

# Package ‘rsconnect’

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**Type** Package

**Title** Deployment Interface for R Markdown Documents and Shiny Applications

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**Description** Programmatic deployment interface for 'Rpubs', 'shinyapps.io', and 'RStudio Connect'. Supported content types include R Markdown documents, Shiny applications, Plumber APIs, plots, and static web content.

**Depends** R (>= 3.0.0)

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**Suggests** RCurl, callr, httpuv, knitr, plumber (>= 0.3.2), reticulate, rmarkdown (>= 1.1), shiny, sourcetools, testthat, xtable

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rsconnect-package	<i>Deployment Interface for R Markdown Documents and Shiny Applications</i>
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## Description

The ‘rsconnect’ package provides a programmatic deployment interface for RPubs, shinyapps.io, and RStudio Connect. Supported contents types include R Markdown documents, Shiny applications, plots, and static web content.

## Managing Applications

Deploy and manage applications with the following functions:

- `deployApp()`: Deploy a Shiny application to a server.
- `configureApp()`: Configure an application currently running on a server.
- `restartApp()`: Restart an application currently running on a server.
- `terminateApp()`: Terminate an application currently running on a server.
- `deployments()`: List deployment records for a given application directory.

More information on application management is available in the [applications\(\)](#) help page.

## Managing Accounts and Users

Manage accounts on the local system.

- `setAccountInfo()`: Register an account.
- `removeAccount()`: Remove an account.
- `accountInfo()`: View information for a given account.

More information on account management is available in the [accounts\(\)](#) help page.

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accounts	<i>Account Management Functions</i>
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---

## Description

Functions to enumerate and remove accounts on the local system. Prior to deploying applications you need to register your account on the local system.

## Usage

```
accounts(server = NULL)
```

```
accountInfo(name, server = NULL)
```

```
removeAccount(name, server = NULL)
```

**Arguments**

server	Name of the server on which the account is registered (optional; see <a href="#">servers()</a> )
name	Name of account

**Details**

You register an account using the [setAccountInfo\(\)](#) function (for ShinyApps) or [connectUser\(\)](#) function (for other servers). You can subsequently remove the account using the [removeAccount](#) function.

The `accounts` and `accountInfo` functions are provided for viewing previously registered accounts.

**Value**

`accounts` returns a data frame with the names of all accounts registered on the system and the servers on which they reside. `accountInfo` returns a list with account details.

**See Also**

Other Account functions: [connectApiUser\(\)](#), [connectUser\(\)](#), [setAccountInfo\(\)](#)

---

accountUsage

*Show Account Usage*

---

**Description**

Show account usage

**Usage**

```
accountUsage(
  account = NULL,
  server = NULL,
  usageType = "hours",
  from = NULL,
  until = NULL,
  interval = NULL
)
```

**Arguments**

account	Account name. If a single account is registered on the system then this parameter can be omitted.
server	Server name. Required only if you use the same account name on multiple servers.
usageType	Use metric to retrieve (for example: "hours")

from	Date range starting timestamp (Unix timestamp or relative time delta such as "2d" or "3w").
until	Date range ending timestamp (Unix timestamp or relative time delta such as "2d" or "3w").
interval	Summarization interval. Data points at intervals less than this will be grouped. (Number of seconds or relative time delta e.g. "1h").

**Note**

This function only works for ShinyApps servers.

---

addAuthorizedUser      *Add authorized user to application*

---

**Description**

Add authorized user to application

**Usage**

```
addAuthorizedUser(
  email,
  appDir = getwd(),
  appName = NULL,
  account = NULL,
  server = NULL,
  sendEmail = NULL,
  emailMessage = NULL
)
```

**Arguments**

email	Email address of user to add.
appDir	Directory containing application. Defaults to current working directory.
appName	Name of application.
account	Account name. If a single account is registered on the system then this parameter can be omitted.
server	Server name. Required only if you use the same account name on multiple servers.
sendEmail	Send an email letting the user know the application has been shared with them.
emailMessage	Optional character vector of length 1 containing a custom message to send in email invitation. Defaults to NULL, which will use default invitation message.

**Note**

This function works only for ShinyApps servers.

**See Also**

[removeAuthorizedUser\(\)](#) and [showUsers\(\)](#)

---

addLinter

*Add a Linter*

---

**Description**

Add a linter, to be used in subsequent calls to [lint\(\)](#).

**Usage**

```
addLinter(name, linter)
```

**Arguments**

name	The name of the linter, as a string.
linter	A <a href="#">linter()</a> .

**Examples**

```
addLinter("no.capitals", linter(  
  
  ## Identify lines containing capital letters -- either by name or by index  
  apply = function(content, ...) {  
    grep("[A-Z]", content)  
  },  
  
  ## Only use this linter on R files (paths ending with .r or .R)  
  takes = function(paths) {  
    grep("[rR]$", paths)  
  },  
  
  # Use the default message constructor  
  message = function(content, lines, ...) {  
    makeLinterMessage("Capital letters found on the following lines", content, lines)  
  },  
  
  # Give a suggested prescription  
  suggest = "Do not use capital letters in these documents."  
))
```

---

appDependencies	<i>Detect Application Dependencies</i>
-----------------	--

---

### Description

Recursively detect all package dependencies for an application. This function parses all .R files in the application directory to determine what packages the application depends on; and for each of those packages what other packages they depend on.

### Usage

```
appDependencies(appDir = getwd(), appFiles = NULL)
```

### Arguments

appDir	Directory containing application. Defaults to current working directory.
appFiles	The files and directories to bundle and deploy (only if upload = TRUE). Can be NULL, in which case all the files in the directory containing the application are bundled. Takes precedence over appFileManifest if both are supplied.

### Details

Dependencies are determined by parsing application source code and looking for calls to library, require, ::, and :::.

Recursive dependencies are detected by examining the Depends, Imports, and LinkingTo fields of the packages immediately dependent on by the application.

### Value

Returns a data frame listing the package dependencies detected for the application:

package	Name of package
version	Version of package

### Note

Since the Suggests field is not included when determining recursive dependencies of packages, it's possible that not every package required to run your application will be detected.

