the following elements:
- details string, The details link to get more information about the script.
- runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
notifications list, A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
- id integer,
- state string,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
targetProjectId integer, Target project to which script outputs will be added.

archived string, The archival status of the requested item(s).

requiredResources list, A list containing the following elements:
- cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
- memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
scripts_post_r_git_commits

Commit and push a new version of the file

Description

Commit and push a new version of the file

Usage

scripts_post_r_git_commits(id, content, message, file_hash)

Arguments

- id: integer required. The ID of the file.
- content: string required. The contents to commit to the file.
- message: string required. A commit message describing the changes being made.
- file_hash: string required. The full SHA of the file being replaced.

Value

A list containing the following elements:

- content: string, The file’s contents.
- type: string, The file’s type.
- size: integer, The file’s size.
scripts_post_r_runs  Start a run

Description
Start a run

Usage
scripts_post_r_runs(id)

Arguments

id  integer required. The ID of the r.

Value
A list containing the following elements:

id  integer, The ID of the run.
rId  integer, The ID of the r.
state  string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested  boolean, True if run cancel requested, else false.
startedAt  string, The time the last run started at.
finishedAt  string, The time the last run completed.
error  string, The error, if any, returned by the run.

scripts_post_r_runs_outputs  Add an output for a run

Description
Add an output for a run

Usage
scripts_post_r_runs_outputs(id, run_id, object_type, object_id)
**scripts_post_sql**

Create a SQL script

**Arguments**

- **id** integer required. The ID of the r script.
- **run_id** integer required. The ID of the run.
- **object_type** string required. The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- **object_id** integer required. The ID of the output.

**Value**

A list containing the following elements:

- **objectType** string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- **objectId** integer, The ID of the output.
- **name** string, The name of the output.
- **link** string, The hypermedia link to the output.
- **value** string,

**Description**

Create a SQL script

**Usage**

```r
scripts_post_sql(
  name,
  sql,
  remote_host_id,
  credential_id,
  parent_id = NULL,
  user_context = NULL,
  params = NULL,
  arguments = NULL,
  schedule = NULL,
  notifications = NULL,
  next_run_at = NULL,
  time_zone = NULL,
  hidden = NULL,
  target_project_id = NULL,
  csv_settings = NULL
)
```
**Arguments**

- **name** string required. The name of the script.
- **sql** string required. The raw SQL query for the script.
- **remote_host_id** integer required. The remote host ID that this script will connect to.
- **credential_id** integer required. The credential that this script will use.
- **parent_id** integer optional. The ID of the parent job that will trigger this script.
- **user_context** string optional. "runner" or "author", who to execute the script as when run as a template.
- **params** array optional. An array containing the following fields:
  - **name** string. The variable’s name as used within your code.
  - **label** string. The label to present to users when asking them for the value.
  - **description** string. A short sentence or fragment describing this parameter to the end user.
  - **type** string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - **required** boolean. Whether this param is required.
  - **value** string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - **default** string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  - **allowedValues** array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label’, ‘value’

- **arguments** list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

- **schedule** list optional. A list containing the following elements:
  - **scheduled** boolean. If the item is scheduled.
  - **scheduledDays** array. Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours** array. Hours of the day it is scheduled on.
  - **scheduledMinutes** array. Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour** integer. Alternative to scheduled minutes, number of times to run per hour.

- **notifications** list optional. A list containing the following elements:
  - **urls** array. URLs to receive a POST request at job completion.
  - **successEmailSubject** string. Custom subject line for success e-mail.
  - **successEmailBody** string. Custom body text for success e-mail, written in Markdown.
  - **successEmailAddresses** array. Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

next_run_at string optional. The time of the next scheduled run.
time_zone string optional. The time zone of this script.
hidden boolean optional. The hidden status of the item.
target_project_id integer optional. Target project to which script outputs will be added.
csv_settings list optional. A list containing the following elements:
  • includeHeader boolean, Whether or not to include headers in the output data. Default: true
  • compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip
  • columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma
  • unquoted boolean, Whether or not to quote fields. Default: false
  • forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false
  • filenamePrefix string, A user specified filename prefix for the output file to have. Default: null
  • maxFileSize integer, The max file size, in MB, created files will be. Only available when force_multifile is true.

Value

A list containing the following elements:

id integer, The ID for the script.
name string, The name of the script.
type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
• initials string, This user's initials.
• online boolean, Whether this user is online.

state string, The status of the script's last run.
finishedAt string, The time that the script's last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentId integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.
params array, An array containing the following fields:
  • name string, The variable's name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
  • allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'
arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.
links list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.
schedule list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user's name.
  • username string, This user's username.
  • initials string, This user's initials.
  • online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this script.
lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
targetProjectId integer, Target project to which script outputs will be added.
archived string, The archival status of the requested item(s).
sql string, The raw SQL query for the script.
expandedArguments list, Expanded arguments for use in injecting into different environments.
remoteHostId integer, The remote host ID that this script will connect to.
credentialId integer, The credential that this script will use.
codePreview string, The code that this script will run with arguments inserted.
csvSettings list, A list containing the following elements:
  • includeHeader boolean, Whether or not to include headers in the output data. Default: true
  • compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip
  • columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma
  • unquoted boolean, Whether or not to quote fields. Default: false
  • forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false
  • filenamePrefix string, A user specified filename prefix for the output file to have. Default: null
  • maxFileSize integer, The max file size, in MB, created files will be. Only available when force_multifile is true.

---

**scripts_post_sql_clone**

*Clone this SQL script*

---

**Description**

Clone this SQL script

**Usage**

```python
scripts_post_sql_clone(
    id,
    clone_schedule = NULL,
    clone_triggers = NULL,
    clone_notifications = NULL
)
```

**Arguments**

- **id** integer required. The ID for the script.
- **clone_schedule** boolean optional. If true, also copy the schedule to the new script.
- **clone_triggers** boolean optional. If true, also copy the triggers to the new script.
- **clone_notifications** boolean optional. If true, also copy the notifications to the new script.
Value

A list containing the following elements:

- id: integer, The ID for the script.
- name: string, The name of the script.
- type: string, The type of the script (e.g. SQL, Container, Python, R, JavaScript)
- createdAt: string, The time this script was created.
- updatedAt: string, The time the script was last updated.
- author: list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- state: string, The status of the script’s last run.
- finishedAt: string, The time that the script’s last run finished.
- category: string, The category of the script.
- projects: array, An array containing the following fields:
  - id integer, The ID for the project.
  - name string, The name of the project.
- parentId: integer, The ID of the parent job that will trigger this script.
- userContext: string, "runner" or "author", who to execute the script as when run as a template.
- params: array, An array containing the following fields:
  - name string, The variable’s name as used within your code.
  - label string, The label to present to users when asking them for the value.
  - description string, A short sentence or fragment describing this parameter to the end user.
  - type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - required boolean, Whether this param is required.
  - value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  - allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ’Import’, ‘value’: ’import’
- arguments: list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate boolean, Whether others scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.

templateDependentsCount integer, How many other scripts use this one as a template.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
scripts_post_sql_git_commits

Commit and push a new version of the file

Description

Commit and push a new version of the file
Usage

```python
scripts_post_sql_git_commits(id, content, message, file_hash)
```

Arguments

- **id**: integer required. The ID of the file.
- **content**: string required. The contents to commit to the file.
- **message**: string required. A commit message describing the changes being made.
- **file_hash**: string required. The full SHA of the file being replaced.

Value

A list containing the following elements:

- **content**: string, The file’s contents.
- **type**: string, The file’s type.
- **size**: integer, The file’s size.
- **fileHash**: string, The SHA of the file.

---

**scripts_post_sql_runs**  
*Start a run*

---

Description

Start a run

Usage

```python
scripts_post_sql_runs(id)
```

Arguments

- **id**: integer required. The ID of the sql.

Value

A list containing the following elements:

- **id**: integer, The ID of this run.
- **sqlId**: integer, The ID of this sql.
- **state**: string, The state of this run.
- **isCancelRequested**: boolean, True if run cancel requested, else false.
- **startedAt**: string, The time the last run started.
- **finishedAt**: string, The time that this run finished.
error string, The error message for this run, if present.
output array, An array containing the following fields:
  • outputName string, The name of the output file.
  • fileId integer, The unique ID of the output file.
  • path string, The temporary link to download this output file, valid for 36 hours.

---

**scripts_put_containers**

*Edit a container*

---

**Description**

Edit a container

**Usage**

```python
scripts_put_containers(
    id,
    required_resources,
    docker_image_name,
    name = NULL,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    repo_http_uri = NULL,
    repo_ref = NULL,
    remote_host_credential_id = NULL,
    git_credential_id = NULL,
    docker_command = NULL,
    docker_image_tag = NULL,
    instance_type = NULL,
    cancel_timeout = NULL,
    time_zone = NULL,
    target_project_id = NULL
)
```

**Arguments**

- **id** integer required. The ID for the script.
- **required_resources** list required. A list containing the following elements:
• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.
• memory integer, The amount of RAM to allocate for the container (in MB).
• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.
• wholeInstance boolean, Whether or not to use the entire instance. If true, cpu, memory, and disk space are not required and will be set to an instance's max.

docker_image_name
string required. The name of the docker image to pull from DockerHub.

name
string optional. The name of the container.

parent_id
integer optional. The ID of the parent job that will trigger this script

user_context
string optional. "runner" or "author", who to execute the script as when run as a template.

params
array optional. An array containing the following fields:
• name string, The variable’s name as used within your code.
• label string, The label to present to users when asking them for the value.
• description string, A short sentence or fragment describing this parameter to the end user.
• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
• required boolean, Whether this param is required.
• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’

arguments
list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

schedule
list optional. A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications
list optional. A list containing the following elements:
- `urls` array, URLs to receive a POST request at job completion
- `successEmailSubject` string, Custom subject line for success e-mail.
- `successEmailBody` string, Custom body text for success e-mail, written in Markdown.
- `successEmailAddresses` array, Addresses to notify by e-mail when the job completes successfully.
- `successEmailFromName` string, Name from which success emails are sent; defaults to "Civis."
- `successEmailReplyTo` string, Address for replies to success emails; defaults to the author of the job.
- `failureEmailAddresses` array, Addresses to notify by e-mail when the job fails.
- `stallWarningMinutes` integer, Stall warning emails will be sent after this amount of minutes.
- `successOn` boolean, If success email notifications are on.
- `failureOn` boolean, If failure email notifications are on.

`repo_http_uri` string optional. The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.

`repo_ref` string optional. The tag or branch of the github repo to clone into the container.

`remote_host_credential_id` integer optional. The id of the database credentials to pass into the environment of the container.

`git_credential_id` integer optional. The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you’ve submitted will be used. Unnecessary if no git repo is specified or the git repo is public.

`docker_command` string optional. The command to run on the container. Will be run via sh as: ["sh", ".c", dockerCommand]. Defaults to the Docker image’s ENTRY-POINT/CMD.

`docker_image_tag` string optional. The tag of the docker image to pull from DockerHub.

`instance_type` string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

`cancel_timeout` integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

`time_zone` string optional. The time zone of this script.

`target_project_id` integer optional. Target project to which script outputs will be added.

**Value**

A list containing the following elements:

- `id` integer, The ID for the script.
### Field Descriptions

- **name**: string, The name of the container.
- **type**: string, The type of the script (e.g., Container).
- **createdAt**: string, The time this script was created.
- **updatedAt**: string, The time the script was last updated.
- **author**: list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- **state**: string, The status of the script’s last run.
- **finishedAt**: string, The time that the script’s last run finished.
- **category**: string, The category of the script.
- **projects**: array, An array containing the following fields:
  - id integer, The ID for the project.
  - name string, The name of the project.
- **parentId**: integer, The ID of the parent job that will trigger this script.
- **userContext**: string, "runner" or "author", who to execute the script as when run as a template.
- **params**: array, An array containing the following fields:
  - name string, The variable’s name as used within your code.
  - label string, The label to present to users when asking them for the value.
  - description string, A short sentence or fragment describing this parameter to the end user.
  - type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - required boolean, Whether this param is required.
  - value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  - allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ’Import’, ‘value’: ’import’
- **arguments**: list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
- **isTemplate**: boolean, Whether others scripts use this one as a template.
- **templateDependentsCount**: integer, How many other scripts use this one as a template.
scripts_put_containers

publishedAsTemplateId
type: integer, The ID of the template that this script is backing.

fromTemplateId
type: integer, The ID of the template script.

templateScriptName
type: string, The name of the template script.

links
type: list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.

schedule
type: list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications
type: list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

runningAs
type: list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

requiredResources
type: list, A list containing the following elements:
  • cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.
• memory integer, The amount of RAM to allocate for the container (in MB).
• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

repoHttpUri string, The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.
repoRef string, The tag or branch of the github repo to clone into the container.
remoteHostCredentialId integer, The id of the database credentials to pass into the environment of the container.

gitCredentialId integer, The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you’ve submitted will be used. Unnecessary if no git repo is specified or the git repo is public.
dockerCommand string, The command to run on the container. Will be run via sh as: ["sh", "-c", dockerCommand]. Defaults to the Docker image’s ENTRYPOINT/CMD.
dockerImageName string, The name of the docker image to pull from DockerHub.
dockerImageTag string, The tag of the docker image to pull from DockerHub.
instanceType string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.
timeZone string, The time zone of this script.

hidden boolean, The hidden status of the item.
archived string, The archival status of the requested item(s).
targetProjectId integer, Target project to which script outputs will be added.
scripts_put_containers_archive

Update the archive status of this object

Description
Update the archive status of this object

Usage
scripts_put_containers_archive(id, status)

Arguments
id integer required. The ID of the object.
status boolean required. The desired archived status of the object.

Value
A list containing the following elements:

id integer, The ID for the script.
name string, The name of the container.
type string, The type of the script (e.g Container)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentId integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.
params array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
• label string, The label to present to users when asking them for the value.
• description string, A short sentence or fragment describing this parameter to the end user.
• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
• required boolean, Whether this param is required.
• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label': 'Import', 'value': 'import'

| arguments | list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters. |
| isTemplate | boolean, Whether others scripts use this one as a template. |
| templateDependentsCount | integer, How many other scripts use this one as a template. |
| publishedAsTemplateId | integer, The ID of the template that this script is backing. |
| fromTemplateId | integer, The ID of the template script. |
| templateScriptName | string, The name of the template script. |
| links | list, A list containing the following elements: |
| schedule | list, A list containing the following elements: |
| notifications | list, A list containing the following elements: |
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs
list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

requiredResources
list, A list containing the following elements:
• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.
• memory integer, The amount of RAM to allocate for the container (in MB).
• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.
• repoHttpUri string, The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.
• repoRef string, The tag or branch of the github repo to clone into the container.
• remoteHostCredentialId integer, The id of the database credentials to pass into the environment of the container.
• gitCredentialId integer, The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you’ve submitted will be used. Unnecessary if no git repo is specified or the git repo is public.
• dockerCommand string, The command to run on the container. Will be run via sh as: ["sh", "-c", dockerCommand]. Defaults to the Docker image’s ENTRYPOINT/CMD.
• dockerImageName string, The name of the docker image to pull from DockerHub.
• dockerImageTag string, The tag of the docker image to pull from DockerHub.
• instanceType string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
• cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
scripts_put_containers_projects

Add a Container Script to a project

Description

Add a Container Script to a project

Usage

scripts_put_containers_projects(id, project_id)

Arguments

id integer required. The ID of the Container Script.

project_id integer required. The ID of the project.

Value

An empty HTTP response
scripts_put_containers_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

scripts_put_containers_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)

Arguments

id       integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers list, A list containing the following elements:
    • users array,
    • groups array,

writers list, A list containing the following elements:
    • users array,
    • groups array,

owners list, A list containing the following elements:
    • users array,
    • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares
  integer. For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts_put_containers_shares_users

*Set the permissions users have on this object*

**Description**

Set the permissions users have on this object

**Usage**

```
scripts_put_containers_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

**id**
  integer required. The ID of the resource that is shared.

**user_ids**
  array required. An array of one or more user IDs.

**permission_level**
  string required. Options are: "read", "write", or "manage".

**share_email_body**
  string optional. Custom body text for e-mail sent on a share.

**send_shared_email**
  boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

**readers**
  list, A list containing the following elements:
    • users array,
    • groups array,

**writers**
  list, A list containing the following elements:
    • users array,
    • groups array,

**owners**
  list, A list containing the following elements:
    • users array,
scripts_put_custom

• groups array,

totalUserShares
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

Description

Replace all attributes of this Custom Script

Usage

scripts_put_custom(
    id,
    name = NULL,
    parent_id = NULL,
    arguments = NULL,
    remote_host_id = NULL,
    credential_id = NULL,
    schedule = NULL,
    notifications = NULL,
    time_zone = NULL,
    target_project_id = NULL
)

Arguments

id
integer required. The ID for the script.

name
string optional. The name of the script.

parent_id
integer optional. The ID of the parent job that will trigger this script

arguments
list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

remote_host_id
integer optional. The remote host ID that this script will connect to.

credential_id
integer optional. The credential that this script will use.

schedule
list optional. A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
scripts_put_custom

- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list optional. A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

time_zone string optional. The time zone of this script.

target_project_id integer optional. Target project to which script outputs will be added.

Value

A list containing the following elements:

id integer, The ID for the script.
name string, The name of the script.
type string, The type of the script (e.g Custom)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string,
projects array, An array containing the following fields:
• id integer, The ID for the project.
• name string, The name of the project.

parentId integer, The ID of the parent job that will trigger this script

params array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  • allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ’Import’, ’value’: ’import’

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template script.

uiReportUrl integer, The url of the custom HTML.

uiReportId integer, The id of the report with the custom HTML.

uiReportProvideAPIKey boolean, Whether the ui report requests an API Key from the report viewer.

templateScriptName string, The name of the template script.

templateNote string, The template’s note.

remoteHostId integer, The remote host ID that this script will connect to.

credentialId integer, The credential that this script will use.

codePreview string, The code that this script will run with arguments inserted.

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:

• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:

• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:

• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

archived string, The archival status of the requested item(s).

targetProjectId integer, Target project to which script outputs will be added.

lastSuccessfulRun list, A list containing the following elements:

• id integer,
• state string,
• createdAt string, The time that the run was queued.
scripts_put_custom_archive

Update the archive status of this object

**Description**

Update the archive status of this object

**Usage**

```javascript
scripts_put_custom_archive(id, status)
```

**Arguments**

- **id**
  - integer required. The ID of the object.
- **status**
  - boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

- **id**
  - integer, The ID for the script.
- **name**
  - string, The name of the script.
- **type**
  - string, The type of the script (e.g Custom)
- **createdAt**
  - string, The time this script was created.
- **updatedAt**
  - string, The time the script was last updated.
- **author**
  - list, A list containing the following elements:
    - **id**
      - integer, The ID of this user.
    - **name**
      - string, This user’s name.
    - **username**
      - string, This user’s username.
    - **initials**
      - string, This user’s initials.
    - **online**
      - boolean, Whether this user is online.
- **state**
  - string, The status of the script’s last run.
- **finishedAt**
  - string, The time that the script’s last run finished.
- **category**
  - string,
- **projects**
  - array, An array containing the following fields:
    - **id**
      - integer, The ID for the project.
    - **name**
      - string, The name of the project.
- **parentID**
  - integer, The ID of the parent job that will trigger this script.
scripts_put_custom_archive

params array, An array containing the following fields:
  - name string, The variable’s name as used within your code.
  - label string, The label to present to users when asking them for the value.
  - description string, A short sentence or fragment describing this parameter to the end user.
  - type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - required boolean, Whether this param is required.
  - value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  - allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import''

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template script.
uiReportUrl integer, The url of the custom HTML.
uiReportId integer, The id of the report with the custom HTML.
uiReportProvideAPIKey boolean, Whether the ui report requests an API Key from the report viewer.
templateScriptName string, The name of the template script.
templateNote string, The template’s note.
remoteHostId integer, The remote host ID that this script will connect to.
credentialId integer, The credential that this script will use.
codePreview string, The code that this script will run with arguments inserted.
schedule list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

archived string, The archival status of the requested item(s).

targetProjectId integer, Target project to which script outputs will be added.

lastSuccessfulRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.
scripts_put_custom_projects

Add a Custom Script to a project

Description

Add a Custom Script to a project

Usage

scripts_put_custom_projects(id, project_id)

Arguments

id integer required. The ID of the Custom Script.
project_id integer required. The ID of the project.

Value

An empty HTTP response

scripts_put_custom_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

scripts_put_custom_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
scripts_put_custom_shares_users

Arguments

id            integer required. The ID of the resource that is shared.
group_ids     array required. An array of one or more group IDs.
permission_level
              string required. Options are: "read", "write", or "manage".
share_email_body
              string optional. Custom body text for e-mail sent on a share.
send_shared_email
              boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:
readers       list, A list containing the following elements:
              • users array,
              • groups array,
writers       list, A list containing the following elements:
              • users array,
              • groups array,
owners        list, A list containing the following elements:
              • users array,
              • groups array,
totalUserShares
              integer, For owners, the number of total users shared. For writers and readers,
              the number of visible users shared.
totalGroupShares
              integer, For owners, the number of total groups shared. For writers and readers,
              the number of visible groups shared.

Description

Set the permissions users have on this object

Usage

scripts_put_custom_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
Arguments

id  integer required. The ID of the resource that is shared.
user_ids  array required. An array of one or more user IDs.
permission_level  string required. Options are: "read", "write", or "manage".
share_email_body  string optional. Custom body text for e-mail sent on a share.
send_shared_email  boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers  list, A list containing the following elements:
  • users array,
  • groups array,
writers  list, A list containing the following elements:
  • users array,
  • groups array,
owners  list, A list containing the following elements:
  • users array,
  • groups array,
totalUserShares  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

scripts_put_javascript

Replace all attributes of this JavaScript Script

Description

Replace all attributes of this JavaScript Script
Usage

scripts_put_javascript(
    id,
    name,
    source,
    remote_host_id,
    credential_id,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    next_run_at = NULL,
    time_zone = NULL,
    target_project_id = NULL
)

Arguments

id integer required. The ID for the script.
name string required. The name of the script.
source string required. The body/text of the script.
remote_host_id integer required. The remote host ID that this script will connect to.
credential_id integer required. The credential that this script will use.
parent_id integer optional. The ID of the parent job that will trigger this script.
user_context string optional. "runner" or "author", who to execute the script as when run as a template.
params array optional. An array containing the following fields:
    • name string. The variable’s name as used within your code.
    • label string. The label to present to users when asking them for the value.
    • description string. A short sentence or fragment describing this parameter to the end user.
    • type string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
    • required boolean. Whether this param is required.
    • value string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
    • default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
    • allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ’Import’, ‘value’: ’import’
arguments
  list optional. Parameter-value pairs to use when running this script. Only set-able if this script has defined parameters.

schedule
  list optional. A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications
  list optional. A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

next_run_at
  string optional. The time of the next scheduled run.

time_zone
  string optional. The time zone of this script.

target_project_id
  integer optional. Target project to which script outputs will be added.

Value
  A list containing the following elements:
  • id integer, The ID for the script.
  • name string, The name of the script.
  • type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
  • createdAt string, The time this script was created.
  • updatedAt string, The time the script was last updated.
  • author list, A list containing the following elements:
    • id integer, The ID of this user.
    • name string, This user’s name.
- username string, This user's username.
- initials string, This user's initials.
- online boolean, Whether this user is online.

**state** string, The status of the script's last run.

**finishedAt** string, The time that the script's last run finished.

**category** string, The category of the script.

**projects** array, An array containing the following fields:
  - id integer, The ID for the project.
  - name string, The name of the project.

**parentId** integer, The ID of the parent job that will trigger this script.

**userContext** string, "runner" or "author", who to execute the script as when run as a template.

**params** array, An array containing the following fields:
  - name string, The variable's name as used within your code.
  - label string, The label to present to users when asking them for the value.
  - description string, A short sentence or fragment describing this parameter to the end user.
  - type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - required boolean, Whether this param is required.
  - value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
  - allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label': 'Import', 'value': 'import'

**arguments** list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

**isTemplate** boolean, Whether others scripts use this one as a template.

**publishedAsTemplateId** integer, The ID of the template that this script is backing.

**fromTemplateId** integer, The ID of the template this script uses, if any.

**templateDependentsCount** integer, How many other scripts use this one as a template.

**templateScriptName** string, The name of the template script.

**links** list, A list containing the following elements:
  - details string, The details link to get more information about the script.
  - runs string, The runs link to get the run information list for this script.
scripts_put_javascript

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.
scripts_put_javascript_archive

*Update the archive status of this object*

**Description**

Update the archive status of this object

**Usage**

