

Package ‘dockerfiler’

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Title Easy Dockerfile Creation from R

Version 1.0.0

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.

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URL <https://thinkr-open.github.io/dockerfiler/>,
<https://github.com/ThinkR-open/dockerfiler>

BugReports <https://github.com/ThinkR-open/dockerfiler/issues>

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compact_sysreqs	<i>Compact Sysreqs</i>
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Description

Compact Sysreqs

Usage

```
compact_sysreqs(
  pkg_installs,
  update_cmd = "apt-get update -y",
  install_cmd = "apt-get install -y",
  clean_cmd = "rm -rf /var/lib/apt/lists/*"
)
```

Arguments

pkg_installs	pkg_sysreqs as vector, pak::pkg_sysreqs output
update_cmd	command used to update packages, "apt-get update -y" by default
install_cmd	command used to install packages, "apt-get install -y" by default
clean_cmd	command used to clean package folder, "rm -rf /var/lib/apt/lists/*" by default

Value

vector of compacted command to run to install sysreqs

Examples

```
pkg_installs <- list("apt-get install -y htop", "apt-get install -y top")
compact_sysreqs(pkg_installs)
```

Dockerfile	<i>A Dockerfile template</i>
------------	------------------------------

Description

A Dockerfile template

A Dockerfile template

Public fields

Dockerfile The dockerfile content.

Methods**Public methods:**

- `Dockerfile$new()`
- `Dockerfile$RUN()`
- `Dockerfile$ADD()`
- `Dockerfile$COPY()`
- `Dockerfile$WORKDIR()`
- `Dockerfile$EXPOSE()`
- `Dockerfile$VOLUME()`
- `Dockerfile$CMD()`
- `Dockerfile$LABEL()`
- `Dockerfile$ENV()`
- `Dockerfile$ENTRYPOINT()`
- `Dockerfile$USER()`
- `Dockerfile$ARG()`
- `Dockerfile$ONBUILD()`
- `Dockerfile$STOPSIGNAL()`
- `Dockerfile$HEALTHCHECK()`
- `Dockerfile$SHELL()`
- `Dockerfile$MAINTAINER()`
- `Dockerfile$custom()`
- `Dockerfile$COMMENT()`
- `Dockerfile$print()`
- `Dockerfile$write()`
- `Dockerfile$switch_cmd()`
- `Dockerfile$remove_cmd()`
- `Dockerfile$add_after()`
- `Dockerfile$clone()`

Method `new()`: Create a new Dockerfile object.

Usage:

```
Dockerfile$new(FROM = "rocker/r-base", AS = NULL)
```

Arguments:

FROM The base image. Default "rocker/r-base". (Note: the high-level generators `dock_from_desc()` and `dock_from_renv()` use a different default, rocker/r-ver tagged with your R version.)

AS Optional build-stage name (FROM ... AS <name>). Default NULL (no AS).

Returns: A Dockerfile object.

Method RUN(): Add a RUN command.

Usage:

```
Dockerfile$RUN(cmd)
```

Arguments:

cmd The command to add.

Returns: the Dockerfile object, invisibly.

Method ADD(): Add a ADD command.

Usage:

```
Dockerfile$ADD(from, to, force = TRUE)
```

Arguments:

from The source file.

to The destination file.

force If TRUE, overwrite the destination file.

Returns: the Dockerfile object, invisibly.

Method COPY(): Add a COPY command.

Usage:

```
Dockerfile$COPY(from, to, stage = NULL, force = TRUE)
```

Arguments:

from The source file.

to The destination file.

stage Optional. Name of the build stage (e.g., "builder") to copy files from. This corresponds to the `--from=` part in a Dockerfile COPY instruction (e.g., `COPY --from=builder /source /dest`). If NULL, the `--from=` argument is omitted.

force If TRUE, overwrite the destination file.

Returns: the Dockerfile object, invisibly.

Method WORKDIR(): Add a WORKDIR command.

Usage:

```
Dockerfile$WORKDIR(when)
```

Arguments:

when The working directory.

Returns: the Dockerfile object, invisibly.

Method EXPOSE(): Add a EXPOSE command.

Usage:

Dockerfile\$EXPOSE(port)

Arguments:

port The port to expose.

Returns: the Dockerfile object, invisibly.

Method VOLUME(): Add a VOLUME command.

Usage:

Dockerfile\$VOLUME(volume)

Arguments:

volume The volume to add.

Returns: the Dockerfile object, invisibly.

Method CMD(): Add a CMD command.

Usage:

Dockerfile\$CMD(cmd)

Arguments:

cmd The command to add.

Returns: the Dockerfile object, invisibly.

Method LABEL(): Add a LABEL command.

