Package 'neptune'

October 13, 2022

Type Package

Title MLOps Metadata Store - Experiment Tracking and Model Registry for Production Teams

Version 0.2.3

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Description

An interface to Neptune. A metadata store for MLOps, built for teams that run a lot of experiments. It gives you a single place to log, store, display, organize, compare, and query all your model-building metadata.

Neptune is used for:

- Experiment tracking: Log, display, organize, and compare ML experiments in a single place.
- Model registry: Version, store, manage, and query trained models, and model building metadata.
- Monitoring ML runs live: Record and monitor model training, evaluation, or production runs live For more information see https://neptune.ai/>.

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URL https://github.com/neptune-ai/neptune-r

BugReports https://github.com/neptune-ai/neptune-r/issues

Encoding UTF-8

SystemRequirements Python (>= 3.0.0), Neptune (https://neptune.ai/)

Imports reticulate (>= 1.22), this.path (>= 0.4.4), rstudioapi (>= 0.7), ggplot2 (>= 3.3.5), plotly (>= 4.9.4.1), htmlwidgets (>= 1.5.3), methods

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neptune_add

Adds the provided tag or tags to the run's tags.

Description

Adds the provided tag or tags to the run's tags.

Usage

Index

```
neptune_add(x, values, wait=FALSE)
```

3 neptune_assign

Arguments

values

Field for which we want to add tags eg. run['sys/tags'] Х string or list of strings - Tag or tags to be added.

logical - If TRUE the client will wait to send all tracked metadata to the server wait

before making the assignment. This makes the call synchronous.

Value

None

Author(s)

Authors:

- · Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev

 backend@neptune.ai>

See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

Examples

```
## Not run:
# We are using api token for an anonymous user neptuner. For your projects use your private token.
run <- neptune_init(api_token = 'ANONYMOUS',</pre>
                     project = "common-r/quickstarts")
neptune_add(run['sys/tags'], 'lgbm')
## End(Not run)
```

neptune_assign

Assigns the provided value to the field.

Description

Assigns the provided value to the field.

```
neptune_assign(x, value, wait=FALSE)
```

4 neptune_clear

Arguments

x Field or run, for which we want to assign the value

value Value to be stored in a field.

wait logical - If TRUE the client will wait to send all tracked metadata to the server.

This makes the call synchronous.

Value

None

Author(s)

Authors:

- · Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev

 backend@neptune.ai>

See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

Examples

neptune_clear

Removes all tags from the StringSet.

Description

Removes all tags from the StringSet.

```
neptune_clear(x, wait=FALSE)
```

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Arguments

x Field

wait logical - If TRUE the client will wait to send all tracked metadata to the server

before making the assignment. This makes the call synchronous.

Value

None

Author(s)

Authors:

- Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev

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See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

Examples

Description

Delete the file or files specified by paths from the FileSet stored on the Neptune servers.

```
neptune_delete_files(x, paths, wait=FALSE)
```

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Arguments

x Field

paths character or vector of characters - Path or paths to files or folders to be deleted.

Note that these are paths relative to the FileSet itself e.g. if the FileSet contains file example.txt, varia/notes.txt, varia/data.csv to delete whole subfolder

you would pass varia as the argument.

wait logical - If TRUE the client will wait to send all tracked metadata to the server

before making the assignment. This makes the call synchronous.

Value

None

Author(s)

Authors:

- Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev

 backend@neptune.ai>

See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

Examples

neptune_download

Downloads all the files that are referenced in the field.

Description

Downloads all the files that are referenced in the field.

```
neptune_download(x, destination)
```

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Arguments

x Field for which we want to download the files

destination

(character - The directory where the files will be downloaded. If NULL is passed, the files will be downloaded to the current working directory.

If destination is a directory, the file will be downloaded to the specified directory with a filename composed from field name and extension (if present).

If destination is a path to a file, the file will be downloaded under the specified name.

