

# Package ‘mlflow’

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**Type** Package

**Title** Interface to 'MLflow'

**Version** 1.0.0

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**Description** R interface to 'MLflow', open source platform for the complete machine learning life cycle, see <<https://mlflow.org/>>. This package supports installing 'MLflow', tracking experiments, creating and running projects, and saving and serving models.

**License** Apache License 2.0

**URL** <https://github.com/mlflow/mlflow>

**BugReports** <https://github.com/mlflow/mlflow/issues>

**SystemRequirements** MLflow (<https://www.mlflow.org/>)

**Encoding** UTF-8

**LazyData** true

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---

install_mlflow	<i>Install MLflow</i>
----------------	-----------------------

---

### Description

Installs auxiliary dependencies of MLflow (e.g. the MLflow CLI). As a one-time setup step, you must run `install_mlflow()` to install these dependencies before calling other MLflow APIs.

### Usage

```
install_mlflow()
```

### Details

`install_mlflow()` requires Python and Conda to be installed. See <https://www.python.org/getit/> and <https://docs.conda.io/projects/conda/en/latest/user-guide/install/>.

### Examples

```
## Not run:  
library(mlflow)  
install_mlflow()  
  
## End(Not run)
```

---

mlflow_client	<i>Initialize an MLflow Client</i>
---------------	------------------------------------

---

### Description

Initializes and returns an MLflow client that communicates with the tracking server or store at the specified URI.

### Usage

```
mlflow_client(tracking_uri = NULL)
```

### Arguments

`tracking_uri` The tracking URI. If not provided, defaults to the service set by `'mlflow_set_tracking_uri()'`.

---

`mlflow_create_experiment`*Create Experiment*

---

**Description**

Creates an MLflow experiment and returns its id.

**Usage**

```
mlflow_create_experiment(name, artifact_location = NULL, client = NULL)
```

**Arguments**

<code>name</code>	The name of the experiment to create.
<code>artifact_location</code>	Location where all artifacts for this experiment are stored. If not provided, the remote server will select an appropriate default.
<code>client</code>	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

---

`mlflow_delete_experiment`*Delete Experiment*

---

**Description**

Marks an experiment and associated runs, params, metrics, etc. for deletion. If the experiment uses FileStore, artifacts associated with experiment are also deleted.

**Usage**

```
mlflow_delete_experiment(experiment_id, client = NULL)
```

**Arguments**

<code>experiment_id</code>	ID of the associated experiment. This field is required.
<code>client</code>	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

---

mlflow_delete_run	<i>Delete a Run</i>
-------------------	---------------------

---

**Description**

Deletes the run with the specified ID.

**Usage**

```
mlflow_delete_run(run_id, client = NULL)
```

**Arguments**

run_id	Run ID.
client	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

---

mlflow_download_artifacts	<i>Download Artifacts</i>
---------------------------	---------------------------

---

**Description**

Download an artifact file or directory from a run to a local directory if applicable, and return a local path for it.

**Usage**

```
mlflow_download_artifacts(path, run_id = NULL, client = NULL)
```

**Arguments**

path	Relative source path to the desired artifact.
run_id	Run ID.
client	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

---

mlflow\_end\_run      *End a Run*

---

### Description

Terminates a run. Attempts to end the current active run if 'run\_id' is not specified.

### Usage

```
mlflow_end_run(status = c("FINISHED", "FAILED", "KILLED"),
               end_time = NULL, run_id = NULL, client = NULL)
```

### Arguments

status	Updated status of the run. Defaults to 'FINISHED'. Can also be set to "FAILED" or "KILLED".
end_time	Unix timestamp of when the run ended in milliseconds.
run_id	Run ID.
client	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

---

mlflow\_get\_experiment      *Get Experiment*

---

### Description

Gets metadata for an experiment and a list of runs for the experiment. Attempts to obtain the active experiment if both 'experiment\_id' and 'name' are unspecified.

### Usage

```
mlflow_get_experiment(experiment_id = NULL, name = NULL,
                      client = NULL)
```

### Arguments

experiment_id	Identifier to get an experiment.
name	The experiment name. Only one of 'name' or 'experiment_id' should be specified.
client	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

---

mlflow\_get\_metric\_history  
*Get Metric History*

---

### Description

Get a list of all values for the specified metric for a given run.

