
docker-wrapper-py Documentation

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Quickstart

1.1 Install

Install docker-wrapper with pip:

```
pip install docker-wrapper
```

1.2 Usage

Use it in a with statement:

```
with Docker() as docker:  
    docker.exec('command')
```

or as a decorator:

```
@Docker.wrap()  
def run_command_in_container(command, docker)  
    docker.exec(command)
```

Contents:

1.2.1 Quickstart

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Usage

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with Docker() as docker:  
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1.2.2 Docker manager

class `docker.manager.Docker` (*image='ubuntu', name_prefix='dyn', timeout=3600, privilege=False, combine_outputs=False, env_variables=None, ports_mapping=None*)

Docker manager which can start and stop containers in addition to run commands with docker exec. The manager also have a few helper functions for things like listing files and directories.

directory_exist (*path*)

Checks whether a directory exists or not.

Parameters *path* (*str*) – The path to the directory.

Return type bool

file_exist (*path*)

Checks whether a file exists or not.

Parameters *path* (*str*) – The path to the file.

Return type bool

list_directories (*path, include_trailing_slash=True*)

List directories on a given path.

Parameters *path* (*str*) – The path to the directory.

Returns An list of directory names

Return type list

Raises

- **DockerFileNotFoundError** – If given an invalid path
- **DockerWrapperBaseError** – For other errors

list_files (*path*)

List files on a given path.

Parameters *path* (*str*) – The path to the directory.

Returns An list of file names

Return type list

Raises

- **DockerFileNotFoundError** – If given an invalid path
- **DockerWrapperBaseError** – For other errors

read_file (*path*)

Reads the content of the file on the given path. Returns None if the file does not exist.

Parameters *path* (*str*) – The path to the file.

Returns The content of the file

Return type str

Raises

- **DockerFileNotFoundError** – If given an invalid path
- **DockerWrapperBaseError** – For other errors

run (*command*, *working_directory*='', *stdin*='', *login*=False, *tty*=False)

Runs the command with docker exec in the given working directory.

Parameters

- **command** (*str*) – The command that should be run with docker exec. The command will be wrapped in 'bash -c 'command''.
- **working_directory** (*str*) – The path to the directory where the command should be run. This will be evaluated with `_get_working_directory`, thus relative paths will become absolute paths.
- **login** (*boolean*) – Will add `--login` on the bash call.
- **tty** (*boolean*) – Will add `-t` on the bash call.

Returns A ProcessResult object containing information on the result of the command.

Return type ProcessResult

start ()

Starts a container based on the parameters passed to `__init__`.

Returns The docker object

stop ()

Stops the container started by this class instance.

Returns The docker object

static wrap (**wrap_args*, ***wrap_kwargs*)

Decorator that wraps the function call in a Docker with statement. It accepts the same arguments. This decorator adds a docker manager instance to the kwargs passed into the decorated function.

Returns The decorated function.

write_file (*path*, *content*, *append*=False)

Write the given content to path. Overwrites the file if append is set to False.

Parameters

- **path** (*str*) – The path to the file.
- **content** (*str*) – The content of the file.
- **append** (*bool*) – Set to False to overwrite file, defaults to False.

Returns A object with the result of the create command.

Return type ProcessResult

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