```javascript
scripts_put_javascript_archive(id, status)
```

**Arguments**

- **id** integer required. The ID of the object.
- **status** boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

- **id** integer, The ID for the script.
- **name** string, The name of the script.
- **type** string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
- **createdAt** string, The time this script was created.
- **updatedAt** string, The time the script was last updated.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **state** string, The status of the script’s last run.
- **finishedAt** string, The time that the script’s last run finished.
- **category** string, The category of the script.
- **projects** array, An array containing the following fields:
  - **id** integer, The ID for the project.
• name string. The name of the project.

**parentId** integer, The ID of the parent job that will trigger this script

**userContext** string, "runner" or "author", who to execute the script as when run as a template.

**params** array, An array containing the following fields:

  • name string. The variable’s name as used within your code.
  • label string. The label to present to users when asking them for the value.
  • description string. A short sentence or fragment describing this parameter to the end user.
  • type string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  • allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’

**arguments** list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

**isTemplate** boolean, Whether others scripts use this one as a template.

**publishedAsTemplateId** integer, The ID of the template that this script is backing.

**fromTemplateId** integer, The ID of the template this script uses, if any.

**templateDependentsCount** integer, How many other scripts use this one as a template.

**templateScriptName** string, The name of the template script.

**links** list, A list containing the following elements:

  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.

**schedule** list, A list containing the following elements:

  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

**notifications** list, A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
- id integer,
- state string,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
targetProjectId integer, Target project to which script outputs will be added.
archived string, The archival status of the requested item(s).
source string, The body/text of the script.
remoteHostId integer, The remote host ID that this script will connect to.
credentialId integer, The credential that this script will use.
scripts_put_javascript_git

Attach an item to a file in a git repo

Description

Attach an item to a file in a git repo

Usage

```
scripts_put_javascript_git(
    id,
    git_ref = NULL,
    git_branch = NULL,
    git_path = NULL,
    git_repo_url = NULL,
    pull_from_git = NULL
)
```

Arguments

- **id** integer required. The ID of the file.
- **git_ref** string optional. A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **git_branch** string optional. The git branch that the file is on.
- **git_path** string optional. The path of the file in the repository.
- **git_repo_url** string optional. The URL of the git repository.
- **pull_from_git** boolean optional. Automatically pull latest commit from git. Only works for scripts.

Value

A list containing the following elements:

- **gitRef** string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **gitBranch** string, The git branch that the file is on.
- **gitPath** string, The path of the file in the repository.
- **gitRepo** list, A list containing the following elements:
  - **id** integer, The ID for this git repository.
  - **repoUrl** string, The URL for this git repository.
  - **createdAt** string,
  - **updatedAt** string,
- **pullFromGit** boolean, Automatically pull latest commit from git. Only works for scripts.
**scripts_put_javascript_projects**  
*Add a JavaScript Script to a project*

**Description**

Add a JavaScript Script to a project

**Usage**

```python
scripts_put_javascript_projects(id, project_id)
```

**Arguments**

- `id` integer required. The ID of the JavaScript Script.
- `project_id` integer required. The ID of the project.

**Value**

An empty HTTP response

---

**scripts_put_javascript_shares_groups**  
*Set the permissions groups has on this object*

**Description**

Set the permissions groups has on this object

**Usage**

```python
scripts_put_javascript_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
**Arguments**

- **id** integer required. The ID of the resource that is shared.
- **group_ids** array required. An array of one or more group IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**scripts_put_javascript_shares_users**

*Set the permissions users have on this object*

**Description**

Set the permissions users have on this object

**Usage**

```javascript
scripts_put_javascript_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```
Arguments

- **id** integer required. The ID of the resource that is shared.
- **user_ids** array required. An array of one or more user IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

*scripts_put_python3*  
*Replace all attributes of this Python Script*

---

**Description**

Replace all attributes of this Python Script
Usage

```python
scripts_put_python3(
    id,
    name,
    source,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    next_run_at = NULL,
    time_zone = NULL,
    target_project_id = NULL,
    required_resources = NULL,
    instance_type = NULL,
    cancel_timeout = NULL,
    docker_image_tag = NULL
)
```

Arguments

- **id** integer required. The ID for the script.
- **name** string required. The name of the script.
- **source** string required. The body/text of the script.
- **parent_id** integer optional. The ID of the parent job that will trigger this script.
- **user_context** string optional. "runner" or "author", who to execute the script as when run as a template.
- **params** array optional. An array containing the following fields:
  - **name** string. The variable’s name as used within your code.
  - **label** string. The label to present to users when asking them for the value.
  - **description** string. A short sentence or fragment describing this parameter to the end user.
  - **type** string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - **required** boolean. Whether this param is required.
  - **value** string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - **default** string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  - **allowedValues** array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ’Import’, ‘value’: ’import’
arguments

list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

schedule

list optional. A list containing the following elements:

- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications

list optional. A list containing the following elements:

- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

next_run_at

string optional. The time of the next scheduled run.

time_zone

string optional. The time zone of this script.

target_project_id

integer optional. Target project to which script outputs will be added.

required_resources

list optional. A list containing the following elements:

- cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
- memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
- diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instance_type

string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
scripts_put_python3

cancel_timeout  integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

docker_image_tag  string optional. The tag of the docker image to pull from DockerHub.

Value

A list containing the following elements:

id  integer, The ID for the script.
name  string, The name of the script.
type  string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt  string, The time this script was created.
updatedAt  string, The time the script was last updated.
author  list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user's username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state  string, The status of the script’s last run.
finishedAt  string, The time that the script’s last run finished.
category  string, The category of the script.
projects  array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentId  integer, The ID of the parent job that will trigger this script
userContext  string, "runner" or "author", who to execute the script as when run as a template.
params  array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
scripts_put_python3

- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import’, 'value': 'import''

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.

links list, A list containing the following elements:
- details string, The details link to get more information about the script.
- runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.

archived string, The archival status of the requested item(s).

requiredResources list, A list containing the following elements:
  - cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
  - memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
  - diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instanceType string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

source string, The body/text of the script.

cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

dockerImageTag string, The tag of the docker image to pull from DockerHub.
scripts_put_python3_archive

Update the archive status of this object

Description
Update the archive status of this object

Usage
scripts_put_python3_archive(id, status)

Arguments
id integer required. The ID of the object.
status boolean required. The desired archived status of the object.

Value
A list containing the following elements:
id integer, The ID for the script.
name string, The name of the script.
type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentID integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.
params array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
• label string, The label to present to users when asking them for the value.
• description string, A short sentence or fragment describing this parameter to the end user.
• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
• required boolean, Whether this param is required.
• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import'’

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.

templateDependentsCount integer, How many other scripts use this one as a template.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
scripts_put_python3_archive

- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user's initials.
  - online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.

archived string, The archival status of the requested item(s).

requiredResources list, A list containing the following elements:
  - cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
  - memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
  - diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instanceType string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

source string, The body/text of the script.
cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

dockerImageTag string, The tag of the docker image to pull from DockerHub.

---

**scripts_put_python3_git**

*Attach an item to a file in a git repo*

**Description**

Attach an item to a file in a git repo

**Usage**

```python
scripts_put_python3_git(
    id,
    git_ref = NULL,
    git_branch = NULL,
    git_path = NULL,
    git_repo_url = NULL,
    pull_from_git = NULL
)
```

**Arguments**

- **id**
  - integer required. The ID of the file.
- **git_ref**
  - string optional. A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **git_branch**
  - string optional. The git branch that the file is on.
- **git_path**
  - string optional. The path of the file in the repository.
- **git_repo_url**
  - string optional. The URL of the git repository.
- **pull_from_git**
  - boolean optional. Automatically pull latest commit from git. Only works for scripts.

**Value**

A list containing the following elements:

- **gitRef**
  - string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **gitBranch**
  - string, The git branch that the file is on.
- **gitPath**
  - string, The path of the file in the repository.
- **gitRepo**
  - list, A list containing the following elements:
    - id integer, The ID for this git repository.
scripts_put_python3_projects

Add a Python Script to a project

Description
Add a Python Script to a project

Usage
scripts_put_python3_projects(id, project_id)

Arguments
id integer required. The ID of the Python Script.
project_id integer required. The ID of the project.

Value
An empty HTTP response

scripts_put_python3_shares_groups

Set the permissions groups has on this object

Description
Set the permissions groups has on this object

Usage
scripts_put_python3_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the resource that is shared.</td>
</tr>
<tr>
<td>group_ids</td>
<td>array required. An array of one or more group IDs.</td>
</tr>
<tr>
<td>permission_level</td>
<td>string required. Options are: &quot;read&quot;, &quot;write&quot;, or &quot;manage&quot;.</td>
</tr>
<tr>
<td>share_email_body</td>
<td>string optional. Custom body text for e-mail sent on a share.</td>
</tr>
<tr>
<td>send_shared_email</td>
<td>boolean optional. Send email to the recipients of a share.</td>
</tr>
</tbody>
</table>

Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**scripts_put_python3_shares_users

Set the permissions users have on this object**

---

Description

Set the permissions users have on this object

Usage

```python
scripts_put_python3_shares_users(
    id, user_ids, permission_level, share_email_body = NULL, send_shared_email = NULL)
```
Arguments

- **id** integer required. The ID of the resource that is shared.
- **user_ids** array required. An array of one or more user IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**scripts_put_r**

*Replace all attributes of this R Script*

**Description**

Replace all attributes of this R Script
Usage

```r
scripts_put_r(
  id,
  name,
  source,
  parent_id = NULL,
  user_context = NULL,
  params = NULL,
  arguments = NULL,
  schedule = NULL,
  notifications = NULL,
  next_run_at = NULL,
  time_zone = NULL,
  target_project_id = NULL,
  required_resources = NULL,
  instance_type = NULL,
  cancel_timeout = NULL,
  docker_image_tag = NULL
)
```

Arguments

- **id** integer required. The ID for the script.
- **name** string required. The name of the script.
- **source** string required. The body/text of the script.
- **parent_id** integer optional. The ID of the parent job that will trigger this script
- **user_context** string optional. "runner" or "author", who to execute the script as when run as a template.
- **params** array optional. An array containing the following fields:
  - **name** string. The variable’s name as used within your code.
  - **label** string. The label to present to users when asking them for the value.
  - **description** string. A short sentence or fragment describing this parameter to the end user.
  - **type** string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - **required** boolean. Whether this param is required.
  - **value** string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - **default** string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  - **allowedValues** array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: `label: ‘Import’, ‘value’: ‘import’`
arguments list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

schedule list optional. A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list optional. A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

next_run_at string optional. The time of the next scheduled run.

time_zone string optional. The time zone of this script.

target_project_id integer optional. Target project to which script outputs will be added.

required_resources list optional. A list containing the following elements:
- cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
- memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
- diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instance_type string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
cancel_timeout: integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

docker_image_tag: string optional. The tag of the docker image to pull from DockerHub.

Value

A list containing the following elements:

- id: integer, The ID for the script.
- name: string, The name of the script.
- type: string, The type of the script (e.g. SQL, Container, Python, R, JavaScript)
- createdAt: string, The time this script was created.
- updatedAt: string, The time the script was last updated.
- author: list, A list containing the following elements:
  - id: integer, The ID of this user.
  - name: string, This user’s name.
  - username: string, This user’s username.
  - initials: string, This user’s initials.
  - online: boolean, Whether this user is online.
- state: string, The status of the script’s last run.
- finishedAt: string, The time that the script’s last run finished.
- category: string, The category of the script.
- projects: array, An array containing the following fields:
  - id: integer, The ID for the project.
  - name: string, The name of the project.
- parentId: integer, The ID of the parent job that will trigger this script
- userContext: string, “runner” or “author”, who to execute the script as when run as a template.
- params: array, An array containing the following fields:
  - name: string, The variable’s name as used within your code.
  - label: string, The label to present to users when asking them for the value.
  - description: string, A short sentence or fragment describing this parameter to the end user.
  - type: string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - required: boolean, Whether this param is required.
  - value: string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
scripts_put_r

- default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label': 'Import', 'value': 'import'

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.

links list, A list containing the following elements:
  - details string, The details link to get more information about the script.
  - runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  - successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  - failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  - stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  - successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
targetProjectId integer, Target project to which script outputs will be added.
archived string, The archival status of the requested item(s).

requiredResources list, A list containing the following elements:
  • cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
  • memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
  • diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instanceType string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
source string, The body/text of the script.
cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
dockerImageTag string, The tag of the docker image to pull from DockerHub.
**scripts_put_r_archive**  
*Update the archive status of this object*

**Description**

Update the archive status of this object

**Usage**

```r
scripts_put_r_archive(id, status)
```

**Arguments**

- **id**  
  integer required. The ID of the object.

- **status**  
  boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

- **id**  
  integer, The ID for the script.

- **name**  
  string, The name of the script.

- **type**  
  string, The type of the script (e.g SQL, Container, Python, R, JavaScript)

- **createdAt**  
  string, The time this script was created.

- **updatedAt**  
  string, The time the script was last updated.

- **author**  
  list, A list containing the following elements:
    - **id** integer, The ID of this user.
    - **name** string, This user’s name.
    - **username** string, This user’s username.
    - **initials** string, This user’s initials.
    - **online** boolean, Whether this user is online.

- **state**  
  string, The status of the script’s last run.

- **finishedAt**  
  string, The time that the script’s last run finished.

- **category**  
  string, The category of the script.

- **projects**  
  array, An array containing the following fields:
    - **id** integer, The ID for the project.
    - **name** string, The name of the project.

- **parentJobId**  
  integer, The ID of the parent job that will trigger this script

- **userId**  
  string, "runner" or "author", who to execute the script as when run as a template.

- **params**  
  array, An array containing the following fields:
    - **name** string, The variable’s name as used within your code.
    - **label** string, The label to present to users when asking them for the value.
• description string, A short sentence or fragment describing this parameter to the end user.
• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
• required boolean, Whether this param is required.
• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string, If an argument for this parameter is not defined, it will use this default value. Use True, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.

links list, A list containing the following elements:
• details string, The details link to get more information about the script.
• runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.

archived string, The archival status of the requested item(s).

requiredResources list, A list containing the following elements:
• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
• memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instanceType string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

source string, The body/text of the script.
scripts_put_r_git

Description

Attach an item to a file in a git repo

Usage

```r
scripts_put_r_git(
  id,
  git_ref = NULL,
  git_branch = NULL,
  git_path = NULL,
  git_repo_url = NULL,
  pull_from_git = NULL
)
```

Arguments

- `id` integer required. The ID of the file.
- `git_ref` string optional. A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- `git_branch` string optional. The git branch that the file is on.
- `git_path` string optional. The path of the file in the repository.
- `git_repo_url` string optional. The URL of the git repository.
- `pull_from_git` boolean optional. Automatically pull latest commit from git. Only works for scripts.

Value

A list containing the following elements:

- `gitRef` string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- `gitBranch` string, The git branch that the file is on.
- `gitPath` string, The path of the file in the repository.
- `gitRepo` list, A list containing the following elements:
  - `id` integer, The ID for this git repository.
scripts_put_r_projects

Add an R Script to a project

Description
Add an R Script to a project

Usage

scripts_put_r_projects(id, project_id)

Arguments

id integer required. The ID of the R Script.
project_id integer required. The ID of the project.

Value
An empty HTTP response

scripts_put_r_shares_groups

Set the permissions groups has on this object

Description
Set the permissions groups has on this object

Usage

scripts_put_r_shares_groups(
id,  
group_ids,  
permission_level,  
share_email_body = NULL,  
send_shared_email = NULL
)

• repoUrl string. The URL for this git repository.
• createdAt string.
• updatedAt string.

pullFromGit boolean, Automatically pull latest commit from git. Only works for scripts.
Arguments

id
integer required. The ID of the resource that is shared.
group_ids
array required. An array of one or more group IDs.
permission_level
string required. Options are: "read", "write", or "manage".
share_email_body
string optional. Custom body text for e-mail sent on a share.
send_shared_email
boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

Description

Set the permissions users have on this object

Usage

scripts_put_r_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
Arguments

id  integer required. The ID of the resource that is shared.
user_ids array required. An array of one or more user IDs.
permission_level
    string required. Options are: "read", "write", or "manage".
share_email_body
    string optional. Custom body text for e-mail sent on a share.
send_shared_email
    boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers list, A list containing the following elements:
    • users array,
    • groups array,
writers list, A list containing the following elements:
    • users array,
    • groups array,
owners list, A list containing the following elements:
    • users array,
    • groups array,
totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

Replace all attributes of this SQL script

Description

Replace all attributes of this SQL script
Usage

```python
def scripts_put_sql(
    id,  
    name,  
    sql,  
    remote_host_id,  
    credential_id,  
    parent_id = NULL,  
    user_context = NULL,  
    params = NULL,  
    arguments = NULL,  
    schedule = NULL,  
    notifications = NULL,  
    next_run_at = NULL,  
    time_zone = NULL,  
    target_project_id = NULL,  
    csv_settings = NULL
)
```

Arguments

- `id` - integer, required. The ID for the script.
- `name` - string, required. The name of the script.
- `sql` - string, required. The raw SQL query for the script.
- `remote_host_id` - integer, required. The remote host ID that this script will connect to.
- `credential_id` - integer, required. The credential that this script will use.
- `parent_id` - integer, optional. The ID of the parent job that will trigger this script.
- `user_context` - string, optional. "runner" or "author", who to execute the script as when run as a template.
- `params` - array, optional. An array containing the following fields:
  - `name` - string, The variable's name as used within your code.
  - `label` - string, The label to present to users when asking them for the value.
  - `description` - string, A short sentence or fragment describing this parameter to the end user.
  - `type` - string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - `required` - boolean, Whether this param is required.
  - `value` - string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - `default` - string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: `label: 'Import', 'value': 'import'

arguments list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

schedule list optional. A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list optional. A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

next_run_at string optional. The time of the next scheduled run.

time_zone string optional. The time zone of this script.

target_project_id integer optional. Target project to which script outputs will be added.

csv_settings list optional. A list containing the following elements:
- includeHeader boolean, Whether or not to include headers in the output data. Default: true
- compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip
- columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma
- unquoted boolean, Whether or not to quote fields. Default: false
- forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false
• filenamePrefix string. A user specified filename prefix for the output file to have. Default: null
• maxFileSize integer. The max file size, in MB, created files will be. Only available when force_multifile is true.

Value

A list containing the following elements:

- **id** integer. The ID for the script.
- **name** string. The name of the script.
- **type** string. The type of the script (e.g. SQL, Container, Python, R, JavaScript)
- **createdAt** string. The time this script was created.
- **updatedAt** string. The time the script was last updated.
- **author** list. A list containing the following elements:
  - id integer. The ID of this user.
  - name string. This user’s name.
  - username string. This user’s username.
  - initials string. This user’s initials.
  - online boolean. Whether this user is online.
- **state** string. The status of the script’s last run.
- **finishedAt** string. The time that the script’s last run finished.
- **category** string. The category of the script.
- **projects** array. An array containing the following fields:
  - id integer. The ID for the project.
  - name string. The name of the project.
- **parentId** integer. The ID of the parent job that will trigger this script
- **userContext** string. "runner" or "author", who to execute the script as when run as a template.
- **params** array. An array containing the following fields:
  - name string. The variable’s name as used within your code.
  - label string. The label to present to users when asking them for the value.
  - description string. A short sentence or fragment describing this parameter to the end user.
  - type string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - required boolean. Whether this param is required.
  - value string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label': 'Import', 'value': 'import'

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.

templateDependentsCount integer, How many other scripts use this one as a template.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:

• details string, The details link to get more information about the script.
• runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:

• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:

• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:

• id integer, The ID of this user.
• name string, This user's name.
• username string, This user's username.
• initials string, This user's initials.
• online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this script.
lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
targetProjectId integer, Target project to which script outputs will be added.
archived string, The archival status of the requested item(s).
sql string, The raw SQL query for the script.
expandedArguments list, Expanded arguments for use in injecting into different environments.
remoteHostId integer, The remote host ID that this script will connect to.
credentialId integer, The credential that this script will use.
codePreview string, The code that this script will run with arguments inserted.
csvSettings list, A list containing the following elements:
  • includeHeader boolean, Whether or not to include headers in the output data. Default: true
  • compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip
  • columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma
  • unquoted boolean, Whether or not to quote fields. Default: false
  • forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false
  • filenamePrefix string, A user specified filename prefix for the output file to have. Default: null
  • maxFileSize integer, The max file size, in MB, created files will be. Only available when force_multifile is true.
scripts_put_sql_archive

Update the archive status of this object

Description
Update the archive status of this object

Usage
scripts_put_sql_archive(id, status)

Arguments
id integer required. The ID of the object.
status boolean required. The desired archived status of the object.

Value
A list containing the following elements:
id integer, The ID for the script.
name string, The name of the script.
type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentId integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.
params array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
• label string, The label to present to users when asking them for the value.
• description string, A short sentence or fragment describing this parameter to the end user.
• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
• required boolean, Whether this param is required.
• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.

links list, A list containing the following elements:
• details string, The details link to get more information about the script.
• runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user's name.
• username string, This user's username.
• initials string, This user's initials.
• online boolean, Whether this user is online.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
targetProjectId integer, Target project to which script outputs will be added.

sql string, The raw SQL query for the script.

extRunAt string, The time of the next scheduled run.

expandedArguments list, Expanded arguments for use in injecting into different environments.

remoteHostId integer, The remote host ID that this script will connect to.

credentialId integer, The credential that this script will use.

codePreview string, The code that this script will run with arguments inserted.

csvSettings list, A list containing the following elements:
• includeHeader boolean, Whether or not to include headers in the output data. Default: true
• compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip
• columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma
scripts_put_sql_git

---

**Description**

Attach an item to a file in a git repo

**Usage**