In this case, you can force a package to be included dependency by inserting call(s) to require within your source directory. This code need not actually execute, for example you could create a standalone file named dependencies.R with the following code:

```
require(xts)
require(colorspace)
```

This will force the `xts` and `colorspace` packages to be installed along with the rest of your application when it is deployed.

### See Also

[rsconnectPackages](#)(Using Packages with rsconnect)

### Examples

```
## Not run:

# dependencies for the app in the current working dir
appDependencies()

# dependencies for an app in another directory
appDependencies("~/projects/shiny/app1")

## End(Not run)
```

---

applications	<i>List Deployed Applications</i>
--------------	-----------------------------------

---

### Description

List all applications currently deployed for a given account.

### Usage

```
applications(account = NULL, server = NULL)
```

### Arguments

account	Account name. If a single account is registered on the system then this parameter can be omitted.
server	Server name. Required only if you use the same account name on multiple servers.

### Value

Returns a data frame with the following columns:

id	Application unique id
name	Name of application
url	URL where application can be accessed
status	Current status of application. Valid values are pending, deploying, running, terminating, and terminated
size	Instance size (small, medium, large, etc.) (on ShinyApps.io)
instances	Number of instances (on ShinyApps.io)
config_url	URL where application can be configured



**Note**

To register an account you call the `setAccountInfo()` function.

**See Also**

`deployApp()`, `terminateApp()`

Other Deployment functions: `deployAPI()`, `deployApp()`, `deployDoc()`, `deploySite()`, `deployTFModel()`

**Examples**

```
## Not run:  
  
# list all applications for the default account  
applications()  
  
# list all applications for a specific account  
applications("myaccount")  
  
# view the list of applications in the data viewer  
View(applications())  
  
## End(Not run)
```

---

authorizedUsers      *(Deprecated) List authorized users for an application*

---

**Description**

(Deprecated) List authorized users for an application

**Usage**

```
authorizedUsers(appDir = getwd())
```

**Arguments**

appDir      Directory containing application. Defaults to current working directory.

---

`configureApp`*Configure an Application*

---

**Description**

Configure an application running on a remote server.

**Usage**

```
configureApp(  
  appName,  
  appDir = getwd(),  
  account = NULL,  
  server = NULL,  
  redeploy = TRUE,  
  size = NULL,  
  instances = NULL,  
  logLevel = c("normal", "quiet", "verbose")  
)
```

**Arguments**

<code>appName</code>	Name of application to configure
<code>appDir</code>	Directory containing application. Defaults to current working directory.
<code>account</code>	Account name. If a single account is registered on the system then this parameter can be omitted.
<code>server</code>	Server name. Required only if you use the same account name on multiple servers (see <a href="#">servers()</a> )
<code>redeploy</code>	Re-deploy application after its been configured.
<code>size</code>	Configure application instance size
<code>instances</code>	Configure number of application instances
<code>logLevel</code>	One of "quiet", "normal" or "verbose"; indicates how much logging to the console is to be performed. At "quiet" reports no information; at "verbose", a full diagnostic log is captured.

**Note**

This function works only for ShinyApps servers.

**See Also**

[applications\(\)](#), [deployApp\(\)](#)

## Examples

```
## Not run:  
  
# set instance size for an application  
configureApp("myapp", size="xlarge")  
  
## End(Not run)
```

---

connectApiUser	<i>Connect Api User Account</i>
----------------	---------------------------------

---

## Description

Connect a user account to the package using an API key for authentication so that it can be used to deploy and manage applications on behalf of the account.

## Usage

```
connectApiUser(account = NULL, server = NULL, apiKey = NULL, quiet = FALSE)
```

## Arguments

account	A name for the account to connect. Optional.
server	The server to connect to. Optional if there is only one server registered.
apiKey	The API key used to authenticate the user
quiet	Whether or not to show messages and prompts while connecting the account.

## Details

This function configures the user to connect using an apiKey in the http auth headers instead of a token. This is less secure but may be necessary when the client is behind a proxy or otherwise unable to authenticate using a token.

## See Also

Other Account functions: [accounts\(\)](#), [connectUser\(\)](#), [setAccountInfo\(\)](#)

---

connectUser	<i>Connect User Account</i>
-------------	-----------------------------

---

**Description**

Connect a user account to the package so that it can be used to deploy and manage applications on behalf of the account.

**Usage**

```
connectUser(account = NULL, server = NULL, quiet = FALSE)
```

**Arguments**

account	A name for the account to connect. Optional.
server	The server to connect to. Optional if there is only one server registered.
quiet	Whether or not to show messages and prompts while connecting the account.

**Details**

When this function is invoked, a web browser will be opened to a page on the target server where you will be prompted to enter your credentials. Upon successful authentication, your local installation of **rsconnect** and your server account will be paired, and you'll be able to deploy and manage applications using the package without further prompts for credentials.

**See Also**

Other Account functions: [accounts\(\)](#), [connectApiUser\(\)](#), [setAccountInfo\(\)](#)

---

deployAPI	<i>Deploy a Plumber API</i>
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---

**Description**

Deploys an application consisting of plumber API routes. The given directory must contain a script returning a `plumb` object or a plumber API definition.

**Usage**

```
deployAPI(api, ...)
```

**Arguments**

api	Path to the API project directory. Must contain either <code>entrypoint.R</code> or <code>plumber.R</code>
...	Additional arguments to <a href="#">deployApp()</a> .

## Details

Deploy a plumber API definition by either supplying a directory containing plumber.R (an API definition) or endpoint.R that returns a plumb object created by plumber::plumb(). See the plumber documentation for more information.

## See Also

Other Deployment functions: [applications\(\)](#), [deployApp\(\)](#), [deployDoc\(\)](#), [deploySite\(\)](#), [deployTFModel\(\)](#)

---

deployApp

*Deploy an Application*

---

## Description

Deploy a [shiny](#) application, an [RMarkdown](#) document, a plumber API, or HTML content to a server.