### Usage

```
mlflow_get_metric_history(metric_key, run_id = NULL, client = NULL)
```

### Arguments

metric_key	Name of the metric.
run_id	Run ID.
client	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

---

mlflow\_get\_run            *Get Run*

---

### Description

Gets metadata, params, tags, and metrics for a run. Returns a single value for each metric key: the most recently logged metric value at the largest step.

### Usage

```
mlflow_get_run(run_id = NULL, client = NULL)
```

### Arguments

run_id	Run ID.
client	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

---

mlflow\_get\_tracking\_uri  
*Get Remote Tracking URI*

---

**Description**

Gets the remote tracking URI.

**Usage**

```
mlflow_get_tracking_uri()
```

---

mlflow\_id *Get Run or Experiment ID*

---

**Description**

Extracts the ID of the run or experiment.

**Usage**

```
mlflow_id(object)

## S3 method for class 'mlflow_run'
mlflow_id(object)

## S3 method for class 'mlflow_experiment'
mlflow_id(object)
```

**Arguments**

object            An 'mlflow\_run' or 'mlflow\_experiment' object.



---

`mlflow_list_artifacts` *List Artifacts*

---

**Description**

Gets a list of artifacts.

**Usage**

```
mlflow_list_artifacts(path = NULL, run_id = NULL, client = NULL)
```

**Arguments**

<code>path</code>	The run's relative artifact path to list from. If not specified, it is set to the root artifact path
<code>run_id</code>	Run ID.
<code>client</code>	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

---

`mlflow_list_experiments`  
*List Experiments*

---

**Description**

Gets a list of all experiments.

**Usage**

```
mlflow_list_experiments(view_type = c("ACTIVE_ONLY", "DELETED_ONLY",  
  "ALL"), client = NULL)
```

**Arguments**

<code>view_type</code>	Qualifier for type of experiments to be returned. Defaults to 'ACTIVE_ONLY'.
<code>client</code>	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

---

mlflow\_list\_run\_infos *List Run Infos*

---

### Description

Returns a tibble whose columns contain run metadata (run ID, etc) for all runs under the specified experiment.

### Usage

```
mlflow_list_run_infos(run_view_type = c("ACTIVE_ONLY", "DELETED_ONLY",
  "ALL"), experiment_id = NULL, client = NULL)
```

### Arguments

run_view_type	Run view type.
experiment_id	Experiment ID. Attempts to use the active experiment if not specified.
client	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

---

mlflow\_load\_flavor *Load MLflow Model Flavor*

---

### Description

Loads an MLflow model using a specific flavor. This method is called internally by [mlflow\\_load\\_model](#), but is exposed for package authors to extend the supported MLflow models. See <https://mlflow.org/docs/latest/models.html#st> format for more info on MLflow model flavors.

### Usage

```
mlflow_load_flavor(flavor, model_path)
```

### Arguments

flavor	An MLflow flavor object loaded by <a href="#">mlflow_load_model</a> , with class loaded from the flavor field in an MLmodel file.
model_path	The path to the MLflow model wrapped in the correct class.

---

mlflow\_load\_model      *Load MLflow Model*

---

### Description

Loads an MLflow model. MLflow models can have multiple model flavors. Not all flavors / models can be loaded in R. This method by default searches for a flavor supported by R/MLflow.

### Usage

```
mlflow_load_model(model_uri, flavor = NULL, client = mlflow_client())
```

### Arguments

model_uri	The location, in URI format, of the MLflow model.
flavor	Optional flavor specification (string). Can be used to load a particular flavor in case there are multiple flavors available.
client	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

### Details

The URI scheme must be supported by MLflow - i.e. there has to be an MLflow artifact repository corresponding to the scheme of the URI. The content is expected to point to a directory containing MLmodel. The following are examples of valid model uris:

```
- "file:///absolute/path/to/local/model" - "file:relative/path/to/local/model" - "s3://my_bucket/path/to/model"
- "runs:<mlflow_run_id>/run-relative/path/to/model"
```

For more information about supported URI schemes, see the Artifacts Documentation at <https://www.mlflow.org/docs/latest/tracking-artifact-stores>.

