# Package ‘rsconnect’

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**Type** Package

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

**Version** 0.8.24

**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.

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**License** GPL-2

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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.

accounts

Account Management Functions

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)
```
accountUsage

Arguments

  server Name of the server on which the account is registered (optional; see servers())
  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( 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")
addAuthorizedUser

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 then 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.
addLinter

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 linter().

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

Detect Application Dependencies

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, with the exception of any listed in an .rcsignore file. 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 dependend on by the application.

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

<table>
<thead>
<tr>
<th>package</th>
<th>Name of package</th>
</tr>
</thead>
<tbody>
<tr>
<td>version</td>
<td>Version of package</td>
</tr>
</tbody>
</table>

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

```r
## 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

List Deployed Applications

Description

List all applications currently deployed for a given account.

Usage

```r
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
**authorizedUsers**

**Note**

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

**See Also**

`deployApp()`, `terminateApp()`

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

**Examples**

```r
## 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

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

Arguments

- `appName` Name of application to configure
- `appDir` Directory containing application. Defaults to current working directory.
- `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 `servers()`)
- `redeploy` Re-deploy application after its been configured.
- `size` Configure application instance size
- `instances` Configure number of application instances
- `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.

Note

This function works only for ShinyApps servers.

See Also

`applications()`, `deployApp()`
Examples

```r
## Not run:

# set instance size for an application
configureApp("myapp", size="xlarge")

## End(Not run)
```

---

**connectApiUser**  
*Connect Api User Account*

**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**

```r
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

**Connect User Account**

**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**

```r
conentUser(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

**Deploy a Plumber API**

**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**

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

**Arguments**

- `api`: Path to the API project directory. Must contain either `entrypoint.R` or `plumber.R`
- `...`: Additional arguments to `deployApp()`.
Details

Deploy a plumber API definition by either supplying a directory containing plumber.R (an API
definition) or entrypoint.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()
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, with the exception of any listed in an .rcignore file. Takes precedence over appFileManifest if both are supplied.

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.

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.

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 deployments() is associated with the source document.

Name of application (names must be unique within an account). Defaults to the base name of the specified appDir.

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.

If updating an application, the ID of the application being updated. Optional unless updating an app owned by another user.

Optional; the kind of content being deployed (e.g. "plot" or "site").

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 accounts).

Server name. Required only if you use the same account name on multiple servers.

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.

Directory where publish record is written. Can be NULL in which case record will be written to the location specified with appDir.

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 parameter.

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 the project before initiating deployment, to identify potentially problematic code?

Additional metadata fields to save with the deployment record. These fields will be returned on subsequent calls to deployments().
**deployDoc**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>forceUpdate</code></td>
<td>If TRUE, update any previously-deployed app without asking. If FALSE, ask to update. If unset, defaults to the value of <code>getOption(&quot;rsconnect.force.update.apps&quot;,FALSE)</code>.</td>
</tr>
<tr>
<td><code>python</code></td>
<td>Full path to a python binary for use by reticulate. Required if reticulate is a dependency of the app being deployed. If <code>python = NULL</code>, 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.</td>
</tr>
<tr>
<td><code>on.failure</code></td>
<td>Function to be called if the deployment fails. If a deployment log URL is available, it's passed as a parameter.</td>
</tr>
<tr>
<td><code>forceGeneratePythonEnvironment</code></td>
<td>Optional. If an existing requirements.txt file is found, it will be overwritten when this argument is TRUE.</td>
</tr>
</tbody>
</table>

**See Also**

- `applications()`, `terminateApp()`, and `restartApp()`
- Other Deployment functions: `applications()`, `deployAPI()`, `deployDoc()`, `deploySite()`, `deployTFModel()`

**Examples**

```r
## 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*
deployments

**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 deployApp(). Do not supply appDir, appFiles, or appPrimaryDoc; these three parameters are automatically generated by deployDoc 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

)
**deploySite**

### 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. `removeAccount()`) will not be returned.

### Value

Returns a data frame with at least following columns:

<table>
<thead>
<tr>
<th>Column</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Name of deployed application</td>
</tr>
<tr>
<td>account</td>
<td>Account owning deployed application</td>
</tr>
<tr>
<td>bundleId</td>
<td>Identifier of deployed application’s bundle</td>
</tr>
<tr>
<td>url</td>
<td>URL of deployed application</td>
</tr>
<tr>
<td>when</td>
<td>When the application was deployed (in seconds since the epoch)</td>
</tr>
<tr>
<td>lastSyncTime</td>
<td>When the application was last synced (in seconds since the epoch)</td>
</tr>
<tr>
<td>deploymentFile</td>
<td>Name of configuration file</td>
</tr>
</tbody>
</table>

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

```r
## Not run:
# Return all deployments of the ~/r/myapp directory made with the 'abc'
# account
deployments("~/r/myapp", accountFilter="abc")
```