## Usage

```
deployApp(  
  appDir = getwd(),  
  appFiles = NULL,  
  appFileManifest = NULL,  
  appPrimaryDoc = NULL,  
  appSourceDoc = NULL,  
  appName = NULL,  
  appTitle = NULL,  
  appId = NULL,  
  contentCategory = NULL,  
  account = NULL,  
  server = NULL,  
  upload = TRUE,  
  recordDir = NULL,  
  launch.browser = getOption("rsconnect.launch.browser", interactive()),  
  logLevel = c("normal", "quiet", "verbose"),  
  lint = TRUE,  
  metadata = list(),  
  forceUpdate = getOption("rsconnect.force.update.apps", FALSE),  
  python = NULL,  
  on.failure = NULL,  
  forceGeneratePythonEnvironment = FALSE  
)
```

## Arguments

appDir            Directory containing application. Defaults to current working directory.

appFiles	The files and directories to bundle and deploy (only if upload = TRUE). Can be NULL, in which case all the files in the directory containing the application are bundled. Takes precedence over appFileManifest if both are supplied.
appFileManifest	An alternate way to specify the files to be deployed; a file containing the names of the files, one per line, relative to the appDir.
appPrimaryDoc	If the application contains more than one document, this parameter indicates the primary one, as a path relative to appDir. Can be NULL, in which case the primary document is inferred from the contents being deployed.
appSourceDoc	If the application is composed of static files (e.g HTML), this parameter indicates the source document, if any, as a fully qualified path. Deployment information returned by <code>deployments()</code> is associated with the source document.
appName	Name of application (names must be unique within an account). Defaults to the base name of the specified appDir.
appTitle	Free-form descriptive title of application. Optional; if supplied, will often be displayed in favor of the name. When deploying a new application, you may supply only the appTitle to receive an auto-generated appName.
appId	If updating an application, the ID of the application being updated. Optional unless updating an app owned by another user.
contentCategory	Optional; the kind of content being deployed (e.g. "plot" or "site").
account	Account to deploy application to. This parameter is only required for the initial deployment of an application when there are multiple accounts configured on the system (see <a href="#">accounts</a> ).
server	Server name. Required only if you use the same account name on multiple servers.
upload	If TRUE (the default) then the application is uploaded from the local system prior to deployment. If FALSE then it is re-deployed using the last version that was uploaded. FALSE is only supported on shinyapps.io; TRUE is required on RStudio Connect.
recordDir	Directory where publish record is written. Can be NULL in which case record will be written to the location specified with appDir.
launch.browser	If true, the system's default web browser will be launched automatically after the app is started. Defaults to TRUE in interactive sessions only. If a function is passed, it will be called after the app is started, with the app URL as a paramter.
logLevel	One of "quiet", "normal" or "verbose"; indicates how much logging to the console is to be performed. At "quiet" reports no information; at "verbose", a full diagnostic log is captured.
lint	Lint the project before initiating deployment, to identify potentially problematic code?
metadata	Additional metadata fields to save with the deployment record. These fields will be returned on subsequent calls to <code>deployments()</code> .
forceUpdate	If TRUE, update any previously-deployed app without asking. If FALSE, ask to update. If unset, defaults to the value of <code>getOption("rsconnect.force.update.apps", FALSE)</code> .

python	Full path to a python binary for use by reticulate. Required if reticulate is a dependency of the app being deployed. If python = NULL, and RETICULATE_PYTHON is set in the environment, its value will be used. The specified python binary will be invoked to determine its version and to list the python packages installed in the environment.
on.failure	Function to be called if the deployment fails. If a deployment log URL is available, it's passed as a parameter.
forceGeneratePythonEnvironment	Optional. If an existing requirements.txt file is found, it will be overwritten when this argument is TRUE.

**See Also**

[applications\(\)](#), [terminateApp\(\)](#), and [restartApp\(\)](#)

Other Deployment functions: [applications\(\)](#), [deployAPI\(\)](#), [deployDoc\(\)](#), [deploySite\(\)](#), [deployTFModel\(\)](#)

**Examples**

```
## Not run:

# deploy the application in the current working dir
deployApp()

# deploy an application in another directory
deployApp("~/projects/shiny/app1")

# deploy using an alternative application name and title
deployApp("~/projects/shiny/app1", appName = "myapp",
           appTitle = "My Application")

# deploy specifying an explicit account name, then
# redeploy with no arguments (will automatically use
# the previously specified account)
deployApp(account = "jsmith")
deployApp()

# deploy but don't launch a browser when completed
deployApp(launch.browser = FALSE)

## End(Not run)
```

---

deployDoc

*Deploy a Document*

---

**Description**

Deploys an application consisting of a single R Markdown document or other single file (such as an HTML or PDF document).

**Usage**

```
deployDoc(doc, ...)
```

**Arguments**

doc	Path to the document to deploy.
...	Additional arguments to <code>deployApp()</code> . Do not supply <code>appDir</code> , <code>appFiles</code> , or <code>appPrimaryDoc</code> ; these three parameters are automatically generated by <code>deployDoc</code> from the document.

**Details**

When deploying an R Markdown document, any files which are required to render and display the file must be deployed.

This method discovers these additional files using `rmarkdown::find_external_resources()` from **rmarkdown**.

If you find that the document is missing dependencies, either specify the dependencies explicitly in the document (the documentation for `rmarkdown::find_external_resources()` explains how to do this), or call `deployApp()` directly and specify your own file list in the `appFiles` parameter.

**See Also**

Other Deployment functions: `applications()`, `deployAPI()`, `deployApp()`, `deploySite()`, `deployTFModel()`

---

deployments

*List Application Deployments*

---

**Description**

List deployment records for a given application.

**Usage**

```
deployments(  
  appPath,  
  nameFilter = NULL,  
  accountFilter = NULL,  
  serverFilter = NULL,  
  excludeOrphaned = TRUE  
)
```



**Arguments**

appPath	The path to the content that was deployed, either a directory or an individual document.
nameFilter	Return only deployments matching the given name (optional)
accountFilter	Return only deployments matching the given account (optional)
serverFilter	Return only deployments matching the given server (optional)
excludeOrphaned	If TRUE (the default), return only deployments made by a currently registered account. Deployments made from accounts that are no longer registered (via e.g. <a href="#">removeAccount()</a> ) will not be returned.

