Package ‘rockr’

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Type Package

Title 'Rock' R Server Client

Description Connector to the REST API of a 'Rock' R server, to perform operations on a remote R server session, or administration tasks. See 'Rock' documentation at <https://rockdoc.obiba.org/>.

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rockr.assign

Assign an R expression or data

Description

Assign an R expression or R data to a symbol in the remote R session.

Usage

rockr.assign(conn, symbol, value, async = FALSE)

Arguments

- **conn**: A rockr connection object.
- **symbol**: Name of the R symbol.
- **value**: Value to assign to the symbol: can be a data value or a R script to execute.
- **async**: R script is executed asynchronously within the session (default is FALSE). If TRUE, the value returned is the ID of the command to look for.

Value

The command object if async is TRUE
rockr.assign.data

Assign an R object

Description
Assign an R object to a R symbol in the remote R session.

Usage
rockr.assign.data(conn, symbol, value, async = FALSE)

Arguments
- conn: A rockr connection object.
- symbol: Name of the R symbol.
- value: The R object to assign (data.frame, vector, etc.).
- async: R script is executed asynchronously within the session (default is FALSE). If TRUE, the value returned is the ID of the command to look for.

Value
The command object if async is TRUE

See Also
Other assignment functions: rockr.assign.data(), rockr.assign.expr()
Examples

```r
## Not run:
conn <- rockr.connect(username='user', password='password',
                      url='https://rocker-demo.obiba.org')
rockr.open(conn)
# push a data frame to the R server
rockr.assign.data(o, "D", mtcars)
# push a vector to the R server
rockr.assign.data(o, "C", mtcars$cyl)
# push a string
rockr.assign.data(o, "S", "Hello!")

## End(Not run)
```

---

**rockr.assign.expr**  
Assign an R expression

### Description

Assign an R expression to a symbol in the remote R session.

### Usage

```r
rockr.assign.expr(conn, symbol, value, async = FALSE)
```

### Arguments

- **conn**: A rockr connection object.
- **symbol**: Name of the R symbol.
- **value**: Value to assign to the symbol: can be a primitive value or a R script to execute.
- **async**: R script is executed asynchronously within the session (default is FALSE). If TRUE, the value returned is the ID of the command to look for.

### Value

The command object if async is TRUE

### See Also

Other assignment functions: `rockr.assign.data()`, `rockr.assign()`
Examples

```r
## Not run:
conn <- rockr.connect(username='user', password='password',
                       url='https://rocker-demo.obiba.org')
rockr.open(conn)
rockr.assign.expr(conn, "x", 123)
rockr.assign.expr(conn, "y", "abc")
rockr.assign.expr(conn, "z", quote(tibble::tribble(~colA, ~colB,
                                                       'a', 1,
                                                       'b', 2,
                                                       'c', 3)))
rockr.close(conn)

## End(Not run)
```

---

**rockr.close**

*Close the R session*

**Description**

Close the R session, if there is any associated to the connection.

**Usage**

`rockr.close(conn)`

**Arguments**

- `conn`  
  A rockr connection object.

**Value**

Void

**See Also**

Other connection functions: `rockr.connect()`, `rockr.open()`

**Examples**

```r
## Not run:
conn <- rockr.connect('administrator','password', url='https://rocker-demo.obiba.org')
rockr.open(conn)
rockr.close(conn)

## End(Not run)
```
rockr.command

Get an asynchronous command

Description

Get an asynchronous R commands in the remote R session.

Usage

rockr.command(conn, id, wait = FALSE)

Arguments

conn       A rockr connection object.
id         R command ID.
wait       Wait for the command to complete.

Value

The command object.

See Also

Other command functions: rockr.command_result(), rockr.command_rm(), rockr.commands_rm(), rockr.commands()

Examples

## Not run:
conn <- rockr.connect(username='user', password='password',

url='https://rocker-demo.obiba.org')
rockr.open(conn)
rockr.command(conn, '1234')
rockr.close(conn)

## End(Not run)
**rockr.commands**  

List the asynchronous commands

---

**Description**

Get the list of asynchronous R commands in the remote R session.