Value

None

Author(s)

Authors:

- · Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev<backend@neptune.ai>

See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

Description

Downloads the last File stored in the series from Neptune servers and save it locally.

Usage

```
neptune_download_last(x, destination=NULL)
```

Arguments

x Field

destination

character - The directory where the file will be downloaded. If NULL is passed, the file will be downloaded to the current working directory. If destination is a directory, the file will be downloaded to the specified directory with a filename composed from field name and extension (if present). If destination is a path to a file, the file will be downloaded under the specified name.

Value

None

Author(s)

Authors:

- · Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev
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See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

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neptune_exists

Checks if there is any field or namespace under the specified path.

Description

Checks if there is any field or namespace under the specified path. Note that this method checks the local representation of the run. The field may have been created by another process (use neptune_sync(run) to synchronize local representation) or the metadata may have not reached the Neptune servers so it may be impossible to fetch (use neptune_wait(run) to wait for all tracking calls to finish).

Usage

```
neptune_exists(run, path)
```

Arguments

run Neptune run object.

path character - The path to check for the existence of a field or a namespace

Value

logical - TRUE if field exists at path

Author(s)

Authors:

- · Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev<backend@neptune.ai>

See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

10 neptune_fetch

```
neptune_exists(run, 'notlr')
## End(Not run)
```

neptune_fetch

Fetch values of all non-File Atom fields as a named list.

Description

Fetch values of all non-File Atom fields as a named list. The result will preserve the hierarchical structure of the run's metadata, but will contain only non-File Atom fields. You can use this method to quickly retrieve previous run's parameters.

Usage

```
neptune_fetch(x)
```

Arguments

Х

Field or run, for which we want to fetch the value

Value

named list containing all non-File Atom fields values.

Author(s)

Authors:

- · Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev
backend@neptune.ai>

See Also

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

Fetches a list of artifact files from the Neptune servers.

Description

Fetches a list of artifact files from the Neptune servers.

Usage

```
neptune_fetch_files_list(x)
```

Arguments

x Field

Value

List of ArtifactFileData objects for all the files referenced in the artifacts. ArtifactFileDatahas the following fields that you can use: file_hash: str, Hash of the file file_path: str, URL of the file in the Neptune UI size: int, Size of the file in KB metadata: dict, dictionary with the following keys: file_path: a location (path) of the file either on local storage or S3-compatible storage last_modified: when was the last the artifact content was changed

Author(s)

Authors:

- · Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev
backend@neptune.ai>

12 neptune_fetch_hash

See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

Examples

neptune_fetch_hash

Fetches the Hash of the artifact from Neptune servers.

Description

Fetches the Hash of the artifact from Neptune servers.

Usage

```
neptune_fetch_hash(x)
```

Arguments

Χ

Field

Value

Hash of a Neptune artifact as a character.

Author(s)

Authors:

- · Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev
backend@neptune.ai>

neptune_fetch_last 13

See Also

Useful links:

```
• https://neptune.ai/
```

- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

Examples

neptune_fetch_last

Fetches last value stored in the series from Neptune servers.

Description

Fetches last value stored in the series from Neptune servers.

Usage

```
neptune_fetch_last(x)
```

Arguments

Χ

Field

Value

Last float value logged.

Author(s)

Authors:

- Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev
backend@neptune.ai>

See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

Examples

neptune_fetch_runs_table

Retrieve runs matching the specified criteria.

Description

Retrieve runs matching the specified criteria. All parameters are optional, each of them specifies a single criterion. Only runs matching all of the criteria will be returned. Due to technical limitation only first 10,000 runs matching the criteria are fetched.