**Value**

Returns a data frame with at least following columns:

name	Name of deployed application
account	Account owning deployed application
bundleId	Identifier of deployed application's bundle
url	URL of deployed application
when	When the application was deployed (in seconds since the epoch)
lastSyncTime	When the application was last synced (in seconds since the epoch)
deploymentFile	Name of configuration file

If additional metadata has been saved with the deployment record using the metadata argument to [deployApp\(\)](#), the frame will include additional columns.

**See Also**

[applications\(\)](#) to get a list of deployments from the server, and [deployApp\(\)](#) to create a new deployment.

**Examples**

```
## Not run:

# Return all deployments of the ~/r/myapp directory made with the 'abc'
# account
deployments("~/r/myapp", accountFilter="abc")

## End(Not run)
```

**Description**

Deploy an R Markdown website to a server.

**Usage**

```
deploySite(
  siteDir = getwd(),
  siteName = NULL,
  account = NULL,
  server = NULL,
  render = c("none", "local", "server"),
  launch.browser = getOption("rsconnect.launch.browser", interactive()),
  logLevel = c("normal", "quiet", "verbose"),
  lint = FALSE,
  metadata = list(),
  python = NULL,
  ...
)
```

**Arguments**

siteDir	Directory containing website. Defaults to current working directory.
siteName	Name for the site (names must be unique within an account). Defaults to the base name of the specified siteDir, (or to a name provided by a custom site generation function).
account	Account to deploy application to. This parameter is only required for the initial deployment of an application when there are multiple accounts configured on the system (see <a href="#">accounts</a> ).
server	Server name. Required only if you use the same account name on multiple servers.
render	Rendering behavior for site: "none" to upload a static version of the current contents of the site directory; "local" to render the site locally then upload it; "server" to render the site on the server. Note that for "none" and "local" R scripts (.R) and markdown documents (.Rmd and .md) will not be uploaded to the server.
launch.browser	If true, the system's default web browser will be launched automatically after the app is started. Defaults to TRUE in interactive sessions only. If a function is passed, it will be called after the app is started, with the app URL as a paramter.
logLevel	One of "quiet", "normal" or "verbose"; indicates how much logging to the console is to be performed. At "quiet" reports no information; at "verbose", a full diagnostic log is captured.
lint	Lint the project before initiating deployment, to identify potentially problematic code?
metadata	Additional metadata fields to save with the deployment record. These fields will be returned on subsequent calls to <a href="#">deployments()</a> .

python	Full path to a python binary for use by reticulate. Required if reticulate is a dependency of the app being deployed. If python = NULL, and RETICULATE_PYTHON is set in the environment, its value will be used. The specified python binary will be invoked to determine its version and to list the python packages installed in the environment.
...	Additional arguments to <code>deployApp()</code> . Do not supply <code>appDir</code> , <code>appFiles</code> , or <code>appSourceDoc</code> ; these three parameters are automatically generated by <code>deploySite</code> .

**See Also**

Other Deployment functions: `applications()`, `deployAPI()`, `deployApp()`, `deployDoc()`, `deployTFModel()`

---

deployTFModel	<i>Deploy a TensorFlow saved model</i>
---------------	--

---

**Description**

Deploys a directory containing a Tensorflow saved model file.

**Usage**

```
deployTFModel(modelDir, ...)
```

**Arguments**

modelDir	Path to the saved model directory. MUST contain <i>saved_model.pb</i> or <i>saved_model.pbtxt</i>
...	Additional arguments to <code>deployApp()</code> .

**Details**

Deploy a single Tensorflow saved model as a bundle. Should be passed a directory that contains the *saved\_model.pb* or *saved\_model.pbtxt* file, as well as any variables and assets necessary to load the model.

A saved model directory might look like this:

```
./1/
./1/saved_model.pb or ./1/saved_model.pbtxt
./1/variables/
./1/variables/variables.data-00000-of-00001
./1/variables/variables.index
```

For information on creating saved models, see the Keras method `keras::export_savedmodel.keras.engine.training.M` or the TensorFlow method `tensorflow::export_savedmodel()`. If using the TensorFlow package for R, the official [TensorFlow guide for saving and restoring models](#) may be useful.

**References**

[https://www.tensorflow.org/guide/saved\\_model](https://www.tensorflow.org/guide/saved_model)

**See Also**

Other Deployment functions: [applications\(\)](#), [deployAPI\(\)](#), [deployApp\(\)](#), [deployDoc\(\)](#), [deploySite\(\)](#)

---

forgetDeployment	<i>Forget Application Deployment</i>
------------------	--------------------------------------

---

**Description**

Forgets about an application deployment. This is useful if the application has been deleted on the server, or the local deployment information needs to be reset.

**Usage**

```
forgetDeployment(
  appPath = getwd(),
  name = NULL,
  account = NULL,
  server = NULL,
  dryRun = FALSE,
  force = !interactive()
)
```

**Arguments**

appPath	The path to the content that was deployed, either a directory or an individual document.
name	The name of the content that was deployed (optional)
account	The name of the account to which the content was deployed (optional)
server	The name of the server to which the content was deployed (optional)
dryRun	Set to TRUE to preview the files/directories to be removed instead of actually removing them. Defaults to FALSE.
force	Set to TRUE to remove files and directories without prompting. Defaults to FALSE in interactive sessions.

**Details**

This method removes from disk the file containing deployment metadata. If "name", "account", and "server" are all NULL, then all of the deployments for the application are forgotten; otherwise, only the specified deployment is forgotten.

**Value**

NULL, invisibly.

---

generateAppName	<i>Generate Application Name</i>
-----------------	----------------------------------

---

**Description**

Generate a short name (identifier) for an application given an application title.

**Usage**

```
generateAppName(appTitle, appPath = NULL, account = NULL, unique = TRUE)
```

**Arguments**

appTitle	A descriptive title for the application.
appPath	The path to the application's content, either a directory or an individual document. Optional.
account	The account where the application will be deployed. Optional.
unique	Whether to try to generate a unique name.

**Details**

This function modifies the title until it forms a suitable application name. Suitable application names are 3 - 64 characters long and contain only alphanumeric characters.

The function is intended to be used to find a name for a new application. If appPath and account are both specified, then the returned name will also be unique among locally known deployments of the directory (note that it is not guaranteed to be unique on the server). This behavior can be disabled by setting unique = FALSE.