**Usage**

```r
rockr.commands(conn, df = TRUE)
```

**Arguments**

- `conn`: A rockr connection object.
- `df`: Return a data.frame (default is TRUE)

**Value**

The data.frame of command objects, one column per property.

**See Also**

Other command functions: `rockr.command_result()`, `rockr.command_rm()`, `rockr.commands_rm()`, `rockr.command()`

**Examples**

```r
## Not run:
conn <- rockr.connect(username='/quotesingle.Varuser/quotesingle.Var',
                      password='/quotesingle.Varpassword/quotesingle.Var',
                      url='https://rocker-demo.obiba.org')
rockr.open(conn)
rockr.commands(conn)
rockr.close(conn)

## End(Not run)
```

---

**rockr.commands_rm**  

Remove all asynchronous commands

---

**Description**

Remove all asynchronous R commands in the remote R session.

**Usage**

```r
rockr.commands_rm(conn)
```
rockr.command_result

Get result of an asynchronous command

Description
Get the result of an asynchronous R commands in the remote R session. The command is removed from the remote R session after this call.

Usage
rockr.command_result(conn, id, wait = FALSE, rm = TRUE)

Arguments
- **conn**: A rockr connection object.
- **id**: R command ID.
- **wait**: Wait for the command to complete (default is FALSE).
- **rm**: Remove command from the list of asynchronous commands after retrieving the result (default is TRUE).

Value
The command result as an unserialized object.
rockr.command_rm

See Also

Other command functions: rockr.command_rm(), rockr.commands_rm(), rockr.commands(), rockr.command()

Examples

## Not run:
```r
cconn <- rockr.connect(username='user', password='password',
  url='https://rocker-demo.obiba.org')
rockr.open(conn)
rockr.command_result(conn, '1234')
rockr.close(conn)
```
## End(Not run)

rockr.command_rm

Remove an asynchronous command

Description

Remove an asynchronous R commands in the remote R session.

Usage

```r
rockr.command_rm(conn, id)
```

Arguments

- **conn**: A rockr connection object.
- **id**: R command ID.

Value

Void

See Also

Other command functions: rockr.command_result(), rockr.commands_rm(), rockr.commands(), rockr.command()

Examples

```r
## Not run:
conn <- rockr.connect('administrator','password',
  url='https://rocker-demo.obiba.org')
rockr.open(conn)
rockr.command_rm(conn, '1234')
rockr.close(conn)
```
## End(Not run)
Description
Connect with Rocker.

Usage
rockr.connect(
  username = getOption("rock.username"),
  password = getOption("rock.password"),
  url = getOption("rock.url"),
  opts = getOption("rock.opts", list())
)

Arguments
username  User name in Rocker R server. Can be provided by "rock.username" option.
password  User password in Rocker R server. Can be provided by "rock.password" option.
url       Rocker R server url. Can be provided by "rock.url" option.
opts      Curl options as described by httr (call httr::httr_options() for details). Can be provided by "rock.opts" option.

Value
A rockr connection object.

See Also
Other connection functions: rockr.close(), rockr.open()

Examples
## Not run:
#### The below examples illustrate the different ways to connect to rockr ####

# explicit username/password connection
cconn <- rockr.connect(username='administrator', password='password',
                         url='https://rocker-demo.obiba.org')

# explicit access token connection
cconn <- rockr.connect(token='HYG16L00VaX400UardNbiqmr2ByBpRke',
                         url='https://rocker-demo.obiba.org')

# connect using options and user credentials
options(rockr.username='administrator',
        rockr.password='password',
        rockr.opts=list())
rockr.eval

Evaluate a R script

Description

Execute a R script in the remote R session.

Usage

rockr.eval(conn, script, json = FALSE, async = FALSE)

Arguments

  conn | A rockr connection object.
  script | R script to execute.
  json | Response is in JSON format or an object serialized by R. Default is FALSE.
  async | R script is executed asynchronously within the session (default is FALSE). If TRUE, the value returned is the command object to look for.

