

Package ‘MolgenisArmadillo’

October 12, 2021

Type Package

Version 1.0.3

Title Armadillo Client for the Armadillo Service

Description A set of functions to be able to manage data shared on a 'MOLGENIS Armadillo' storage server ('MinIO').

Maintainer Sido Haakma <s.haakma@rug.nl>

Depends R (>= 3.6)

Imports httr, urltools, xml2, aws.iam, aws.s3, MolgenisAuth, arrow

Suggests knitr, testthat, mockery, datasets, tibble, rmarkdown, DSMolgenisArmadillo

License LGPL (>= 2.1)

URL <https://github.com/molgenis/molgenis-r-armadillo/>,
<https://molgenis.github.io/molgenis-r-armadillo/>

BugReports <https://github.com/molgenis/molgenis-r-armadillo/issues/>

RoxygenNote 7.1.2

VignetteBuilder knitr

Encoding UTF-8

NeedsCompilation no

Author Sido Haakma [aut, cre] (<<https://orcid.org/0000-0003-1278-9144>>),
Tommy de Boer [aut] (<<https://orcid.org/0000-0002-4492-7225>>),
Fleur Kelpin [aut] (<<https://orcid.org/0000-0003-1527-5130>>),
Morris Swertz [aut] (<<https://orcid.org/0000-0002-0979-3401>>)

Repository CRAN

Date/Publication 2021-10-12 08:30:07 UTC

R topics documented:

.compress_resource	2
.compress_table	3

<code>.load_resource</code>	3
<code>.load_table</code>	4
<code>armadillo.copy_resource</code>	4
<code>armadillo.copy_table</code>	5
<code>armadillo.create_project</code>	6
<code>armadillo.delete_project</code>	7
<code>armadillo.delete_resource</code>	7
<code>armadillo.delete_table</code>	8
<code>armadillo.list_projects</code>	9
<code>armadillo.list_resources</code>	9
<code>armadillo.list_tables</code>	10
<code>armadillo.load_resource</code>	10
<code>armadillo.load_table</code>	11
<code>armadillo.login</code>	12
<code>armadillo.move_resource</code>	13
<code>armadillo.move_table</code>	14
<code>armadillo.upload_resource</code>	15
<code>armadillo.upload_table</code>	15

Index **17**

`.compress_resource` *Helper function for compressing to an RDS file*

Description

Helper function for compressing to an RDS file

Usage

`.compress_resource(resource, file)`

Arguments

`resource` the resource to write to file
`file` the name of the file (without extension)

Value

the extension of the file

`.compress_table` *Helper function for compressing to a parquet file*

Description

Helper function for compressing to a parquet file

Usage

```
.compress_table(table, file)
```

Arguments

`table` the table to write to file
`file` the name of the file (without extension)

Value

the extension of the file

`.load_resource` *Helper function to extract an RDS file*

Description

Helper function to extract an RDS file

Usage

```
.load_resource(file)
```

Arguments

`file` file to extract

Value

the contents of the file

<code>.load_table</code>	<i>Helper function to extract a parquet file</i>
--------------------------	--

Description

Helper function to extract a parquet file

Usage

```
.load_table(file)
```

Arguments

file	file to extract
------	-----------------

Value

the contents of the file, as data frame

<code>armadillo.copy_resource</code>	<i>Copy resource</i>
--------------------------------------	----------------------

Description

Copy resource

Usage

```
armadillo.copy_resource(  
  project,  
  folder,  
  name,  
  new_project = project,  
  new_folder = folder,  
  new_name = name  
)
```

Arguments

project	study or other variable collection
folder	the folder containing the resource
name	specific resource for copy action
new_project	new location of study or other variable collection
new_folder	name of the folder in which to place the copy, defaults to folder
new_name	name of the copy, defaults to name

Value

the response from the server

Examples

```
## Not run:
armadillo.copy_resource(
  project = "gecko",
  folder = "core_all",
  name = "table1",
  new_project = "gecko",
  new_folder = "core_all_v2",
)

## End(Not run)
```

armadillo.copy_table *Copy table*

Description

Copy table

Usage

```
armadillo.copy_table(
  project,
  folder,
  name,
  new_project = project,
  new_folder = folder,
  new_name = name
)
```