---

mlflow\_log\_artifact      *Log Artifact*

---

### Description

Logs a specific file or directory as an artifact for a run.

### Usage

```
mlflow_log_artifact(path, artifact_path = NULL, run_id = NULL,
  client = NULL)
```

**Arguments**

path	The file or directory to log as an artifact.
artifact_path	Destination path within the run's artifact URI.
run_id	Run ID.
client	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

**Details**

When logging to Amazon S3, ensure that you have the `s3:PutObject`, `s3:GetObject`, `s3:ListBucket`, and `s3:GetBucketLocation` permissions on your bucket.

Additionally, at least the `AWS_ACCESS_KEY_ID` and `AWS_SECRET_ACCESS_KEY` environment variables must be set to the corresponding key and secrets provided by Amazon IAM.

---

mlflow_log_batch	<i>Log Batch</i>
------------------	------------------

---

**Description**

Log a batch of metrics, params, and/or tags for a run. The server will respond with an error (non-200 status code) if any data failed to be persisted. In case of error (due to internal server error or an invalid request), partial data may be written.

**Usage**

```
mlflow_log_batch(metrics = NULL, params = NULL, tags = NULL,
                 run_id = NULL, client = NULL)
```

**Arguments**

metrics	A dataframe of metrics to log, containing the following columns: "key", "value", "step", "timestamp". This dataframe cannot contain any missing ('NA') entries.
params	A dataframe of params to log, containing the following columns: "key", "value". This dataframe cannot contain any missing ('NA') entries.
tags	A dataframe of tags to log, containing the following columns: "key", "value". This dataframe cannot contain any missing ('NA') entries.
run_id	Run ID.
client	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

---

mlflow\_log\_metric      *Log Metric*

---

### Description

Logs a metric for a run. Metrics key-value pair that records a single float measure. During a single execution of a run, a particular metric can be logged several times. The MLflow Backend keeps track of historical metric values along two axes: timestamp and step.

### Usage

```
mlflow_log_metric(key, value, timestamp = NULL, step = NULL,  
                  run_id = NULL, client = NULL)
```

### Arguments

key	Name of the metric.
value	Float value for the metric being logged.
timestamp	Timestamp at which to log the metric. Timestamp is rounded to the nearest integer. If unspecified, the number of milliseconds since the Unix epoch is used.
step	Step at which to log the metric. Step is rounded to the nearest integer. If unspecified, the default value of zero is used.
run_id	Run ID.
client	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

---

mlflow\_log\_model      *Log Model*

---

### Description

Logs a model for this run. Similar to 'mlflow\_save\_model()' but stores model as an artifact within the active run.

### Usage

```
mlflow_log_model(model, artifact_path, ...)
```

**Arguments**

model	The model that will perform a prediction.
artifact_path	Destination path where this MLflow compatible model will be saved.
...	Optional additional arguments passed to 'mlflow_save_model()' when persisting the model. For example, 'conda_env = /path/to/conda.yaml' may be passed to specify a conda dependencies file for flavors (e.g. keras) that support conda environments.

---

mlflow_log_param	<i>Log Parameter</i>
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---

**Description**

Logs a parameter for a run. Examples are params and hyperparams used for ML training, or constant dates and values used in an ETL pipeline. A param is a STRING key-value pair. For a run, a single parameter is allowed to be logged only once.

**Usage**

```
mlflow_log_param(key, value, run_id = NULL, client = NULL)
```

**Arguments**

key	Name of the parameter.
value	String value of the parameter.
run_id	Run ID.
client	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

---

mlflow_param	<i>Read Command-Line Parameter</i>
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---

**Description**

Reads a command-line parameter passed to an MLflow project MLflow allows you to define named, typed input parameters to your R scripts via the mlflow\_param API. This is useful for experimentation, e.g. tracking multiple invocations of the same script with different parameters.

**Usage**

```
mlflow_param(name, default = NULL, type = NULL, description = NULL)
```

**Arguments**

name	The name of the parameter.
default	The default value of the parameter.
type	Type of this parameter. Required if 'default' is not set. If specified, must be one of "numeric", "integer", or "string".
description	Optional description for the parameter.