Value

The unserialized result object.

See Also

Other evaluation functions: rockr.eval.source()
Examples

## Not run:
conn <- rockr.connect(username='user', password='password',
                      url='https://rocker-demo.obiba.org')
rockr.open(conn)
rockr.eval(conn, "x <- 'foo'")
rockr.eval(conn, "ls()")
rockr.close(conn)

## End(Not run)

rockr.eval.source   Evaluate a R file script

Description

Upload a R file script and execute it in the remote R session with source().

Usage

rockr.eval.source(conn, path, json = FALSE, async = FALSE)

Arguments

conn A rockr connection object.
path Path to the R file script to execute.
json Response is in JSON format or an object serialized by R. Default is FALSE.
async R script is executed asynchronously within the session (default is FALSE). If
       TRUE, the value returned is the command object to look for.

Value

The unserialized result object.

See Also

Other evaluation functions: rockr.eval()

Examples

## Not run:
conn <- rockr.connect(username='user', password='password',
                      url='https://rocker-demo.obiba.org')
rockr.open(conn)
rockr.eval.source(conn, "myscript.R")
rockr.close(conn)

## End(Not run)
**rockr.file_download**    
*Download a file*

**Description**

Download a file or a folder from the Rocker R session working directory.

**Usage**

```r
rockr.file_download(
    conn,
    source,
    destination = NULL,
    overwrite = FALSE,
    temp = FALSE
)
```

**Arguments**

- **conn** A rockr connection object.
- **source** Path to the file in the R server file system.
- **destination** Path to the file to be written. If omitted, file with same name in the working directory will be written. Any non-existing parent directories will be created.
- **overwrite** Overwrite the destination file if TRUE. Default is FALSE.
- **temp** Logical to specify whether the root folder is the R session's home or the temporary folder. Default is FALSE.

**Value**

Void

**See Also**

Other file functions: `rockr.file_upload()`

**Examples**

```r
## Not run:
conn <- rockr.connect(username='user', password='password',
    url='https://rocker-demo.obiba.org')
rockr.open(conn)
# download a file
rockr.file_download(conn, 'data.csv')
# download, create destination folder and rename file
rockr.file_download(conn, 'DatabaseTest.sav', 'spss/test.sav')
rockr.close(conn)

## End(Not run)
```
rockr.file_upload  

Description

Upload a file into the Rocker R session working directory.

Usage

```r
rockr.file_upload(
  conn,
  source,
  destination = NULL,
  overwrite = FALSE,
  temp = FALSE
)
```

Arguments

- **conn**: A rockr connection object.
- **source**: Path to the file in the local file system.
- **destination**: Path of the destination file in the Rocker R session. Root folder is the session’s home or temporary folder (see `temp` parameter). If empty (default behavior), the destination file name will be the same as the source one.
- **overwrite**: Overwrite the destination file if TRUE. Default is FALSE.
- **temp**: Logical to specify whether the root folder is the R session’s home or the temporary folder. Default is FALSE.

Value

Void

See Also

Other file functions: `rockr.file_download()`

Examples

```r
## Not run:
conn <- rockr.connect(username='user', password='password',
                      url='https://rocker-demo.obiba.org')
rockr.open(conn)
# upload a file
rockr.file_upload(conn, 'data.csv')
# download, create destination folder and rename file
rockr.file_upload(conn, 'DatabaseTest.sav', '/spss/test.sav')
# upload a folder
```
rockr.log

rockr.file_upload(conn, 'input')
rockr.close(conn)

## End(Not run)

---

**Description**

Get the tail of the R server log.

**Usage**

```r
rockr.log(conn, limit = 100)
```

**Arguments**

- `conn`: A rockr connection object.
- `limit`: The number of lines in the tail.

**Value**

A vector of character strings, one per log file line.

