

Package ‘dockerfiler’

March 19, 2019

Title Easy Dockerfile Creation from R

Version 0.1.3

Description Build a Dockerfile straight from your R session. 'dockerfiler' allows you to create step by step a Dockerfile, and provide convenient tools to wrap R code inside this Dockerfile.

License MIT + file LICENSE

URL <https://github.com/ColinFay/dockerfiler>

BugReports <https://github.com/ColinFay/dockerfiler/issues>

Imports attempt, glue, R6, utils

Suggests covr, testthat, knitr, rmarkdown

Encoding UTF-8

LazyData true

RoxygenNote 6.1.0

VignetteBuilder knitr

NeedsCompilation no

Author Colin Fay [cre, aut]

Maintainer Colin Fay <contact@colinfay.me>

Repository CRAN

Date/Publication 2019-03-19 16:10:03 UTC

R topics documented:

| | |
|--------------------------|---|
| Dockerfile | 2 |
| dock_from_desc | 3 |
| r | 4 |

| | |
|--------------|----------|
| Index | 5 |
|--------------|----------|

Dockerfile

A Dockerfile template

Description

A Dockerfile template

Usage

Dockerfile

Format

An object of class R6ClassGenerator of length 24.

Value

A dockerfile template

Methods

RUN add a RUN command
ADD add a ADD command
COPY add a COPY command
WORKDIR add a WORKDIR command
EXPOSE add an EXPOSE command
VOLUME add a VOLUME command
CMD add a CMD command
LABEL add a LABEL command
ENV add a ENV command
ENTRYPOINT add a ENTRYPOINT command
VOLUME add a VOLUME command
USER add a USER command
ARG add an ARG command
ONBUILD add a ONBUILD command
STOPSIGNAL add a STOPSIGNAL command
HEALTHCHECK add a HEALTHCHECK command
STOPSIGNAL add a STOPSIGNAL command
SHELL add a SHELL command
MAINTAINER add a MAINTAINER command
custom add a custom command
write save the Dockerfile
switch_cmd switch two command
remove_cmd remove_cmd one or more command(s)

Examples

```
my_dock <- Dockerfile$new()
```

| | |
|----------------|-------------------------------------|
| dock_from_desc | <i>Docker file from DESCRIPTION</i> |
|----------------|-------------------------------------|

Description

This function will parse a DESCRIPTION file and create a Dockerfile that remotes::install_cran all the functions from the Imports section, add the COPY of the tar.gz of the package, and install the package.

Usage

```
dock_from_desc(path = "DESCRIPTION", FROM = "rocker/r-base",
  AS = NULL)
```

Arguments

| | |
|------|------------------------|
| path | Path to DESCRIPTION |
| FROM | FROM of the Dockerfile |
| AS | AS of the Dockerfile |

Value

A Dockerfile Object.

Note

After this Dockerfile is created, the package should be built and be put in the same directory as the dockerfile.

Examples

```
## Not run:
my_dock <- dock_from_desc("DESCRIPTION")
my_dock
my_dock$CMD(r(library(dockerfiler)))
my_dock$add_after(
  cmd = "RUN R -e 'remotes::install_cran(\"rlang\")'",
  after = 3
)

## End(Not run)
```

r *Turn an R call into an Unix call*

Description

Turn an R call into an Unix call

Usage

```
r(code)
```

Arguments

code the function to call

Value

an unix R call

Examples

```
r(print("yeay"))  
r(install.packages("plumber", repo = "http://cran.irsn.fr/"))
```

Index

*Topic **datasets**

Dockerfile, [2](#)

dock_from_desc, [3](#)

Dockerfile, [2](#)

r, [4](#)