

# Package: MolgenisArmadillo (via r-universe)

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**Type** Package

**Version** 2.6.3

**Title** Armadillo Client for the Armadillo Service

**Description** A set of functions to manage data shared on a 'MOLGENIS Armadillo' server.

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**Imports** base64enc, httr, urltools, dplyr, purrr, stringr, tidyr, tibble, MolgenisAuth (>= 0.0.25), arrow, rlist, httr2, readr, cli

**Suggests** stringi, withr, knitr, testthat, webmockr, mockery, datasets, 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/>

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---

*.add\_slash\_if\_missing* *Add a Slash to a URL if Missing*

---

**Description**

This function ensures that a given URL string ends with a slash (`'/'`). If the URL does not end with a slash, it appends one.

**Usage**

```
.add_slash_if_missing(url)
```

**Arguments**

`url`                    A character string representing the URL.

**Value**

A character string with a trailing slash if it was missing.

---

.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

---

`.format_api_posts`      *Formats API posts based on subset definition*

---

**Description**

Formats API posts based on subset definition

**Usage**

```
.format_api_posts(posts, subset_def)
```

**Arguments**

|                         |                                       |
|-------------------------|---------------------------------------|
| <code>posts</code>      | A list of API posts                   |
| <code>subset_def</code> | A tibble containing subset definition |

**Value**

A tibble consisting of original `subset_def` with columns 'posts' and 'status' appended.

---

`.get_linkfile_content`      *Helper function to get the contents of a linkfile*

---

**Description**

Helper function to get the contents of a linkfile

**Usage**

```
.get_linkfile_content(project, object_name)
```

**Arguments**

|                          |  |
|--------------------------|--|
| <code>project</code>     | projectname where the linkfile is stored |
| <code>object_name</code> | folder/name of linkfile                  |

**Value**

the contents of the linkfile

---

.load\_linked\_table      *Helper function to extract the source parquet file in a linkfile*

---

**Description**

Helper function to extract the source parquet file in a linkfile

**Usage**

```
.load_linked_table(file, columns)
```

**Arguments**

file                    source table parquet file  
columns                character list of columns to select from source file

**Value**

the contents of the file, as data frame

---

.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

`.load_table`                      *Helper function to extract a parquet file*

---

**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

---

armadillo.copy\_resource  
*Copy resource*

---

**Description**

Copy resource

**Usage**

```
armadillo.copy_resource(  
  project,  
  folder,  
  name,  
  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\_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_folder = "core_all_v2",  
)  
  
## End(Not run)
```

---

armadillo.copy\_table *Copy table*

---

**Description**

Copy table

**Usage**

```
armadillo.copy_table(  
  project,  
  folder,  
  name,  
  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_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_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 = NULL,
  users = NULL,
  overwrite_existing = "choose"
)
```

**Arguments**

|                    |   |
|--------------------|---|
| project_name       | The name of the project to create. The project name <ul style="list-style-type: none"> <li>• cannot be empty.</li> <li>• must be no more than 56 characters.</li> <li>• cannot end with a -.</li> <li>• must consist of lowercase letters and numbers.</li> </ul> |
| users              | A list collection of the users that should have access to the project   |
| overwrite_existing | Character, specifying action to take if project still exists: 'choose' (default) displays a menu giving the option to overwrite or not, 'yes' overwrites the existing project and 'no' exists the function with a message.  |

**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

**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                       |

**Examples**

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

## End(Not run)
```

---

armadillo.get\_projects\_info  
*Gets the Projects information*

---

### **Description**

Gets the Projects information

### **Usage**

```
armadillo.get_projects_info()
```

### **Value**

the projects and their information

### **Examples**

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

---

armadillo.get\_project\_users  
*Gets the users of an given project name*

---

### **Description**

Gets the users of an given project name

### **Usage**

```
armadillo.get_project_users(project_name)
```

### **Arguments**

project\_name    the name of the project to extract the users from

### **Value**

List of all users within "project\_name"

**Examples**

```
## Not run:  
armadillo.get_project_users("some-project")  
  
## End(Not run)
```

---

```
armadillo.install_packages  
      Install package
```

---

**Description**

Installs a user defined package into the provided profile. The package is automatically whitelisted after installation. Only available during development.

**Usage**

```
armadillo.install_packages(paths, profile = "default")
```

**Arguments**

|         |  |
|---------|--|
| paths   | the path(s) to the package(s), can be a vector or a string |
| profile | the selected profile                                       |

---

```
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 *Login*

---

**Description**

Interactively obtains an id token and uses it to create a session token for an Armadillo Service