**See Also**

Other administration functions: `rockr.package_install()`, `rockr.package_rm()`, `rockr.packages_datashield()`, `rockr.packages_rm()`, `rockr.packages()`, `rockr.package()`, `rockr.restart()`, `rockr.session_switch()`, `rockr.sessions()`, `rockr.session()`, `rockr.start()`, `rockr.status()`, `rockr.stop()`.

**Examples**

```r
## Not run:
conn <- rockr.connect(username='administrator', password='password',
                       url='https://rocker-demo.obiba.org')
rockr.log(conn, 10)

## End(Not run)
rockr.open

*Open an R session*

**Description**

Open a R session, and store the session object within the connection object.

**Usage**

```r
rockr.open(conn)
```

**Arguments**

- `conn` A rockr connection object.

**Value**

Void

**See Also**

Other connection functions: `rockr.close()`, `rockr.connect()`

**Examples**

```r
## Not run:
conn <- rockr.connect('administrator','password', url='https://rocker-demo.obiba.org')
rockr.open(conn)
rockr.close(conn)
## End(Not run)
```

rockr.package

*Package description from the R server*

**Description**

Get the package description from the R server.

**Usage**

```r
rockr.package(conn, name)
```

**Arguments**

- `conn` A rockr connection object.
- `name` The package name.
Rockr.packages

Description

Get the list of packages from the R server.

Usage

```r
rockr.packages(conn)
```

Arguments

- `conn` A rockr connection object.

Value

The matrix of the R packages, same as the one from install.packages().

See Also

Other administration functions: `rockr.log()`, `rockr.package_install()`, `rockr.package_rm()`, `rockr.packages_datashield()`, `rockr.packages_rm()`, `rockr.packages()`, `rockr.restart()`, `rockr.session_switch()`, `rockr.sessions()`, `rockr.session()`, `rockr.start()`, `rockr.status()`, `rockr.stop()`, `rockr.version()`
rockr.packages_datashield

List of the settings of the DataSHIELD packages

Examples

```r
## Not run:
conn <- rockr.connect(username='administrator', password='password',
                      url='https://rocker-demo.obiba.org')
rockr.packages(conn)

## End(Not run)
```

Description

Discover the list of DataSHIELD packages and their settings from the R server.

Usage

```r
rockr.packages_datashield(conn)
```

Arguments

- `conn` A rockr connection object.

Value

The list of the DataSHIELD R packages properties (AggregateMethods, AssignMethods, Options)

See Also

Other administration functions: `rockr.log()`, `rockr.package_install()`, `rockr.package_rm()`, `rockr.packages_rm()`, `rockr.packages()`, `rockr.package()`, `rockr.restart()`, `rockr.session_switch()`, `rockr.sessions()`, `rockr.session()`, `rockr.start()`, `rockr.status()`, `rockr.stop()`, `rockr.version()`

Examples

```r
## Not run:
conn <- rockr.connect(username='administrator', password='password',
                      url='https://rocker-demo.obiba.org')
rockr.packages_datashield(conn)

## End(Not run)
```
rockr.packages_rm

Remove some packages from the R server

Description
Remove some packages from the R server.

Usage
rockr.packages_rm(conn, names)

Arguments
- conn: A rockr connection object.
- names: The package names.

Value
Void

See Also
Other administration functions: rockr.log(), rockr.package_install(), rockr.package_rm(), rockr.packages_datashield(), rockr.packages(), rockr.package(), rockr.restart(), rockr.session_switch(), rockr.sessions(), rockr.session(), rockr.start(), rockr.status(), rockr.stop(), rockr.version()

Examples
```r
## Not run:
conn <- rockr.connect(username='administrator', password='password',
                       url='https://rocker-demo.obiba.org')
rockr.packages_rm(conn, c('rlang', 'tibble'))
## End(Not run)
```

rockr.package_install

Install a package in the R server

Description
Install a package in the R server. Package can be in different kind of repositories: CRAN, GitHub or Bioconductor.

Usage
rockr.package_install(conn, name, ref = NULL, manager = "cran")
rockr.package_rm

Remove a package from the R server

Description

Remove a package from the R server.

Usage

rockr.package_rm(conn, name)

Arguments

- conn: A rockr connection object.
- name: The package name.

Value

Void

See Also

Other administration functions: rockr.log(), rockr.package_rm(), rockr.packages_datashield(), rockr.packages_rm(), rockr.packages(), rockr.package(), rockr.restart(), rockr.session_switch(), rockr.sessions(), rockr.session(), rockr.start(), rockr.status(), rockr.stop(), rockr.version()

Examples

## Not run:
conn <- rockr.connect(username='administrator', password='password',
                    url='https://rocker-demo.obiba.org')
rockr.package_install(conn, 'tibble')

## End(Not run)
rockr.restart

See Also
Other administration functions: rockr.log(), rockr.package_install(), rockr.packages_datashield(), rockr.packages_rm(), rockr.packages(), rockr.package(), rockr.restart(), rockr.session_switch(), rockr.sessions(), rockr.session(), rockr.start(), rockr.status(), rockr.stop(), rockr.version()

Examples
```r
## Not run:
conn <- rockr.connect(username='administrator', password='password',
                       url='https://rocker-demo.obiba.org')
rockr.package_rm(conn, 'tibble')

