

Package: rockr (via r-universe)

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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	<i>Assign an R expression or data</i>
--------------	---------------------------------------

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`

See Also

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

Examples

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

rockr.open(conn)
rockr.assign(conn, "mtcars", mtcars)
rockr.assign(conn, "x", 123)
rockr.assign(conn, "y", "abc")
rockr.assign(conn, "z", quote(tibble::tribble(
  ~colA, ~colB,
  'a', 1,
  'b', 2,
  'c', 3
)))
rockr.close(conn)

## End(Not run)
```

`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

<code>conn</code>	A rockr connection object.
<code>symbol</code>	Name of the R symbol.
<code>value</code>	The R object to assign (data.frame, vector, etc.).
<code>async</code>	R script is executed asynchronously within the session (default is <code>FALSE</code>). If <code>TRUE</code> , 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.expr\(\)](#), [rockr.assign\(\)](#)

Examples

```
## 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

```
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

```
## 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

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

## End(Not run)
```

rockr.command	<i>Get an asynchronous command</i>
---------------	------------------------------------

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	<i>List the asynchronous commands</i>
----------------	---------------------------------------

Description

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

Usage

```
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

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

rockr.commands_rm	<i>Remove all asynchronous commands</i>
-------------------	---

Description

Remove all asynchronous R commands in the remote R session.

Usage

```
rockr.commands_rm(conn)
```

Arguments

conn A rockr connection object.

Value

Void

See Also

Other command functions: [rockr.command_result\(\)](#), [rockr.command_rm\(\)](#), [rockr.commands\(\)](#), [rockr.command\(\)](#)

Examples

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

rockr.open(conn)
rockr.commands_rm(conn)
rockr.close(conn)

## End(Not run)
```

`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.

See Also

Other command functions: [rockr.command_rm\(\)](#), [rockr.commands_rm\(\)](#), [rockr.commands\(\)](#), [rockr.command\(\)](#)

Examples

```
## Not run:
conn <- 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	<i>Remove an asynchronous command</i>
------------------	---------------------------------------

Description

Remove an asynchronous R commands in the remote R session.

Usage

```
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

```
## 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)
```

`rockr.connect`*Rocker connection*

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

<code>username</code>	User name in Rocker R server. Can be provided by "rock.username" option.
<code>password</code>	User password in Rocker R server. Can be provided by "rock.password" option.
<code>url</code>	Rocker R server url. Can be provided by "rock.url" option.
<code>opts</code>	Curl options as described by <code>httr</code> (call <code>httr::httr_options()</code> 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  
conn <- rockr.connect(username='administrator', password='password',  
  url='https://rocker-demo.obiba.org')  
  
# explicit access token connection  
conn <- rockr.connect(token='HYG16L00VaX400UardNbiqmr2ByBpRke',  
  url='https://rocker-demo.obiba.org')  
  
# connect using options and user credentials  
options(rockr.username='administrator',  
  rockr.password='password',
```

```
rockr.url='https://rocker-demo.obiba.org')
conn <- rockr.connect()

# connect using options and personal access token
options(rockr.token='HYG16L00VaX400UardNbiqmr2ByBpRke',
  rockr.url='https://rocker-demo.obiba.org')
conn <- rockr.connect()

# connect using ssl key pair
options(rockr.opts=list(
  sslcert='my-publickey.pem',
  sslkey='my-privatekey.pem'))
conn <- rockr.connect(url='https://rocker-demo.obiba.org')

## End(Not run)
```

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

```
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

```
## 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 *Upload a file*

Description

Upload a file into the Rocker R session working directory.

Usage

```
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

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

## End(Not run)
```

rockr.log *Log of the R server*

Description

Get the tail of the R server log.

Usage

```
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\(\)](#), [rockr.version\(\)](#)

Examples

```
## 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

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

Arguments

conn A rockr connection object.

Value

Void

See Also

Other connection functions: [rockr.close\(\)](#), [rockr.connect\(\)](#)

Examples

```
## 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

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

Arguments

conn A rockr connection object.
name The package name.

Value

The R package description object.

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\(\)](#)

Examples

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

## End(Not run)
```

rockr.packages

List of the packages in the R server

Description

Get the list of packages from the R server.

Usage

```
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.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.packages(conn)

## End(Not run)
```

rockr.packages_datashield

List of the settings of the DataSHIELD packages

Description

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

Usage

```
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

```
## 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

```
## 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")
```

Arguments

conn	A rockr connection object.
name	The package name or identifier in the source code repository.
ref	The branch/commit number of the source code repositories.
manager	The package manager: cran, github (gh), bioconductor (bioc).

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.package_rm	<i>Remove a package from the R server</i>
------------------	---

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_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

```
## 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	<i>Restart the R server</i>
---------------	-----------------------------

Description

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

Usage

```
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

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

## End(Not run)
```

rockr.session	<i>Get a R session</i>
---------------	------------------------

Description

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

## End(Not run)
```

rockr.sessions	<i>List of the R sessions</i>
----------------	-------------------------------

Description

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(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

```
## 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).

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	<i>Status of the R server</i>
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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

```
## 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

```
## 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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