**Examples**

```
## Not run:
# This parametrized script trains a GBM model on the Iris dataset and can be run as an MLflow
# project. You can run this script (assuming it's saved at /some/directory/params_example.R)
# with custom parameters via:
# mlflow_run(entry_point = "params_example.R", uri = "/some/directory",
#   parameters = list(num_trees = 200, learning_rate = 0.1))
install.packages("gbm")
library(mlflow)
library(gbm)
# define and read input parameters
num_trees <- mlflow_param(name = "num_trees", default = 200, type = "integer")
lr <- mlflow_param(name = "learning_rate", default = 0.1, type = "numeric")
# use params to fit a model
ir.adaboost <- gbm(Species ~., data=iris, n.trees=num_trees, shrinkage=lr)

## End(Not run)
```

---

mlflow\_predict

*Generate Prediction with MLflow Model*


---

**Description**

Performs prediction over a model loaded using `mlflow_load_model()`, to be used by package authors to extend the supported MLflow models.

**Usage**

```
mlflow_predict(model, data, ...)
```

**Arguments**

model	The loaded MLflow model flavor.
data	A data frame to perform scoring.
...	Optional additional arguments passed to underlying predict methods.

---

`mlflow_rename_experiment`*Rename Experiment*

---

**Description**

Renames an experiment.

**Usage**

```
mlflow_rename_experiment(new_name, experiment_id = NULL, client = NULL)
```

**Arguments**

<code>new_name</code>	The experiment's name will be changed to this. The new name must be unique.
<code>experiment_id</code>	ID of the associated experiment. This field is required.
<code>client</code>	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

---

`mlflow_restore_experiment`*Restore Experiment*

---

**Description**

Restores an experiment marked for deletion. This also restores associated metadata, runs, metrics, and params. If experiment uses FileStore, underlying artifacts associated with experiment are also restored.

**Usage**

```
mlflow_restore_experiment(experiment_id, client = NULL)
```

**Arguments**

<code>experiment_id</code>	ID of the associated experiment. This field is required.
<code>client</code>	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

**Details**

Throws 'RESOURCE\_DOES\_NOT\_EXIST' if the experiment was never created or was permanently deleted.



---

mlflow_restore_run	<i>Restore a Run</i>
--------------------	----------------------

---

**Description**

Restores the run with the specified ID.

**Usage**

```
mlflow_restore_run(run_id, client = NULL)
```

**Arguments**

run_id	Run ID.
client	(Optional) An MLflow client object returned from <code>mlflow_client</code> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

---

mlflow_rfunc_serve	<i>Serve an RFunc MLflow Model</i>
--------------------	------------------------------------

---

**Description**

Serves an RFunc MLflow model as a local web API.

**Usage**

```
mlflow_rfunc_serve(model_uri, host = "127.0.0.1", port = 8090,
  daemonized = FALSE, browse = !daemonized, ...)
```

**Arguments**

model_uri	The location, in URI format, of the MLflow model.
host	Address to use to serve model, as a string.
port	Port to use to serve model, as numeric.
daemonized	Makes ‘httpuv’ server daemonized so R interactive sessions are not blocked to handle requests. To terminate a daemonized server, call ‘httpuv::stopDaemonizedServer()’ with the handle returned from this call.
browse	Launch browser with serving landing page?
...	Optional arguments passed to ‘mlflow_predict()’.

## Details

The URI scheme must be supported by MLflow - i.e. there has to be an MLflow artifact repository corresponding to the scheme of the URI. The content is expected to point to a directory containing MLmodel. The following are examples of valid model uris:

```
- "file:///absolute/path/to/local/model" - "file:relative/path/to/local/model" - "s3://my_bucket/path/to/model"
- "runs:<mlflow_run_id>/run-relative/path/to/model"
```

For more information about supported URI schemes, see the Artifacts Documentation at <https://www.mlflow.org/docs/latest/tracking-artifact-stores>.

