

Package ‘DominoDataR’

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Title 'Domino Data R SDK'

Version 0.3.0

Description A wrapper on top of the 'Domino Data Python SDK' library. It lets you query and access 'Domino Data Sources' directly from your R environment. Under the hood, 'Domino Data R SDK' leverages the API provided by the 'Domino Data Python SDK', which must be installed as a prerequisite. 'Domino' is a platform that makes it easy to run your code on scalable hardware, with integrated version control and collaboration features designed for analytical workflows. See https://docs.dominodatalab.com/en/latest/api_guide/140b48/domino-data-api for more information.

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URL <https://github.com/dominodatalab/DominoDataR>

Encoding UTF-8

RoxygenNote 7.3.3

Imports arrow, ConfigParser, httr, reticulate, urltools, withr

Suggests testthat (>= 3.0.0)

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add_credentials	<i>Add credentials override for the right datasources</i>
-----------------	---

Description

Add credentials override for the right datasources

Usage

```
add_credentials(auth_type, config = list())
```

Arguments

- auth_type Datasource Authentication type
- config existing config override to extend

Value

named list of override configuration values

add_override	<i>Add override configuration values</i>
--------------	--

Description

Add override configuration values

Usage

```
add_override(..., .override = character())
```

Arguments

...	named configuration values.
.override	a named character vector

Value

named list of override configuration values

datasource_client	<i>Create a client to Domino datasources</i>
-------------------	--

Description

Create a client to Domino datasources

Usage

```
datasource_client(  
  api_key = NULL,  
  token_file = NULL,  
  token_url = NULL,  
  token = NULL  
)
```

Arguments

api_key	string key to override the environment variable
token_file	location of file to read token from
token_url	url of the location to read the token from
token	token to be used to authenticate

Value

A `domino_data.data_sources.DataSourceClient`.

encode_url_path	<i>Properly escape a URL path</i>
-----------------	-----------------------------------

Description

Properly escape a URL path

Usage

```
encode_url_path(url)
```

Arguments

url	URL to properly escape
-----	------------------------

Details

Internal only to fix malformed URLs.

Value

escaped url

get_file_url	<i>Get URL for a file in a NetApp volume</i>
--------------	--

Description

Get URL for a file in a NetApp volume

Usage

```
get_file_url(client, volume_unique_name, file_name)
```

Arguments

client	As returned by netapp_volume_client()
volume_unique_name	Unique name of the volume
file_name	Name of the file

Value

URL string for the file

get_object	<i>Retrieve an object from a datasource</i>
------------	---

Description

Retrieve an object from a datasource

Usage

```
get_object(client, datasource, object, as = "raw", override = list())
```

Arguments

client	As returned by datasource_client()
datasource	The name of the datasource to query
object	The object to retrieve
as	Passed through to content
override	Configuration values to override (add_override())

Value

Raw vector representation of the object

get_volume	<i>Get a NetApp volume by name</i>
------------	------------------------------------

Description

Get a NetApp volume by name

Usage

```
get_volume(client, name)
```

Arguments

client	As returned by netapp_volume_client()
name	Unique name of the volume

Value

A Volume object

list_files	<i>List files in a NetApp volume</i>
------------	--------------------------------------

Description

List files in a NetApp volume

Usage

```
list_files(client, volume_unique_name, prefix = "", page_size = 1000)
```

Arguments

client	As returned by netapp_volume_client()
volume_unique_name	Unique name of the volume
prefix	Optional prefix to filter files
page_size	Optional number of files to fetch

Value

A vector of file paths

list_keys	<i>List the keys starting with prefix in an object store</i>
-----------	--

Description

List the keys starting with prefix in an object store

Usage

```
list_keys(client, datasource, prefix = "", override = list(), page_size = 50)
```

Arguments

client	As returned by datasource_client()
datasource	The name of the datasource to query
prefix	Prefix to filter keys to list
override	Configuration values to override (add_override())
page_size	Number of objects to fetch

Value

A vector or string keys

list_snapshots	<i>List snapshots for a NetApp volume</i>
----------------	---

Description

List snapshots for a NetApp volume

Usage

```
list_snapshots(client, volume_unique_name, offset = NULL, limit = NULL)
```

Arguments

client	As returned by netapp_volume_client()
volume_unique_name	Unique name of the volume
offset	Optional offset for pagination
limit	Optional limit for pagination

Value

A list of RemotefsSnapshot objects

list_volumes	<i>List NetApp volumes</i>
--------------	----------------------------

Description

List NetApp volumes

Usage

```
list_volumes(client, offset = NULL, limit = NULL)
```

Arguments

client	As returned by netapp_volume_client()
offset	Optional offset for pagination
limit	Optional limit for pagination

Value

A list of RemotefsVolume objects

load_aws_credentials	<i>Load AWS Credentials</i>
----------------------	-----------------------------

Description

Load AWS Credentials

Usage

load_aws_credentials(location, profile = NULL)

Arguments

- | | |
|----------|---|
| location | file path where AWS credentials are located |
| profile | AWS profile or section to use |

Value

named list of override configuration values

load_oauth_credentials	<i>Load OAuth Credentials</i>
------------------------	-------------------------------

Description

Load OAuth Credentials

Usage

load_oauth_credentials(env_var, path)

Arguments

- | | |
|---------|--|
| env_var | the environment variable name containing the API proxy URL |
| path | the API endpoint path for retrieving the token |

Value

named list of override configuration values

make_request	<i>Make the HTTP request</i>
--------------	------------------------------

Description

Make the HTTP request

Usage

```
make_request(verb, url, config, headers, request_body, write_disk)
```

Arguments

verb	A character string containing an HTTP verb
url	Signed URL to download object at.
config	A list of config values for the REST call.
headers	A list of request headers for the REST call.
request_body	A character string containing request body data.
write_disk	An argument like write_disk to write the result directly to disk.