## End(Not run)
```

---

rockr.restart  Restart the R server

Description
Stop and start the R server. Any R sessions will be closed.

Usage
```r
rockr.restart(conn)
```

Arguments
- `conn`: A rockr connection object.

Value
Logical indicating whether the R server is running (invisible).

See Also
Other administration functions: rockr.log(), rockr.package_install(), rockr.package_rm(), rockr.packages_datashield(), rockr.packages_rm(), rockr.packages(), rockr.package(), rockr.session_switch(), rockr.sessions(), rockr.session(), rockr.start(), rockr.status(), rockr.stop(), rockr.version()

Examples
```r
## Not run:
conn <- rockr.connect(username='administrator', password='password',
                       url='https://rocker-demo.obiba.org')
rockr.stop(conn)

## End(Not run)
```
Get a specific R session. Users with administrator or manager role can get any R sessions. Regular users can only get their own.

Usage

rockr.session(conn, id)

Arguments

conn A rockr connection object.
id The R session id to look for.

Value

The R session object.

See Also

Other administration functions: rockr.log(), rockr.package_install(), rockr.package_rm(), rockr.packages_datashield(), rockr.packages_rm(), rockr.packages(), rockr.package(), rockr.restart(), rockr.session_switch(), rockr.sessions(), rockr.start(), rockr.status(), rockr.stop(), rockr.version()

Examples

## Not run:

```r
conn <- rockr.connect(username='administrator', password='password',
  url='https://rocker-demo.obiba.org')
rockr.session(conn, '1234')
```

## End(Not run)

Get the list of the R sessions. Users with administrator or manager role can list the R sessions. Regular users can only list their own.

Usage

rockr.sessions

Arguments

cconn A rockr connection object.

Value

The list of R sessions.

See Also

Other administration functions: rockr.log(), rockr.package_install(), rockr.package_rm(), rockr.packages_datashield(), rockr.packages_rm(), rockr.packages(), rockr.package(), rockr.restart(), rockr.session_switch(), rockr.sessions(), rockr.start(), rockr.status(), rockr.stop(), rockr.version()
rockr.session_switch

Usage

rockr.sessions(conn, subject = NULL)

Arguments

conn A rockr connection object.
subject Filter by subject name owning the sessions (requires administrator or manager role to be effective).

Value

The list of the R session objects.

See Also

Other administration functions: rockr.log(), rockr.package_install(), rockr.package_rm(), rockr.packages_datashield(), rockr.packages_rm(), rockr.packages(), rockr.package(), rockr.restart(), rockr.session_switch(), rockr.session(), rockr.start(), rockr.status(), rockr.stop(), rockr.version()

Examples

## Not run:
conn <- rockr.connect(username='administrator', password='password',
url='https://rocker-demo.obiba.org')
rockr.sessions(conn)

## End(Not run)

---

rockr.session_switch Switch R session

Description

Change the R session that is attached to the connection object. This allows to interact with a R session after another. Of course proper permission apply when executing R operations on this R session.

Usage

rockr.session_switch(conn, session)

Arguments

conn A rockr connection object.
session A R session object.
Value

Void

See Also

Other administration functions: rockr.log(), rockr.package_install(), rockr.package_rm(), rockr.packages_datashield(), rockr.packages_rm(), rockr.packages(), rockr.package(), rockr.restart(), rockr.sessions(), rockr.session(), rockr.start(), rockr.status(), rockr.stop(), rockr.version()

Examples