Usage:

Dockerfile\$LABEL(key, value)

Arguments:

key, value The key and value of the label.

Returns: the Dockerfile object, invisibly.

Method ENV(): Add an ENV command.

Usage:

Dockerfile\$ENV(key, value)

Arguments:

key, value The key and value of the environment variable.

Returns: the Dockerfile object, invisibly.

Method ENTRYPOINT(): Add a ENTRYPOINT command.

Usage:

Dockerfile\$ENTRYPOINT(cmd)

Arguments:

`cmd` The command to add.

Returns: the Dockerfile object, invisibly.

Method `USER()`: Add a `USER` command.

Usage:

`Dockerfile$USER(user)`

Arguments:

`user` The user to add.

Returns: the Dockerfile object, invisibly.

Method `ARG()`: Add a `ARG` command.

Usage:

`Dockerfile$ARG(arg, ahead = FALSE, default = NULL)`

Arguments:

`arg` The argument to add.

`ahead` If `TRUE`, add the argument at the beginning of the Dockerfile.

`default` Optional default value. When not `NULL`, the directive becomes `ARG <arg>=<default>`.

Requires `arg` to be just the name (no embedded `=`); supplying both an inlined `=` in `arg` and a non-`NULL` `default` errors.

Returns: the Dockerfile object, invisibly.

Method `ONBUILD()`: Add a `ONBUILD` command.

Usage:

`Dockerfile$ONBUILD(cmd)`

Arguments:

`cmd` The command to add.

Returns: the Dockerfile object, invisibly.

Method `STOPSIGNAL()`: Add a `STOPSIGNAL` command.

Usage:

`Dockerfile$STOPSIGNAL(signal)`

Arguments:

`signal` The signal to add.

Returns: the Dockerfile object, invisibly.

Method `HEALTHCHECK()`: Add a `HEALTHCHECK` command.

Usage:

`Dockerfile$HEALTHCHECK(check)`

Arguments:

`check` The check to add.

Returns: the Dockerfile object, invisibly.

Method SHELL(): Add a SHELL command.

Usage:

Dockerfile\$SHELL(shell)

Arguments:

shell The shell to add.

Returns: the Dockerfile object, invisibly.

Method MAINTAINER(): Add a MAINTAINER command.

Usage:

Dockerfile\$MAINTAINER(name, email)

Arguments:

name, email The name and email of the maintainer.

Returns: the Dockerfile object, invisibly.

Method custom(): Add a custom command.

Usage:

Dockerfile\$custom(base, cmd)

Arguments:

base, cmd The base and command to add.

Returns: the Dockerfile object, invisibly.

Method COMMENT(): Add a comment.

Usage:

Dockerfile\$COMMENT(comment)

Arguments:

comment The comment to add.

Returns: the Dockerfile object, invisibly.

Method print(): Print the Dockerfile.

Usage:

Dockerfile\$print()

Returns: used for side effect

Method write(): Write the Dockerfile to a file.

Usage:

Dockerfile\$write(as = "Dockerfile", append = FALSE)

Arguments:

as The file to write to.

append boolean, if TRUE append to file.

Returns: used for side effect

Method `switch_cmd()`: Switch commands.

Usage:

```
Dockerfile$switch_cmd(a, b)
```

Arguments:

a, b The commands to switch.

Returns: the Dockerfile object, invisibly.

Method `remove_cmd()`: Remove a command.

Usage:

```
Dockerfile$remove_cmd(when)
```

Arguments:

when The commands to remove.

Returns: the Dockerfile object, invisibly.

Method `add_after()`: Add a command after another.

Usage:

```
Dockerfile$add_after(cmd, after)
```

Arguments:

cmd The command to add.

after Where to add the cmd

Returns: the Dockerfile object, invisibly.

Method `clone()`: The objects of this class are cloneable with this method.

Usage:

```
Dockerfile$clone(deep = FALSE)
```

Arguments:

deep Whether to make a deep clone.

Examples

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

docker_ignore_add	Create a dockerignore file
-------------------	----------------------------

Description

Create a dockerignore file

Usage

```
docker_ignore_add(path)
```

Arguments

path Where to write the file

Value

The path to the .dockerignore file, invisibly.