```r
scripts_put_sql_git(
  id,
  git_ref = NULL,
  git_branch = NULL,
  git_path = NULL,
  git_repo_url = NULL,
  pull_from_git = NULL
)
```

**Arguments**

- `id` integer required. The ID of the file.
- `git_ref` string optional. A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- `git_branch` string optional. The git branch that the file is on.
- `git_path` string optional. The path of the file in the repository.
- `git_repo_url` string optional. The URL of the git repository.
- `pull_from_git` boolean optional. Automatically pull latest commit from git. Only works for scripts.

**Value**

A list containing the following elements:

- `gitRef` string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- `gitBranch` string, The git branch that the file is on.
- `gitPath` string, The path of the file in the repository.
scripts_put_sql_projects

list, A list containing the following elements:
• id integer, The ID for this git repository.
• repoUrl string, The URL for this git repository.
• createdAt string,
• updatedAt string,

pullFromGit boolean, Automatically pull latest commit from git. Only works for scripts.

scripts_put_sql_projects

Add a SQL script to a project

Description

Add a SQL script to a project

Usage

scripts_put_sql_projects(id, project_id)

Arguments

id integer required. The ID of the SQL script.
project_id integer required. The ID of the project.

Value

An empty HTTP response

scripts_put_sql_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

scripts_put_sql_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
Arguments

id  integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

Description

Set the permissions users have on this object

Usage

scripts_put_sql_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
search_list

Arguments

- **id** integer required. The ID of the resource that is shared.
- **user_ids** array required. An array of one or more user IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

search_list

Perform a search

Description

Perform a search
Usage

```
search_list(
    query = NULL,
    type = NULL,
    offset = NULL,
    order = NULL,
    owner = NULL,
    limit = NULL,
    archived = NULL,
    last_run_state = NULL
)
```

Arguments

- **query** (string, optional): The search query.
- **type** (string, optional): The type for the search. It accepts a comma-separated list. Valid arguments are listed on the "GET /search/types" endpoint.
- **offset** (integer, optional): The offset for the search results.
- **order** (string, optional): The field on which to order the result set.
- **owner** (string, optional): The owner for the search.
- **limit** (integer, optional): Defaults to 10. Maximum allowed is 1000.
- **archived** (string, optional): If specified, return only results with the chosen archived status; either 'true', 'false', or 'all'. Defaults to 'false'.
- **last_run_state** (string, optional): The last run state of the job being searched for; either: 'queued', 'running', 'succeeded', 'failed', or 'cancelled'.

Value

An array containing the following fields:

- **totalResults** (integer): The number of items matching the search query.
- **aggregations** (list): Aggregations by owner and type for the search results.
- **results** (array): An array containing the following fields:
  - score (number): The relevance score from the search request.
  - type (string): The type of the item.
  - id (integer): The ID of the item.
  - name (string): The name of the item.
  - typeName (string): The verbose name of the type.
  - updatedAt (string): The time the item was last updated.
  - owner (string): The owner of the item.
  - useCount (integer): The use count of the item, if the item is a template.
  - lastRunId (integer): The last run id of the item, if the item is a job.
  - lastRunState (string): The last run state of the item, if the item is a job.
  - lastRunStart (string): The last run start time of the item, if the item is a job.
• lastRunFinish string, The last run finish time of the item, if the item is a job.
• public boolean, The flag that indicates a template is available to all users.
• lastRunException string, The exception of the item after the last run, if the item is a job.

---

**search_list_types**

*List available search types*

**Description**

List available search types

**Usage**

```java
search_list_types()
```

**Value**

An array containing the following fields:

- **type** string, The name of the item type.

---

**services_delete**

*Archive a Service (deprecated, use archiving endpoints instead)*

**Description**

Archive a Service (deprecated, use archiving endpoints instead)

**Usage**

```java
services_delete(id)
```

**Arguments**

- **id** integer required.

**Value**

An empty HTTP response
services_delete_deployments

*Delete a Service deployment*

**Description**
Delete a Service deployment

**Usage**
```
services_delete_deployments(service_id, deployment_id)
```

**Arguments**
- `service_id` integer required. The ID of the owning Service
- `deployment_id` integer required. The ID for this deployment

**Value**
An empty HTTP response

services_delete_projects

*Remove a Service from a project*

**Description**
Remove a Service from a project

**Usage**
```
services_delete_projects(id, project_id)
```

**Arguments**
- `id` integer required. The ID of the Service.
- `project_id` integer required. The ID of the project.

**Value**
An empty HTTP response
services_delete_shares_groups

Revoke the permissions a group has on this object

Description
Revoke the permissions a group has on this object

Usage
services_delete_shares_groups(id, group_id)

Arguments
- id: integer required. The ID of the resource that is shared.
- group_id: integer required. The ID of the group.

Value
An empty HTTP response

services_delete_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
services_delete_shares_users(id, user_id)

Arguments
- id: integer required. The ID of the resource that is shared.
- user_id: integer required. The ID of the user.

Value
An empty HTTP response
services_delete_tokens
Revoke a token by id

Description
Revoke a token by id

Usage
services_delete_tokens(id, token_id)

Arguments
id
integer required. The ID of the service.
token_id
integer required. The ID of the token.

Value
An empty HTTP response

services_get
Get a Service

Description
Get a Service

Usage
services_get(id)

Arguments
id
integer required.

Value
A list containing the following elements:

id
integer, The ID for this Service.
name
string, The name of this Service.
description
string, The description of this Service.
user
list, A list containing the following elements:
  • id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

type string, The type of this Service

dockerImageName string, The name of the docker image to pull from DockerHub.
dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
schedule list, A list containing the following elements:
  • runtimePlan string, Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.
  • recurrences array, List of day-hour combinations this item is scheduled for

timeZone string,
replicas integer, The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.
maxReplicas integer, The maximum number of Service replicas to deploy. Defining this field enables autoscaling.
instanceType string, The EC2 instance type to deploy to.
memory integer, The amount of memory allocated to each replica of the Service.
cpu integer, The amount of cpu allocated to each replica of the Service.
createdAt string,
updatedAt string,
credentials array, A list of credential IDs to pass to the Service.
apiKeyId integer, API key id of user
permissionSetId integer, The ID of the associated permission set, if any.
gitRepoUrl string, The url for the git repo where the Service code lives.
gitRepoRef string, The git reference to use when pulling code from the repo.
gitPathDir string, The path to the Service code within the git repo. If unspecified, the root directory will be used.

reportId integer, The ID of the associated report.
currentDeployment list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
• dockerImageName string, The name of the docker image to pull from DockerHub.
• dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
• displayUrl string, A signed URL for viewing the deployed item.
• instanceType string, The EC2 instance type requested for the deployment.
• memory integer, The memory allocated to the deployment.
• cpu integer, The cpu allocated to the deployment.
• state string, The state of the deployment.
• stateMessage string, A detailed description of the state.
• createdAt string,
• updatedAt string,
• published boolean,
• serviceId integer, The ID of owning Service

previewDeployment
list, A list containing the following elements:
• deploymentId integer, The ID for this deployment.
• userId integer, The ID of the owner.
• host string, Domain of the deployment.
• name string, Name of the deployment.
• dockerImageName string, The name of the docker image to pull from DockerHub.
• dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
• displayUrl string, A signed URL for viewing the deployed item.
• instanceType string, The EC2 instance type requested for the deployment.
• memory integer, The memory allocated to the deployment.
• cpu integer, The cpu allocated to the deployment.
• state string, The state of the deployment.
• stateMessage string, A detailed description of the state.
• createdAt string,
• updatedAt string,
• published boolean,
• serviceId integer, The ID of owning Service

currentUrl string, The URL that the service is hosted at.
previewUrl string, The URL that previews of the service are hosted at.

environmentVariables
list, Environment Variables to be passed into the Service.

notifications
list, A list containing the following elements:
• failureEmailAddresses array, Addresses to notify by e-mail when the service fails.
• failureOn boolean, If failure email notifications are on

archived string, The archival status of the requested item(s).

hidden boolean, The hidden status of the item.
services_get_deployments

Get details about a Service deployment

Description
Get details about a Service deployment

Usage
services_get_deployments(service_id, deployment_id)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>service_id</td>
<td>integer, required</td>
<td>The ID of the owning Service</td>
</tr>
<tr>
<td>deployment_id</td>
<td>integer, required</td>
<td>The ID for this deployment</td>
</tr>
</tbody>
</table>

Value
A list containing the following elements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>deploymentId</td>
<td>integer</td>
<td>The ID for this deployment</td>
</tr>
<tr>
<td>userId</td>
<td>integer</td>
<td>The ID of the owner</td>
</tr>
<tr>
<td>host</td>
<td>string</td>
<td>Domain of the deployment</td>
</tr>
<tr>
<td>name</td>
<td>string</td>
<td>Name of the deployment</td>
</tr>
<tr>
<td>dockerImageName</td>
<td>string</td>
<td>The name of the docker image to pull from DockerHub</td>
</tr>
<tr>
<td>dockerImageTag</td>
<td>string</td>
<td>The tag of the docker image to pull from DockerHub (default: latest)</td>
</tr>
<tr>
<td>displayUrl</td>
<td>string</td>
<td>A signed URL for viewing the deployed item.</td>
</tr>
<tr>
<td>instanceType</td>
<td>string</td>
<td>The EC2 instance type requested for the deployment.</td>
</tr>
<tr>
<td>memory</td>
<td>integer</td>
<td>The memory allocated to the deployment.</td>
</tr>
<tr>
<td>cpu</td>
<td>integer</td>
<td>The cpu allocated to the deployment.</td>
</tr>
<tr>
<td>state</td>
<td>string</td>
<td>The state of the deployment.</td>
</tr>
<tr>
<td>stateMessage</td>
<td>string</td>
<td>A detailed description of the state.</td>
</tr>
<tr>
<td>createdAt</td>
<td>string</td>
<td></td>
</tr>
<tr>
<td>updatedAt</td>
<td>string</td>
<td></td>
</tr>
<tr>
<td>published</td>
<td>boolean</td>
<td></td>
</tr>
<tr>
<td>serviceId</td>
<td>integer</td>
<td>The ID of owning Service</td>
</tr>
</tbody>
</table>
services_list  List Services

Description
List Services

Usage

services_list(
    hidden = NULL,
    archived = NULL,
    author = NULL,
    status = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments

hidden  boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
archived  string optional. The archival status of the requested item(s).
author  string optional. If specified, return imports from this author. It accepts a comma-separated list of author IDs.
status  string optional. If specified, returns Services with one of these statuses. It accepts a comma-separated list, possible values are 'running', 'idle'.
limit  integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
page_num  integer optional. Page number of the results to return. Defaults to the first page, 1.
order  string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at.
order_dir  string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value
An array containing the following fields:

id  integer, The ID for this Service.
name  string, The name of this Service.
description  string, The description of this Service.
user list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

type string, The type of this Service

createdAt string,
updatedAt string,

gitRepoUrl string, The url for the git repo where the Service code lives.
gitRepoRef string, The git reference to use when pulling code from the repo.
gitPathDir string, The path to the Service code within the git repo. If unspecified, the root directory will be used.

currentDeployment list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
  • dockerImageName string, The name of the docker image to pull from DockerHub.
  • dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
  • instanceType string, The EC2 instance type requested for the deployment.
  • memory integer, The memory allocated to the deployment.
  • cpu integer, The cpu allocated to the deployment.
  • state string, The state of the deployment.
  • stateMessage string, A detailed description of the state.
  • createdAt string,
  • updatedAt string,
  • published boolean,
  • serviceId integer, The ID of owning Service

previewDeployment list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
  • dockerImageName string, The name of the docker image to pull from DockerHub.
  • dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
• instanceType string, The EC2 instance type requested for the deployment.
• memory integer, The memory allocated to the deployment.
• cpu integer, The cpu allocated to the deployment.
• state string, The state of the deployment.
• stateMessage string, A detailed description of the state.
• createdAt string,
• updatedAt string,
• published boolean,
• serviceId integer, The ID of owning Service
archived string, The archival status of the requested item(s).

services_list_deployments

List deployments for a Service

Description

List deployments for a Service

Usage

services_list_deployments(
  service_id,
  deployment_id = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>service_id</td>
<td>integer required. The ID of the owning Service</td>
</tr>
<tr>
<td>deployment_id</td>
<td>integer optional. The ID for this deployment</td>
</tr>
<tr>
<td>limit</td>
<td>integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.</td>
</tr>
<tr>
<td>page_num</td>
<td>integer optional. Page number of the results to return. Defaults to the first page, 1.</td>
</tr>
<tr>
<td>order</td>
<td>string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at.</td>
</tr>
<tr>
<td>order_dir</td>
<td>string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.</td>
</tr>
</tbody>
</table>
**Value**

An array containing the following fields:

- deploymentId: integer, The ID for this deployment.
- userId: integer, The ID of the owner.
- host: string, Domain of the deployment.
- name: string, Name of the deployment.
- dockerImageName: string, The name of the docker image to pull from DockerHub.
- dockerImageTag: string, The tag of the docker image to pull from DockerHub (default: latest).
- instanceType: string, The EC2 instance type requested for the deployment.
- memory: integer, The memory allocated to the deployment.
- cpu: integer, The cpu allocated to the deployment.
- state: string, The state of the deployment.
- stateMessage: string, A detailed description of the state.
- createdAt: string,
- updatedAt: string,
- published: boolean,
- serviceId: integer, The ID of owning Service.

---

**Description**

Get the logs for a Service deployment.

**Usage**

```python
services_list_deployments_logs(
    id, deployment_id,
    start_at = NULL,
    end_at = NULL,
    limit = NULL
)
```
Arguments

- **id**: integer required. The ID of the owning Service.
- **deployment_id**: integer required. The ID for this deployment.
- **start_at**: string optional. Log entries with a lower timestamp will be omitted.
- **end_at**: string optional. Log entries with a higher timestamp will be omitted.
- **limit**: integer optional. The maximum number of log messages to return. Default of 10000.

Value

An array containing the following fields:

- **message**: string, The log message.
- **stream**: string, The stream of the log. One of "stdout", "stderr".
- **createdAt**: string, The time the log was created.
- **source**: string, The source of the log. One of "system", "user".

---

services_list_projects

*List the projects a Service belongs to*

Description

List the projects a Service belongs to

Usage