```r
## End(Not run)
```
deploySite

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 accounts).
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 parameter.
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 deployments().
deployTFModel

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 deployApp(). Do not supply appDir, appFiles, or appSourceDoc; these three parameters are automatically generated by deploySite.

See Also

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

deployTFModel

Description

Deploys a directory containing a Tensorflow saved model file.

Usage

deployTFModel(modelDir, ...)

Arguments

modelDir

Path to the saved model directory. MUST contain saved_model.pb or saved_model.pbtxt

... Additional arguments to deployApp().

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.Model() 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
forgetDeployment

See Also

Other Deployment functions: applications(), deployAPI(), deployApp(), deployDoc(), deploySite()

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

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

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**

*Generate Application Name*

**Description**

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

**Usage**

```r
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**

```r
## Not run:
# Generate a short name for a sample application
generateAppName("My Father's Country", "/fathers-country", "myacct")

## End(Not run)
```
lint

Lint a Project

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

Create a Linter

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 makeLinterMessage().
suggestion String giving a prescribed fix for the linted problem.
listBundleFiles

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 List Files to be Bundled

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.

4. In order to stop specific files in the working directory from being listed in the bundle, the files must be listed in the `.rscignore` file. This file must have one file or directory per line with no support for wildcards.

**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**  *Construct a Linter Message*

**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**  *Purge an Application*

**Description**

Purge a currently archived ShinyApps application.

**Usage**

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

Remove authorized user from an application

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 servers())
quiet Request that no status information be printed to the console during the termina-
   tion.

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

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

```r
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 `servers()`)
- **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()`
## 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

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

## Arguments

- **title**: The title of the document.
- **contentFile**: The path to the content file to upload.
- **originalDoc**: The document that was rendered to produce the contentFile. May be NULL if the document is not known.
- **id**: If this upload is an update of an existing document then the id parameter should specify the document id to update. Note that the id is provided as an element of the list returned by successful calls to rpubsUpload.
- **properties**: 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 an 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

```r
## 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:
  - `libcurl` Secure https using the curl R package
  - `rcurl` Secure https using the Rcurl R package (deprecated)
  - `curl` Secure https using the curl system utility
  - `internal` 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)
rsconnectOptions

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")
rsconnectPackages

Using Packages with rsconnect

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 it’s 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:

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

appDependencies()

<table>
<thead>
<tr>
<th>servers</th>
<th>Server Management Functions</th>
</tr>
</thead>
</table>

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 http://servername/ or http://servername:port/.

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 rsconnect 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  Set ShinyApps Account Info

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**

*Set Application property*

**Description**

Set a property on currently deployed ShinyApps application.

**Usage**

```r
setProperty(
  propertyName,  # Name of property to set
  propertyValue,  # Value to set property to
  appPath = getwd(),  # Directory or file that was deployed. Defaults to current working directory.
  appName = NULL,  # Name of application
  account = NULL,  # Account name. If a single account is registered on the system then this parameter can be omitted.
  force = FALSE  # Forcibly set the property
)
```

**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**

```r
## 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

List invited users for an application

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

Show Application Logs

Description

Show the logs for a deployed ShinyApps application.

Usage

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

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

Show Application Metrics

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 shinyapps.io documentation for available series.
metricNames Metric names in the series to query. Refer to the shinyapps.io documentation for available metrics.
appDir Directory containing application. Defaults to current working directory.
showProperties

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 then 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

Show Application Usage

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 then this will be grouped. (Relative time delta e.g. "120s" or "1h" or "30d").

Note

This function only works for ShinyApps servers.
showUsers  
List authorized users for an application

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  
Sync Application Metadata

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

Show task log

Description

Writes the task log for the given task

Usage

```r
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 `servers()`)
- **output**: Where to write output. Valid values are `NULL` or `stderr`

See Also

- `tasks()`

Examples

```r
## Not run:

# write task log to stdout
taskLog(12345)

# write task log to stderr
taskLog(12345, output="stderr")

## End(Not run)
```

tasks

List Tasks

Description

List Tasks

Usage

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

Terminate an Application

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 servers())

Value

Returns a data frame with the following columns:

<table>
<thead>
<tr>
<th>id</th>
<th>Task id</th>
</tr>
</thead>
<tbody>
<tr>
<td>action</td>
<td>Task action</td>
</tr>
<tr>
<td>status</td>
<td>Current task status</td>
</tr>
<tr>
<td>created_time</td>
<td>Task creation time</td>
</tr>
<tr>
<td>finished_time</td>
<td>Task finished time</td>
</tr>
</tbody>
</table>

See Also

taskLog()

Examples

## Not run:

# list tasks for the default account
tasks()

## End(Not run)

---

| terminateApp | Terminate an Application |

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.
### unsetProperty

**server**  
Server name. Required only if you use the same account name on multiple servers (see `servers()`)

**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**

```r
## Not run:

# terminate an application
terminateApp("myapp")

## End(Not run)
```

---

**unsetProperty**

Unset Application property

**Description**

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

**Usage**

```r
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:

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

## End(Not run)

---

**writeManifest**

Create a manifest.json describing deployment requirements.

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

**Usage**

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

verbose

If TRUE, prints progress messages to the console
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