Usage

```
neptune_fetch_runs_table(project, id = NULL, state = NULL, owner = NULL, tag = NULL)
```

Arguments

project	string - project name
id	(string or vector of strings, optional, default is NULL) - A run's id like "SAN-1" or list of ids like $c("SAN-1", "SAN-2")$. Matching any element of the list is sufficient to pass the criterion.
state	(string or vector of strings, optional, default is NULL) - A run's state like "active" or list of states like c("inactive", "active"). Possible values: "inactive", "active". Matching any element of the list is sufficient to pass the criterion.
owner	(string or vector of strings, optional, default is NULL) - Username of the run's owner (the user who created the tracked run is an owner) like "josh" or a list of owners like c("frederic", "josh"). Matching any element of the list is sufficient to pass the criterion.
tag	(string or vector of strings, optional, default is NULL) - An experiment tag like "lightGBM" or list of tags like c("pytorch", "cycleLR"). Only experiments that have all specified tags will match this criterion.

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Value

RunsTable data in the form of DataFrame.

Author(s)

Authors:

- Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev
backend@neptune.ai>

See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

Examples

Description

Fetches all values stored in the series from Neptune servers.

Usage

```
neptune_fetch_values(x, include_timestamp=TRUE)
```

Arguments

```
x Field include_timestamp
```

logical - Whether to include the fetched data should include the timestamp field.

Value

data.frame containing all the values and their indexes stored in the series field.

Author(s)

Authors:

- Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev<backend@neptune.ai>

See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

Examples

Description

Converts an object to an HTML File value object. This way you can upload ggplot2, Plotly interactive charts or upload directly DataFrame objects to explore them in Neptune UI.

Usage

```
neptune_file_as_html(x)
```

Arguments

Х

An object to be converted. Supported are ggplot2, Plotly and DataFrame objects. R matrices must be converted to numpy arrays via reticulate::np_array R dataframes are automatically converted to Pandas

Value

None

neptune_file_as_image

Author(s)

Authors:

- · Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev
backend@neptune.ai>

See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

image File value object.

Examples

Description

Static method for converting image objects or image-like objects to an image File value object. This way you can upload ggplot2 objects, matrices, as static images.

Usage

```
neptune_file_as_image(x, ...)
```

Arguments

x In docs there is Image-like object to be converted. Supported are ggplot2 objects, matrices, as static images. R matrices must be converted to numpy arrays via reticulate::np_array

Other arguments passed on to the ggsave function

Value

None

18 neptune_get_run_url

Author(s)

Authors:

- Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev

 backend@neptune.ai>

See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

Examples

neptune_get_run_url

Returns a direct link to run in Neptune. It's the same link that is printed at the moment of initialization of the run.

Description

Returns a direct link to run in Neptune. It's the same link that is printed at the moment of initialization of the run.

Usage

```
neptune_get_run_url(run)
```

Arguments

run

Neptune run object.

Value

```
character - URL of the run in Neptune
```

neptune_get_structure 19

Author(s)

Authors:

- · Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev
backend@neptune.ai>

See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

Examples

Description

Returns a run's metadata structure in form of a named list. This method can be used to traverse the run's metadata structure programmatically when using Neptune in automated workflows.

Usage

```
neptune_get_structure(run)
```

Arguments

run

Neptune run object.

Value

Named list containing all metadata stored for run

20 neptune_init

Author(s)

Authors:

- · Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev

 backend@neptune.ai>

See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

Examples

Description

Starts a new tracked run, and append it to the top of the Runs table view. All parameters are optional, hence minimal invocation: run <- neptune_init().

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capture_stderr = TRUE, capture_hardware_metrics = TRUE, capture_traceback = TRUE, monitoring_namespace = NULL, fail_on_exception = TRUE, flush_period = 5, proxies = NULL)

Arguments

project character – Name of a project in a form of namespace/project_name. If NULL,

the value of NEPTUNE_PROJECT environment variable will be taken.

api_token character – User's API token. If NULL, the value of NEPTUNE_API_TOKEN

environment variable will be taken. Note: It is strongly recommended to use NEPTUNE_API_TOKEN environment variable rather than placing your API

token in plain text in your source code.

run character – An existing run's identifier like'SAN-1' in case of resuming a tracked

run. A run with such identifier must exist. If NULL is passed, starts a new

tracked run. See Resume run guide.

python character - one of python, conda, miniconda, venv. Specifies which type of

python's backend should be used.

python_path character - path to python executable.

source_files character vector - List of source files to be uploaded. Must be list of str or single

str. Uploaded sources are displayed in the run's Source code tab.