```
services_list_projects(id, hidden = NULL)
```

Arguments

- **id**: integer required. The ID of the Service.
- **hidden**: boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value

An array containing the following fields:

- **id**: integer, The ID for this project.
- **author**: list, A list containing the following elements:
  - **id**: integer, The ID of this user.
  - **name**: string, This user’s name.
  - **username**: string, This user’s username.
services_list_shares

- initials string, This user's initials.
- online boolean, Whether this user is online.

name string, The name of this project.
description string, A description of the project.
uusers array, An array containing the following fields:
  - id integer, The ID of this user.
  - name string, This user's name.
  - username string, This user's username.
  - initials string, This user's initials.
  - online boolean, Whether this user is online.

autoShare boolean,
createdAt string,
updatedAt string,
archived string, The archival status of the requested item(s).

---

services_list_shares  List users and groups permissioned on this object

Description
List users and groups permissioned on this object

Usage
services_list_shares(id)

Arguments
id integer required. The ID of the resource that is shared.

Value
An array containing the following fields:

readers list, A list containing the following elements:
  - users array,
  - groups array,

writers list, A list containing the following elements:
  - users array,
  - groups array,

owners list, A list containing the following elements:
  - users array,
services_list_tokens

Description
List tokens

Usage
services_list_tokens(id)

Arguments
id integer required. The ID of the service.

Value
An array containing the following fields:

- id integer, The ID of the token.
- name string, The name of the token.
- user list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- machineToken boolean, If true, this token is not tied to a particular user.
- createdAt string, The date and time when the token was created.
services_patch  
Update some attributes of this Service

Description
Update some attributes of this Service

Usage

services_patch(
    id,
    name = NULL,
    description = NULL,
    docker_image_name = NULL,
    docker_image_tag = NULL,
    schedule = NULL,
    replicas = NULL,
    max_replicas = NULL,
    instance_type = NULL,
    memory = NULL,
    cpu = NULL,
    credentials = NULL,
    api_key_id = NULL,
    permission_set_id = NULL,
    git_repo_url = NULL,
    git_repo_ref = NULL,
    git_path_dir = NULL,
    environment_variables = NULL,
    notifications = NULL
)

Arguments

id          integer required. The ID for this Service.
name        string optional. The name of this Service.
description string optional. The description of this Service.
docker_image_name
             string optional. The name of the docker image to pull from DockerHub.
docker_image_tag
             string optional. The tag of the docker image to pull from DockerHub (default: latest).
schedule    list optional. A list containing the following elements:
             - runtimePlan string. Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will
be on when scheduled. Always On means the deployed service will always be on.

- recurrences array. List of day-hour combinations this item is scheduled for

replicas integer optional. The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.

max_replicas integer optional. The maximum number of Service replicas to deploy. Defining this field enables autoscaling.

instance_type string optional. The EC2 instance type to deploy to.

memory integer optional. The amount of memory allocated to each replica of the Service.

cpu integer optional. The amount of cpu allocated to each replica of the Service.

credentials array optional. A list of credential IDs to pass to the Service.

api_key_id integer optional. API key id of user

permission_set_id integer optional. The ID of the associated permission set, if any.

git_repo_url string optional. The url for the git repo where the Service code lives.

git_repo_ref string optional. The git reference to use when pulling code from the repo.

git_path_dir string optional. The path to the Service code within the git repo. If unspecified, the root directory will be used.

environment_variables list optional. Environment Variables to be passed into the Service.

notifications list optional. A list containing the following elements:

- failureEmailAddresses array, Addresses to notify by e-mail when the service fails.
- failureOn boolean, If failure email notifications are on

Value

A list containing the following elements:

id integer, The ID for this Service.

name string, The name of this Service.

description string, The description of this Service.

user list, A list containing the following elements:

- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

type string, The type of this Service
dockerImageName string, The name of the docker image to pull from DockerHub.
dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
schedule list, A list containing the following elements:
  • runtimePlan string, Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.
  • recurrences array, List of day-hour combinations this item is scheduled for

timeZone string,
replicas integer, The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.
maxReplicas integer, The maximum number of Service replicas to deploy. Defining this field enables autoscaling.
instanceType string, The EC2 instance type to deploy to.
memory integer, The amount of memory allocated to each replica of the Service.
cpu integer, The amount of cpu allocated to each replica of the Service.
createdAt string,
updatedAt string,
credentials array, A list of credential IDs to pass to the Service.
apiKeyId integer, API key id of user
permissionSetId integer, The ID of the associated permission set, if any.
gitRepoUrl string, The url for the git repo where the Service code lives.
gitRepoRef string, The git reference to use when pulling code from the repo.
gitPathDir string, The path to the Service code within the git repo. If unspecified, the root directory will be used.
reportId integer, The ID of the associated report.
currentDeployment list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
  • dockerImageName string, The name of the docker image to pull from DockerHub.
  • dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
  • displayUrl string, A signed URL for viewing the deployed item.
  • instanceType string, The EC2 instance type requested for the deployment.
  • memory integer, The memory allocated to the deployment.
  • cpu integer, The cpu allocated to the deployment.
  • state string, The state of the deployment.
• stateMessage string, A detailed description of the state.
• createdAt string,
• updatedAt string,
• published boolean,
• serviceId integer, The ID of owning Service

previewDeployment
list, A list containing the following elements:
• deploymentId integer, The ID for this deployment.
• userId integer, The ID of the owner.
• host string, Domain of the deployment.
• name string, Name of the deployment.
• dockerImageName string, The name of the docker image to pull from DockerHub.
• dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
• displayUrl string, A signed URL for viewing the deployed item.
• instanceType string, The EC2 instance type requested for the deployment.
• memory integer, The memory allocated to the deployment.
• cpu integer, The cpu allocated to the deployment.
• state string, The state of the deployment.
• stateMessage string, A detailed description of the state.
• createdAt string,
• updatedAt string,
• published boolean,
• serviceId integer, The ID of owning Service

currentUrl string, The URL that the service is hosted at.
previewUrl string, The URL that previews of the service are hosted at.
environmentVariables
list, Environment Variables to be passed into the Service.

notifications list, A list containing the following elements:
• failureEmailAddresses array, Addresses to notify by e-mail when the service fails.
• failureOn boolean, If failure email notifications are on

archived string, The archival status of the requested item(s).
hidden boolean, The hidden status of the item.
Create a Service

Usage

services_post(
    name = NULL,
    description = NULL,
    type = NULL,
    docker_image_name = NULL,
    docker_image_tag = NULL,
    schedule = NULL,
    replicas = NULL,
    max_replicas = NULL,
    instance_type = NULL,
    memory = NULL,
    cpu = NULL,
    credentials = NULL,
    api_key_id = NULL,
    permission_set_id = NULL,
    git_repo_url = NULL,
    git_repo_ref = NULL,
    git_path_dir = NULL,
    environment_variables = NULL,
    notifications = NULL,
    hidden = NULL
)

Arguments

name       string optional. The name of this Service.
description string optional. The description of this Service.
type       string optional. The type of this Service
docker_image_name
            string optional. The name of the docker image to pull from DockerHub.
docker_image_tag
            string optional. The tag of the docker image to pull from DockerHub (default: latest).
schedule   list optional. A list containing the following elements:
            • runtimePlan string. Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically
turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.

- recurrences array. List of day-hour combinations this item is scheduled for

replicas integer optional. The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.

max_repli_licas integer optional. The maximum number of Service replicas to deploy. Defining this field enables autoscaling.

instance_type string optional. The EC2 instance type to deploy to.

memory integer optional. The amount of memory allocated to each replica of the Service.

cpu integer optional. The amount of cpu allocated to each replica of the Service.

credentials array optional. A list of credential IDs to pass to the Service.

api_key_id integer optional. API key id of user

permissions_set_id integer optional. The ID of the associated permission set, if any.

git_repo_url string optional. The url for the git repo where the Service code lives.

git_repo_ref string optional. The git reference to use when pulling code from the repo.

git_path_dir string optional. The path to the Service code within the git repo. If unspecified, the root directory will be used.

environment_variables list optional. Environment Variables to be passed into the Service.

notifications list optional. A list containing the following elements:

- failureEmailAddresses array, Addresses to notify by e-mail when the service fails.
- failureOn boolean, If failure email notifications are on

hidden boolean optional. The hidden status of the item.

Value

A list containing the following elements:

id integer, The ID for this Service.

name string, The name of this Service.

description string, The description of this Service.

user list, A list containing the following elements:

- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

type string, The type of this Service
dockerImageName
string, The name of the docker image to pull from DockerHub.
dockerImageTag
string, The tag of the docker image to pull from DockerHub (default: latest).
schedule
list, A list containing the following elements:
  • runtimePlan string, Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.
  • recurrences array, List of day-hour combinations this item is scheduled for
timeZone
string,
replicas
integer, The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.
maxReplicas
integer, The maximum number of Service replicas to deploy. Defining this field enables autoscaling.
instanceType
string, The EC2 instance type to deploy to.
memory
integer, The amount of memory allocated to each replica of the Service.
cpu
integer, The amount of cpu allocated to each replica of the Service.
createdAt
string,
updatedAt
string,
credentials
array, A list of credential IDs to pass to the Service.
apiKeyId
integer, API key id of user
permissionSetId
integer, The ID of the associated permission set, if any.
gitRepoUrl
string, The url for the git repo where the Service code lives.
gitRepoRef
string, The git reference to use when pulling code from the repo.
gitPathDir
string, The path to the Service code within the git repo. If unspecified, the root directory will be used.
reportId
integer, The ID of the associated report.
currentDeployment
list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
  • dockerImageName string, The name of the docker image to pull from DockerHub.
  • dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
  • displayUrl string, A signed URL for viewing the deployed item.
  • instanceType string, The EC2 instance type requested for the deployment.
• memory integer, The memory allocated to the deployment.
• cpu integer, The cpu allocated to the deployment.
• state string, The state of the deployment.
• stateMessage string, A detailed description of the state.
• createdAt string,
• updatedAt string,
• published boolean,
• serviceId integer, The ID of owning Service

previewDeployment
list, A list containing the following elements:
• deploymentId integer, The ID for this deployment.
• userId integer, The ID of the owner.
• host string, Domain of the deployment.
• name string, Name of the deployment.
• dockerImageName string, The name of the docker image to pull from DockerHub.
• dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
• displayUrl string, A signed URL for viewing the deployed item.
• instanceType string, The EC2 instance type requested for the deployment.
• memory integer, The memory allocated to the deployment.
• cpu integer, The cpu allocated to the deployment.
• state string, The state of the deployment.
• stateMessage string, A detailed description of the state.
• createdAt string,
• updatedAt string,
• published boolean,
• serviceId integer, The ID of owning Service

currentUrl string, The URL that the service is hosted at.
previewUrl string, The URL that previews of the service are hosted at.
environmentVariables
list, Environment Variables to be passed into the Service.
notifications
list, A list containing the following elements:
• failureEmailAddresses array, Addresses to notify by e-mail when the service fails.
• failureOn boolean, If failure email notifications are on

archived string, The archival status of the requested item(s).
hidden boolean, The hidden status of the item.
Description

Clone this Service

Usage

services_post_clone(id)

Arguments

id  integer required.

Value

A list containing the following elements:

- id  integer, The ID for this Service.
- name  string, The name of this Service.
- description  string, The description of this Service.
- user  list, A list containing the following elements:
  - id  integer, The ID of this user.
  - name  string, This user’s name.
  - username  string, This user’s username.
  - initials  string, This user’s initials.
  - online  boolean, Whether this user is online.
- type  string, The type of this Service
- dockerImageName  string, The name of the docker image to pull from DockerHub.
- dockerImageTag  string, The tag of the docker image to pull from DockerHub (default: latest).
- schedule  list, A list containing the following elements:
  - runtimePlan  string, Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.
  - recurrences array, List of day-hour combinations this item is scheduled for
- timeZone  string,
- replicas  integer, The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.
services_post_clone

maxReplicas integer, The maximum number of Service replicas to deploy. Defining this field enables autoscaling.

instanceType string, The EC2 instance type to deploy to.

memory integer, The amount of memory allocated to each replica of the Service.

cpu integer, The amount of CPU allocated to each replica of the Service.

createdAt string,

updatedAt string,

credentials array, A list of credential IDs to pass to the Service.

apiKeyId integer, API key id of user

permissionSetId integer, The ID of the associated permission set, if any.

gitRepoUrl string, The url for the git repo where the Service code lives.

gitRepoRef string, The git reference to use when pulling code from the repo.

gitPathDir string, The path to the Service code within the git repo. If unspecified, the root directory will be used.

reportId integer, The ID of the associated report.

currentDeployment list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
  • dockerImageName string, The name of the docker image to pull from DockerHub.
  • dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
  • displayUrl string, A signed URL for viewing the deployed item.
  • instanceType string, The EC2 instance type requested for the deployment.
  • memory integer, The memory allocated to the deployment.
  • cpu integer, The cpu allocated to the deployment.
  • state string, The state of the deployment.
  • stateMessage string, A detailed description of the state.
  • createdAt string,
  • updatedAt string,
  • published boolean,
  • serviceId integer, The ID of owning Service

previewDeployment list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
• name string, Name of the deployment.
• dockerImageName string, The name of the docker image to pull from DockerHub.
• dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
• displayUrl string, A signed URL for viewing the deployed item.
• instanceType string, The EC2 instance type requested for the deployment.
• memory integer, The memory allocated to the deployment.
• cpu integer, The cpu allocated to the deployment.
• state string, The state of the deployment.
• stateMessage string, A detailed description of the state.
• createdAt string,
• updatedAt string,
• published boolean,
• serviceId integer, The ID of owning Service

currentUrl string, The URL that the service is hosted at.
previewUrl string, The URL that previews of the service are hosted at.
environmentVariables list, Environment Variables to be passed into the Service.

notifications list, A list containing the following elements:
• failureEmailAddresses array, Addresses to notify by e-mail when the service fails.
• failureOn boolean, If failure email notifications are on

archived string, The archival status of the requested item(s).
hidden boolean, The hidden status of the item.

displays_post_deployments

Deploy a Service

Description
Deploy a Service

Usage

services_post_deployments(service_id, deployment_id = NULL, published = NULL)

Arguments

service_id integer required. The ID of the owning Service
deployment_id integer optional. The ID for this deployment
published boolean optional.
Value

A list containing the following elements:

- deploymentId: integer, The ID for this deployment.
- userId: integer, The ID of the owner.
- host: string, Domain of the deployment.
- name: string, Name of the deployment.
- dockerImageName: string, The name of the docker image to pull from DockerHub.
- dockerImageTag: string, The tag of the docker image to pull from DockerHub (default: latest).
- displayUrl: string, A signed URL for viewing the deployed item.
- instanceType: string, The EC2 instance type requested for the deployment.
- memory: integer, The memory allocated to the deployment.
- cpu: integer, The cpu allocated to the deployment.
- state: string, The state of the deployment.
- stateMessage: string, A detailed description of the state.
- createdAt: string,
- updatedAt: string,
- published: boolean,
- serviceId: integer, The ID of owning Service

services_post redeploy

Redeploy a Service

Description

Redeploy a Service

Usage

services_post redeploy(service_id, deployment_id = NULL, published = NULL)

Arguments

- service_id: integer required. The ID of the owning Service
- deployment_id: integer optional. The ID for this deployment
- published: boolean optional.
**Value**

A list containing the following elements:

- **deploymentId**  integer, The ID for this deployment.
- **userId**  integer, The ID of the owner.
- **host**  string, Domain of the deployment.
- **name**  string, Name of the deployment.
- **dockerImageName**  string, The name of the docker image to pull from DockerHub.
- **dockerImageTag**  string, The tag of the docker image to pull from DockerHub (default: latest).
- **displayUrl**  string, A signed URL for viewing the deployed item.
- **instanceType**  string, The EC2 instance type requested for the deployment.
- **memory**  integer, The memory allocated to the deployment.
- **cpu**  integer, The cpu allocated to the deployment.
- **state**  string, The state of the deployment.
- **stateMessage**  string, A detailed description of the state.
- **createdAt**  string,
- **updatedAt**  string,
- **published**  boolean,
- **serviceId**  integer, The ID of owning Service

---

**services_post_tokens**  
Create a new long-lived service token

---

**Description**

Create a new long-lived service token

**Usage**

`services_post_tokens(id, name, machine_token = NULL)`

**Arguments**

- **id**  integer required. The ID of the service.
- **name**  string required. The name of the token.
- **machine_token**  boolean optional. If true, create a compact token with no user information.
Value

A list containing the following elements:

- **id** integer, The ID of the token.
- **name** string, The name of the token.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **machineToken** boolean, If true, this token is not tied to a particular user.
- **createdAt** string, The date and time when the token was created.
- **token** string, The value of the token. Only returned when the token is first created.

services_put

Replace all attributes of this Service

Description

Replace all attributes of this Service

Usage

services_put(

    id,
    name = NULL,
    description = NULL,
    docker_image_name = NULL,
    docker_image_tag = NULL,
    schedule = NULL,
    replicas = NULL,
    max_replicas = NULL,
    instance_type = NULL,
    memory = NULL,
    cpu = NULL,
    credentials = NULL,
    api_key_id = NULL,
    permission_set_id = NULL,
    git_repo_url = NULL,
    git_repo_ref = NULL,
    git_path_dir = NULL,
    environment_variables = NULL,
    notifications = NULL
)


Arguments

id
integer required. The ID for this Service.

name
string optional. The name of this Service.

description
string optional. The description of this Service.

docker_image_name
string optional. The name of the docker image to pull from DockerHub.

docker_image_tag
string optional. The tag of the docker image to pull from DockerHub (default: latest).

schedule
list optional. A list containing the following elements:

• runtimePlan string, Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.

• recurrences array, List of day-hour combinations this item is scheduled for

replicas
integer optional. The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.

max_replicas
integer optional. The maximum number of Service replicas to deploy. Defining this field enables autoscaling.

instance_type
string optional. The EC2 instance type to deploy to.

memory
integer optional. The amount of memory allocated to each replica of the Service.

cpu
integer optional. The amount of cpu allocated to each replica of the Service.

credentials
array optional. A list of credential IDs to pass to the Service.

api_key_id
integer optional. API key id of user

permission_set_id
integer optional. The ID of the associated permission set, if any.

git_repo_url
string optional. The url for the git repo where the Service code lives.

git_repo_ref
string optional. The git reference to use when pulling code from the repo.

git_path_dir
string optional. The path to the Service code within the git repo. If unspecified, the root directory will be used.

environment_variables
list optional. Environment Variables to be passed into the Service.

notifications
list optional. A list containing the following elements:

• failureEmailAddresses array, Addresses to notify by e-mail when the service fails.

• failureOn boolean, If failure email notifications are on
Value

A list containing the following elements:

- **id** integer, The ID for this Service.
- **name** string, The name of this Service.
- **description** string, The description of this Service.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **type** string, The type of this Service.
- **dockerImageName** string, The name of the docker image to pull from DockerHub.
- **dockerImageTag** string, The tag of the docker image to pull from DockerHub (default: latest).
- **schedule** list, A list containing the following elements:
  - **runtimePlan** string, Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.
  - **recurrences** array, List of day-hour combinations this item is scheduled for.
- **timeZone** string,
- **replicas** integer, The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.
- **maxReplicas** integer, The maximum number of Service replicas to deploy. Defining this field enables autoscaling.
- **instanceType** string, The EC2 instance type to deploy to.
- **memory** integer, The amount of memory allocated to each replica of the Service.
- **cpu** integer, The amount of cpu allocated to each replica of the Service.
- **createdAt** string,
- **updatedAt** string,
- **credentials** array, A list of credential IDs to pass to the Service.
- **apiKeyId** integer, API key id of user
- **permissionSetId** integer, The ID of the associated permission set, if any.
- **gitRepoUrl** string, The url for the git repo where the Service code lives.
- **gitRepoRef** string, The git reference to use when pulling code from the repo.
- **gitPathDir** string, The path to the Service code within the git repo. If unspecified, the root directory will be used.
reportId integer, The ID of the associated report.

currentDeployment list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
  • dockerImageName string, The name of the docker image to pull from DockerHub.
  • dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
  • displayUrl string, A signed URL for viewing the deployed item.
  • instanceType string, The EC2 instance type requested for the deployment.
  • memory integer, The memory allocated to the deployment.
  • cpu integer, The cpu allocated to the deployment.
  • state string, The state of the deployment.
  • stateMessage string, A detailed description of the state.
  • createdAt string,
  • updatedAt string,
  • published boolean,
  • serviceId integer, The ID of owning Service

previewDeployment list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
  • dockerImageName string, The name of the docker image to pull from DockerHub.
  • dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
  • displayUrl string, A signed URL for viewing the deployed item.
  • instanceType string, The EC2 instance type requested for the deployment.
  • memory integer, The memory allocated to the deployment.
  • cpu integer, The cpu allocated to the deployment.
  • state string, The state of the deployment.
  • stateMessage string, A detailed description of the state.
  • createdAt string,
  • updatedAt string,
  • published boolean,
  • serviceId integer, The ID of owning Service

currentUrl string, The URL that the service is hosted at.
services_put_archive

Update the archive status of this object

Description
Update the archive status of this object

Usage
services_put_archive(id, status)

Arguments
id integer required. The ID of the object.
status boolean required. The desired archived status of the object.

Value
A list containing the following elements:

id integer, The ID for this Service.
name string, The name of this Service.
description string, The description of this Service.
user list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
type string, The type of this Service
dockerImageName string, The name of the docker image to pull from DockerHub.
dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
schedule list, A list containing the following elements:

- runtimePlan string, Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.
- recurrences array, List of day-hour combinations this item is scheduled for

timeZone string,
replicas integer, The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.
maxReplicas integer, The maximum number of Service replicas to deploy. Defining this field enables autoscaling.
instanceType string, The EC2 instance type to deploy to.
memory integer, The amount of memory allocated to each replica of the Service.
cpu integer, The amount of cpu allocated to each replica of the the Service.
createdAt string,
updatedAt string,
credentials array, A list of credential IDs to pass to the Service.
apiKeyId integer, API key id of user
permissionSetId integer, The ID of the associated permission set, if any.
gitRepoUrl string, The url for the git repo where the Service code lives.
gitRepoRef string, The git reference to use when pulling code from the repo.
gitPathDir string, The path to the Service code within the git repo. If unspecified, the root directory will be used.
reportId integer, The ID of the associated report.
currentDeployment list, A list containing the following elements:

- deploymentId integer, The ID for this deployment.
- userId integer, The ID of the owner.
- host string, Domain of the deployment.
- name string, Name of the deployment.
- dockerImageName string, The name of the docker image to pull from DockerHub.
- dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
- displayUrl string, A signed URL for viewing the deployed item.
- instanceType string, The EC2 instance type requested for the deployment.
- memory integer, The memory allocated to the deployment.
- cpu integer, The cpu allocated to the deployment.
- state string, The state of the deployment.
• stateMessage string, A detailed description of the state.
• createdAt string,
• updatedAt string,
• published boolean,
• serviceId integer, The ID of owning Service

previewDeployment list, A list containing the following elements:
• deploymentId integer, The ID for this deployment.
• userId integer, The ID of the owner.
• host string, Domain of the deployment.
• name string, Name of the deployment.
• dockerImageName string, The name of the docker image to pull from DockerHub.
• dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
• displayUrl string, A signed URL for viewing the deployed item.
• instanceType string, The EC2 instance type requested for the deployment.
• memory integer, The memory allocated to the deployment.
• cpu integer, The cpu allocated to the deployment.
• state string, The state of the deployment.
• stateMessage string, A detailed description of the state.
• createdAt string,
• updatedAt string,
• published boolean,
• serviceId integer, The ID of owning Service

currentUrl string, The URL that the service is hosted at.
previewUrl string, The URL that previews of the service are hosted at.
environmentVariables list, Environment Variables to be passed into the Service.

notifications list, A list containing the following elements:
• failureEmailAddresses array, Addresses to notify by e-mail when the service fails.
• failureOn boolean, If failure email notifications are on

archived string, The archival status of the requested item(s).
hidden boolean, The hidden status of the item.
services_put_projects  Add a Service to a project

Description
Add a Service to a project

Usage
services_put_projects(id, project_id)

Arguments
id  integer required. The ID of the Service.
project_id  integer required. The ID of the project.

Value
An empty HTTP response

services_put_shares_groups
Set the permissions groups has on this object

Description
Set the permissions groups has on this object

Usage
services_put_shares_groups(
id,
group_ids,
permission_level,
share_email_body = NULL,
send_shared_email = NULL
)
Arguments

- **id** integer required. The ID of the resource that is shared.
- **group_ids** array required. An array of one or more group IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - **users array**,
  - **groups array**,

- **writers** list, A list containing the following elements:
  - **users array**,
  - **groups array**,

- **owners** list, A list containing the following elements:
  - **users array**,
  - **groups array**,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**services_put_shares_users**

Set the permissions users have on this object

---

**Description**

Set the permissions users have on this object

**Usage**

```python
services_put_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
Arguments

- **id** integer required. The ID of the resource that is shared.
- **user_ids** array required. An array of one or more user IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**sql**

*SQL escaping*

Description

SQL escaping

Usage

sql(...)

Arguments

... Character vectors that will be combined into a single SQL expression.
stash_local_dataframe  Stash a data frame in feather or csv format, depending on CivisML version.

Description
Stash a data frame in feather or csv format, depending on CivisML version.

Usage
stash_local_dataframe(x, tmpl_id)

Arguments
x        data.frame to stash
tmpl_id  CivisML training template id

Value
file id where dataframe is stored

storage_hosts_delete  Delete a storage host (deprecated)

Description
Delete a storage host (deprecated)

Usage
storage_hosts_delete(id)

Arguments
id      integer required. The ID of the storage host.

Value
An empty HTTP response
storage_hosts_delete_shares_groups

Revoke the permissions a group has on this object

Description

Revoke the permissions a group has on this object

Usage

storage_hosts_delete_shares_groups(id, group_id)

Arguments

id integer required. The ID of the resource that is shared.
group_id integer required. The ID of the group.

Value

An empty HTTP response

storage_hosts_delete_shares_users

Revoke the permissions a user has on this object

Description

Revoke the permissions a user has on this object

Usage

storage_hosts_delete_shares_users(id, user_id)

Arguments

id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value

An empty HTTP response
storage_hosts_get  Get a storage host

Description
Get a storage host

Usage
storage_hosts_get(id)

Arguments
id  integer required. The ID of the storage host.

Value
A list containing the following elements:

id  integer, The ID of the storage host.
owner  list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
name  string, The human readable name for the storage host.
provider  string, The storage provider. One of: s3.
bucket  string, The bucket for this storage host.
s3Options  list, A list containing the following elements:
  • region string, The region for this storage host (ex. "us-east-1")

storage_hosts_list  List the storage hosts

Description
List the storage hosts

Usage
storage_hosts_list()
**Value**

An array containing the following fields:

- **id** integer, The ID of the storage host.
- **owner** list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- **name** string, The human readable name for the storage host.
- **provider** string, The storage provider. One of: s3.
- **bucket** string, The bucket for this storage host.
- **s3Options** list, A list containing the following elements:
  - region string, The region for this storage host (ex. "us-east-1")

---

**storage_hosts_list_shares**

*List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

`storage_hosts_list_shares(id)`

**Arguments**

- **id** integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
storage_hosts_patch

- users array,
- groups array,

**totalUserShares**
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

**totalGroupShares**
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**storage_hosts_patch**  
*Update some attributes of this storage host*

---

**Description**
Update some attributes of this storage host

**Usage**

```python
storage_hosts_patch(
    id,
    name = NULL,
    provider = NULL,
    bucket = NULL,
    s3_options = NULL
)
```

**Arguments**

- **id**
  integer required. The ID of the storage host.

- **name**
  string optional. The human readable name for the storage host.

- **provider**
  string optional. The storage provider. One of: s3.

- **bucket**
  string optional. The bucket for this storage host.

- **s3_options**
  list optional. A list containing the following elements:
  - region string, The region for this storage host (ex. "us-east-1")

**Value**

A list containing the following elements:

- **id**
  integer, The ID of the storage host.

- **owner**
  list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
storage_hosts_post  Create a new storage host

Description

Create a new storage host

Usage

storage_hosts_post(provider, bucket, name, s3_options = NULL)

Arguments

provider  string required. The storage provider. One of: s3.
bucket    string required. The bucket for this storage host.
name      string required. The human readable name for the storage host.
s3_options  list optional. A list containing the following elements:
             • region string, The region for this storage host (ex. "us-east-1")

Value

A list containing the following elements:

id  integer, The ID of the storage host.
owner list, A list containing the following elements:
       • id integer, The ID of this user.
       • name string, This user’s name.
       • username string, This user’s username.
       • initials string, This user’s initials.
       • online boolean, Whether this user is online.
name  string, The human readable name for the storage host.
provider  string, The storage provider. One of: s3.
bucket    string, The bucket for this storage host.
s3_options  list, A list containing the following elements:
            • region string, The region for this storage host (ex. "us-east-1")
storage_hosts_put  
*Replace all attributes of this storage host*

**Description**

Replace all attributes of this storage host

**Usage**

```r
storage_hosts_put(id, name, provider, bucket, s3_options = NULL)
```

**Arguments**

- `id` integer required. The ID of the storage host.
- `name` string required. The human readable name for the storage host.
- `provider` string required. The storage provider. One of: s3.
- `bucket` string required. The bucket for this storage host.
- `s3_options` list optional. A list containing the following elements:
  - region string, The region for this storage host (ex. "us-east-1")

**Value**

A list containing the following elements:

- `id` integer, The ID of the storage host.
- `owner` list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- `name` string, The human readable name for the storage host.
- `provider` string, The storage provider. One of: s3.
- `bucket` string, The bucket for this storage host.
- `s3Options` list, A list containing the following elements:
  - region string, The region for this storage host (ex. "us-east-1")
storage_hosts_put_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

storage_hosts_put_shares_groups(
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)

Arguments

id  integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares

integer. For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

storage_hosts_put_shares_users

Set the permissions users have on this object

Description

Set the permissions users have on this object

Usage

storage_hosts_put_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)

Arguments

id
integer required. The ID of the resource that is shared.

user_ids
array required. An array of one or more user IDs.

permission_level
string required. Options are: "read", "write", or "manage".

share_email_body
string optional. Custom body text for e-mail sent on a share.

send_shared_email
boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers
list, A list containing the following elements:
    • users array,
    • groups array,

writers
list, A list containing the following elements:
    • users array,
    • groups array,

owners
list, A list containing the following elements:
    • users array,
**groups array,**

- `totalUserShares` integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- `totalGroupShares` integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

### tables_delete_projects

*Remove a Table from a project*

**Description**

Remove a Table from a project

**Usage**

`tables_delete_projects(id, project_id)`

**Arguments**

- **id** integer required. The ID of the Table.
- **project_id** integer required. The ID of the project.