## Examples

```
## Not run:
library(mlflow)

# save simple model with constant prediction
mlflow_save_model(function(df) 1, "mlflow_constant")

# serve an existing model over a web interface
mlflow_rfunc_serve("mlflow_constant")

# request prediction from server
httr::POST("http://127.0.0.1:8090/predict/")

## End(Not run)
```

---

mlflow\_run

*Run an MLflow Project*


---

## Description

Wrapper for the ‘mlflow run’ CLI command. See <https://www.mlflow.org/docs/latest/cli.html#run> for more info.

## Usage

```
mlflow_run(uri = ".", entry_point = NULL, version = NULL,
  parameters = NULL, experiment_id = NULL, experiment_name = NULL,
  backend = NULL, backend_config = NULL, no_conda = FALSE,
  storage_dir = NULL)
```

## Arguments

uri	A directory containing modeling scripts, defaults to the current directory.
entry_point	Entry point within project, defaults to ‘main’ if not specified.
version	Version of the project to run, as a Git commit reference for Git projects.
parameters	A list of parameters.

experiment_id	ID of the experiment under which to launch the run.
experiment_name	Name of the experiment under which to launch the run.
backend	Execution backend to use for run.
backend_config	Path to JSON file which will be passed to the backend. For the Databricks backend, it should describe the cluster to use when launching a run on Databricks.
no_conda	If specified, assume that MLflow is running within a Conda environment with the necessary dependencies for the current project instead of attempting to create a new Conda environment. Only valid if running locally.
storage_dir	Valid only when 'backend' is local. MLflow downloads artifacts from distributed URIs passed to parameters of type 'path' to subdirectories of 'storage_dir'.

**Value**

The run associated with this run.

**Examples**

```
## Not run:
# This parametrized script trains a GBM model on the Iris dataset and can be run as an MLflow
# project. You can run this script (assuming it's saved at /some/directory/params_example.R)
# with custom parameters via:
# mlflow_run(entry_point = "params_example.R", uri = "/some/directory",
#   parameters = list(num_trees = 200, learning_rate = 0.1))
install.packages("gbm")
library(mlflow)
library(gbm)
# define and read input parameters
num_trees <- mlflow_param(name = "num_trees", default = 200, type = "integer")
lr <- mlflow_param(name = "learning_rate", default = 0.1, type = "numeric")
# use params to fit a model
ir.adaboost <- gbm(Species ~., data=iris, n.trees=num_trees, shrinkage=lr)

## End(Not run)
```

---

mlflow\_save\_model.crate

*Save Model for MLflow*


---

**Description**

Saves model in MLflow format that can later be used for prediction and serving. This method is generic to allow package authors to save custom model types.

**Usage**

```

## S3 method for class 'crate'
mlflow_save_model(model, path, ...)

## S3 method for class 'keras.engine.training.Model'
mlflow_save_model(model, path,
  conda_env = NULL, ...)

mlflow_save_model(model, path, ...)

```

**Arguments**

model	The model that will perform a prediction.
path	Destination path where this MLflow compatible model will be saved.
...	Optional additional arguments.
conda_env	Path to Conda dependencies file.

---

mlflow\_search\_runs      *Search Runs*

---

**Description**

Search for runs that satisfy expressions. Search expressions can use Metric and Param keys.

**Usage**

```

mlflow_search_runs(filter = NULL, run_view_type = c("ACTIVE_ONLY",
  "DELETED_ONLY", "ALL"), experiment_ids = NULL, client = NULL)

```

**Arguments**

filter	A filter expression over params, metrics, and tags, allowing returning a subset of runs. The syntax is a subset of SQL which allows only ANDing together binary operations between a param/metric/tag and a constant.
run_view_type	Run view type.
experiment_ids	List of string experiment IDs (or a single string experiment ID) to search over. Attempts to use active experiment if not specified.
client	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

---

mlflow_server	<i>Run MLflow Tracking Server</i>
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---

**Description**

Wrapper for 'mlflow server'.