If NULL is passed, for non-interactive sessions the R script from which the

method is called will be uploaded.

Unix style pathname pattern expansion is supported. For example, you can pass '*.py' to upload all python source files from the current directory. For Python 3.5 or later, paths of uploaded files on server are resolved as relative to the calculated common root of all uploaded source files. For older Python versions, paths on server are resolved always as relative to the current directory. For recursion lookup use '**/*.py' (for Python 3.5 and later). For more information see glob

library.

mode character – Connection mode in which the tracking will work. Possible values

"async", "sync", "offline", and "debug", "read-only". See Connection modes

guide.

custom_run_id character - A unique identifier that can be used to log metadata to a single

run from multiple files or processes. The maximum length of the identifier is 32 characters. Make sure you are using the same identifier everywhere. See Pipelines guide. If NULL and the NEPTUNE_CUSTOM_RUN_ID environ-

ment variable is set Neptune will use its value as custom_run_id.

name character – Editable name of the run. Name is displayed in the run's Details and

in Runs table as a column.

description character – Editable description of the run. Description is displayed in the run's

Details and can be displayed in the runs view as a column.

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tags character vector – Tags of the run. They are editable after run is created. Tags

are displayed in the run's Details and can be viewed in Runs table view as a

column.

capture_stdout logical - Whether to send python's stdout. Tracked metadata will be stored

inside monitoring_namespace.

capture_stderr logical - Whether to send python's stderr. Tracked metadata will be stored inside

monitoring_namespace.

capture_hardware_metrics

logical – Whether to send hardware monitoring logs (CPU, GPU, Memory uti-

lization). Tracked metadata will be stored inside monitoring_namespace.

capture_traceback

logical – Whether to send run's traceback in case of an exception on Python's

side.

monitoring_namespace

character - Namespace inside which all monitoring logs be stored.

fail_on_exception

logical - Whether to set run's as True, if an uncaught exception on python's side

happens.

flush_period numeric - how often asynchronous thread should synchronize data with Neptune

servers. Value in seconds.

proxies named list (python's dict) - Argument passed to HTTP calls made via the python's

Requests library. For more information see their proxies section.

Value

Run object that is used to manage the tracked run and log metadata to it.

Author(s)

Authors:

- · Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev
backend@neptune.ai>

See Also

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

neptune_install 23

Examples

neptune_install

Install neptune-client along with required python environment.

Description

neptune_install() installs just the neptune-client python package and it's direct dependencies.

Usage

```
neptune_install(method = c("auto", "virtualenv", "conda"),
  conda = "auto",
  version = "0.16",
  envname = NULL,
  extra_packages = c("psutil"),
  restart_session = TRUE,
  conda_python_version = "3.7",
  ...,
  python_version = conda_python_version)
```

Arguments

method Installation method. By default, "auto" automatically finds a method that will work in the local environment. Change the default to force a specific installation method. Note that the "virtualenv" method is not available on Windows. The path to a conda executable. Use "auto" to allow reticulate to automatically conda find an appropriate conda binary. See Finding Conda for more details. version Neptune-client version to install. Valid values include: + "default" installs 'r default_version' + "release" installs the latest release version of neptune-client + A version specification like "0.9" or "0.9.16". Note that if the patch version is not supplied, the latest patch release is installed + The full URL or path to a installer binary or python *.whl file. envname The name, or full path, of the environment in which Python packages are to be installed. When NULL (the default), the active environment as set by the RETICULATE_PYTHON_ENV variable will be used; if that is unset, then the r-reticulate environment will be used.