**Value**

An empty HTTP response

---

### tables_get

*Show basic table info*

**Description**

Show basic table info

**Usage**

`tables_get(id)`

**Arguments**

- **id** integer required.
Value

A list containing the following elements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The ID of the table.</td>
</tr>
<tr>
<td>databaseId</td>
<td>integer, The ID of the database.</td>
</tr>
<tr>
<td>schema</td>
<td>string, The name of the schema containing the table.</td>
</tr>
<tr>
<td>name</td>
<td>string, Name of the table.</td>
</tr>
<tr>
<td>description</td>
<td>string, The description of the table, as specified by the table owner</td>
</tr>
<tr>
<td>isView</td>
<td>boolean, True if this table represents a view. False if it represents a regular table.</td>
</tr>
<tr>
<td>rowCount</td>
<td>integer, The number of rows in the table.</td>
</tr>
<tr>
<td>columnCount</td>
<td>integer, The number of columns in the table.</td>
</tr>
<tr>
<td>sizeMb</td>
<td>number, The size of the table in megabytes.</td>
</tr>
<tr>
<td>owner</td>
<td>string, The database username of the table’s owner.</td>
</tr>
<tr>
<td>distkey</td>
<td>string, The column used as the Amazon Redshift distkey.</td>
</tr>
<tr>
<td>sortkeys</td>
<td>string, The column used as the Amazon Redshift sortkey.</td>
</tr>
<tr>
<td>refreshStatus</td>
<td>string, How up-to-date the table’s statistics on row counts, null counts, distinct counts, and values distributions are. One of: refreshing, stale, or current.</td>
</tr>
<tr>
<td>lastRefresh</td>
<td>string, The time of the last statistics refresh.</td>
</tr>
<tr>
<td>dataUpdatedAt</td>
<td>string, The last time that Civis Platform captured a change in this table. Only applicable for Redshift tables; please see the Civis help desk for more info.</td>
</tr>
<tr>
<td>schemaUpdatedAt</td>
<td>string, The last time that Civis Platform captured a change to the table attributes/structure. Only applicable for Redshift tables; please see the Civis help desk for more info.</td>
</tr>
<tr>
<td>refreshId</td>
<td>string, The ID of the most recent statistics refresh.</td>
</tr>
<tr>
<td>lastRun</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id integer,</td>
</tr>
<tr>
<td></td>
<td>• state string,</td>
</tr>
<tr>
<td></td>
<td>• createdAt string, The time that the run was queued.</td>
</tr>
<tr>
<td></td>
<td>• startedAt string, The time that the run started.</td>
</tr>
<tr>
<td></td>
<td>• finishedAt string, The time that the run completed.</td>
</tr>
<tr>
<td></td>
<td>• error string, The error message for this run, if present.</td>
</tr>
<tr>
<td>primaryKeys</td>
<td>array, The primary keys for this table.</td>
</tr>
<tr>
<td>lastModifiedKeys</td>
<td>array, The columns indicating an entry’s modification status for this table.</td>
</tr>
<tr>
<td>ontologyMapping</td>
<td>list, The ontology-key to column-name mapping. See /ontology for the list of valid ontology keys.</td>
</tr>
<tr>
<td>columns</td>
<td>array, An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>• name string, Name of the column.</td>
</tr>
</tbody>
</table>
tables_get

- civisDataType string. The generic data type of the column (ex. "string"). Since this is database-agnostic, it may be helpful when loading data to R/Python.
- sqlType string. The database-specific SQL type of the column (ex. "varchar(30)").
- sampleValues array. A sample of values from the column.
- encoding string. The compression encoding for this column. See: http://docs.aws.amazon.com/redshift/
- description string. The description of the column, as specified by the table owner.
- order integer. Relative position of the column in the table.
- minValue string. Smallest value in the column.
- maxValue string. Largest value in the column.
- avgValue number. Average value of the column, where applicable.
- stddev number. Stddev of the column, where applicable.
- valueDistributionPercent object. A mapping between each value in the column and the percentage of rows with that value. Only present for tables with fewer than approximately 25,000,000 rows and for columns with fewer than twenty distinct values.
- coverageCount integer. Number of non-null values in the column.
- nullCount integer. Number of null values in the column.
- possibleDependentVariableTypes array. Possible dependent variable types the column may be used to model. Null if it may not be used as a dependent variable.
- useableAsIndependentVariable boolean. Whether the column may be used as an independent variable to train a model.
- useableAsPrimaryKey boolean. Whether the column may be used as a primary key to identify table rows.
- valueDistribution object. An object mapping distinct values in the column to the number of times they appear in the column.
- distinctCount integer. Number of distinct values in the column.

joins array. An array containing the following fields:
- id integer,
- leftTableId integer,
- leftIdentifier string,
- rightTableId integer,
- rightIdentifier string,
- on string,
- leftJoin boolean,
- createdAt string,
- updatedAt string,

multipartKey array,

enhancements array. An array containing the following fields:
- type string,
tables_get_enhancements_cass_ncoa

View the status of a CASS / NCOA table enhancement

Description

View the status of a CASS / NCOA table enhancement

Usage

tables_get_enhancements_cass_ncoa(id, source_table_id)

Arguments

id

integer required. The ID of the enhancement.

source_table_id

integer required. The ID of the table that was enhanced.

Value

A list containing the following elements:

id

integer, The ID of the enhancement.

sourceTableId

integer, The ID of the table that was enhanced.

state

string, The state of the enhancement, one of ’queued’ ’running’ ’succeeded’ ’failed’ or ’cancelled’.

enhancedTableSchema

string, The schema name of the table created by the enhancement.

enhancedTableName

string, The name of the table created by the enhancement.

performNcoa

boolean, Whether to update addresses for records matching the National Change of Address (NCOA) database.
ncoaCredentialId
  integer. Credential to use when performing NCOA updates. Required if 'performNcoa' is true.

outputLevel
  string. The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all.' For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.

tables_get_enhancements_geocodings
  View the status of a geocoding table enhancement

Description
  View the status of a geocoding table enhancement

Usage
  tables_get_enhancements_geocodings(id, source_table_id)

Arguments

id
  integer required. The ID of the enhancement.

source_table_id
  integer required. The ID of the table that was enhanced.

Value
  A list containing the following elements:

id
  integer, The ID of the enhancement.

sourceTableId
  integer, The ID of the table that was enhanced.

state
  string. The state of the enhancement, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.

enhancedTableSchema
  string, The schema name of the table created by the enhancement.

enhancedTableName
  string, The name of the table created by the enhancement.
tables_list  List tables

Description
List tables

Usage
tables_list(
    database_id = NULL,
    schema = NULL,
    name = NULL,
    search = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments
database_id  integer optional. The ID of the database.
schema  string optional. If specified, will be used to filter the tables returned. Substring matching is supported with "%" and "*" wildcards (e.g., "schema=%census%" will return both "client_census.table" and "census_2010.table").
name  string optional. If specified, will be used to filter the tables returned. Substring matching is supported with "%" and "*" wildcards (e.g., "name=%table%" will return both "table1" and "my table").
search  string optional. If specified, will be used to filter the tables returned. Will search across schema and name (in the full form schema.name) and will return any full name containing the search string.
limit  integer optional. Number of results to return. Defaults to 50. Maximum allowed is 1000.
page_num  integer optional. Page number of the results to return. Defaults to the first page, 1.
order  string optional. The field on which to order the result set. Defaults to schema. Must be one of: schema, name, search.
order_dir  string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

Value
An array containing the following fields:
id  integer, The ID of the table.
tables_list_columns

- `databaseId` integer, The ID of the database.
- `schema` string, The name of the schema containing the table.
- `name` string, Name of the table.
- `description` string, The description of the table, as specified by the table owner.
- `isView` boolean, True if this table represents a view. False if it represents a regular table.
- `rowCount` integer, The number of rows in the table.
- `columnCount` integer, The number of columns in the table.
- `sizeMb` number, The size of the table in megabytes.
- `owner` string, The database username of the table’s owner.
- `distkey` string, The column used as the Amazon Redshift distkey.
- `sortkeys` string, The column used as the Amazon Redshift sortkey.
- `refreshStatus` string, How up-to-date the table’s statistics on row counts, null counts, distinct counts, and values distributions are. One of: refreshing, stale, or current.
- `lastRefresh` string, The time of the last statistics refresh.
- `refreshId` string, The ID of the most recent statistics refresh.
- `lastRun` list, A list containing the following elements:
  - `id` integer,
  - `state` string,
  - `createdAt` string, The time that the run was queued.
  - `startedAt` string, The time that the run started.
  - `finishedAt` string, The time that the run completed.
  - `error` string, The error message for this run, if present.

---

### Description

List columns in the specified table

### Usage

```python
tables_list_columns(
    id,
    name = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```
Arguments

id  integer required.
name  string optional. Search for columns with the given name, within the specified table.
limit  integer optional. Number of results to return. Defaults to its maximum of 50.
page_num  integer optional. Page number of the results to return. Defaults to the first page, 1.
order  string optional. The field on which to order the result set. Defaults to name. Must be one of: name, order.
order_dir  string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

Value

An array containing the following fields:

name  string, Name of the column.
civisDataType  string, The generic data type of the column (ex. "string"). Since this is database-agnostic, it may be helpful when loading data to R/Python.
sqlType  string, The database-specific SQL type of the column (ex. "varchar(30)").
sampleValues  array, A sample of values from the column.
encoding  string, The compression encoding for this column See: http://docs.aws.amazon.com/redshift/latest/dg/c_Compression_encodings.html
description  string, The description of the column, as specified by the table owner
order  integer, Relative position of the column in the table.
minValue  string, Smallest value in the column.
maxValue  string, Largest value in the column.
avgValue  number, Average value of the column, where applicable.
stddev  number, Stddev of the column, where applicable.
valueDistributionPercent  list, A mapping between each value in the column and the percentage of rows with that value. Only present for tables with fewer than approximately 25,000,000 rows and for columns with fewer than twenty distinct values.
coverageCount  integer, Number of non-null values in the column.
nullCount  integer, Number of null values in the column.
possibleDependentVariableTypes  array, Possible dependent variable types the column may be used to model. Null if it may not be used as a dependent variable.
useableAsIndependentVariable  boolean, Whether the column may be used as an independent variable to train a model.
useableAsPrimaryKey  boolean, Whether the column may be used as an primary key to identify table rows.
Tables List Projects

**valueDistribution**
- List. An object mapping distinct values in the column to the number of times they appear in the column.

**distinctCount**
- Integer. Number of distinct values in the column.

---

**tables_list_projects** *List the projects a Table belongs to*

**Description**

List the projects a Table belongs to

**Usage**

`tables_list_projects(id, hidden = NULL)`

**Arguments**

- **id**  
  - Integer required. The ID of the Table.

- **hidden**  
  - Boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

**Value**

An array containing the following fields:

- **id**  
  - Integer. The ID for this project.

- **author**  
  - List. A list containing the following elements:
    - id integer. The ID of this user.
    - name string. This user’s name.
    - username string. This user’s username.
    - initials string. This user’s initials.
    - online boolean. Whether this user is online.

- **name**  
  - String. The name of this project.

- **description**  
  - String. A description of the project.

- **users**  
  - Array. An array containing the following fields:
    - id integer. The ID of this user.
    - name string. This user’s name.
    - username string. This user’s username.
    - initials string. This user’s initials.
    - online boolean. Whether this user is online.

- **autoShare**  
  - Boolean.

- **createdAt**  
  - String.

- **updatedAt**  
  - String.

- **archived**  
  - String. The archival status of the requested item(s).
tables_patch  

Update a table

**Description**

Update a table

**Usage**

```
tables_patch(
    id,
    ontology_mapping = NULL,
    description = NULL,
    primary_keys = NULL,
    last_modified_keys = NULL
)
```

**Arguments**

- **id**: integer required. The ID of the table.
- **ontology_mapping**: list optional. The ontology-key to column-name mapping. See /ontology for the list of valid ontology keys.
- **description**: string optional. The user-defined description of the table.
- **primary_keys**: array optional. A list of column(s) which together uniquely identify a row in the data. These columns must not contain NULL values.
- **last_modified_keys**: array optional. The columns indicating when a row was last modified.

**Value**

A list containing the following elements:

- **id**: integer, The ID of the table.
- **databaseId**: integer, The ID of the database.
- **schema**: string, The name of the schema containing the table.
- **name**: string, Name of the table.
- **description**: string, The description of the table, as specified by the table owner.
- **isView**: boolean, True if this table represents a view. False if it represents a regular table.
- **rowCount**: integer, The number of rows in the table.
- **columnCount**: integer, The number of columns in the table.
- **sizeMb**: number, The size of the table in megabytes.
- **owner**: string, The database username of the table’s owner.
**distkey**  
string, The column used as the Amazon Redshift distkey.

**sortkeys**  
string, The column used as the Amazon Redshift sortkey.

**refreshStatus**  
string, How up-to-date the table’s statistics on row counts, null counts, distinct counts, and values distributions are. One of: refreshing, stale, or current.

**lastRefresh**  
string, The time of the last statistics refresh.

**dataUpdatedAt**  
string, The last time that Civis Platform captured a change in this table. Only applicable for Redshift tables; please see the Civis help desk for more info.

**schemaUpdatedAt**  
string, The last time that Civis Platform captured a change to the table attributes/structure. Only applicable for Redshift tables; please see the Civis help desk for more info.

**refreshId**  
string, The ID of the most recent statistics refresh.

**lastRun**  
list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.

**primaryKeys**  
array, The primary keys for this table.

**lastModifiedKeys**  
array, The columns indicating an entry’s modification status for this table.

**ontologyMapping**  
list, The ontology-key to column-name mapping. See /ontology for the list of valid ontology keys.

---

**tables_post_enhancements_cass_ncoa**

*Standardize addresses in a table*

---

**Description**

Standardize addresses in a table

**Usage**

```python
tables_post_enhancements_cass_ncoa(
    source_table_id,
    perform_ncoa = NULL,
    ncoa_credential_id = NULL,
    output_level = NULL
)
```
Arguments

source_table_id
integer required. The ID of the table to be enhanced.

perform_ncoa
boolean optional. Whether to update addresses for records matching the National Change of Address (NCOA) database.

ncoa_credential_id
integer optional. Credential to use when performing NCOA updates. Required if 'performNcoa' is true.

output_level
string optional. The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all'. For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.

Value

A list containing the following elements:

id
integer, The ID of the enhancement.

sourceTableId
integer, The ID of the table that was enhanced.

state
string, The state of the enhancement, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.

enhancedTableSchema
string, The schema name of the table created by the enhancement.

enhancedTableName
string, The name of the table created by the enhancement.

performNcoa
boolean, Whether to update addresses for records matching the National Change of Address (NCOA) database.

ncoaCredentialId
integer, Credential to use when performing NCOA updates. Required if 'performNcoa' is true.

outputLevel
string, The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all'. For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.

Description

Geocode a table

Usage

tables_post_enhancements_geocodings(source_table_id)
tables_post_refresh

Arguments

  source_table_id
  integer required. The ID of the table to be enhanced.

Value

A list containing the following elements:

  id
  integer, The ID of the enhancement.
  sourceTableId
  integer, The ID of the table that was enhanced.
  state
  string, The state of the enhancement, one of 'queued' 'running' 'succeeded'
  'failed' or 'cancelled'.
  enhancedTableSchema
  string, The schema name of the table created by the enhancement.
  enhancedTableName
  string, The name of the table created by the enhancement.

---

tables_post_refresh  Request a refresh for column and table statistics

Description

Request a refresh for column and table statistics

Usage

tables_post_refresh(id)

Arguments

  id
  integer required.

Value

A list containing the following elements:

  id
  integer, The ID of the table.
  databaseId
  integer, The ID of the database.
  schema
  string, The name of the schema containing the table.
  name
  string, Name of the table.
  description
  string, The description of the table, as specified by the table owner
  isView
  boolean, True if this table represents a view. False if it represents a regular table.
  rowCount
  integer, The number of rows in the table.
  columnCount
  integer, The number of columns in the table.
  sizeMb
  number, The size of the table in megabytes.
**owner**  
string, The database username of the table’s owner.

**distkey**  
string, The column used as the Amazon Redshift distkey.

**sortkeys**  
string, The column used as the Amazon Redshift sortkey.

**refreshStatus**  
string, How up-to-date the table’s statistics on row counts, null counts, distinct counts, and values distributions are. One of: refreshing, stale, or current.

**lastRefresh**  
string, The time of the last statistics refresh.

**dataUpdatedAt**  
string, The last time that Civis Platform captured a change in this table. Only applicable for Redshift tables; please see the Civis help desk for more info.

**schemaUpdatedAt**  
string, The last time that Civis Platform captured a change to the table attributes/structure. Only applicable for Redshift tables; please see the Civis help desk for more info.

**refreshId**  
string, The ID of the most recent statistics refresh.

**lastRun**  
list, A list containing the following elements:
- **id** integer,
- **state** string,
- **createdAt** string, The time that the run was queued.
- **startedAt** string, The time that the run started.
- **finishedAt** string, The time that the run completed.
- **error** string, The error message for this run, if present.

**primaryKeys**  
array, The primary keys for this table.

**lastModifiedKeys**  
array, The columns indicating an entry’s modification status for this table.

**ontologyMapping**  
list, The ontology-key to column-name mapping. See /ontology for the list of valid ontology keys.

**columns**  
array, An array containing the following fields:
- **name** string, Name of the column.
- **civisDataType** string, The generic data type of the column (ex. "string"). Since this is database-agnostic, it may be helpful when loading data to R/Python.
- **sqlType** string, The database-specific SQL type of the column (ex. "varchar(30)").
- **sampleValues** array, A sample of values from the column.
- **encoding** string, The compression encoding for this column. See: http://docs.aws.amazon.com/redshift/
- **description** string, The description of the column, as specified by the table owner
- **order** integer, Relative position of the column in the table.
- **minValue** string, Smallest value in the column.
- **maxValue** string, Largest value in the column.
- **avgValue** number, Average value of the column, where applicable.
- **stddev** number, Stddev of the column, where applicable.
valueDistributionPercent object, A mapping between each value in the column and the percentage of rows with that value. Only present for tables with fewer than approximately 25,000,000 rows and for columns with fewer than twenty distinct values.

coverageCount integer, Number of non-null values in the column.

nullCount integer, Number of null values in the column.

possibleDependentVariableTypes array, Possible dependent variable types the column may be used to model. Null if it may not be used as a dependent variable.

useableAsIndependentVariable boolean, Whether the column may be used as an independent variable to train a model.

useableAsPrimaryKey boolean, Whether the column may be used as an primary key to identify table rows.

valueDistribution object, An object mapping distinct values in the column to the number of times they appear in the column.

distinctCount integer, Number of distinct values in the column.

joins array, An array containing the following fields:

id integer,
leftTableId integer,
leftIdentifier string,
rightTableId integer,
rightIdentifier string,
on string,
leftJoin boolean,
createdAt string,
updatedAt string,

multipartKey array,

enhancements array, An array containing the following fields:

type string,
createdAt string,
updatedAt string,

joinId integer,

viewDef string,
tableDef string,

outgoingTableMatches array, An array containing the following fields:

sourceTableId integer, Source table

 targetType string, Target type

 targetId integer, Target ID

 target object,

 job object,
tables_post_scan  
*Creates and enqueues a single table scanner job on a new table*

**Description**

Creates and enqueues a single table scanner job on a new table

**Usage**

```
tables_post_scan(database_id, schema, table_name, stats_priority = NULL)
```

**Arguments**

- **database_id**: integer required. The ID of the database.
- **schema**: string required. The name of the schema containing the table.
- **table_name**: string required. The name of the table.
- **stats_priority**: string optional. When to sync table statistics. Valid Options are the following. Option: ‘flag’ means to flag stats for the next scheduled run of a full table scan on the database. Option: ‘block’ means to block this job on stats syncing. Option: ‘queue’ means to queue a separate job for syncing stats and do not block this job on the queued job. Defaults to ‘flag’

**Value**

A list containing the following elements:

- **jobId**: integer, The ID of the job created.
- **runId**: integer, The ID of the run created.

---

tables_put_projects  
*Add a Table to a project*

**Description**

Add a Table to a project

**Usage**

```
tables_put_projects(id, project_id)
```

**Arguments**

- **id**: integer required. The ID of the Table.
- **project_id**: integer required. The ID of the project.
**templates_delete_reports**

*Archive a Report Template (deprecated, use archiving endpoints instead)*

**Value**

An empty HTTP response

**templates_delete_reports_shares_groups**

*Revoke the permissions a group has on this object*

**Description**

Revoke the permissions a group has on this object

**Usage**

`templates_delete_reports_shares_groups(id, group_id)`

**Arguments**

- `id` integer required. The ID of the resource that is shared.
- `group_id` integer required. The ID of the group.

**Value**

An empty HTTP response
templates_delete_reports_shares_users

*Revoke the permissions a user has on this object*

**Description**

Revoke the permissions a user has on this object

**Usage**

`templates_delete_reports_shares_users(id, user_id)`

**Arguments**

- **id**: integer required. The ID of the resource that is shared.
- **user_id**: integer required. The ID of the user.

**Value**

An empty HTTP response

templates_delete_scripts

*Archive a Script Template (deprecated, use archiving endpoints instead)*

**Description**

Archive a Script Template (deprecated, use archiving endpoints instead)

**Usage**

`templates_delete_scripts(id)`

**Arguments**

- **id**: integer required.

**Value**

An empty HTTP response
templates_delete_scripts_projects

Remove a Script Template from a project

**Description**

Remove a Script Template from a project

**Usage**

```python
templates_delete_scripts_projects(id, project_id)
```

**Arguments**

- **id**: integer required. The ID of the Script Template.
- **project_id**: integer required. The ID of the project.

**Value**

An empty HTTP response

templates_delete_scripts_shares_groups

Revoke the permissions a group has on this object

**Description**

Revoke the permissions a group has on this object

**Usage**

```python
templates_delete_scripts_shares_groups(id, group_id)
```

**Arguments**

- **id**: integer required. The ID of the resource that is shared.
- **group_id**: integer required. The ID of the group.

**Value**

An empty HTTP response
templates_delete_scripts_shares_users
Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
templates_delete_scripts_shares_users(id, user_id)

Arguments
id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value
An empty HTTP response

templates_get_reports Get a Report Template

Description
Get a Report Template

Usage
templates_get_reports(id)

Arguments
id integer required.

Value
A list containing the following elements:
id integer,
name string, The name of the template.
category string, The category of this report template. Can be left blank. Acceptable values are: dataset-viz
createdAt string,
templates_get_scripts

Get a Script Template

Description

Get a Script Template

Usage

templates_get_scripts(id)

Arguments

id integer required.

Value

A list containing the following elements:

id integer,
public boolean, If the template is public or not.
scriptId integer, The id of the script that this template uses.
scriptType string, The type of the template’s backing script (e.g SQL, Container, Python, R, JavaScript)
userContext string, The user context of the script that this template uses.
name string, The name of the template.
category string, The category of this template.
note          string, A note describing what this template is used for; custom scripts created off this template will display this description.
createdAt     string,
updatedAt     string,
useCount      integer, The number of uses of this template.
uiReportId    integer, The id of the report that this template uses.
technicalReview boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
archived      boolean, Whether the template has been archived.
hidden        boolean, The hidden status of the item.

---

**templates_list_reports**

*List Report Templates*

**Description**

List Report Templates

**Usage**

```python
templates_list_reports(
    hidden = NULL,
    category = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

- **hidden** boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
- **category** string optional. A category to filter results by, one of: dataset-viz
- **limit** integer optional. Number of results to return. Defaults to 50. Maximum allowed is 1000.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to name. Must be one of: name, updated_at, created_at.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.
Value

An array containing the following fields:

- id \(\text{integer}\),
- name \(\text{string}\), The name of the template.
- category \(\text{string}\), The category of this report template. Can be left blank. Acceptable values are: dataset-viz
- createdAt \(\text{string}\),
- updatedAt \(\text{string}\),
- useCount \(\text{integer}\), The number of uses of this template.
- archived \(\text{boolean}\), Whether the template has been archived.
- author \(\text{list}\), A list containing the following elements:
  - id \(\text{integer}\), The ID of this user.
  - name \(\text{string}\), This user’s name.
  - username \(\text{string}\), This user’s username.
  - initials \(\text{string}\), This user’s initials.
  - online \(\text{boolean}\), Whether this user is online.
- techReviewed \(\text{boolean}\), Whether this template has been audited by Civis for security vulnerability and correctness.