**Usage**

```
mlflow_server(file_store = "mlruns", default_artifact_root = NULL,
             host = "127.0.0.1", port = 5000, workers = 4,
             static_prefix = NULL)
```

**Arguments**

file_store	The root of the backing file store for experiment and run data.
default_artifact_root	Local or S3 URI to store artifacts in, for newly created experiments.
host	The network address to listen on (default: 127.0.0.1).
port	The port to listen on (default: 5000).
workers	Number of gunicorn worker processes to handle requests (default: 4).
static_prefix	A prefix which will be prepended to the path of all static paths.

---

mlflow_set_experiment	<i>Set Experiment</i>
-----------------------	-----------------------

---

**Description**

Sets an experiment as the active experiment. Either the name or ID of the experiment can be provided. If the a name is provided but the experiment does not exist, this function creates an experiment with provided name. Returns the ID of the active experiment.

**Usage**

```
mlflow_set_experiment(experiment_name = NULL, experiment_id = NULL,
                    artifact_location = NULL)
```

**Arguments**

experiment_name	Name of experiment to be activated.
experiment_id	ID of experiment to be activated.
artifact_location	Location where all artifacts for this experiment are stored. If not provided, the remote server will select an appropriate default.

---

mlflow_set_tag	<i>Set Tag</i>
----------------	----------------

---

**Description**

Sets a tag on a run. Tags are run metadata that can be updated during a run and after a run completes.

**Usage**

```
mlflow_set_tag(key, value, run_id = NULL, client = NULL)
```

**Arguments**

key	Name of the tag. Maximum size is 255 bytes. This field is required.
value	String value of the tag being logged. Maximum size is 500 bytes. This field is required.
run_id	Run ID.
client	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

---

mlflow_set_tracking_uri	<i>Set Remote Tracking URI</i>
-------------------------	--------------------------------

---

**Description**

Specifies the URI to the remote MLflow server that will be used to track experiments.

**Usage**

```
mlflow_set_tracking_uri(uri)
```

**Arguments**

uri	The URI to the remote MLflow server.
-----	--------------------------------------

---

mlflow_start_run	<i>Start Run</i>
------------------	------------------

---

## Description

Starts a new run. If 'client' is not provided, this function infers contextual information such as source name and version, and also registers the created run as the active run. If 'client' is provided, no inference is done, and additional arguments such as 'start\_time' can be provided.

## Usage

```
mlflow_start_run(run_id = NULL, experiment_id = NULL,  
                 start_time = NULL, tags = NULL, client = NULL)
```

## Arguments

run_id	If specified, get the run with the specified UUID and log metrics and params under that run. The run's end time is unset and its status is set to running, but the run's other attributes remain unchanged.
experiment_id	Used only when 'run_id' is unspecified. ID of the experiment under which to create the current run. If unspecified, the run is created under a new experiment with a randomly generated name.
start_time	Unix timestamp of when the run started in milliseconds. Only used when 'client' is specified.
tags	Additional metadata for run in key-value pairs. Only used when 'client' is specified.
client	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.

## Examples

```
## Not run:  
with(mlflow_start_run(), {  
  mlflow_log_metric("test", 10)  
})  
  
## End(Not run)
```

---

mlflow_ui	<i>Run MLflow User Interface</i>
-----------	----------------------------------

---

**Description**

Launches the MLflow user interface.

**Usage**

```
mlflow_ui(client, ...)
```

**Arguments**

client	(Optional) An MLflow client object returned from <a href="#">mlflow_client</a> . If specified, MLflow will use the tracking server associated with the passed-in client. If unspecified (the common case), MLflow will use the tracking server associated with the current tracking URI.
...	Optional arguments passed to 'mlflow_server()' when 'x' is a path to a file store.

**Examples**

```
## Not run:
library(mlflow)
install_mlflow()

# launch mlflow ui locally
mlflow_ui()

# launch mlflow ui for existing mlflow server
mlflow_set_tracking_uri("http://tracking-server:5000")
mlflow_ui()

## End(Not run)
```

---

uninstall_mlflow	<i>Uninstall MLflow</i>
------------------	-------------------------

---

**Description**

Uninstalls MLflow by removing the Conda environment.

**Usage**

```
uninstall_mlflow()
```



**Examples**

```
## Not run:  
library(mlflow)  
install_mlflow()  
uninstall_mlflow()  
  
## End(Not run)
```

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