**Usage**

```
armadillo.login(armadillo)
```

**Arguments**

|           |                              |
|-----------|------------------------------|
| armadillo | URL of the Armadillo server, |
|-----------|------------------------------|

**Value**

the id token

**Examples**

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

## End(Not run)
```

---

armadillo.login\_basic *Login with username / password (meant for dev and test environments)*

---

**Description**

Login with username / password (meant for dev and test environments)

**Usage**

```
armadillo.login_basic(armadillo, username, password)
```

**Arguments**

|           |                             |
|-----------|-----------------------------|
| armadillo | URL of the Armadillo server |
| username  | the username                |
| password  | the password                |

**Examples**

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

## End(Not run)
```

---

`armadillo.move_resource`*Move the resource*

---

**Description**

Move the resource

**Usage**

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

**Arguments**

|                         |  |
|-------------------------|--|
| <code>project</code>    | a study or collection of variables                     |
| <code>folder</code>     | the folder containing the resource to move             |
| <code>name</code>       | a resource to move                                     |
| <code>new_folder</code> | the folder to move the resource to, defaults to folder |
| <code>new_name</code>   | 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_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_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_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_folder = "core_all_v2",  
)  
  
## End(Not run)
```

---

|                  |  |
|------------------|--|
| armadillo.subset | <i>Describes data available to subset and makes subset</i> |
|------------------|--|

---

## Description

This automates the process of:

1. Checking what data is available to create subsets
2. Make the subset

## Usage

```
armadillo.subset(
  input_source = NULL,
  subset_def = NULL,
  source_project = NULL,
  source_folder = NULL,
  source_table = NULL,
  target_project = NULL,
  target_folder = NULL,
  target_table = NULL,
  target_vars = NULL,
  new_project = NULL,
  dry_run = NULL
)
```

## Arguments

|                             |  |
|-----------------------------|--|
| <code>input_source</code>   | Character specifying how information about the target view is provided: choose 'subset_def' if providing a subset definition object, or 'arguments' if providing information directly. |
| <code>subset_def</code>     | R object containing subset definition created by <code>armadillo.subset_definition()</code> . Compulsory if <code>input_source = 'subset_def'</code>                                   |
| <code>source_project</code> | project from which to subset data  |
| <code>source_folder</code>  | folder from which to subset data. Compulsory if <code>input_source = 'arguments'</code> .  |
| <code>source_table</code>   | table from which to subset data. Compulsory if <code>input_source = 'arguments'</code> .   |
| <code>target_project</code> | project to upload subset to. Will be created if it doesn't exist.  |
| <code>target_folder</code>  | folder to upload subset to. Will be created if it doesn't exist. Compulsory if <code>input_source = 'arguments'</code> .   |
| <code>target_table</code>   | table to upload subset to. Compulsory if <code>input_source = 'arguments'</code> .   |
| <code>target_vars</code>    | variables from 'source_table' to include in the view. Compulsory if <code>input_source = 'arguments'</code> .  |
| <code>new_project</code>    | Deprecated: use <code>target_project</code> instead  |
| <code>dry_run</code>        | Defunct: previously enabled dry-run to check which variables are missing   |

**Value**

missing variables provided in the subset definition

**Examples**

```
## Not run:
armadillo.subset(
  source_project = "gecko",
  target_project = "study1",
  subset_def = local_subset
)

## End(Not run)
```

---

armadillo.subset\_definition

*Builds an R object containing info required to make subsets*

---

**Description**

Builds an R object containing info required to make subsets

**Usage**

```
armadillo.subset_definition(reference_csv = NULL, vars = NULL)
```

**Arguments**

|               |  |
|---------------|--|
| reference_csv | .csv file containing details of the variable to subset. Must contain 5 columns: 'source_folder' specifying the folder from which to subset, 'source_table' specifying the table from which to subset, 'target_folder' specifying the folder in which to create the subset 'target_table' specifying the name of the subset and 'variable' specifying the variable(s) to include in the subset. Note that 'source_project' and 'target_project' are specified as arguments to 'armadillo.subset'. |
| vars          | Deprecated: use reference_csv instead  |

**Value**

A dataframe containing variables that is used for input in the armadillo.subset() method

**Examples**

```
## Not run:
armadillo.subset_definition(
  reference_csv = "C:/tmp/vars.csv"
)
```

```
## 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

|          |                                 |
|----------|---------------------------------|
| project  | the project to upload to        |
| folder   | the folder to upload to         |
| resource | the resource to upload          |
| name     | name of the resource (optional) |

### 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) |

**Examples**

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

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