Description

List users and groups permissioned on this object

Usage

\texttt{templates_list_reports_shares(id)}

Arguments

- id \(\text{integer\ required. The ID of the resource that is shared.}\)

Value

An array containing the following fields:

- readers \(\text{list}\), A list containing the following elements:
  - users \(\text{array}\),
  - groups \(\text{array}\),
writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

templates_list_scripts

List Script Templates

Description

List Script Templates

Usage

```r
templates_list_scripts(
  hidden = NULL,
  category = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

Arguments

- **hidden** boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
- **category** string optional. A category to filter results by, one of: import, export, enhancement, model, and script
- **limit** integer optional. Number of results to return. Defaults to 50. Maximum allowed is 1000.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to name. Must be one of: name, updated_at, created_at.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.
Value

An array containing the following fields:

- id: integer
- public: boolean, If the template is public or not.
- scriptId: integer, The id of the script that this template uses.
- userContext: string, The user context of the script that this template uses.
- name: string, The name of the template.
- category: string, The category of this template.
- createdAt: string,
- updatedAt: string,
- useCount: integer, The number of uses of this template.
- uiReportId: integer, The id of the report that this template uses.
- techReviewed: boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
- archived: boolean, Whether the template has been archived.

templates_list_scripts_projects

List the projects a Script Template belongs to

Description

List the projects a Script Template belongs to

Usage

templates_list_scripts_projects(id, hidden = NULL)

Arguments

- id: integer required. The ID of the Script Template.
- hidden: boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value

An array containing the following fields:

- id: integer, The ID for this project.
- author: list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
templates_list_scripts_shares

• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

name string, The name of this project.
description string, A description of the project.
users array, An array containing the following fields:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

autoShare boolean,
createdAt string,
updatedAt string,
archived string, The archival status of the requested item(s).

templates_list_scripts_shares

List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

templates_list_scripts_shares(id)

Arguments

id integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
templates_patch_reports

• users array,
• groups array,

totalUserShares
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

templates_patch_reports

Update some attributes of this Report Template

---

**Description**

Update some attributes of this Report Template

**Usage**

```
templates_patch_reports(
  id,
  name = NULL,
  category = NULL,
  archived = NULL,
  code_body = NULL,
  provide_api_key = NULL
)
```

**Arguments**

- **id** integer required.
- **name** string optional. The name of the template.
- **category** string optional. The category of this report template. Can be left blank. Acceptable values are: dataset-viz
- **archived** boolean optional. Whether the template has been archived.
- **code_body** string optional. The code for the Template body.
- **provide_api_key** boolean optional. Whether reports based on this template request an API Key from the report viewer.
Value

A list containing the following elements:

- **id**: integer,
- **name**: string, The name of the template.
- **category**: string, The category of this report template. Can be left blank. Acceptable values are: dataset-viz
- **createdAt**: string,
- **updatedAt**: string,
- **useCount**: integer, The number of uses of this template.
- **archived**: boolean, Whether the template has been archived.
- **author**: list, A list containing the following elements:
  - **id**: integer, The ID of this user.
  - **name**: string, This user’s name.
  - **username**: string, This user’s username.
  - **initials**: string, This user’s initials.
  - **online**: boolean, Whether this user is online.
- **techReviewed**: boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
- **authCodeUrl**: string, A URL to the template’s stored code body.
- **provideAPIKey**: boolean, Whether reports based on this template request an API Key from the report viewer.
- **hidden**: boolean, The hidden status of the item.

---

**templates_patch_scripts**

*Update some attributes of this Script Template*

---

Description

Update some attributes of this Script Template

Usage

```python
templates_patch_scripts(
    id,
    name = NULL,
    note = NULL,
    ui_report_id = NULL,
    archived = NULL
)
```
templates_post_reports

**Arguments**

- **id** integer required.
- **name** string optional. The name of the template.
- **note** string optional. A note describing what this template is used for; custom scripts created off this template will display this description.
- **ui_report_id** integer optional. The id of the report that this template uses.
- **archived** boolean optional. Whether the template has been archived.

**Value**

A list containing the following elements:

- **id** integer,
- **public** boolean, If the template is public or not.
- **scriptId** integer, The id of the script that this template uses.
- **scriptType** string, The type of the template’s backing script (e.g SQL, Container, Python, R, JavaScript)
- **userContext** string, The user context of the script that this template uses.
- **name** string, The name of the template.
- **category** string, The category of this template.
- **note** string, A note describing what this template is used for; custom scripts created off this template will display this description.
- **createdAt** string,
- **updatedAt** string,
- **useCount** integer, The number of uses of this template.
- **uiReportId** integer, The id of the report that this template uses.
- **techReviewed** boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
- **archived** boolean, Whether the template has been archived.
- **hidden** boolean, The hidden status of the item.

---

*templates_post_reports*

*Create a Report Template*

---

**Description**

Create a Report Template
Usage

templates_post_reports(
    name,
    code_body,
    category = NULL,
    archived = NULL,
    provide_api_key = NULL,
    hidden = NULL
)

Arguments

name    string required. The name of the template.
code_body    string required. The code for the Template body.
category    string optional. The category of this report template. Can be left blank. Acceptable values are: dataset-viz
archived    boolean optional. Whether the template has been archived.
provide_api_key    boolean optional. Whether reports based on this template request an API Key from the report viewer.
hidden    boolean optional. The hidden status of the item.

Value

A list containing the following elements:

id    integer,
name    string, The name of the template.
category    string, The category of this report template. Can be left blank. Acceptable values are: dataset-viz
createdAt    string,
updatedAt    string,
useCount    integer, The number of uses of this template.
archived    boolean, Whether the template has been archived.
author    list, A list containing the following elements:
    • id integer, The ID of this user.
    • name string, This user’s name.
    • username string, This user’s username.
    • initials string, This user’s initials.
    • online boolean, Whether this user is online.
technicalReviewed    boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
authCodeUrl    string, A URL to the template’s stored code body.
provideAPIKey  boolean, Whether reports based on this template request an API Key from the report viewer.

hidden  boolean, The hidden status of the item.

**templates_post_reports_review**

_Review a template for security vulnerability and correctness (admin-only)_

**Description**

Review a template for security vulnerability and correctness (admin-only)

**Usage**

`templates_post_reports_review(id, status)`

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the item.</td>
</tr>
<tr>
<td>status</td>
<td>boolean required. Whether this item has been reviewed.</td>
</tr>
</tbody>
</table>

**Value**

A list containing the following elements:

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer,</td>
</tr>
<tr>
<td>name</td>
<td>string, The name of the template.</td>
</tr>
<tr>
<td>category</td>
<td>string, The category of this report template. Can be left blank. Acceptable values are: dataset-viz</td>
</tr>
<tr>
<td>createdAt</td>
<td>string,</td>
</tr>
<tr>
<td>updatedAt</td>
<td>string,</td>
</tr>
<tr>
<td>useCount</td>
<td>integer, The number of uses of this template.</td>
</tr>
<tr>
<td>archived</td>
<td>boolean, Whether the template has been archived.</td>
</tr>
<tr>
<td>author</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id integer, The ID of this user.</td>
</tr>
<tr>
<td></td>
<td>• name string, This user’s name.</td>
</tr>
<tr>
<td></td>
<td>• username string, This user’s username.</td>
</tr>
<tr>
<td></td>
<td>• initials string, This user’s initials.</td>
</tr>
<tr>
<td></td>
<td>• online boolean, Whether this user is online.</td>
</tr>
<tr>
<td>techReviewed</td>
<td>boolean, Whether this template has been audited by Civis for security vulnerability and correctness.</td>
</tr>
<tr>
<td>authCodeUrl</td>
<td>string, A URL to the template’s stored code body.</td>
</tr>
<tr>
<td>provideAPIKey</td>
<td>boolean, Whether reports based on this template request an API Key from the report viewer.</td>
</tr>
<tr>
<td>hidden</td>
<td>boolean, The hidden status of the item.</td>
</tr>
</tbody>
</table>
templates_post_scripts

Create a Script Template

Description

Create a Script Template

Usage

templates_post_scripts(
    script_id,
    name,
    note = NULL,
    ui_report_id = NULL,
    archived = NULL,
    hidden = NULL
)

Arguments

script_id   integer required. The id of the script that this template uses.
name        string required. The name of the template.
note        string optional. A note describing what this template is used for; custom scripts created off this template will display this description.
ui_report_id integer optional. The id of the report that this template uses.
archived    boolean optional. Whether the template has been archived.
hidden      boolean optional. The hidden status of the item.

Value

A list containing the following elements:

id          integer,
public      boolean, If the template is public or not.
scriptId     integer, The id of the script that this template uses.
scriptType  string, The type of the template’s backing script (e.g SQL, Container, Python, R, JavaScript)
userContext string, The user context of the script that this template uses.
name        string, The name of the template.
category    string, The category of this template.
note        string, A note describing what this template is used for; custom scripts created off this template will display this description.
templates_post_scripts_review

Review a template for security vulnerability and correctness (admin-only)

Description

Review a template for security vulnerability and correctness (admin-only)

Usage

templates_post_scripts_review(id, status)

Arguments

id integer required. The ID of the item.
status boolean required. Whether this item has been reviewed.

Value

A list containing the following elements:

id integer,
pUBLIC boolean, If the template is public or not.
scriptId integer, The id of the script that this template uses.
scriptType string, The type of the template’s backing script (e.g SQL, Container, Python, R, JavaScript)
userContext string, The user context of the script that this template uses.
name string, The name of the template.
category string, The category of this template.
note string, A note describing what this template is used for; custom scripts created off this template will display this description.
createdAt string,
updatedAt string,
useCount integer, The number of uses of this template.
uiReportId integer, The id of the report that this template uses.
techReviewed boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
ar archived boolean, Whether the template has been archived.
hidden boolean, The hidden status of the item.

templates_put_reports  Replace all attributes of this Report Template

Description
Replace all attributes of this Report Template

Usage

templates_put_reports(
id,
name,
code_body,
category = NULL,
ar archived = NULL,
provide_api_key = NULL
)

Arguments
	id integer required.
	name string required. The name of the template.
code_body string required. The code for the Template body.
category string optional. The category of this report template. Can be left blank. Acceptable values are: dataset-viz
ar archived boolean optional. Whether the template has been archived.
provide_api_key boolean optional. Whether reports based on this template request an API Key from the report viewer.

Value
A list containing the following elements:
	id integer,
	name string, The name of the template.
category string, The category of this report template. Can be left blank. Acceptable values are: dataset-viz
templates_put_reports_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

templates_put_reports_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)

Arguments

id integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.
Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**templates_put_reports_shares_users**

*Set the permissions users have on this object*

---

Description

Set the permissions users have on this object

Usage

```python
templates_put_reports_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

Arguments

- **id** integer required. The ID of the resource that is shared.
- **user_ids** array required. An array of one or more user IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.
Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

**templates_put_scripts**  
*Replace all attributes of this Script Template*

**Description**

Replace all attributes of this Script Template

**Usage**

```r
templates_put_scripts(
  id,
  name,
  note = NULL,
  ui_report_id = NULL,
  archived = NULL
)
```

**Arguments**

- **id** integer required.
- **name** string required. The name of the template.
- **note** string optional. A note describing what this template is used for; custom scripts created off this template will display this description.
- **ui_report_id** integer optional. The id of the report that this template uses.
- **archived** boolean optional. Whether the template has been archived.
Value

A list containing the following elements:

- **id**: integer,
- **public**: boolean, If the template is public or not.
- **scriptId**: integer, The id of the script that this template uses.
- **scriptType**: string, The type of the template’s backing script (e.g SQL, Container, Python, R, JavaScript)
- **userContext**: string, The user context of the script that this template uses.
- **name**: string, The name of the template.
- **category**: string, The category of this template.
- **note**: string, A note describing what this template is used for; custom scripts created off this template will display this description.
- **createdAt**: string,
- **updatedAt**: string,
- **useCount**: integer, The number of uses of this template.
- **uiReportId**: integer, The id of the report that this template uses.
- **techReviewed**: boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
- **archived**: boolean, Whether the template has been archived.
- **hidden**: boolean, The hidden status of the item.

---

templates_put_scripts_projects

*Add a Script Template to a project*

Description

Add a Script Template to a project

Usage

```
templates_put_scripts_projects(id, project_id)
```

Arguments

- **id**: integer required. The ID of the Script Template.
- **project_id**: integer required. The ID of the project.

Value

An empty HTTP response
templates_put_scripts_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

```python
templates_put_scripts_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

Arguments

id integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares
integer. For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

templates_put_scripts_shares_users
Set the permissions users have on this object

Description
Set the permissions users have on this object

Usage
templates_put_scripts_shares_users(
id,
user_ids,
permission_level,
share_email_body = NULL,
send_shared_email = NULL
)

Arguments
id integer required. The ID of the resource that is shared.
user_ids array required. An array of one or more user IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value
A list containing the following elements:
readers list, A list containing the following elements:
  • users array,
  • groups array,
writers list, A list containing the following elements:
  • users array,
  • groups array,
owners list, A list containing the following elements:
  • users array,
• groups array,

  totalUserShares
  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

  totalGroupShares
  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**transfer_table**

*Transfer a table from one location to another.*

**Description**

Transfer a table from one location to another.

**Usage**

```r
transfer_table(
  source_db, 
  dest_db, 
  source_table, 
  dest_table, 
  job_name = NULL, 
  source_credential_id = NULL, 
  dest_credential_id = NULL, 
  interval = NULL, 
  verbose = FALSE, 
  advanced_options = NULL 
)
```

**Arguments**

- `source_db` string or int, The name of the database where the source table is located. Optionally, could be the database ID.
- `dest_db` string or int, The name of the database where the table will be transferred. Optionally, could be the database ID.
- `source_table` string, Full name of the table to transfer, e.g., "schema.table".
- `dest_table` string, Full name of the table in the destination database, e.g., "schema.table".
- `job_name` string, optional, A name to give the job. If omitted, a random job name will be used.
- `source_credential_id` string or int, Optional credential ID for the source database. If NULL, the default credential will be used.
- `dest_credential_id` string or int, Optional credential ID for the source database. If NULL, the default credential will be used.
Value

A `civis_api` object.

See Also

Other tables: `get_table_id()`, `refresh_table()`

Examples

```r
## Not run:
transfer_table(source_db='Cluster A', dest_db='Cluster B',
    source_table='schma.tbl', dest_table='schma.tbl')
## End(Not run)
```

---

**users_delete_api_keys**  *Revoke the specified API key*

**Description**

Revoke the specified API key

**Usage**

`users_delete_api_keys(id, key_id)`

**Arguments**

- `id`  *string required*. The ID of the user or 'me'.
- `key_id`  *integer required*. The ID of the API key.

**Value**

A list containing the following elements:

- `id`  *integer*. The ID of the API key.
- `name`  *string*. The name of the API key.
- `expiresAt`  *string*. The date and time when the key expired.
- `createdAt`  *string*. The date and time when the key was created.
- `revokedAt`  *string*. The date and time when the key was revoked.
users_delete_me_favorites

Unfavorite an item

Description

Unfavorite an item

Usage

users_delete_me_favorites(id)

Arguments

id    integer required. The id of the favorite.

Value

An empty HTTP response

lastUsedAt  string, The date and time when the key was last used.
scopes  array, The scopes which the key is permissioned on.
useCount  integer, The number of times the key has been used.
expired  boolean, True if the key has expired.
active  boolean, True if the key has neither expired nor been revoked.
constraints  array, An array containing the following fields:
  • constraint string, The path matcher of the constraint.
  • constraintType string, The type of constraint (exact/prefix/regex/verb).
  • getAllowed boolean, Whether the constraint allows GET requests.
  • headAllowed boolean, Whether the constraint allows HEAD requests.
  • postAllowed boolean, Whether the constraint allows POST requests.
  • putAllowed boolean, Whether the constraint allows PUT requests.
  • patchAllowed boolean, Whether the constraint allows PATCH requests.
  • deleteAllowed boolean, Whether the constraint allows DELETE requests.
users_get

Show info about a user

Description

Show info about a user

Usage

users_get(id)

Arguments

id integer required. The ID of this user.

Value

A list containing the following elements:

- id integer, The ID of this user.
- user string, The username of this user.
- name string, The name of this user.
- email string, The email of this user.
- active boolean, The account status of this user.
- primaryGroupId integer, The ID of the primary group of this user.
- groups array, An array containing the following fields:
  - id integer, The ID of this group.
  - name string, The name of this group.
  - organizationId integer, The organization associated with this group.
- city string, The city of this user.
- state string, The state of this user.
- timeZone string, The time zone of this user.
- initials string, The initials of this user.
- department string, The department of this user.
- title string, The title of this user.
- githubUsername string, The GitHub username of this user.
- prefersSmsOtp boolean, The preference for phone authorization of this user
- vpnEnabled boolean, The availability of vpn for this user.
- ssoDisabled boolean, The availability of SSO for this user.
- otpRequiredForLogin boolean, The two factor authentication requirement for this user.
users_get_api_keys

Show the specified API key

**Description**

Show the specified API key

**Usage**

users_get_api_keys(id, key_id)

**Arguments**

- **id** string required. The ID of the user or 'me'.
- **key_id** integer required. The ID of the API key.

**Value**

A list containing the following elements:

- **id** integer, The ID of the API key.
- **name** string, The name of the API key.
- **expires_at** string, The date and time when the key expired.
- **created_at** string, The date and time when the key was created.
- **revoked_at** string, The date and time when the key was revoked.
- **last_used_at** string, The date and time when the key was last used.
- **scopes** array, The scopes which the key is permissioned on.
- **use_count** integer, The number of times the key has been used.

**Fields**

- **exempt_fromOrgSmsOtpDisabled** boolean, Whether the user has SMS OTP enabled on an individual level. This field does not matter if the org does not have SMS OTP disabled.
- **smsOtpAllowed** boolean, Whether the user is allowed to receive two factor authentication codes via SMS.
- **robot** boolean, Whether the user is a robot.
- **phone** string, The phone number of this user.
- **organizationSlug** string, The slug of the organization the user belongs to.
- **organizationSSODisableCapable** boolean, The user’s organization’s ability to disable sso for their users.
- **organizationLoginType** string, The user’s organization’s login type.
- **organizationSmsOtpDisabled** boolean, Whether the user’s organization has SMS OTP disabled.
users_list

Description
List users

Usage
users_list(
    feature_flag = NULL,
    account_status = NULL,
    query = NULL,
    group_id = NULL,
    organization_id = NULL,
    exclude_groups = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments
feature_flag string optional. Return users that have a feature flag enabled.
account_status string optional. The account status by which to filter users. May be one of "active", "inactive", or "all".
query string optional. Return users who match the given query, based on name, user, and email.
group_id integer optional. The ID of the group by which to filter users. Cannot be present if organization_id is.
users_list_api_keys

organization_id
integer optional. The ID of the organization by which to filter users. Cannot be present if group_id is.

exclude_groups
boolean optional. Whether or to exclude users’ groups. Default: false.

limit
integer optional. Number of results to return. Defaults to 20. Maximum allowed is 10000.

page_num
integer optional. Page number of the results to return. Defaults to the first page, 1.

order
string optional. The field on which to order the result set. Defaults to name. Must be one of: name, user.

order_dir
string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

Value
An array containing the following fields:

id
integer, The ID of this user.

user
string, The username of this user.

name
string, The name of this user.

email
string, The email of this user.

active
boolean, The account status of this user.

primaryGroupId
integer, The ID of the primary group of this user.

groups
array. An array containing the following fields:

  • id integer, The ID of this group.
  • name string, The name of this group.
  • organizationId integer, The organization associated with this group.

createdAt
string, The date and time when the user was created.

currentSignInAt
string, The date and time when the user’s current session began.

users_list_api_keys  Show API keys belonging to the specified user

description
Show API keys belonging to the specified user

Usage

users_list_api_keys(
  id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
Arguments

- **id**: string required. The ID of the user or 'me'.
- **limit**: integer optional. Number of results to return. Defaults to its maximum of 50.
- **page_num**: integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**: string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
- **order_dir**: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **id**: integer, The ID of the API key.
- **name**: string, The name of the API key.
- **expiresAt**: string, The date and time when the key expired.
- **createdAt**: string, The date and time when the key was created.
- **revokedAt**: string, The date and time when the key was revoked.
- **lastUsedAt**: string, The date and time when the key was last used.
- **scopes**: array, The scopes which the key is permissioned on.
- **useCount**: integer, The number of times the key has been used.
- **expired**: boolean, True if the key has expired.
- **active**: boolean, True if the key has neither expired nor been revoked.
- **constraintCount**: integer, The number of constraints on the created key

---

**users_list_me**  
*Show info about the logged-in user*

Description

Show info about the logged-in user

Usage

```javascript
users_list_me()
```
**Value**

A list containing the following elements:

- **id** integer, The ID of this user.
- **name** string, This user’s name.
- **email** string, This user’s email address.
- **username** string, This user’s username.
- **initials** string, This user’s initials.
- **lastCheckedAnnouncements** string, The date and time at which the user last checked their announcements.
- **featureFlags** list, The feature flag settings for this user.
- **roles** array, The roles this user has, listed by slug.
- **preferences** list, This user’s preferences.
- **customBranding** string, The branding of Platform for this user.
- **primaryGroupId** integer, The ID of the primary group of this user.
- **groups** array, An array containing the following fields:
  - **id** integer, The ID of this group.
  - **name** string, The name of this group.
  - **organizationId** integer, The organization associated with this group.
- **organizationName** string, The name of the organization the user belongs to.
- **organizationSlug** string, The slug of the organization the user belongs to.
- **organizationDefaultThemeId** integer, The ID of the organization’s default theme.
- **createdAt** string, The date and time when the user was created.
- **signInCount** integer, The number of times the user has signed in.
- **assumingRole** boolean, Whether the user is assuming a role or not.
- **assumingAdmin** boolean, Whether the user is assuming admin.
- **assumingAdminExpiration** string, When the user’s admin role is set to expire.

**Description**

List Favorites
Usage

```java
users_list_me_favorites(
    object_id = NULL,
    object_type = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

- `object_id`: integer optional. The id of the object. If specified as a query parameter, must also specify `object_type` parameter.
- `object_type`: string optional. The type of the object that is favorited. Valid options: Project
- `limit`: integer optional. Number of results to return. Defaults to 50. Maximum allowed is 1000.
- `page_num`: integer optional. Page number of the results to return. Defaults to the first page, 1.
- `order`: string optional. The field on which to order the result set. Defaults to `created_at`. Must be one of: `created_at`, `object_type`, `object_id`.
- `order_dir`: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- `id`: integer, The id of the favorite.
- `objectId`: integer, The id of the object. If specified as a query parameter, must also specify `object_type` parameter.
- `objectType`: string, The type of the object that is favorited. Valid options: Project
- `objectName`: string, The name of the object that is favorited.
- `createdAt`: string, The time this favorite was created.