**Value**

Returns a valid short name for the application.

**Examples**

```
# Generate a short name for a sample application
generateAppName("My Father's Country", "~/fathers-country", "myacct")
```

---

lint	<i>Lint a Project</i>
------	-----------------------

---

**Description**

Takes the set of active linters (see [addLinter\(\)](#)), and applies them to all files within a project.

**Usage**

```
lint(project, files = NULL, appPrimaryDoc = NULL)
```

**Arguments**

project	Path to a project directory.
files	Specific files to lint. Can be NULL, in which case all the files in the directory will be linted.
appPrimaryDoc	The primary file in the project directory. Can be NULL, in which case it's inferred (if possible) from the directory contents.

---

linter	<i>Create a Linter</i>
--------	------------------------

---

**Description**

Generate a linter, which can identify errors or problematic regions in a project.

**Usage**

```
linter(apply, takes, message, suggestion)
```

**Arguments**

apply	Function that, given the content of a file, returns the indices at which problems were found.
takes	Function that, given a set of paths, returns the subset of paths that this linter uses.
message	Function that, given content and lines, returns an informative message for the user. Typically generated with <a href="#">makeLinterMessage()</a> .
suggestion	String giving a prescribed fix for the linted problem.

## Examples

```
addLinter("no.capitals", linter(  
  
  ## Identify lines containing capital letters -- either by name or by index  
  apply = function(content, ...) {  
    grep("[A-Z]", content)  
  },  
  
  ## Only use this linter on R files (paths ending with .r or .R)  
  takes = function(paths) {  
    grep("[rR]$", paths)  
  },  
  
  # Use the default message constructor  
  message = function(content, lines, ...) {  
    makeLinterMessage("Capital letters found on the following lines", content, lines)  
  },  
  
  # Give a suggested prescription  
  suggest = "Do not use capital letters in these documents."  
))
```

---

listBundleFiles	<i>List Files to be Bundled</i>
-----------------	---------------------------------

---

## Description

Given a directory containing an application, returns the names of the files to be bundled in the application.

## Usage

```
listBundleFiles(appDir)
```

## Arguments

appDir            Directory containing the application.

## Details

This function computes results similar to a recursive directory listing from `list.files()`, with the following constraints:

1. If the total size of the files exceeds the maximum bundle size, no more files are listed. The maximum bundle size is controlled by the `rsconnect.max.bundle.size` option.
2. If the total size number of files exceeds the maximum number to be bundled, no more files are listed. The maximum number of files in the bundle is controlled by the `rsconnect.max.bundle.files` option.
3. Certain files and folders that don't need to be bundled, such as those containing internal version control and RStudio state, are excluded.

**Value**

Returns a list containing the following elements:

contents	A list of the files to be bundled
totalSize	The total size of the files

---

makeLinterMessage	<i>Construct a Linter Message</i>
-------------------	-----------------------------------

---

**Description**

Pretty-prints a linter message. Primarily used as a helper for constructing linter messages with [linter\(\)](#).

**Usage**

```
makeLinterMessage(header, content, lines)
```

**Arguments**

header	A header message describing the linter.
content	The content of the file that was linted.
lines	The line numbers from content that contain lint.

---

purgeApp	<i>Purge an Application</i>
----------	-----------------------------

---

**Description**

Purge a currently archived ShinyApps application.

**Usage**

```
purgeApp(appName, account = NULL, server = NULL, quiet = FALSE)
```

**Arguments**

appName	Name of application to purge
account	Account name. If a single account is registered on the system then this parameter can be omitted.
server	Server name. Required only if you use the same account name on multiple servers (see <a href="#">servers()</a> )
quiet	Request that no status information be printed to the console during the termination.



**Note**

This function only works for ShinyApps servers.

**See Also**

[applications\(\)](#), [deployApp\(\)](#), and [restartApp\(\)](#)

**Examples**

```
## Not run:  
  
# purge an application  
purgeApp("myapp")  
  
## End(Not run)
```

---

removeAuthorizedUser    *Remove authorized user from an application*

---

**Description**

Remove authorized user from an application

**Usage**

```
removeAuthorizedUser(  
  user,  
  appDir = getwd(),  
  appName = NULL,  
  account = NULL,  
  server = NULL  
)
```

**Arguments**

user	The user to remove. Can be id or email address.
appDir	Directory containing application. Defaults to current working directory.
appName	Name of application.
account	Account name. If a single account is registered on the system then this parameter can be omitted.
server	Server name. Required only if you use the same account name on multiple servers.

**Note**

This function works only for ShinyApps servers.

**See Also**

[addAuthorizedUser\(\)](#) and [showUsers\(\)](#)

---

restartApp

*Restart an Application*

---

**Description**

Restart an application currently running on a remote server.

**Usage**

```
restartApp(appName, account = NULL, server = NULL, quiet = FALSE)
```

**Arguments**

appName	Name of application to restart
account	Account name. If a single account is registered on the system then this parameter can be omitted.
server	Server name. Required only if you use the same account name on multiple servers (see <a href="#">servers()</a> )
quiet	Request that no status information be printed to the console during the operation.

**Note**

This function works only for ShinyApps servers.

**See Also**

[applications\(\)](#), [deployApp\(\)](#), and [terminateApp\(\)](#)

**Examples**

```
## Not run:  
  
# restart an application  
restartApp("myapp")  
  
## End(Not run)
```

---

rpubsUpload	<i>Upload a file to RPubS</i>
-------------	-------------------------------

---

### Description

This function publishes a file to rpubs.com. If the upload succeeds a list that includes an `id` and `continueUrl` is returned. A browser should be opened to the `continueUrl` to complete publishing of the document. If an error occurs then a diagnostic message is returned in the `error` element of the list.

### Usage

```
rpubsUpload(title, contentFile, originalDoc, id = NULL, properties = list())
```

### Arguments

<code>title</code>	The title of the document.
<code>contentFile</code>	The path to the content file to upload.
<code>originalDoc</code>	The document that was rendered to produce the <code>contentFile</code> . May be <code>NULL</code> if the document is not known.
<code>id</code>	If this upload is an update of an existing document then the <code>id</code> parameter should specify the document id to update. Note that the <code>id</code> is provided as an element of the list returned by successful calls to <code>rpubsUpload</code> .
<code>properties</code>	A named list containing additional document properties (RPubs doesn't currently expect any additional properties, this parameter is reserved for future use).