Examples

```
## Not run:
  docker_ignore_add()

## End(Not run)
```

dock_from_desc	<i>Create a Dockerfile from a DESCRIPTION</i>
----------------	---

Description

Create a Dockerfile from a DESCRIPTION

Usage

```
dock_from_desc(
  path = "DESCRIPTION",
  FROM = paste0("rocker/r-ver:", R.Version()$major, ".", R.Version()$minor),
  AS = NULL,
  sysreqs = TRUE,
  repos = c(CRAN = "https://p3m.dev/cran/latest"),
  expand = FALSE,
  update_tar_gz = TRUE,
  build_from_source = TRUE,
  extra_sysreqs = NULL,
  github_pat = c("none", "build_arg", "secret"),
  strict_install = TRUE
)
```

Arguments

path	path to the DESCRIPTION file to use as an input.
FROM	The FROM of the Dockerfile. Default is <code>paste0("rocker/r-ver:", R.Version()\$major, ".", R.Version()\$minor)</code> . Validated as a Docker image reference (alphanumerics, dot, slash, dash, underscore, optional :tag and / or @sha256:<hex>); other values raise an error to prevent shell-metacharacter injection into the generated FROM directive.
AS	The build-stage name of the Dockerfile (FROM ... AS <name>). Default is NULL (no AS). When non-NULL, validated as a simple build-stage name (<code>^[a-zA-Z0-9][a-zA-Z0-9._-]*\$</code>).

sysreqs	boolean. If TRUE, the Dockerfile will contain sysreq installation.
repos	character. The URL(s) of the repositories to use for options("repos"). Default is <code>c(CRAN = "https://p3m.dev/cran/latest")</code> (Posit Public Package Manager). When repos is a single CRAN-keyed PPM URL (<code>packagemanager.posit.co</code> , <code>packagemanager.rstudio.com</code> , or <code>p3m.dev</code>), the codegen rewrites it to the <code>__linux__/\$VERSION_CODENAME/shape</code> (codename resolved from <code>/etc/os-release</code> at image build time) and adds the strict HTTPUserAgent PPM requires, so the build pulls pre-compiled Linux binaries instead of compiling from source. Pass the legacy <code>c(CRAN = "https://cran.rstudio.com/")</code> to opt out. Each value must look like an http(s) URL (no quotes, spaces or newlines); each name (when set) must be a simple identifier (<code>^[A-Za-z][A-Za-z0-9._-]*\$</code>). Other values raise an error to prevent injection into the generated <code>echo "options(...)"</code> shell command.
expand	boolean. If TRUE each system requirement will have its own RUN line.
update_tar_gz	boolean. If TRUE and <code>build_from_source</code> is also TRUE, an updated tar.gz is created.
build_from_source	boolean. If TRUE no tar.gz is created and the Dockerfile directly mount the source folder.
extra_sysreqs	character vector. Extra debian system requirements. Will be installed with apt-get install. Each entry must be a Debian package name (<code>^[a-z0-9][a-z0-9.+-]+\$</code>); other values raise an error to prevent injection into the generated apt-get RUN.
github_pat	character. How to provide a GitHub PAT to remotes::install_github() for private dependency repositories. One of "none" (default; the generated Dockerfile does not reference any PAT), "build_arg" (emit ARG GITHUB_PAT + ENV propagation; pass with <code>--build-arg GITHUB_PAT=\$GITHUB_PAT</code> ; the PAT will be visible in the image metadata), or "secret" (BuildKit secret mount on each <code>install_github() / install_local()</code> RUN; the PAT is never persisted in the image; requires BuildKit, so pass with <code>DOCKER_BUILDKIT=1 docker build --secret id=github_pat,</code>
strict_install	boolean. When TRUE (the default), every install RUN in the generated Dockerfile is prefixed with <code>options(warn = 2)</code> ; so that any R warning during install (missing CRAN package, partial download, archived package, 404 on a remote) becomes a hard error and aborts the docker build. Set to FALSE if your build environment routinely emits benign warnings (locale defaulting, NTP time-verification, ABI-version notices) that you do not want to fail the build. Must be a single scalar logical; NA, character, numeric, NULL and length-2+ vectors are rejected with an error.

Details

Two install strategies are available for the package itself:

- `build_from_source = TRUE` (the default): the generated Dockerfile mounts the source folder and installs from it directly. `update_tar_gz` is ignored.
- `build_from_source = FALSE`: a source tarball (`<pkg>_<version>.tar.gz`) is COPY'd into the image and installed with `remotes::install_local()`. When `update_tar_gz = TRUE`, a

fresh tarball is built with `pkgbuild::build()` first (and any stale `<pkg>_*.tar.gz` in the current directory is removed); when `update_tar_gz = FALSE`, an already-built tarball is expected alongside the DESCRIPTION.

The package name and its dependency-field names are read from the DESCRIPTION and validated against the CRAN package-name grammar before being interpolated into the generated directives.