---

```
users_list_me_ui  UI configuration for logged-in user
```

Description

UI configuration for logged-in user

Usage

```java
users_list_me_ui()
```
Value

A list containing the following elements:

- id integer, The ID of this user.
- navigationMenus list, Navigation menus visible to this user.
- userMenus list, User profile menu items available to this user.
- userType list, A list containing the following elements:
  - vendor boolean, This attribute is deprecated
  - media boolean, True if user has access to the Media Optimizer job type.
  - mainApp string, The slug for the main app for an app-only user account.
  - appCount integer, Number of apps this user has access to.
  - reportsOnly boolean, True if user is a reports-only user.
  - reportsCreator boolean, True if this user is allowed to create HTML reports.
- zendeskToken string, JSON web token for this user’s Zendesk widget.

users_patch

Update info about a user (must be an admin or client user admin)

Description

Update info about a user (must be an admin or client user admin)

Usage

users_patch(
  id,
  name = NULL,
  email = NULL,
  active = NULL,
  primary_group_id = NULL,
  city = NULL,
  state = NULL,
  time_zone = NULL,
  initials = NULL,
  department = NULL,
  title = NULL,
  prefers_sms_otp = NULL,
  group_ids = NULL,
  vpn_enabled = NULL,
  sso_disabled = NULL,
  otp_required_for_login = NULL,
  exempt_from_org_sms_otp_disabled = NULL,
  robot = NULL,
  phone = NULL,
  password = NULL
)
Arguments

- **id**: integer required. The ID of this user.
- **name**: string optional. The name of this user.
- **email**: string optional. The email of this user.
- **active**: boolean optional. The account status of this user.
- **primary_group_id**: integer optional. The ID of the primary group of this user.
- **city**: string optional. The city of this user.
- **state**: string optional. The state of this user.
- **time_zone**: string optional. The time zone of this user.
- **initials**: string optional. The initials of this user.
- **department**: string optional. The department of this user.
- **title**: string optional. The title of this user.
- **prefers_sms_otp**: boolean optional. The preference for phone authorization of this user
- **group_ids**: array optional. An array of ids of all the groups this user is in.
- **vpn_enabled**: boolean optional. The availability of vpn for this user.
- **sso_disabled**: boolean optional. The availability of SSO for this user.
- **otp_required_for_login**: boolean optional. The two factor authentication requirement for this user.
- **exempt_from_org_sms_otp_disabled**: boolean optional. Whether the user has SMS OTP enabled on an individual level. This field does not matter if the org does not have SMS OTP disabled.
- **robot**: boolean optional. Whether the user is a robot.
- **phone**: string optional. The phone number of this user.
- **password**: string optional. The password of this user.

Value

A list containing the following elements:

- **id**: integer, The ID of this user.
- **user**: string, The username of this user.
- **name**: string, The name of this user.
- **email**: string, The email of this user.
- **active**: boolean, The account status of this user.
- **primary_group_id**: integer, The ID of the primary group of this user.
- **groups**: array, An array containing the following fields:
  - **id**: integer, The ID of this group.
  - **name**: string, The name of this group.
  - **organizationId**: integer, The organization associated with this group.
users_patch_me

Description

Update info about the logged-in user

Usage

users_patch_me(preferences = NULL, last_checked_announcements = NULL)
Arguments

preferences list optional. A list containing the following elements:

- appIndexOrderField string, Order field for the apps index pages.
- appIndexOrderDir string, Order direction for the apps index pages.
- resultIndexOrderField string, Order field for the results index page.
- resultIndexOrderDir string, Order direction for the results index page.
- resultIndexTypeFilter string, Type filter for the results index page.
- resultIndexAuthorFilter string, Author filter for the results index page.
- resultIndexArchivedFilter string, Archived filter for the results index page.
- importIndexOrderField string, Order field for the imports index page.
- importIndexOrderDir string, Order direction for the imports index page.
- importIndexTypeFilter string, Type filter for the imports index page.
- importIndexAuthorFilter string, Author filter for the imports index page.
- importIndexDestFilter string, Destination filter for the imports index page.
- importIndexStatusFilter string, Status filter for the imports index page.
- importIndexArchivedFilter string, Archived filter for the imports index page.
- exportIndexOrderField string, Order field for the exports index page.
- exportIndexOrderDir string, Order direction for the exports index page.
- exportIndexTypeFilter string, Type filter for the exports index page.
- exportIndexAuthorFilter string, Author filter for the exports index page.
- exportIndexStatusFilter string, Status filter for the exports index page.
- exportIndexArchivedFilter string, Archived filter for the exports index page.
- modelIndexOrderField string, Order field for the models index page.
- modelIndexOrderDir string, Order direction for the models index page.
- modelIndexAuthorFilter string, Author filter for the models index page.
- modelIndexStatusFilter string, Status filter for the models index page.
- modelIndexArchivedFilter string, Archived filter for the models index page.
- modelIndexThumbnailView string, Thumbnail view for the models index page.
- scriptIndexOrderField string, Order field for the scripts index page.
- scriptIndexOrderDir string, Order direction for the scripts index page.
- scriptIndexTypeFilter string, Type filter for the scripts index page.
- scriptIndexAuthorFilter string, Author filter for the scripts index page.
- scriptIndexStatusFilter string, Status filter for the scripts index page.
- scriptIndexArchivedFilter string, Archived filter for the scripts index page.
- projectIndexOrderField string, Order field for the projects index page.
- projectIndexOrderDir string, Order direction for the projects index page.
- projectIndexAuthorFilter string, Author filter for the projects index page.
- projectIndexArchivedFilter string, Archived filter for the projects index page.
- reportIndexThumbnailView string, Thumbnail view for the reports index page.
- projectDetailOrderField string, Order field for projects detail pages.
- projectDetailOrderDir string, Order direction for projects detail pages.
• projectDetailAuthorFilter string, Author filter for projects detail pages.
• projectDetailTypeFilter string, Type filter for projects detail pages.
• projectDetailArchivedFilter string, Archived filter for the projects detail pages.
• enhancementIndexOrderField string, Order field for the enhancements index page.
• enhancementIndexOrderDir string, Order direction for the enhancements index page.
• enhancementIndexAuthorFilter string, Author filter for the enhancements index page.
• enhancementIndexArchivedFilter string, Archived filter for the enhancements index page.
• preferredServerId integer, ID of preferred server.
• civisExploreSkipIntro boolean, Whether the user is shown steps for each exploration.
• registrationIndexOrderField string, Order field for the registrations index page.
• registrationIndexOrderDir string, Order direction for the registrations index page.
• registrationIndexStatusFilter string, Status filter for the registrations index page.
• upgradeRequested string, Whether a free trial upgrade has been requested.
• welcomeOrderField string, Order direction for the welcome page.
• welcomeOrderDir string, Order direction for the welcome page.
• welcomeAuthorFilter string, Status filter for the welcome page.
• welcomeStatusFilter string, Status filter for the welcome page.
• welcomeArchivedFilter string, Status filter for the welcome page.
• dataPaneWidth string, Width of the data pane when expanded.
• dataPaneCollapsed string, Whether the data pane is collapsed.
• notebookOrderField string, Order field for the notebooks page.
• notebookOrderDir string, Order direction for the notebooks page.
• notebookAuthorFilter string, Author filter for the notebooks page.
• notebookArchivedFilter string, Archived filter for the notebooks page.
• notebookStatusFilter string, Status filter for the notebooks page.
• workflowIndexOrderField string, Order field for the workflows page.
• workflowIndexOrderDir string, Order direction for the workflows page.
• workflowIndexAuthorFilter string, Author filter for the workflows page.
• workflowIndexArchivedFilter string, Archived filter for the workflows page.
• serviceOrderField string, Order field for the services page.
• serviceOrderDir string, Order direction for the services page.
• serviceAuthorFilter string, Author filter for the services page.
• serviceArchivedFilter string, Archived filter for the services page.

last_checked_announcements

string optional. The date and time at which the user last checked their announcements.
Value

A list containing the following elements:

- **id** integer, The ID of this user.
- **name** string, This user’s name.
- **email** string, This user’s email address.
- **username** string, This user’s username.
- **initials** string, This user’s initials.
- **lastCheckedAnnouncements** string, The date and time at which the user last checked their announcements.
- **featureFlags** list, The feature flag settings for this user.
- **roles** array, The roles this user has, listed by slug.
- **preferences** list, This user’s preferences.
- **customBranding** string, The branding of Platform for this user.
- **primaryGroupId** integer, The ID of the primary group of this user.
- **groups** array, An array containing the following fields:
  - **id** integer, The ID of this group.
  - **name** string, The name of this group.
  - **organizationId** integer, The organization associated with this group.
- **organizationName** string, The name of the organization the user belongs to.
- **organizationSlug** string, The slug of the organization the user belongs to.
- **organizationDefaultThemeId** integer, The ID of the organization’s default theme.
- **createdAt** string, The date and time when the user was created.
- **signInCount** integer, The number of times the user has signed in.
- **assumingRole** boolean, Whether the user is assuming a role or not.
- **assumingAdmin** boolean, Whether the user is assuming admin.
- **assumingAdminExpiration** string, When the user’s admin role is set to expire.
Create a new user (must be an admin or client user admin)

Usage

users_post(
    name,
    email,
    primary_group_id,
    user,
    active = NULL,
    city = NULL,
    state = NULL,
    time_zone = NULL,
    initials = NULL,
    department = NULL,
    title = NULL,
    prefers_sms_otp = NULL,
    group_ids = NULL,
    vpn_enabled = NULL,
    sso_disabled = NULL,
    otp_required_for_login = NULL,
    exempt_from_org_sms_otp_disabled = NULL,
    robot = NULL,
    send_email = NULL
)

Arguments

name string required. The name of this user.
email string required. The email of this user.
primary_group_id integer required. The ID of the primary group of this user.
user string required. The username of this user.
active boolean optional. The account status of this user.
city string optional. The city of this user.
state string optional. The state of this user.
time_zone string optional. The time zone of this user.
initials string optional. The initials of this user.
department string optional. The department of this user.
title  string optional. The title of this user.
prefers_sms_otp  boolean optional. The preference for phone authorization of this user
group_ids  array optional. An array of ids of all the groups this user is in.
vpn_enabled  boolean optional. The availability of vpn for this user.
sso_disabled  boolean optional. The availability of SSO for this user.
otp_required_for_login  boolean optional. The two factor authentication requirement for this user.
exempt_from_org_sms_otp_disabled  boolean optional. Whether the user has SMS OTP enabled on an individual level. This field does not matter if the org does not have SMS OTP disabled.
robot  boolean optional. Whether the user is a robot.
send_email  boolean optional. Whether the user will receive a welcome email.

**Value**

A list containing the following elements:

- id  integer, The ID of this user.
- user  string, The username of this user.
- name  string, The name of this user.
- email  string, The email of this user.
- active  boolean, The account status of this user.
- primaryGroupId  integer, The ID of the primary group of this user.
- groups  array, An array containing the following fields:
  - id  integer, The ID of this group.
  - name  string, The name of this group.
  - organizationId  integer, The organization associated with this group.
- city  string, The city of this user.
- state  string, The state of this user.
- timeZone  string, The time zone of this user.
- initials  string, The initials of this user.
- department  string, The department of this user.
- title  string, The title of this user.
- githubUsername  string, The GitHub username of this user.
- prefersSmsOtp  boolean, The preference for phone authorization of this user
- vpnEnabled  boolean, The availability of vpn for this user.
- ssoDisabled  boolean, The availability of SSO for this user.
- otpRequiredForLogin  boolean, The two factor authentication requirement for this user.
users_post_api_keys

Create a new API key belonging to the logged-in user

Description

Create a new API key belonging to the logged-in user

Usage

users_post_api_keys(id, expires_in, name, constraints = NULL)

Arguments

id string required. The ID of the user or 'me'.
expires_in integer required. The number of seconds the key should last for.
name string required. The name of the API key.
constraints array optional. An array containing the following fields:
  • constraint string, The path matcher of the constraint.
  • constraintType string, The type of constraint (exact/prefix/regex/verb).
  • getAllowed boolean, Whether the constraint allows GET requests.
  • headAllowed boolean, Whether the constraint allows HEAD requests.
  • postAllowed boolean, Whether the constraint allows POST requests.
  • putAllowed boolean, Whether the constraint allows PUT requests.
  • patchAllowed boolean, Whether the constraint allows PATCH requests.
  • deleteAllowed boolean, Whether the constraint allows DELETE requests.
Value
A list containing the following elements:

- id integer, The ID of the API key.
- name string, The name of the API key.
- expiresAt string, The date and time when the key expired.
- createdAt string, The date and time when the key was created.
- revokedAt string, The date and time when the key was revoked.
- lastUsedAt string, The date and time when the key was last used.
- scopes array, The scopes which the key is permissioned on.
- useCount integer, The number of times the key has been used.
- expired boolean, True if the key has expired.
- active boolean, True if the key has neither expired nor been revoked.
- constraints array, An array containing the following fields:
  - constraint string, The path matcher of the constraint.
  - constraintType string, The type of constraint (exact/prefix/regex/verb).
  - getAllowed boolean, Whether the constraint allows GET requests.
  - headAllowed boolean, Whether the constraint allows HEAD requests.
  - postAllowed boolean, Whether the constraint allows POST requests.
  - putAllowed boolean, Whether the constraint allows PUT requests.
  - patchAllowed boolean, Whether the constraint allows PATCH requests.
  - deleteAllowed boolean, Whether the constraint allows DELETE requests.
- token string, The API key.

users_post_me_favorites
Favorite an item

Description
Favorite an item

Usage
users_post_me_favorites(object_id, object_type)

Arguments
- object_id integer required. The id of the object. If specified as a query parameter, must also specify object_type parameter.
- object_type string required. The type of the object that is favorited. Valid options: Project
**Value**

A list containing the following elements:

- **id** integer, The id of the favorite.
- **objectId** integer, The id of the object. If specified as a query parameter, must also specify object_type parameter.
- **objectType** string, The type of the object that is favorited. Valid options: Project
- **objectName** string, The name of the object that is favorited.
- **createdAt** string, The time this favorite was created.

---

**workflows_delete_projects**

*Remove a Workflow from a project*

---

**Description**

Remove a Workflow from a project

**Usage**

`workflows_delete_projects(id, project_id)`

**Arguments**

- **id** integer required. The ID of the Workflow.
- **project_id** integer required. The ID of the project.

**Value**

An empty HTTP response

---

**workflows_delete_shares_groups**

*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

`workflows_delete_shares_groups(id, group_id)`
workflows_get

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>required. The ID of the resource that is shared.</td>
</tr>
<tr>
<td>group_id</td>
<td>integer</td>
<td>required. The ID of the group.</td>
</tr>
</tbody>
</table>

Value

An empty HTTP response

workflows_delete_shares_users

Revoke the permissions a user has on this object

Description

Revoke the permissions a user has on this object

Usage

workflows_delete_shares_users(id, user_id)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>required. The ID of the resource that is shared.</td>
</tr>
<tr>
<td>user_id</td>
<td>integer</td>
<td>required. The ID of the user.</td>
</tr>
</tbody>
</table>

Value

An empty HTTP response

workflows_get

Get a Workflow

Description

Get a Workflow

Usage

workflows_get(id)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>required.</td>
</tr>
</tbody>
</table>
Value

A list containing the following elements:

- **id** integer, The ID for this workflow.
- **name** string, The name of this workflow.
- **description** string, A description of the workflow.
- **definition** string, The definition of the workflow in YAML format. Must not be specified if ‘fromJobChain’ is specified.
- **valid** boolean, The validity of the workflow definition.
- **validationErrors** string, The errors encountered when validating the workflow definition.
- **fileId** string, The file id for the s3 file containing the workflow configuration.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **state** string, The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.
- **schedule** list, A list containing the following elements:
  - **scheduled** boolean, If the item is scheduled.
  - **scheduledDays** array, Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours** array, Hours of the day it is scheduled on.
  - **scheduledMinutes** array, Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour** integer, Alternative to scheduled minutes, number of times to run per hour.
- **allowConcurrentExecutions** boolean, Whether the workflow can execute when already running.
- **timeZone** string, The time zone of this workflow.
- **nextExecutionAt** string, The time of the next scheduled execution.
- **notifications** list, A list containing the following elements:
  - **urls** array, URLs to receive a POST request at job completion
  - **successEmailSubject** string, Custom subject line for success e-mail.
  - **successEmailBody** string, Custom body text for success e-mail, written in Markdown.
  - **successEmailAddresses** array, Addresses to notify by e-mail when the job completes successfully.
  - **failureEmailAddresses** array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on
• failureOn boolean, If failure email notifications are on

archived string, The archival status of the requested item(s).
hidden boolean, The hidden status of the item.
createdAt string,
updatedAt string,

workflows_get_executions

Get a workflow execution

Description
Get a workflow execution

Usage
workflows_get_executions(id, execution_id)

Arguments
id integer required. The ID for the workflow.
execution_id integer required. The ID for the workflow execution.

Value
A list containing the following elements:
id integer, The ID for this workflow execution.
state string, The state of this workflow execution.
mistralState string, The state of this workflow as reported by mistral. One of running, paused, success, error, or cancelled
mistralStateInfo string, The state info of this workflow as reported by mistral.
user list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
definition string, The definition of the workflow for this execution.
input list, Key-value pairs defined for this execution.
includedTasks array, The subset of workflow tasks selected to execute.
tasks array, An array containing the following fields:
  • name string, The name of the task.
  • mistralState string, The state of this task. One of idle, waiting, running, delayed, success, error, or cancelled
  • mistralStateInfo string, Extra info associated with the state of the task.
  • runs array, The runs associated with this task, in descending order by id.
    • executions array, The executions run by this task, in descending order by id.
startedAt string, The time this execution started.
finishedAt string, The time this execution finished.
createdAt string, The time this execution was created.
updatedAt string, The time this execution was last updated.

---

workflows_get_executions_tasks

*Get a task of a workflow execution*

**Description**

Get a task of a workflow execution

**Usage**

`workflows_get_executions_tasks(id, execution_id, task_name)`

**Arguments**

- **id** integer required. The ID for the workflow.
- **execution_id** integer required. The ID for the workflow execution.
- **task_name** string required. The URL-encoded name of the task.

**Value**

A list containing the following elements:

- **name** string, The name of the task.
- **mistralState** string, The state of this task. One of idle, waiting, running, delayed, success, error, or cancelled
- **mistralStateInfo** string, Extra info associated with the state of the task.
- **runs** array, An array containing the following fields:
workflows_get_git_commits

Get file contents at commit_hash

Description

Get file contents at commit_hash

Usage

workflows_get_git_commits(id, commit_hash)

Arguments

id integer required. The ID of the file.
commit_hash string required. The SHA (full or shortened) of the desired git commit.

Value

A list containing the following elements:

content string, The file’s contents.
type string, The file’s type.
size integer, The file’s size.
fileHash string, The SHA of the file.
workflows_list

**List Workflows**

**Description**

List Workflows

**Usage**

```python
workflows_list(
    hidden = NULL,
    archived = NULL,
    author = NULL,
    state = NULL,
    scheduled = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

- **hidden**: boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
- **archived**: string optional. The archival status of the requested item(s).
- **author**: string optional. Author of the workflow. It accepts a comma-separated list of author ids.
- **state**: array optional. State of the most recent execution. One or more of queued, running, succeeded, failed, cancelled, idle, and scheduled.
- **scheduled**: boolean optional. If the workflow is scheduled.
- **limit**: integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
- **page_num**: integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**: string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at.
- **order_dir**: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

- **id**: integer, The ID for this workflow.
name
string, The name of this workflow.
description
string, A description of the workflow.
valid
boolean, The validity of the workflow definition.
fileId
string, The file id for the s3 file containing the workflow configuration.
user
list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state
string, The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.
schedule
list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
allowConcurrentExecutions
boolean, Whether the workflow can execute when already running.
timeZone
string, The time zone of this workflow.
nextExecutionAt
string, The time of the next scheduled execution.
archived
string, The archival status of the requested item(s).
createdAt
string,
updatedAt
string,

workflows_list_executions

List workflow executions

Description
List workflow executions

Usage
workflows_list_executions(
  id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
Arguments

- **id** integer required. The ID for this workflow.
- **limit** integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to id. Must be one of: id, updated_at, created_at.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **id** integer, The ID for this workflow execution.
- **state** string, The state of this workflow execution.
- **mistralState** string, The state of this workflow as reported by mistral. One of running, paused, success, error, or cancelled
- **mistralStateInfo** string, The state info of this workflow as reported by mistral.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **startedAt** string, The time this execution started.
- **finishedAt** string, The time this execution finished.
- **createdAt** string, The time this execution was created.
- **updatedAt** string, The time this execution was last updated.

---

**workflows_list_git**  
*Get the git metadata attached to an item*

Description

Get the git metadata attached to an item

Usage

`workflows_list_git(id)`
workflows_list_git_commits

Get the git commits for an item

**Arguments**

- **id**  
  integer required. The ID of the file.

**Value**

A list containing the following elements:

- **gitRef**  
  string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.

- **gitBranch**  
  string, The git branch that the file is on.

- **gitPath**  
  string, The path of the file in the repository.

- **gitRepo**  
  list, A list containing the following elements:
    - **id** integer, The ID for this git repository.
    - **repoUrl** string, The URL for this git repository.
    - **createdAt** string,
    - **updatedAt** string,

- **pullFromGit**  
  boolean, Automatically pull latest commit from git. Only works for scripts.
workflows_list_projects

List the projects a Workflow belongs to

Description
List the projects a Workflow belongs to

Usage
workflows_list_projects(id, hidden = NULL)

Arguments
id integer required. The ID of the Workflow.
hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value
An array containing the following fields:

id integer, The ID for this project.
author list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.
name string, The name of this project.
description string, A description of the project.
users array, An array containing the following fields:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.
autoShare boolean,
createdAt string,
updatedAt string,
archived string, The archival status of the requested item(s).
workflows_list_shares  List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

workflows_list_shares(id)

Arguments

id       integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

readers  list, A list containing the following elements:

writers  list, A list containing the following elements:

owners   list, A list containing the following elements:

totalUserShares  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
**workflows_patch**

Update some attributes of this Workflow

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID for this workflow.</td>
</tr>
<tr>
<td>name</td>
<td>string optional. The name of this workflow.</td>
</tr>
<tr>
<td>description</td>
<td>string optional. A description of the workflow.</td>
</tr>
<tr>
<td>definition</td>
<td>string optional. The definition of the workflow in YAML format. Must not be specified if ‘fromJobChain’ is specified.</td>
</tr>
<tr>
<td>schedule</td>
<td>list optional. A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• scheduled boolean, If the item is scheduled.</td>
</tr>
<tr>
<td></td>
<td>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</td>
</tr>
<tr>
<td></td>
<td>• scheduledHours array, Hours of the day it is scheduled on.</td>
</tr>
<tr>
<td></td>
<td>• scheduledMinutes array, Minutes of the day it is scheduled on.</td>
</tr>
<tr>
<td></td>
<td>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</td>
</tr>
<tr>
<td>allow_concurrent_executions</td>
<td>boolean optional. Whether the workflow can execute when already running.</td>
</tr>
<tr>
<td>time_zone</td>
<td>string optional. The time zone of this workflow.</td>
</tr>
<tr>
<td>notifications</td>
<td>list optional. A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• urls array, URLs to receive a POST request at job completion</td>
</tr>
<tr>
<td></td>
<td>• successEmailSubject string, Custom subject line for success e-mail.</td>
</tr>
<tr>
<td></td>
<td>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</td>
</tr>
</tbody>
</table>
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on
- failureOn boolean, If failure email notifications are on

**Value**

A list containing the following elements:

- `id` integer, The ID for this workflow.
- `name` string, The name of this workflow.
- `description` string, A description of the workflow.
- `definition` string, The definition of the workflow in YAML format. Must not be specified if ‘fromJobChain’ is specified.
- `valid` boolean, The validity of the workflow definition.
- `validationErrors` string, The errors encountered when validating the workflow definition.
- `fileId` string, The file id for the s3 file containing the workflow configuration.
- `user` list, A list containing the following elements:
  - `id` integer, The ID of this user.
  - `name` string, This user’s name.
  - `username` string, This user’s username.
  - `initials` string, This user’s initials.
  - `online` boolean, Whether this user is online.
- `state` string, The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.
- `schedule` list, A list containing the following elements:
  - `scheduled` boolean, If the item is scheduled.
  - `scheduledDays` array, Day based on numeric value starting at 0 for Sunday.
  - `scheduledHours` array, Hours of the day it is scheduled on.
  - `scheduledMinutes` array, Minutes of the day it is scheduled on.
  - `scheduledRunsPerHour` integer, Alternative to scheduled minutes, number of times to run per hour.
- `allowConcurrentExecutions` boolean, Whether the workflow can execute when already running.
- `timeZone` string, The time zone of this workflow.
- `nextExecutionAt` string, The time of the next scheduled execution.
- `notifications` list, A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on
- failureOn boolean, If failure email notifications are on

archived string, The archival status of the requested item(s).
hidden boolean, The hidden status of the item.
createdAt string,
updatedAt string,

---

**workflows_post**  
*Create a Workflow*

**Description**

Create a Workflow

**Usage**

