Package ‘icesConnect’

October 13, 2022

Title Provides User Tokens for Access to ICES Web Services

Version 1.0.0

Description Provides user tokens for ICES web services that require authentication and authorization. Web services covered by this package are ICES VMS database, the ICES DATSU web services, and the ICES SharePoint site.

Imports whoami, keyring, httr, base64enc, jsonlite, getPass

License GPL-3

Encoding UTF-8

RoxygenNote 7.1.2

NeedsCompilation no

Author Colin Millar [aut, cre]

Maintainer Colin Millar <colin.millar@ices.dk>

Repository CRAN

Date/Publication 2022-02-10 19:10:02 UTC

R topics documented:

clear_token ................................................................. 2
decode_token .............................................................. 2
ices_get_jwt ............................................................... 3
ices_token ................................................................. 5
set_username .............................................................. 6

Index 7
clear_token

**Description**

Deletes the token from the key ring.

**Usage**

```r
clear_token(username = getOption("ices.username"))
```

**Arguments**

- `username`: the ices username that you require a token for, Default: `getOption("ices.username")`

**Value**

- no return value

**See Also**

- `username`
- `key_get`

**Examples**

```r
## Not run:
clear_token()
## End(Not run)
```

decode_token

**Description**

Decodes the token to allow inspection of claims

Return the expiration date of the token

What user is this token for

**Usage**

```r
decode_token(jwt = ices_token(), formatted = TRUE)
token_expiration(jwt = ices_token())
token_user(jwt = ices_token())
```
ices_get_jwt

Arguments

jwt  a javascript web token got by running ices_token()
formatted  should formatted output be returned

Value

list of claims
POSIXct date time
string, user name

See Also

username key_get
username key_get
username key_get

Examples

## Not run:
decode_token()
## End(Not run)

## Not run:
token_expiration()
## End(Not run)

## Not run:
token_user()
## End(Not run)

Description

Perform a get request to a url using a javascript web token for authentication
Usage

ices_get.jwt(
  url,
  username = NULL,
  retry = TRUE,
  quiet = FALSE,
  verbose = FALSE,
  jwt = NULL
)

ices_post_jwt(
  url,
  body = list(),
  encode = "json",
  username = NULL,
  retry = TRUE,
  quiet = FALSE,
  verbose = FALSE,
  jwt = NULL
)

ices_patch_jwt(
  url,
  body = list(),
  encode = "json",
  username = NULL,
  retry = TRUE,
  quiet = FALSE,
  verbose = FALSE,
  jwt = NULL
)

ices_request_jwt(
  type = c("GET", "POST", "PATCH"),
  url,
  body = NULL,
  encode = c("multipart", "form", "json", "raw"),
  username = NULL,
  retry = TRUE,
  quiet = FALSE,
  verbose = FALSE,
  jwt = NULL
)

Arguments

url the url to make the request to
username the ices username to perform the request as, Default:getOption("ices.username")
**Description**

Stores a user token in the system keyring

**Usage**

```r
ices_token(username = NULL, password = NULL, refresh = FALSE, ...)
```

**Arguments**

- **username**
  - the ices username that you require a token for, Default: NULL, which results in `getOption("ices.username")`

- **password**
  - the ices username that you require a token for, Default: NULL, which results in a dialogue box request for the password

- **refresh**
  - should the token be refreshed to update new claims for example

- **...**
  - not yet used
set_username

Value

character scalar, the token

See Also

username key_get

Examples

## Not run:
ices_token()

## End(Not run)

---

set_username Set your ICES username

Description

Set the ICES user or logon name that will be used for requests

Usage

set_username(username)

Arguments

username the ices username you use to login to SharePoint for example.

Details

To set this permanently, add the line: `options(ices.username = "your ices user name")` to your `.Rprofile` file, see, usually `~/.Rprofile`, see Startup for more information.

Value

invisible value: the previous username that was set

See Also

options getOption

Examples

set_username("myusername")
Index

add_headers, 5

clear_token, 2

decode_token, 2

GET, 5
getOption, 6

ices_get_jwt, 3
ices_patch_jwt (ices_get_jwt), 3
ices_post_jwt (ices_get_jwt), 3
ices_request_jwt (ices_get_jwt), 3
ices_token, 5, 5

key_get, 2, 3, 6

options, 6

set_username, 6
Startup, 6
status_code, 5
stop_for_status, 5

token_expiration (decode_token), 2
token_user (decode_token), 2

username, 2, 3, 6