Package 'rsconnect'

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     Applications
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rsconnect-package Deploys cations	nent Interface for R Markdown Documents and Shiny Appli-
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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)
```

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Arguments

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

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 retreive (for example: "hours")

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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.

Description

Add authorized user to application

Usage

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

Arguments

ema:	il	Email address of user to add.
appl	Dir	Directory containing application. Defaults to current working directory.
appl	Name	Name of application.
acco	ount	Account name. If a single account is registered on the system then this parameter can be omitted.
serv	ver	Server name. Required only if you use the same account name on multiple servers.
sen	dEmail	Send an email letting the user know the application has been shared with them.
ema:	ilMessage	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.

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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."
))
```

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|--|

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 .rscignore file. Takes prece-

dence 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:

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)
```

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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

List Deployed Applications

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

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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.

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configureApp C_{ϵ}	Configure an Application
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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

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.

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

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Examples

```
## 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

```
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.

```
Other Account functions: accounts(), connectUser(), setAccountInfo()
```

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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

```
connectUser(
  account = NULL,
  server = NULL,
  quiet = FALSE,
  launch.browser = getOption("rsconnect.launch.browser", interactive())
)
```

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.

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.

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()

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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

```
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()

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,
```

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```
contentCategory = NULL,
  account = NULL,
  server = NULL,
  upload = TRUE,
  recordDir = NULL,
  launch.browser = getOption("rsconnect.launch.browser", interactive()),
  on.failure = NULL,
  logLevel = c("normal", "quiet", "verbose"),
  lint = TRUE,
 metadata = list(),
  forceUpdate = getOption("rsconnect.force.update.apps", FALSE),
  python = NULL,
  forceGeneratePythonEnvironment = FALSE,
  quarto = NULL,
  appVisibility = NULL,
  image = 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 .rscignore file. Takes prece-

dence 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.

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 indi-

cates the source document, if any, as a fully qualified path. Deployment information returned by deployments() 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 accounts).

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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.

on.failure Function to be called if the deployment fails. If a deployment log URL is avail-

able, it's passed 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().

forceUpdate If TRUE, update any previously-deployed app without asking. If FALSE, ask to

update. If unset, defaults to the value of getOption("rsconnect.force.update.apps",

FALSE).

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 RETICU-LATE_PYTHON or RETICULATE_PYTHON_FALLBACK 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 environ-

ment.

forceGeneratePythonEnvironment

Optional. If an existing requirements.txt file is found, it will be overwritten

when this argument is TRUE.

quarto Optional. Full path to a Quarto binary for use deploying Quarto content. The

provided Quarto binary will be used to run quarto inspect to gather informa-

tion about the content.

appVisibility One of NULL, "private", or "public"; the visibility of the deployment. When NULL',

no change to visibility is made. Currently has an effect only on deployments to

shinyapps.io.

image Optional. The name of the image to use when building and executing this con-

tent. If none is provided, RStudio Connect will attempt to choose an image

based on the content requirements.

See Also

applications(), terminateApp(), and restartApp()

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

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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)
# deploy a Quarto website, using the quarto package to
# find the Quarto binary
deployApp("~/projects/quarto/site1", quarto = quarto::quarto_path())
## 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 deployApp(). Do not supply appDir, appFiles, or appPrimaryDoc; these three parameters are automatically generated by deployDoc from the document.

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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

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:

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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)

1astSyncTime 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)
```

deploySite

Deploy a Website

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,
    ...
)
```

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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 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 deployments().
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 or RETICULATE_PYTHON_FALLBACK 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()

Description

Deploys a directory containing a Tensorflow saved model file.

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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.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
```

See Also

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

forgetDeployment Forget Application Deployment

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.

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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.

|--|--|

Description

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

Usage

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

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Arguments

appTitle A descriptive title for the application.

appPath The path to the application's content, either a directory or an individual docu-

ment. 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

```
## 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 in-

ferred (if possible) from the directory contents.

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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.

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."
))
```

24 makeLinterMessage

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

purgeApp 25

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)
```

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 termination.

Note

This function only works for ShinyApps servers.

```
applications(), deployApp(), and restartApp()
```

26 removeAuthorizedUser

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.

```
addAuthorizedUser() and showUsers()
```

resendInvitation 27

resendInvitation	Resend invitation	for invited use	ers of an application
1 CSCHAINVI CACION	nesena invitation	joi invited asc	is of an application

Description

Resend invitation for invited users of an application

Usage

```
resendInvitation(
  invite,
  regenerate = FALSE,
  appDir = getwd(),
  appName = NULL,
  account = NULL,
  server = NULL
)
```

Arguments

invite	The invitation to resend. Can be id or email address.
regenerate	Regenerate the invite code. Can be helpful is the invitation has expired.
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.

```
showInvited()
```

28 restartApp

|--|

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 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()
```

Examples

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

rpubsUpload 29

|--|

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

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 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

30 rsconnectOptions

reconnectOntions	Package Ontions	
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 specied 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))

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

rsconnect.tar By default, rsconnect uses R's internal tar implementation to compress content bundles. This may cause invalid bundles in some environments. In those cases, use this option to specify a path to an alternate tar executable. This option can also be specified in the environment variable RSCONNECT_TAR. Leave undefined to use the default tar implementation.

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.

rsconnectOptions 31

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
```

32 rsconnectPackages

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 sastisfying 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 33

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	$Server's\ URL.\ Should\ look\ like\ http://servername/or\ http://servername:port/.$

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.

34 setAccountInfo

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 35

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 Nalue 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)
```

36 showLogs

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,
  server = NULL,
  entries = 50,
  streaming = FALSE
)
```

showMetrics 37

Arguments

appPath	ppPath 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.	
server	Server name. Required only if you use the same account name on multiple servers.	
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,
  trom = NULL,
  until = NULL,
  interval = NULL
)
```

38 showProperties

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.
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.

Description

Show propreties 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 39

	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 retreive (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.

40 syncAppMetadata

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S	howl	Jse	rs

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 41

task log

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 servers())

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 List Tasks

Description

List Tasks

Usage

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

42 terminateApp

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 servers())

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

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 43

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:
# 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

```
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

44 writeManifest

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

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

```
writeManifest(
  appDir = getwd(),
  appFiles = NULL,
  appPrimaryDoc = NULL,
  contentCategory = NULL,
  python = NULL,
  forceGeneratePythonEnvironment = FALSE,
  quarto = NULL,
  image = NULL,
  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 deploy-

ments 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").

writeManifest 45

python Optional. Full path to a Python binary for use by reticulate. The speci-

fied 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.

 $force {\tt GeneratePythonEnvironment}$

Optional. If an existing requirements.txt file is found, it will be overwritten

when this argument is TRUE.

quarto Optional. Full path to a Quarto binary for use deploying Quarto content. The

provided Quarto binary will be used to run quarto inspect to gather informa-

tion about the content.

image Optional. The name of the image to use when building and executing this con-

tent. If none is provided, RStudio Connect will attempt to choose an image

based on the content requirements.

verbose If TRUE, prints progress messages to the console

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