Details

Internal only to enable retry for malformed URLs.

Value

a [response](#) object.

netapp_volume_client	<i>Create a client for NetApp volumes</i>
----------------------	---

Description

Create a client for NetApp volumes

Usage

```
netapp_volume_client(token_file = NULL, token_url = NULL, token = NULL)
```

Arguments

token_file	location of file to read token from
token_url	url of the location to read the token from
token	token to be used to authenticate

Value

A domino_data.netapp_volumes.NetAppVolumeClient.

object_http	<i>HTTP requests for Object Stores</i>
-------------	--

Description

HTTP requests for Object Stores

Usage

```
object_http(  
  verb = "GET",  
  url,  
  datasource_type,  
  config = list(),  
  headers = list(),  
  request_body = "",  
  write_disk = NULL  
)
```

Arguments

- verb A character string containing an HTTP verb, defaulting to “GET”.
- url Signed URL to download object at.
- datasource_type Type of datasource the object is stored in.
- config A list of config values for the REST call.
- headers A list of request headers for the REST call.
- request_body A character string containing request body data.
- write_disk An argument like [write_disk](#) to write the result directly to disk.

Details

This is mostly for internal use by object store APIs.

Value

a [response](#) object.

put_object	<i>Upload an object to a datasource</i>
------------	---

Description

Upload an object to a datasource

Usage

```
put_object(client, datasource, object, what, override = list())
```

Arguments

client	As returned by datasource_client()
datasource	The name of the datasource to query
object	The object to retrieve
what	character vector, raw vector
override	Configuration values to override (add_override())

Value

Raw vector representation of the object

put_volume_object	<i>Upload content to a NetApp volume</i>
-------------------	--

Description

Upload content to a NetApp volume

Usage

```
put_volume_object(client, volume_unique_name, object, what, override = list())
```

Arguments

client	As returned by netapp_volume_client()
volume_unique_name	Unique name of the volume
object	The object key to create/overwrite
what	character vector, raw vector
override	Configuration values to override (add_override())

Value

HTTP status message

`py_domino_data_install`*Install domino_data Python package*

Description

Install domino_data Python package

Usage

```
py_domino_data_install(version)
```

Arguments

`version` Version of the domino_data package to install.

Value

TRUE if installation was successful, FALSE otherwise.

`py_select_interpreter` *Tell reticulate to use Python Conda version available on Domino Data Lab.*

Description

Provide other options in case the package is used for local development.

Usage

```
py_select_interpreter()
```

Value

TRUE if a python binary was bound to reticulate, FALSE otherwise

query	<i>Query a datasource and returns an arrow Table</i>
-------	--

Description

Query a datasource and returns an arrow Table

Usage

```
query(client, datasource, query, override = list())
```

Arguments

client	As returned by datasource_client()
datasource	The name of the datasource to query
query	The query to run against the provided datasource
override	Configuration values to override (add_override())

Value

An [arrow::Table](#)

save_object	<i>Save an object from a datasource to a local file</i>
-------------	---

Description

Save an object from a datasource to a local file

Usage

```
save_object(  
  client,  
  datasource,  
  object,  
  file = basename(object),  
  override = list()  
)
```

Arguments

client	As returned by datasource_client()
datasource	The name of the datasource to query
object	The object to retrieve
file	File path to save object at. Defaults to the object base name.
override	Configuration values to override (add_override())

Value

Raw vector representation of the object

save_volume_object	<i>Save an object from a NetApp volume to a local file</i>
--------------------	--

Description

Save an object from a NetApp volume to a local file

Usage

```
save_volume_object(  
  client,  
  volume_unique_name,  
  object,  
  file = basename(object),  
  override = list()  
)
```

Arguments

- client As returned by [netapp_volume_client\(\)](#)
- volume_unique_name Unique name of the volume
- object The object to retrieve
- file File path to save object at. Defaults to the object base name.
- override Configuration values to override ([add_override\(\)](#))

Value

File path where object was saved

upload_object	<i>Upload a file to a datasource</i>
---------------	--------------------------------------

Description

Upload a file to a datasource

Usage

```
upload_object(client, datasource, object, file, override = list())
```

Arguments

client	As returned by datasource_client()
datasource	The name of the datasource to query
object	The object to retrieve
file	File path to upload..
override	Configuration values to override (add_override())

Value

Raw vector representation of the object

upload_volume_object	<i>Upload a file to a NetApp volume</i>
----------------------	---

Description

Upload a file to a NetApp volume

Usage

```
upload_volume_object(  
  client,  
  volume_unique_name,  
  object,  
  file,  
  override = list()  
)
```

Arguments

client	As returned by netapp_volume_client()
volume_unique_name	Unique name of the volume
object	The object key in the volume
file	File path to upload
override	Configuration values to override (add_override())

Value

HTTP status message

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