extra_packages Additional Python packages to install along with Neptune

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```
restart_session
```

Restart R session after installing (note this will only occur within RStudio).

conda_python_version

python_version,conda_python_version the python version installed in the created conda environment. Ignored when attempting to install with a Python virtual environment.

other arguments passed to [reticulate::conda_install()] or [reticulate::virtualenv_install()], depending on the 'method' used. Accepts 'pip_ignore_installed=TRUE'.

python_version The requested Python version. Ignored when attempting to install with a Python virtual environment.

Author(s)

Authors:

- · Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev

 backend@neptune.ai>

See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

Examples

```
## Not run:
neptune_install()
## End(Not run)
```

neptune_log

Logs the provided number or a collection of numbers.

Description

Logs the provided number or a collection of numbers. Available for following field types (https://docs.neptune.ai/apireference/field-types): * 'FloatSeries' * 'StringSeries' * 'FileSeries'

```
neptune_log(x, value, step=NULL, timestamp=NULL, wait=FALSE, ...)
```

neptune_log 25

Arguments

Х	Field, for which we want to log value
value	Value or collection of values to be added to the field.
step	(numeric or integer) - Index of the log entry being appended. Must be strictly increasing.
timestamp	(numeric or integer) - Time index of the log entry being appended in form of Unix time. If NULL current time will be used as a timestamp.
wait	logical - If TRUE the client will wait to send all tracked metadata to the server before making the assignment. This makes the call synchronous.
	Other arguments passed on to the ggsave function in case of logging a ggplot2 object.

Value

None

Author(s)

Authors:

- · Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev<backend@neptune.ai>

See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

26 neptune_pop

neptune_pop	Removes the field or whole namespace stored under the path completely and all data associated with them.
	1 2

Description

Removes the field or whole namespace stored under the path completely and all data associated with them.

Usage

```
neptune_pop(run, path, wait=TRUE)
```

Arguments

run Neptune run object.

path character - Path of the field or namespace to be removed.

wait logical - If TRUE the client will first wait to send all tracked metadata to the server. This makes the call synchronous, see Connection modes guide.

Value

None

Author(s)

Authors:

- · Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev

 backend@neptune.ai>

See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

neptune_print_structure 27

```
neptune_pop(run, 'lr')
## End(Not run)
```

neptune_print_structure

Pretty prints the structure of the run's metadata. Paths are ordered lexicographically and the whole structure is neatly colored.

Description

Pretty prints the structure of the run's metadata. Paths are ordered lexicographically and the whole structure is neatly colored.

Usage

```
neptune_print_structure(run)
```

Arguments

run

Neptune run object.

Value

None

Author(s)

Authors:

- Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev<backend@neptune.ai>

See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

28 neptune_remove

neptune_remove

Removes the provided tag or tags from the set.

Description

Removes the provided tag or tags from the set.

Usage

```
neptune_remove(x, values, wait=FALSE)
```

Arguments

x Field, for which we want to remove tags eg. run['Sys/tags']

values string or list of strings - Tag or tags to be removed.

wait logical - If TRUE the client will wait to send all tracked metadata to the server

before making the assignment. This makes the call synchronous.

Value

None

Author(s)

Authors:

- Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev

 backend@neptune.ai>

See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

neptune_set_api_token 29

Description

Sets NEPTUNE_API_TOKEN environment variables. It is used as a default api_token value by neptune_init.

Usage

```
neptune_set_api_token(token)
```

Arguments

token

string - Your Neptune API token

Value

None

Author(s)

Authors:

- Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev
backend@neptune.ai>

See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

```
neptune_set_api_token("ANONYMOUS")
```

30 neptune_stop

neptune_stop

Stop neptune run.

Description

Stop neptune run.

Usage

```
neptune_stop(run, seconds=NULL)
```

Arguments

run Neptune run object.

seconds (integer or numeric, optional, default is NULL) - The method will wait for the

specified time for all tracking calls to finish, before stopping the connection. If

NULL will wait for all tracking calls to finish.

Value

None

Author(s)

Authors:

- Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev

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See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

neptune_sync 31

neptune_sync	Synchronizes the run with with Neptune servers.
--------------	---

Description

Synchronizes the run with Neptune servers.

Usage