```python
workflows_post(
    name,
    description = NULL,
    from_job_chain = NULL,
    definition = NULL,
    schedule = NULL,
    allow_concurrent_executions = NULL,
    time_zone = NULL,
    notifications = NULL,
    hidden = NULL
)
```

**Arguments**

- name string required. The name of this workflow.
- description string optional. A description of the workflow.
- from_job_chain integer optional. If specified, create a workflow from the job chain this job is in, and inherit the schedule from the root of the chain.
definition string optional. The definition of the workflow in YAML format. Must not be specified if 'fromJobChain' is specified.
schedule list optional. A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
allow_concurrent_executions boolean optional. Whether the workflow can execute when already running.
time_zone string optional. The time zone of this workflow.
notifications list optional. A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on
  • failureOn boolean, If failure email notifications are on
hidden boolean optional. The hidden status of the item.

Value
A list containing the following elements:
id integer, The ID for this workflow.
name string, The name of this workflow.
description string, A description of the workflow.
definition string, The definition of the workflow in YAML format. Must not be specified if ‘fromJobChain’ is specified.
valid boolean, The validity of the workflow definition.
validationErrors string, The errors encountered when validating the workflow definition.
fileId string, The file id for the s3 file containing the workflow configuration.
user list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
• username string, This user's username.
• initials string, This user's initials.
• online boolean, Whether this user is online.

state string, The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.

schedule list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

allowConcurrentExecutions boolean, Whether the workflow can execute when already running.

timeZone string, The time zone of this workflow.

nextExecutionAt string, The time of the next scheduled execution.

notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on
• failureOn boolean, If failure email notifications are on

archived string, The archival status of the requested item(s).

hidden boolean, The hidden status of the item.

createdAt string,

updatedAt string,
Description

Clone this Workflow

Usage

`workflows_post_clone(id, clone_schedule = NULL, clone_notifications = NULL)`

Arguments

- **id**  
  integer required. The ID for the workflow.
- **clone_schedule**  
  boolean optional. If true, also copy the schedule to the new workflow.
- **clone_notifications**  
  boolean optional. If true, also copy the notifications to the new workflow.

Value

A list containing the following elements:

- **id**  
  integer, The ID for this workflow.
- **name**  
  string, The name of this workflow.
- **description**  
  string, A description of the workflow.
- **definition**  
  string, The definition of the workflow in YAML format. Must not be specified if 'fromJobChain' is specified.
- **valid**  
  boolean, The validity of the workflow definition.
- **validationErrors**  
  string, The errors encountered when validating the workflow definition.
- **fileId**  
  string, The file id for the s3 file containing the workflow configuration.
- **user**  
  list, A list containing the following elements:
    - **id**  
      integer, The ID of this user.
    - **name**  
      string, This user’s name.
    - **username**  
      string, This user’s username.
    - **initials**  
      string, This user’s initials.
    - **online**  
      boolean, Whether this user is online.
- **state**  
  string, The state of the workflow. State is “running” if any execution is running, otherwise reflects most recent execution state.
- **schedule**  
  list, A list containing the following elements:
    - **scheduled**  
      boolean, If the item is scheduled.
    - **scheduledDays**  
      array, Day based on numeric value starting at 0 for Sunday.
    - **scheduledHours**  
      array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

allowConcurrentExecutions
boolean, Whether the workflow can execute when already running.

timeZone
string, The time zone of this workflow.
nextExecutionAt
string, The time of the next scheduled execution.

notifications
list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on
• failureOn boolean, If failure email notifications are on

archived
string, The archival status of the requested item(s).
hidden
boolean, The hidden status of the item.
createdAt
string,
updatedAt
string,

---

**workflows_post_executions**

*Execute a workflow*

---

**Description**

Execute a workflow

**Usage**

```python
workflows_post_executions(
    id,
    target_task = NULL,
    input = NULL,
    included_tasks = NULL
)
```
Arguments

- **id** integer required. The ID for the workflow.
- **target_task** string optional. For a reverse workflow, the name of the task to target.
- **input** list optional. Key-value pairs to send to this execution as inputs.
- **included_tasks** array optional. If specified, executes only the subset of workflow tasks included.

Value

A list containing the following elements:

- **id** integer, The ID for this workflow execution.
- **state** string, The state of this workflow execution.
- **mistralState** string, The state of this workflow as reported by mistral. One of running, paused, success, error, or cancelled
- **mistralStateInfo** string, The state info of this workflow as reported by mistral.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **definition** string, The definition of the workflow for this execution.
- **input** list, Key-value pairs defined for this execution.
- **includedTasks** array, The subset of workflow tasks selected to execute.
- **tasks** array, An array containing the following fields:
  - **name** string, The name of the task.
  - **mistralState** string, The state of this task. One of idle, waiting, running, delayed, success, error, or cancelled
  - **mistralStateInfo** string, Extra info associated with the state of the task.
  - **runs** array, The runs associated with this task, in descending order by id.
  - **executions** array, The executions run by this task, in descending order by id.
- **startedAt** string, The time this execution started.
- **finishedAt** string, The time this execution finished.
- **createdAt** string, The time this execution was created.
- **updatedAt** string, The time this execution was last updated.
workflows_post_executions_cancel

Cancel a workflow execution

Description

Cancel a workflow execution

Usage

workflows_post_executions_cancel(id, execution_id)

Arguments

id        integer required. The ID for the workflow.
exterior_id integer required. The ID for the workflow execution.

Value

A list containing the following elements:

id        integer, The ID for this workflow execution.
state     string, The state of this workflow execution.
mistralState string, The state of this workflow as reported by mistral. One of running, paused, success, error, or cancelled
mistralStateInfo string, The state info of this workflow as reported by mistral.
user       list, A list containing the following elements:
    • id integer, The ID of this user.
    • name string, This user’s name.
    • username string, This user’s username.
    • initials string, This user’s initials.
    • online boolean, Whether this user is online.
definition string, The definition of the workflow for this execution.
input      list, Key-value pairs defined for this execution.
includedTasks array, The subset of workflow tasks selected to execute.
tasks      array, An array containing the following fields:
    • name string, The name of the task.
    • mistralState string, The state of this task. One of idle, waiting, running, delayed, success, error, or cancelled
    • mistralStateInfo string, Extra info associated with the state of the task.
    • runs array, The runs associated with this task, in descending order by id.
workflows_post_executions_resume

Resume a paused workflow execution

Description
Resume a paused workflow execution

Usage
workflows_post_executions_resume(id, execution_id)

Arguments
id
integer required. The ID for the workflow.

execution_id
integer required. The ID for the workflow execution.

Value
A list containing the following elements:

id
integer, The ID for this workflow execution.

state
string, The state of this workflow execution.

mistralState
string, The state of this workflow as reported by mistral. One of running, paused, success, error, or cancelled

mistralStateInfo
string, The state info of this workflow as reported by mistral.

user
list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

definition
string, The definition of the workflow for this execution.

input
list, Key-value pairs defined for this execution.

includedTasks
array, The subset of workflow tasks selected to execute.
workflows_post_executions_retry

Retry a failed task, or all failed tasks in an execution

Description

Retry a failed task, or all failed tasks in an execution

Usage

workflows_post_executions_retry(id, execution_id, task_name = NULL)

Arguments

id integer required. The ID for the workflow.
execution_id integer required. The ID for the workflow execution.
task_name string optional. If specified, the name of the task to be retried. If not specified, all failed tasks in the execution will be retried.

Value

A list containing the following elements:

id integer, The ID for this workflow execution.
state string, The state of this workflow execution.
mistralState string, The state of this workflow as reported by mistral. One of running, paused, success, error, or cancelled
mistralStateInfo string, The state info of this workflow as reported by mistral.
user list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

definition string, The definition of the workflow for this execution.
input list, Key-value pairs defined for this execution.
includedTasks array, The subset of workflow tasks selected to execute.
tasks array, An array containing the following fields:
• name string, The name of the task.
• mistralState string, The state of this task. One of idle, waiting, running,
  delayed, success, error, or cancelled
• mistralStateInfo string, Extra info associated with the state of the task.
• runs array, The runs associated with this task, in descending order by id.
• executions array, The executions run by this task, in descending order by id.

startedAt string, The time this execution started.
finishedAt string, The time this execution finished.
createdAt string, The time this execution was created.
updatedAt string, The time this execution was last updated.

workflows_post_git_commits

Commit and push a new version of the file

Description
Commit and push a new version of the file

Usage
workflows_post_git_commits(id, content, message, file_hash)

Arguments
id integer required. The ID of the file.
content string required. The contents to commit to the file.
message string required. A commit message describing the changes being made.
file_hash string required. The full SHA of the file being replaced.
Value

A list containing the following elements:

- content string, The file’s contents.
- type string, The file’s type.
- size integer, The file’s size.
- fileHash string, The SHA of the file.

---

workflows_put

Replace all attributes of this Workflow

---

Description

Replace all attributes of this Workflow

Usage

workflows_put(
  id,
  name,
  description = NULL,
  definition = NULL,
  schedule = NULL,
  allow_concurrent_executions = NULL,
  time_zone = NULL,
  notifications = NULL
)

Arguments

- id integer required. The ID for this workflow.
- name string required. The name of this workflow.
- description string optional. A description of the workflow.
- definition string optional. The definition of the workflow in YAML format. Must not be specified if ‘fromJobChain’ is specified.
- schedule list optional. A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
- allow_concurrent_executions boolean optional. Whether the workflow can execute when already running.
time_zone [string] optional. The time zone of this workflow.

notifications [list] optional. A list containing the following elements:

- urls [array] URLs to receive a POST request at job completion
- successEmailSubject [string] Custom subject line for success e-mail.
- successEmailBody [string] Custom body text for success e-mail, written in Markdown.
- successEmailAddresses [array] Addresses to notify by e-mail when the job completes successfully.
- failureEmailAddresses [array] Addresses to notify by e-mail when the job fails.
- stallWarningMinutes [integer] Stall warning emails will be sent after this amount of minutes.
- successOn [boolean] If success email notifications are on
- failureOn [boolean] If failure email notifications are on

Value

A list containing the following elements:

id [integer] The ID for this workflow.
name [string] The name of this workflow.
description [string] A description of the workflow.
definition [string] The definition of the workflow in YAML format. Must not be specified if 'fromJobChain' is specified.
valid [boolean] The validity of the workflow definition.
validationErrors [string] The errors encountered when validating the workflow definition.
fileId [string] The file id for the s3 file containing the workflow configuration.
user [list] A list containing the following elements:

- id [integer] The ID of this user.
- name [string] This user’s name.
- username [string] This user’s username.
- initials [string] This user’s initials.
- online [boolean] Whether this user is online.

state [string] The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.
schedule [list] A list containing the following elements:

- scheduled [boolean] If the item is scheduled.
- scheduledDays [array] Day based on numeric value starting at 0 for Sunday.
- scheduledHours [array] Hours of the day it is scheduled on.
- scheduledMinutes [array] Minutes of the day it is scheduled on.
- scheduledRunsPerHour [integer] Alternative to scheduled minutes, number of times to run per hour.
workflows_put_archive

allowConcurrentExecutions
boolean, Whether the workflow can execute when already running.

timeZone
string, The time zone of this workflow.

nextExecutionAt
string, The time of the next scheduled execution.

notifications
list, A list containing the following elements:

• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on
• failureOn boolean, If failure email notifications are on

archived
string, The archival status of the requested item(s).

hidden
boolean, The hidden status of the item.

createdAt
string,

updatedAt
string,
Value

A list containing the following elements:

- **id** integer, The ID for this workflow.
- **name** string, The name of this workflow.
- **description** string, A description of the workflow.
- **definition** string, The definition of the workflow in YAML format. Must not be specified if ‘fromJobChain’ is specified.
- **valid** boolean, The validity of the workflow definition.
- **validationErrors** string, The errors encountered when validating the workflow definition.
- **fileId** string, The file id for the s3 file containing the workflow configuration.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **state** string, The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.
- **schedule** list, A list containing the following elements:
  - **scheduled** boolean, If the item is scheduled.
  - **scheduledDays** array, Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours** array, Hours of the day it is scheduled on.
  - **scheduledMinutes** array, Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour** integer, Alternative to scheduled minutes, number of times to run per hour.
- **allowConcurrentExecutions** boolean, Whether the workflow can execute when already running.
- **timeZone** string, The time zone of this workflow.
- **nextExecutionAt** string, The time of the next scheduled execution.
- **notifications** list, A list containing the following elements:
  - **urls** array, URLs to receive a POST request at job completion
  - **successEmailSubject** string, Custom subject line for success e-mail.
  - **successEmailBody** string, Custom body text for success e-mail, written in Markdown.
  - **successEmailAddresses** array, Addresses to notify by e-mail when the job completes successfully.
  - **failureEmailAddresses** array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on
• failureOn boolean, If failure email notifications are on

archived string, The archival status of the requested item(s).
hidden boolean, The hidden status of the item.
createdAt string,
updatedAt string,

---

workflows_put_git  
Attach an item to a file in a git repo

Description

Attach an item to a file in a git repo

Usage

workflows_put_git(
  id,
  git_ref = NULL,
  git_branch = NULL,
  git_path = NULL,
  git_repo_url = NULL,
  pull_from_git = NULL
)

Arguments

id integer required. The ID of the file.
git_ref string optional. A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
git_branch string optional. The git branch that the file is on.
git_path string optional. The path of the file in the repository.
git_repo_url string optional. The URL of the git repository.
pull_from_git boolean optional. Automatically pull latest commit from git. Only works for scripts.
**Value**

A list containing the following elements:

- **gitRef** string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **gitBranch** string, The git branch that the file is on.
- **gitPath** string, The path of the file in the repository.
- **gitRepo** list, A list containing the following elements:
  - **id** integer, The ID for this git repository.
  - **repoUrl** string, The URL for this git repository.
  - **createdAt** string,
  - **updatedAt** string,
- **pullFromGit** boolean, Automatically pull latest commit from git. Only works for scripts.

---

**workflows_put_projects**

*Add a Workflow to a project*

**Description**

Add a Workflow to a project

**Usage**

`workflows_put_projects(id, project_id)`

**Arguments**

- **id** integer required. The ID of the Workflow.
- **project_id** integer required. The ID of the project.

**Value**

An empty HTTP response
workflows_put_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

workflows_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)

Arguments

id integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers list, A list containing the following elements:
    • users array,
    • groups array,

writers list, A list containing the following elements:
    • users array,
    • groups array,

owners list, A list containing the following elements:
    • users array,
    • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares
    integer. For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

workflows_put_shares_users
    Set the permissions users have on this object

Description
    Set the permissions users have on this object

Usage
    workflows_put_shares_users(
        id,
        user_ids,
        permission_level,
        share_email_body = NULL,
        send_shared_email = NULL
    )

Arguments

    id          integer required. The ID of the resource that is shared.
    user_ids    array required. An array of one or more user IDs.
    permission_level
        string required. Options are: "read", "write", or "manage".
    share_email_body
        string optional. Custom body text for e-mail sent on a share.
    send_shared_email
        boolean optional. Send email to the recipients of a share.

Value
    A list containing the following elements:

    readers
        list, A list containing the following elements:
            • users array,
            • groups array,

    writers
        list, A list containing the following elements:
            • users array,
            • groups array,

    owners
        list, A list containing the following elements:
            • users array,
write_chunks

Split a file into chunks of a given chunk size, returning a list of file names.

Description

Split a file into chunks of a given chunk size, returning a list of file names.

Usage

write_chunks(file, chunk_size)

Arguments

file name of the file
chunk_size size of the chunk in bytes.

write_civis

Upload a local data frame or csv file to the Civis Platform (Redshift)

Description

Uploads a data frame, a csv file, or file on S3 to Redshift based on the first argument.

A default database can be set using options(civis.default_db = "my_database"). If there is only one database available, this database will automatically be used as the default.

Usage

write_civis(x, ...)

## S3 method for class 'data.frame'
write_civis(
x,
tablename,
database = NULL,
if_exists = "fail",
distkey = NULL,
write_civis(
  x,
  tablename,
  database = NULL,
  if_exists = "fail",
  distkey = NULL,
  sortkey1 = NULL,
  sortkey2 = NULL,
  max_errors = NULL,
  verbose = FALSE,
  hidden = TRUE,
  diststyle = NULL,
  header = TRUE,
  credential_id = NULL,
  import_args = NULL,
  ...
)

## S3 method for class 'character'
write_civis(
  x,
  tablename,
  database = NULL,
  if_exists = "fail",
  distkey = NULL,
  sortkey1 = NULL,
  sortkey2 = NULL,
  max_errors = NULL,
  verbose = FALSE,
  hidden = TRUE,
  diststyle = NULL,
  header = TRUE,
  credential_id = NULL,
  import_args = NULL,
  ...
)

## S3 method for class 'numeric'
write_civis(
  x,
  tablename,
  database = NULL,
  if_exists = "fail",
  distkey = NULL,
  sortkey1 = NULL,
  sortkey2 = NULL,
  max_errors = NULL,
  verbose = FALSE,
  delimiter = ",",
  hidden = TRUE,
  diststyle = NULL,
  header = TRUE,
  credential_id = NULL,
  import_args = NULL,
Arguments

\( \text{x} \)
data frame, file path of a csv, or the id of a csv file on S3 to upload to platform.

...arguments passed to `write.csv`.

tablename
string, Name of table and schema "schema.tablename".

database
string, Name of database where data frame is to be uploaded. If no database is specified, uses `options(civis.default_db)`.

if_exists
string, optional, String indicating action to take if table already exists. Must be either "fail", "drop", "truncate" or "append". Defaults to "fail".

distkey
string, optional, Column name designating the distkey.

sortkey1
string, optional, Column name designating the first sortkey.

sortkey2
string, optional, Column name designating the second (compound) sortkey.

max_errors
int, optional, Maximum number of rows with errors to remove before failing.

verbose
bool, Set to TRUE to print intermediate progress indicators.

hidden
bool, if TRUE (default), this job will not appear in the Civis UI.

diststyle
string optional. The diststyle to use for the table. One of "even", "all", or "key".

header
bool, if TRUE (default) the first row is a header.

credential_id
integer, the id of the credential to be used when performing the database import. If NULL (default), the default credential of the current user will be used.

import_args
list of additional arguments for `imports_post_files`.

delimiter
string, optional. Which delimiter to use. One of ',', ';', '\t' or '|'.

Methods (by class)

- data.frame: Upload a data frame to Civis Platform (Redshift).
- character: Upload a csv to Civis Platform (Redshift).
- numeric: Upload a csv file from the files endpoint to Civis Platform (Redshift)

See Also

`refresh_table` to update table meta-data.

Other io: `download_civis()`, `query_civis_file()`, `query_civis()`, `read_civis()`, `write_civis_file()`

Examples

```r
## Not run:
df <- read.csv(local_file)

# Create new table, fail if already exists
write_civis(df, "schema.my_table", "my_database")
```
# Create new table, append if already exists
write_civis(df, "schema.my_table", "my_database", if_exists="append")

# Create new table with additional options
write_civis(df, "schema.my_table", "my_database",
            distkey="id",
            sortkey1="added_date",
            credential_id = 1,
            header = FALSE)

# Create new table directly from a saved csv
write_civis("my/file/path.csv", "schema.my_table", "my_database")

# Create new table from a file_id
id <- write_civis_file("my/file/path.csv", name = "path.csv")
write_civis(id, "schema.my_table", "my_database")

## End(Not run)

---

**write_civis_file**

*Upload a R object or file to Civis Platform (Files endpoint)*

**Description**

Uploads a data frame, R object or file to the files endpoint on Civis Platform (Amazon S3). It returns the id of the file for use with `read_civis` or `download_civis`.

Data frames are uploaded as CSVs with `write.csv`. R objects are serialized with `saveRDS`. Files are uploaded as-is. Objects or files larger than 50mb are chunked and can be uploaded in parallel if a plan has been set. Files larger than 5TB cannot be uploaded.

**Usage**

```r
write_civis_file(x, ...)
```

## Default S3 method:

```r
write_civis_file(x, name = "r-object.rds", expires_at = NULL, ...)
```

## S3 method for class 'data.frame'

```r
write_civis_file(
    x,
    name = "data.csv",
    expires_at = NULL,
    row.names = FALSE,
    ...
)
```

## S3 method for class 'character'

```r
write_civis_file(x, name = x, expires_at = NULL, ...)
```
write_civis_file

Arguments

- `x` R object or path of file to upload.
- `...` arguments passed to `saveRDS` or `write.csv` for data frames.
- `name` string. Name of the file or object.
- `expires_at` string. The date and time the object will expire on in the format "YYYY-MM-DD HH:MM:SS". `expires_at = NULL` allows files to be kept indefinitely.
- `row.names` default FALSE. Either a logical value indicating whether the row names of `x` are to be written along with `x`, or a character vector of row names to be written.

Details

Data frames are uploaded as CSVs using `write.csv`, with `row.names = FALSE` by default. Additional arguments to `write.csv` can be passed through `. ...`.

By default, R objects are serialized using `saveRDS` before uploading the object to the files endpoint. If given a filepath, the file is uploaded as-is.

Value

The file id which can be used to later retrieve the file using `read_civis`.

Methods (by class)

- `default`: Serialize R object
- `data.frame`: Upload a data frame as a csv
- `character`: Upload any file

See Also

Other io: `download_civis()`, `query_civis_file()`, `query_civis()`, `read_civis()`, `write_civis()`

Examples

```r
## Not run:
data(iris)
file_id <- write_civis_file(iris)
read_civis(file_id)

file_id <- write_civis_file("path/to/my.csv")
read_civis(file_id)
read_civis(file_id, using = readr::read_csv)

file_id <- write_civis_file(list(a = 1))
read_civis(file_id, using = readRDS)

# Does not expire
file_id <- write_civis_file(iris, expires_at = NULL)

# Expires on a given date and time
```
write_job_output

Add a file as a run output if called from a container job

Description
Add a file as a run output if called from a container job

Usage
write_job_output(filename)

Arguments
filename string, name of the file to add as a run output civis::scripts_post_*_runs_outputs.

Details
Only posts if running on Civis Platform.

Value
Returns the filename if not running on platform.
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