Arguments

project	study or other variable collection
folder	the folder containing the table
name	specific table for copy action
new_project	new location of study or other variable collection
new_folder	name of the folder in which to place the copy, defaults to folder
new_name	name of the copy, defaults to name

Value

the response from the server

Examples

```
## Not run:
armadillo.copy_table(
  project = "gecko",
  folder = "core_all",
  name = "table1",
  new_project = "gecko",
  new_folder = "core_all_v2",
)

## End(Not run)
```

armadillo.create_project

Create a project for a variable collection

Description

Create a project for a variable collection

Usage

```
armadillo.create_project(project_name)
```

Arguments

`project_name` The name of the project to create. The project name

- cannot be empty.
- must be no more than 56 characters.
- cannot end with a -.
- must consist of lowercase letters and numbers.

Value

TRUE if successful

Examples

```
## Not run:
armadillo.create_project("gecko")

## End(Not run)
```

armadillo.delete_project
Delete project

Description

A project represents usually a study or collection of variables

Usage

```
armadillo.delete_project(project_name)
```

Arguments

project_name the name of the study or collection of variables name

Examples

```
## Not run:  
armadillo.delete_project(project_name = "gecko")  
  
## End(Not run)
```

armadillo.delete_resource
Delete resource

Description

Delete resource

Usage

```
armadillo.delete_resource(project, folder, name)
```

Arguments

project project to delete the resource from
folder folder to delete the resource from
name resource name

Value

TRUE if successful, otherwise an object of class `aws_error` details

Examples

```
## Not run:
armadillo.delete_resource(
  project = "gecko",
  folder = "core_all",
  name = "table1"
)

## End(Not run)
```

armadillo.delete_table

Delete table

Description

Delete table

Usage

```
armadillo.delete_table(project, folder, name)
```

Arguments

project	project to delete the table from
folder	folder to delete the table from
name	table name

Value

TRUE if successful, otherwise an object of class `aws_error` details

Examples

```
## Not run:
armadillo.delete_table(
  project = "gecko",
  folder = "core_all",
  name = "table1"
)

## End(Not run)
```

```
armadillo.list_projects
```

List the projects

Description

List the projects

Usage

```
armadillo.list_projects()
```

Value

the projects

Examples

```
## Not run:  
armadillo.list_projects()  
  
## End(Not run)
```

```
armadillo.list_resources
```

List the resources in a project

Description

List the resources in a project

Usage

```
armadillo.list_resources(project)
```

Arguments

project the shared project in which the resources are located

Value

the resources in the project

Examples

```
## Not run:  
armadillo.list_resources("gecko")  
  
## End(Not run)
```

armadillo.list_tables *List the tables in a project*

Description

List the tables in a project

Usage

```
armadillo.list_tables(project)
```

Arguments

project the shared project in which the tables are located

Value

the table names, without the extension

Examples

```
## Not run:  
armadillo.list_tables("gecko")  
  
## End(Not run)
```

armadillo.load_resource
Load a resource from a project

Description

Load a resource from a project

Usage

```
armadillo.load_resource(project, folder, name)
```

Arguments

project	study or collection variables
folder	the folder containing the resource
name	name of the resource

Value

the loaded resource

Examples

```
## Not run:  
armadillo.load_resource(  
  project = "gecko",  
  folder = "core_all",  
  name = "lc_core_1"  
)  
  
## End(Not run)
```

armadillo.load_table *Load a table from a project*

Description

Load a table from a project

Usage

```
armadillo.load_table(project, folder, name)
```

Arguments

project	study or collection variables
folder	the folder containing the table
name	name of the table

Value

the contents of the table file, as data frame

Examples

```
## Not run:
armadillo.load_table(
  project = "gecko",
  folder = "core_all",
  name = "lc_core_1"
)

## End(Not run)
```

armadillo.login	<i>Login</i>
-----------------	--------------

Description

Interactively obtains an id token and uses it to create a session token on the minio server.