```
neptune_sync(run, wait=TRUE)
```

Arguments

run Neptune run object.

wait logical - If TRUE the client will first wait to send all tracked metadata to the

server. This makes the call synchronous, see Connection modes guide.

Value

None

Author(s)

Authors:

- Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev

 backend@neptune.ai>

See Also

Useful links:

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

32 neptune_track_files

neptune_track_files Saves the artifact metadata.

Description

Saves the artifact metadata: version (hash), location (path), size, folder structure, and contents to Neptune. Works for files, folders or S3-compatible storage.

Usage

```
neptune_track_files(x, path, destination=NULL, wait=FALSE)
```

Arguments

Χ	Field	1

path character - File path or S3-compatible path to the file or folder that you want to

track.

destination character - location inside Neptune artifact namespace where you want to log

the metadata.

wait logical - - If TRUE the client will wait to send all tracked metadata to the server

before making the assignment. This makes the call synchronous.

Value

None

Author(s)

Authors:

- · Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev
backend@neptune.ai>

See Also

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

neptune_upload 33

Examples

neptune_upload

Uploads provided file under specified field path

Description

Uploads provided file under specified field path

Usage

```
neptune_upload(x, value, wait=FALSE, ...)
```

Arguments

Χ	Field
value	string - Path to the file to be uploaded or File value object eg. object returned by neptune_file_as_html call
wait	logical - If TRUE the client will wait to send all tracked metadata to the server before making the assignment. This makes the call synchronous.
• • •	Other arguments passed on to the ggsave function in case of uploading a ggplot2 object.

Value

None

Author(s)

Authors:

- · Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev
backend@neptune.ai>

See Also

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

Description

Uploads the provided file or files and stores them inside the FileSet.

Usage

```
neptune_upload_files(x, globs, wait=FALSE)
```

Arguments

x Field

globs character or vector of characters - Path or paths to the files to be uploaded.

wait logical - If TRUE the client will wait to send all tracked metadata to the server

before making the assignment. This makes the call synchronous.

Value

None

Author(s)

Authors:

- Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev

 backend@neptune.ai>

See Also

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

neptune_wait 35

Examples

neptune_wait

Wait for all the tracking calls to finish.

Description

Wait for all the tracking calls to finish. In asynchronous connection mode data (default one) is synchronized with the Neptune servers in the background and each call to upload, log etc. is not immediately executed. Wait delays the code execution until all the calls are done.

Usage

```
neptune_wait(run, disk_only=FALSE)
```

Arguments

run Neptune run object.

disk_only logical - If TRUE the process will only wait for data to be saved locally from

memory, but will not wait for them to reach Neptune servers.

Value

None

Author(s)

Authors:

- · Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev

 backend@neptune.ai>

See Also

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

```
\begin{tabular}{ll} [.neptune.new.metadata\_containers.run.Run\\ Field\ lookup \end{tabular}
```

Description

Field lookup. You can access any run's field through a named-list-like field lookup run[field_path]. As well as fetch already tracked metadata - fetching parameters when resuming a run or downloading metadata for a custom analysis using functions like neptune_fetch

Arguments

- x Neptune Run object
- i string, name of the field to set

Value

Field

Author(s)

Authors:

- Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev
backend@neptune.ai>

See Also

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

[<-.neptune.new.metadata_containers.run.Run

*Assigns the provided value to the field.

Description

Assigns the provided value to the field.

Arguments

x Neptune Run objecti string, name of the field to setvalue which is assigned to field

Value

None

Author(s)

Authors:

- · Mateusz Dominiak
- Maintainer: Neptune DevTeam Dev<backend@neptune.ai>

See Also

- https://neptune.ai/
- Documentation https://docs.neptune.ai/
- Report bugs at https://github.com/neptune-ai/neptune-r/issues

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