### Value

A named list. If the upload was successful then the list contains a `id` element that can be used to subsequently update the document as well as a `continueUrl` element that provides a URL that a browser should be opened to in order to complete publishing of the document. If the upload fails then the list contains an `error` element which contains an explanation of the error that occurred.

### Examples

```
## Not run:
# upload a document
result <- rpubsUpload("My document title", "Document.html")
if (!is.null(result$continueUrl))
  browseURL(result$continueUrl)
else
  stop(result$error)

# update the same document with a new title
updateResult <- rpubsUpload("My updated title", "Document.html",
  id = result$id)

## End(Not run)
```

---

 rsconnectOptions      *Package Options*


---

## Description

The **rsconnect** package supports several options that control the method used for http communications, the printing of diagnostic information for http requests, and the launching of an external browser after deployment.

## Details

Supported global options include:

`rsconnect.ca.bundle` Path to a custom bundle of Certificate Authority root certificates to use when connecting to servers via SSL. This option can also be specified in the environment variable `RSCONNECT_CA_BUNDLE`. Leave undefined to use your system's default certificate store.

`rsconnect.check.certificate` Whether to check the SSL certificate when connecting to a remote host; defaults to TRUE. Setting to FALSE is insecure, but will allow you to connect to hosts using invalid certificates as a last resort.

`rsconnect.http` Http implementation used for connections to the back-end service:

<code>libcurl</code>	Secure https using the <code>curl</code> R package
<code>rcurl</code>	Secure https using the <code>Rcurl</code> R package (deprecated)
<code>curl</code>	Secure https using the <code>curl</code> system utility
<code>internal</code>	Insecure http using raw sockets

If no option is specified then `libcurl` is used by default.

`rsconnect.http.trace` When TRUE, trace http calls (prints the method, path, and total milliseconds for each http request)

`rsconnect.http.trace.json` When TRUE, trace JSON content (shows JSON payloads sent to and received from the server)

`rsconnect.http.verbose` When TRUE, print verbose output for http connections (useful only for debugging SSL certificate or http connection problems)

`rsconnect.rcurl.options` A named list of additional cURL options to use when using the `Rcurl` HTTP implementation in R. Run `Rcurl::curlOptions()` to see available options.

`rsconnect.libcurl.options` A named list of additional cURL options to use when using the `curl` HTTP implementation in R. Run `curl::curl_options()` to see available options.

`rsconnect.error.trace` When TRUE, print detailed stack traces for errors occurring during deployment.

`rsconnect.launch.browser` When TRUE, automatically launch a browser to view applications after they are deployed

`rsconnect.locale.cache` When FALSE, disable the detected locale cache (Windows only).

`rsconnect.locale` Override the detected locale.

- `rsconnect.max.bundle.size` The maximum size, in bytes, for deployed content. If not set, defaults to 3 GB.
- `rsconnect.max.bundle.files` The maximum number of files to deploy. If not set, defaults to 10,000.
- `rsconnect.force.update.apps` When TRUE, bypasses the prompt to confirm whether you wish to update previously-deployed content
- `rsconnect.pre.deploy` A function to run prior to deploying content; it receives as an argument the path to the content that's about to be deployed.
- `rsconnect.post.deploy` A function to run after successfully deploying content; it receives as an argument the path to the content that was just deployed.
- `rsconnect.python.enabled` When TRUE, use the python executable specified by the `RETICULATE_PYTHON` environment variable and add a python section to the deployment manifest. By default, python is enabled when deploying to RStudio Connect and disabled when deploying to shinyapps.io.

When deploying content from the RStudio IDE, the `rsconnect` package's deployment methods are executed in a vanilla R session that doesn't execute startup scripts. This can make it challenging to ensure options are set properly prior to push-button deployment, so the `rsconnect` package has a parallel set of "startup" scripts it runs prior to deploying. The follow are run in order, if they exist, prior to deployment:

`$R_HOME/etc/rsconnect.site` Like `Rprofile.site`; for site-wide pre-flight and options.

`~/.rsconnect_profile` Like `.Rprofile`; for user-specific content.

`$PROJECT/.rsconnect_profile` Like `.Rprofile` for projects; `$PROJECT` here refers to the root directory of the content being deployed.

Note that, unlike `.Rprofile`, these files don't replace each other; *all three* will be run if they exist.

## Examples

```
## Not run:

# use curl for http connections
options(rsconnect.http = "curl")

# trace http requests
options(rsconnect.http.trace = TRUE)

# print verbose output for http requests
options(rsconnect.http.verbose = TRUE)

# print JSON content
options(rsconnect.http.trace.json = TRUE)

# don't automatically launch a browser after deployment
options(rsconnect.launch.browser = FALSE)

## End(Not run)
```

## Description

Deployed applications can depend on any package available on CRAN as well as any package hosted in a public [GitHub](#) repository.

When an application is deployed its source code is scanned for dependencies using the `appDependencies()` function. The list of dependencies is sent to the server along with the application source code and these dependencies are then installed alongside the application.

Note that the Suggests dependencies of packages are not automatically included in the list of dependent packages. See the *Note* section of the documentation of the `appDependencies()` function for details on how to force packages to be included in the dependency list.

## CRAN Packages

When satisfying CRAN package dependencies, the server will build the exact versions of packages that were installed on the system from which the application is deployed.

If a locally installed package was not obtained from CRAN (e.g. was installed from R-Forge) and as a result doesn't have a version that matches a version previously published to CRAN then an error will occur. It's therefore important that you run against packages installed directly from CRAN in your local configuration.

## GitHub Packages

It's also possible to depend on packages hosted in public GitHub repositories, so long as they are installed via the `devtools::install_github()` function from the `devtools` package.

This works because `install_github` records the exact Github commit that was installed locally, making it possible to download and install the same source code on the deployment server.

