

Package: dockerthis (via r-universe)

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Title Dockerthis: run any CLI tool on a Linux Container

Version 0.0.0.9006

Description Dockerthis is an R package that simplifies the execution of command line tools within isolated Docker containers.

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Encoding UTF-8

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Imports cli, fs, jsonlite, processx, purrr, stringr, tibble

URL <https://github.com/luciorq/dockerthis>

BugReports <https://github.com/luciorq/dockerthis/issues>

Suggests testthat (>= 3.0.0), withr

Config/testthat/edition 3

Repository <https://luciorq.r-universe.dev>

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docker_build_image *Build Docker Container Image*

Description

Built Docker Image given a Dockerfile.

Usage

```
docker_build_image(
  dockerfile_path,
  image_name,
  force = FALSE,
  platform_arg = NULL
)
```

Arguments

dockerfile_path	Character. Path to Dockerfile.
image_name	Character. Name of the Image to be created.
force	Logical. Should image be removed before new build. Default FALSE.
platform_arg	Character. Platform string to be used, by default it will use the one configured by Docker, usually Linux with the same CPU architecture the same as the system, import options are c("linux/amd64", "linux/arm64", "linux/arm/v7"). Default NULL.

docker_client_cmd *Interact with Docker Engine Client CLI*

Description

Functions for interaction with Docker Images and Containers

- `docker_client_cmd()` is the main function to interact with the docker client.
- `docker_list_images()` return a data frame with all tagged images available for to user.
- `docker_list_containers()` return a data frame with all containers and their state.
- `docker_remove_image()` remove Docker image.
- `docker_remove_container()` remove Docker container.
- `docker_start_container()` start a stopped Docker container.
- `docker_stop_container()` stop a running Docker container.

Usage

```

docker_client_cmd(..., verbose = TRUE)

docker_list_images()

docker_list_containers()

docker_remove_image(image_name)

docker_remove_container(container_name)

docker_stop_container(container_name)

docker_start_container(container_name)

```

Arguments

```

...           Character. Arguments to be passed to Docker CLI.
verbose       Logical. Should output from CLI be printed. Default: TRUE.
image_name    Character. Name or ID of the Image.
container_name Character. Name or ID of the Container.

```

docker_exec	<i>Run Command on a Running Docker Container</i>
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Description

Run Command on a Running Docker Container

Usage

```
docker_exec(cmd, ..., container_name, verbose = TRUE)
```

Arguments

```

cmd           Character. Command to run.
...           Character. Additional arguments passed to cmd.
container_name Name of Docker Container.
verbose       Logical. Print execution output while running. Default: TRUE.

```

 docker_run

Create and Run Command on a New Docker Container

Description

Start a new container to run command line tools inside Linux containers using Docker Client CLI.

Usage

```
docker_run(
  cmd,
  ...,
  container_name,
  image_name,
  docker_args = NULL,
  mount_paths = NULL,
  verbose = TRUE
)
```

Arguments

cmd	Character. Command to run.
...	Character. Additional arguments passed to cmd.
container_name	Name of Docker Container.
image_name	Name of Container Image.
docker_args	Character vector. Arguments passed to docker run command.
mount_paths	Character vector. Host paths to be mounted in container.
verbose	Logical. Print execution output while running. Default: TRUE.

 is_docker_available

Is Docker Client CLI available

Description

Test if Docker CLI is available on PATH.

Usage

```
is_docker_available()
```

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