Usage

```
armadillo.login(armadillo, minio, duration = 900)
```

Arguments

armadillo	URL of the Armadillo server,
minio	URL of the Armadillo MinIO server
duration	MinIO session duration in seconds

Value

the id token

Examples

```
## Not run:
armadillo.login(
  "https://armadillo.dev.molgenis.org",
  "https://armadillo-minio.dev.molgenis.org"
)
armadillo.login("http://localhost:8080", "http://localhost:9000")

## End(Not run)
```

armadillo.move_resource
Move the resource

Description

Move the resource

Usage

```
armadillo.move_resource(  
  project,  
  folder,  
  name,  
  new_project = project,  
  new_folder = folder,  
  new_name = name  
)
```

Arguments

project	a study or collection of variables
folder	the folder containing the resource to move
name	a resource to move
new_project	the project to move the resource to
new_folder	the folder to move the resource to, defaults to folder
new_name	use to rename the file, defaults to name

Value

NULL, invisibly

Examples

```
## Not run:  
armadillo.move_resource(  
  project = "gecko",  
  folder = "core_all",  
  name = "table1",  
  new_project = "gecko",  
  new_folder = "core_all_v2",  
)  
  
## End(Not run)
```

armadillo.move_table *Move the table*

Description

Move the table

Usage

```
armadillo.move_table(  
  project,  
  folder,  
  name,  
  new_project = project,  
  new_folder = folder,  
  new_name = name  
)
```

Arguments

project	a study or collection of variables
folder	the folder containing the table to move
name	a table to move
new_project	the project to move the table to
new_folder	the folder to move the table to, defaults to folder
new_name	use to rename the file, defaults to name

Value

NULL, invisibly

Examples

```
## Not run:  
armadillo.move_table(  
  project = "gecko",  
  folder = "core_all",  
  name = "table1",  
  new_project = "gecko",  
  new_folder = "core_all_v2",  
)  
  
## End(Not run)
```

`armadillo.upload_resource`*Uploads a resource to a folder in a project*

Description

Uploads a resource to a folder in a project

Usage

```
armadillo.upload_resource(project, folder, resource, name = NULL)
```

Arguments

<code>project</code>	the project to upload to
<code>folder</code>	the folder to upload to
<code>resource</code>	the resource to upload
<code>name</code>	name of the resource (optional)

Value

TRUE if successful, otherwise an object of class `aws_error` details

Examples

```
## Not run:  
armadillo.upload_table(  
  project = "gecko",  
  folder = "core_all",  
  table1  
)  
  
## End(Not run)
```

`armadillo.upload_table`*Uploads a table to a folder in a project*

Description

Uploads a table to a folder in a project

Usage

```
armadillo.upload_table(project, folder, table, name = NULL)
```

Arguments

project	the project to upload to
folder	the folder to upload to
table	the table to upload
name	name of the table (optional)

Value

TRUE if successful, otherwise an object of class `aws_error` details

Examples

```
## Not run:  
armadillo.upload_table(  
  project = "gecko",  
  folder = "core_all",  
  table1  
)  
  
## End(Not run)
```


Index

[.compress_resource](#), [2](#)
[.compress_table](#), [3](#)
[.load_resource](#), [3](#)
[.load_table](#), [4](#)

[armadillo.copy_resource](#), [4](#)
[armadillo.copy_table](#), [5](#)
[armadillo.create_project](#), [6](#)
[armadillo.delete_project](#), [7](#)
[armadillo.delete_resource](#), [7](#)
[armadillo.delete_table](#), [8](#)
[armadillo.list_projects](#), [9](#)
[armadillo.list_resources](#), [9](#)
[armadillo.list_tables](#), [10](#)
[armadillo.load_resource](#), [10](#)
[armadillo.load_table](#), [11](#)
[armadillo.login](#), [12](#)
[armadillo.move_resource](#), [13](#)
[armadillo.move_table](#), [14](#)
[armadillo.upload_resource](#), [15](#)
[armadillo.upload_table](#), [15](#)