

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

### 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 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.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

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 htrr (call htrr::htrr_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
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      *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\\_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>
--------------	-------------------------------

---

**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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