```r
## Not run:
conn <- rockr.connect(username='administrator', password='password',
                       url='https://rocker-demo.obiba.org')

# open several R sessions
rockr.open(conn)
rockr.open(conn)
sessions <- rockr.sessions(conn)
# switch to first one
rockr.session_switch(conn, sessions[[1]])
conn$session
rockr.close(conn)
# switch to 2nd one
rockr.session_switch(conn, sessions[[2]])
conn$session
rockr.close(conn)

## End(Not run)
```

---

rockr.start Start the R server

Description

Start the R server, if not already running.

Usage

rockr.start(conn)

Arguments

conn A rockr connection object.

Value

Logical indicating whether the R server is running (invisible).
rockr.status

See Also

Other administration functions: rockr.log(), rockr.package_install(), rockr.package_rm(), rockr.packages_datashield(), rockr.packages_rm(), rockr.packages(), rockr.package(), rockr.restart(), rockr.session_switch(), rockr.sessions(), rockr.session(), rockr.status(), rockr.stop(), rockr.version()

Examples

## Not run:
conn <- rockr.connect(username='administrator', password='password',
                      url='https://rocker-demo.obiba.org')
rockr.start(conn)
## End(Not run)

---

**rockr.status**

*Status of the R server*

Description

Get the status of the R server, including information about the server node.

Usage

rockr.status(conn)

Arguments

conn A rockr connection object.

Value

The R server status object.

See Also

Other administration functions: rockr.log(), rockr.package_install(), rockr.package_rm(), rockr.packages_datashield(), rockr.packages_rm(), rockr.packages(), rockr.package(), rockr.restart(), rockr.session_switch(), rockr.sessions(), rockr.session(), rockr.start(), rockr.stop(), rockr.version()

Examples

## Not run:
conn <- rockr.connect(username='administrator', password='password',
                      url='https://rocker-demo.obiba.org')
rockr.status(conn)
## End(Not run)
rockr.stop  
*Stop the R server*

Description

Stop the R server, if running. Any R sessions will be closed.

Usage

`rockr.stop(conn)`

Arguments

- `conn`: A rockr connection object.

Value

Logical indicating whether the R server is running (invisible).

See Also

Other administration functions: `rockr.log()`, `rockr.package_install()`, `rockr.package_rm()`, `rockr.packages_datashield()`, `rockr.packages_rm()`, `rockr.packages()`, `rockr.package()`, `rockr.restart()`, `rockr.session_switch()`, `rockr.sessions()`, `rockr.session()`, `rockr.start()`, `rockr.status()`, `rockr.version()`

Examples

```r
## Not run:
conn <- rockr.connect(username='administrator', password='password',
                       url='https://rocker-demo.obiba.org')
rockr.stop(conn)
## End(Not run)
```

rockr.version  
*Version of the R server*

Description

Get the version object of the R server.

Usage

`rockr.version(conn)`
Arguments

conn A rockr connection object.

Value

A simple.list, same as R.version.

See Also

Other administration functions: rockr.log(), rockr.package_install(), rockr.package_rm(), rockr.packages_datashield(), rockr.packages_rm(), rockr.packages(), rockr.package(), rockr.restart(), rockr.session_switch(), rockr.sessions(), rockr.session(), rockr.start(), rockr.status(), rockr.stop()

Examples

```r
## Not run:
conn <- rockr.connect(username='administrator', password='password',
                       url='https://rocker-demo.obiba.org')
rockr.version(conn, 10)

## End(Not run)
```
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