Note that in order for this to work correctly you need to install the very latest version of `devtools` from Github. You can do this as follows:

```
library(devtools)
install_github("r-lib/devtools")
```

## See Also

[appDependencies\(\)](#)

---

servers *Server Management Functions*

---

**Description**

Functions to manage the list of known servers to which **rsconnect** can deploy and manage applications.

**Usage**

```
servers(local = FALSE)

discoverServers(quiet = FALSE)

addConnectServer(url, name = NULL, certificate = NULL, quiet = FALSE)

addServer(url, name = NULL, certificate = NULL, quiet = FALSE)

removeServer(name)

serverInfo(name)

addServerCertificate(name, certificate, quiet = FALSE)
```

**Arguments**

local	Return only local servers (i.e. not shinyapps.io)
quiet	Suppress output and prompts where possible.
url	Server's URL. Should look like <code>http://servername/</code> or <code>http://servername:port/</code> .
name	Optional nickname for the server. If none is given, the nickname is inferred from the server's hostname.
certificate	Optional; a path a certificate file to be used when making SSL connections to the server. The file's contents are copied and stored by the <b>rsconnect</b> package. Can also be a character vector containing the certificate's contents.

**Details**

Register a server with `addServer` or `discoverServers` (the latter is useful only if your administrator has configured server autodiscovery). Once a server is registered, you can connect to an account on the server using `connectUser()`.

The `servers` and `serverInfo` functions are provided for viewing previously registered servers.

There is always at least one server registered (the shinyapps.io server)

**Value**

`servers` returns a data frame with registered server names and URLs. `serverInfo` returns a list with details for a particular server.

**Examples**

```
## Not run:

# register a local server
addServer("http://myrsconnect/", "myserver")

# list servers
servers(local = TRUE)

# connect to an account on the server
connectUser(server = "myserver")

## End(Not run)
```

---

setAccountInfo	<i>Set ShinyApps Account Info</i>
----------------	-----------------------------------

---

**Description**

Configure a ShinyApps account for publishing from this system.

**Usage**

```
setAccountInfo(name, token, secret)
```

**Arguments**

name	Name of account to save or remove
token	User token for the account
secret	User secret for the account

**See Also**

Other Account functions: [accounts\(\)](#), [connectApiUser\(\)](#), [connectUser\(\)](#)

**Examples**

```
## Not run:

# register an account
setAccountInfo("user", "token", "secret")

# remove the same account
removeAccount("user")

## End(Not run)
```



---

setProperty	<i>Set Application property</i>
-------------	---------------------------------

---

**Description**

Set a property on currently deployed ShinyApps application.

**Usage**

```
setProperty(  
  propertyName,  
  propertyValue,  
  appPath = getwd(),  
  appName = NULL,  
  account = NULL,  
  force = FALSE  
)
```

**Arguments**

propertyName	Name of property to set
propertyValue	Value to set property to
appPath	Directory or file that was deployed. Defaults to current working directory.
appName	Name of application
account	Account name. If a single account is registered on the system then this parameter can be omitted.
force	Forcibly set the property

**Note**

This function only works for ShinyApps servers.

**Examples**

```
## Not run:  
  
# set instance size for an application  
setProperty("application.instances.count", 1)  
  
# disable application package cache  
setProperty("application.package.cache", FALSE)  
  
## End(Not run)
```

---

showInvited	<i>List invited users for an application</i>
-------------	--

---

**Description**

List invited users for an application

**Usage**

```
showInvited(appDir = getwd(), appName = NULL, account = NULL, server = NULL)
```

**Arguments**

appDir	Directory containing application. Defaults to current working directory.
appName	Name of application.
account	Account name. If a single account is registered on the system then this parameter can be omitted.
server	Server name. Required only if you use the same account name on multiple servers.

**Note**

This function works only for ShinyApps servers.

**See Also**

[addAuthorizedUser\(\)](#) and [showUsers\(\)](#)

---

showLogs	<i>Show Application Logs</i>
----------	------------------------------

---

**Description**

Show the logs for a deployed ShinyApps application.

**Usage**

```
showLogs(  
  appPath = getwd(),  
  appFile = NULL,  
  appName = NULL,  
  account = NULL,  
  entries = 50,  
  streaming = FALSE  
)
```

**Arguments**

appPath	The path to the directory or file that was deployed.
appFile	The path to the R source file that contains the application (for single file applications).
appName	The name of the application to show logs for. May be omitted if only one application deployment was made from appPath.
account	The account under which the application was deployed. May be omitted if only one account is registered on the system.
entries	The number of log entries to show. Defaults to 50 entries.
streaming	Whether to stream the logs. If TRUE, then the function does not return; instead, log entries are written to the console as they are made, until R is interrupted. Defaults to FALSE.

**Note**

This function only uses the libcurl transport, and works only for ShinyApps servers.

---

showMetrics	<i>Show Application Metrics</i>
-------------	---------------------------------

---

**Description**

Show application metrics of a currently deployed application

**Usage**

```
showMetrics(
  metricSeries,
  metricNames,
  appDir = getwd(),
  appName = NULL,
  account = NULL,
  server = NULL,
  from = NULL,
  until = NULL,
  interval = NULL
)
```

**Arguments**

metricSeries	Metric series to query. Refer to the <a href="#">shinyapps.io documentation</a> for available series.
metricNames	Metric names in the series to query. Refer to the <a href="#">shinyapps.io documentation</a> for available metrics.
appDir	Directory containing application. Defaults to current working directory.

appName	Name of application
account	Account name. If a single account is registered on the system then this parameter can be omitted.
server	Server name. Required only if you use the same account name on multiple servers.
from	Date range starting timestamp (Unix timestamp or relative time delta such as "2d" or "3w").
until	Date range ending timestamp (Unix timestamp or relative time delta such as "2d" or "3w").
interval	Summarization interval. Data points at intervals less than this will be grouped. (Relative time delta e.g. "120s" or "1h" or "30d").

**Note**

This function only works for ShinyApps servers.

---

showProperties      *Show Application property*

---

**Description**

Show properties of an application deployed to ShinyApps.

**Usage**

```
showProperties(appPath = getwd(), appName = NULL, account = NULL)
```

**Arguments**

appPath	Directory or file that was deployed. Defaults to current working directory.
appName	Name of application
account	Account name. If a single account is registered on the system then this parameter can be omitted.

**Note**

This function works only for ShinyApps servers.

---

showUsage	<i>Show Application Usage</i>
-----------	-------------------------------

---

**Description**

Show application usage of a currently deployed application

**Usage**

```
showUsage(  
  appDir = getwd(),  
  appName = NULL,  
  account = NULL,  
  server = NULL,  
  usageType = "hours",  
  from = NULL,  
  until = NULL,  
  interval = NULL  
)
```

**Arguments**

appDir	Directory containing application. Defaults to current working directory.
appName	Name of application
account	Account name. If a single account is registered on the system then this parameter can be omitted.
server	Server name. Required only if you use the same account name on multiple servers.
usageType	Use metric to retrieve (for example: "hours")
from	Date range starting timestamp (Unix timestamp or relative time delta such as "2d" or "3w").
until	Date range ending timestamp (Unix timestamp or relative time delta such as "2d" or "3w").
interval	Summarization interval. Data points at intervals less than this will be grouped. (Relative time delta e.g. "120s" or "1h" or "30d").

**Note**

This function only works for ShinyApps servers.

---

showUsers	<i>List authorized users for an application</i>
-----------	---

---

**Description**

List authorized users for an application

**Usage**

```
showUsers(appDir = getwd(), appName = NULL, account = NULL, server = NULL)
```

**Arguments**

appDir	Directory containing application. Defaults to current working directory.
appName	Name of application.
account	Account name. If a single account is registered on the system then this parameter can be omitted.
server	Server name. Required only if you use the same account name on multiple servers.

**Note**

This function works only for ShinyApps servers.

**See Also**

[addAuthorizedUser\(\)](#) and [showInvited\(\)](#)

---

syncAppMetadata	<i>Sync Application Metadata</i>
-----------------	----------------------------------

---

**Description**

Update the metadata for requested application across all deployments

**Usage**

```
syncAppMetadata(appPath)
```

**Arguments**

appPath	The path to the directory or file that was deployed.
---------	--

**Note**

This function does not update metadata for Shiny and rpubs apps

---

taskLog	<i>Show task log</i>
---------	----------------------

---

**Description**

Writes the task log for the given task

**Usage**

```
taskLog(taskId, account = NULL, server = NULL, output = NULL)
```

**Arguments**

taskId	Task Id
account	Account name. If a single account is registered on the system then this parameter can be omitted.
server	Server name. Required only if you use the same account name on multiple servers (see <a href="#">servers()</a> )
output	Where to write output. Valid values are NULL or stderr

**See Also**

[tasks\(\)](#)

**Examples**

```
## Not run:  
  
# write task log to stdout  
taskLog(12345)  
  
# write task log to stderr  
taskLog(12345, output="stderr")  
  
## End(Not run)
```

---

tasks	<i>List Tasks</i>
-------	-------------------

---

**Description**

List Tasks

**Usage**

```
tasks(account = NULL, server = NULL)
```

**Arguments**

account	Account name. If a single account is registered on the system then this parameter can be omitted.
server	Server name. Required only if you use the same account name on multiple servers (see <a href="#">servers()</a> )

**Value**

Returns a data frame with the following columns:

id	Task id
action	Task action
status	Current task status
created_time	Task creation time
finished_time	Task finished time

**See Also**

[taskLog\(\)](#)

**Examples**

```
## Not run:

# list tasks for the default account
tasks()

## End(Not run)
```

---

terminateApp	<i>Terminate an Application</i>
--------------	---------------------------------

---

**Description**

Terminate and archive a currently deployed ShinyApps application.

**Usage**

```
terminateApp(appName, account = NULL, server = NULL, quiet = FALSE)
```

**Arguments**

appName	Name of application to terminate
account	Account name. If a single account is registered on the system then this parameter can be omitted.



server	Server name. Required only if you use the same account name on multiple servers (see <a href="#">servers()</a> )
quiet	Request that no status information be printed to the console during the termination.

**Note**

This function only works for ShinyApps servers.

**See Also**

[applications\(\)](#), [deployApp\(\)](#), and [restartApp\(\)](#)

**Examples**

```
## Not run:  
  
# terminate an application  
terminateApp("myapp")  
  
## End(Not run)
```

---

unsetProperty	<i>Unset Application property</i>
---------------	-----------------------------------

---

**Description**

Unset a property on currently deployed ShinyApps application (restoring to its default value)

**Usage**

```
unsetProperty(  
  propertyName,  
  appPath = getwd(),  
  appName = NULL,  
  account = NULL,  
  force = FALSE  
)
```

**Arguments**

propertyName	Name of property to unset
appPath	Directory or file that was deployed. Defaults to current working directory.
appName	Name of application
account	Account name. If a single account is registered on the system then this parameter can be omitted.
force	Forcibly unset the property

**Note**

This function only works for ShinyApps servers.

**Examples**

```
## Not run:

# unset application package cache property to revert to default
unsetProperty("application.package.cache")

## End(Not run)
```

---

writeManifest	<i>Create a manifest.json describing deployment requirements.</i>
---------------	---

---

**Description**

Given a directory content targeted for deployment, write a manifest.json into that directory describing the deployment requirements for that content.

**Usage**

```
writeManifest(
  appDir = getwd(),
  appFiles = NULL,
  appPrimaryDoc = NULL,
  contentCategory = NULL,
  python = NULL,
  forceGeneratePythonEnvironment = FALSE
)
```

**Arguments**

appDir	Directory containing the content (Shiny application, R Markdown document, etc).
appFiles	Optional. The full set of files and directories to be included in future deployments of this content. Used when computing dependency requirements. When NULL, all files in appDir are considered.
appPrimaryDoc	Optional. Specifies the primary document in a content directory containing more than one. If NULL, the primary document is inferred from the file list.
contentCategory	Optional. Specifies the kind of content being deployed (e.g. "plot" or "site").
python	Full path to a python binary for use by reticulate. The specified python binary will be invoked to determine its version and to list the python packages installed in the environment. If python = NULL, and RETICULATE_PYTHON is set in the environment, its value will be used.

`forceGeneratePythonEnvironment`

Optional. If an existing `requirements.txt` file is found, it will be overwritten when this argument is `TRUE`.

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