Value

Dockerfile

Examples

```
## Not run:
# From the DESCRIPTION of the package in the working directory:
dock <- dock_from_desc("DESCRIPTION")
dock

# Pull source packages from the classic CRAN mirror instead of PPM:
dock_from_desc(
  "DESCRIPTION",
  repos = c(CRAN = "https://cran.rstudio.com/")
)

## End(Not run)
```

dock_from_renv

Create a Dockerfile from an renv.lock file

Description

Create a Dockerfile from an `renv.lock` file

Usage

```
dock_from_renv(
  lockfile = "renv.lock",
  distro = NULL,
  FROM = "rocker/r-ver",
  AS = NULL,
  sysreqs = TRUE,
  repos = c(CRAN = "https://p3m.dev/cran/latest"),
  expand = FALSE,
  extra_sysreqs = NULL,
  use_pak = FALSE,
  user = "rstudio",
  dependencies = NA,
  sysreqs_platform = "ubuntu",
  renv_version,
```

```

github_pat = c("none", "build_arg", "secret"),
renv_paths_cache = NULL
)

```

Arguments

lockfile	Path to an <code>renv.lock</code> file to use as an input. The <code>basename(lockfile)</code> must be located at the docker build context root at <code>docker build</code> time, because the generated Dockerfile emits <code>COPY <basename(lockfile)> renv.lock</code> . Validated as a single string whose <code>basename</code> contains only alphanumerics, dots, underscores or hyphens (no spaces or shell metacharacters).
distro	<ul style="list-style-type: none"> • deprecated - only debian/ubuntu based images are supported
FROM	Docker image to start FROM. Default is <code>"rocker/r-ver"</code> , which is multi-arch (linux/amd64 + linux/arm64) and gets the lockfile's R version appended at codegen time (e.g. <code>rocker/r-ver:4.5.0</code>). Pass an already-tagged or already-digested reference (<code>rocker/r-ver:4.4.1</code> , <code>rocker/r-base@sha256:...</code>) to override the auto-tag; the user's tag is honoured verbatim, even if it differs from the lockfile's <code>R\$Version</code> . <code>R-devel</code> and <code>release-candidate</code> users whose lockfile records <code>r-devel</code> or <code>4.5.0-RC</code> may want to pass an explicit tag like <code>FROM="rocker/r-ver:devel"</code> to control which base image is pulled. Validated as a Docker image reference (<code><host>[:<port>]/<image>[:<tag>][@sha256:<hex>]</code>); other values raise an error to prevent shell-metacharacter injection into the generated FROM directive.
AS	The AS of the Dockerfile. Default is <code>NULL</code> . When non- <code>NULL</code> , validated as a simple build-stage name (<code>^[a-zA-Z0-9][a-zA-Z0-9._-]*\$</code>).
sysreqs	boolean. If <code>TRUE</code> , the Dockerfile will contain <code>sysreq</code> installation.
repos	character. The URL(s) of the repositories to use for <code>options("repos")</code> . Default is <code>c(CRAN="https://p3m.dev/cran/latest")</code> (Posit Public Package Manager). When the URL is recognized as a PPM host (<code>packagemanager.posit.co</code> , <code>packagemanager.rstudio.com</code> , or <code>p3m.dev</code>), the codegen rewrites it to the <code>__linux__\$VERSION_CODENAME/</code> shape so the build pulls Linux binaries (5-10x faster than building from source). Each value must look like an <code>http(s)</code> URL (no quotes, spaces or newlines); each name (when set) must be a simple identifier (<code>^[A-Za-z][A-Za-z0-9._-]*\$</code>). Other values raise an error to prevent injection into the generated <code>echo "options(...)"</code> shell command.
expand	boolean. If <code>TRUE</code> each system requirement will have its own <code>RUN</code> line.
extra_sysreqs	character vector. Extra debian system requirements. Will be installed with <code>apt-get install</code> . Each entry must be a Debian package name (<code>^[a-z0-9][a-z0-9.+~]*\$</code>); other values raise an error to prevent injection into the generated <code>apt-get RUN</code> .
use_pak	boolean. If <code>TRUE</code> use <code>pak</code> to deal with dependencies during <code>renv::restore()</code> . <code>FALSE</code> by default. Must be a single <code>TRUE</code> or <code>FALSE</code> (no <code>NA</code> , no vector).
user	Name of the user the runtime container drops privilege to before the <code>renv::restore()</code> step (and therefore at runtime). Default is <code>"rstudio"</code> so the generated image runs as a non-root user out of the box, which is the recommended security posture.

The Dockerfile is emitted in two halves: every step that needs root (apt-get, R install commands, chown of the renv cache) runs first; then a USER <user> directive drops privilege; then the renv::restore() cache-mount RUN happens. To make this work regardless of the FROM image, the package emits a defensive RUN id -u <user> >/dev/null 2>&1 || useradd -m -d /home/<user> -s /bin/bash <user> early. On rocker/* images the useradd is a no-op (the user already exists); on r-base, ubuntu:*, debian:* it creates the user with the standard home directory.

Pass user = NULL to opt out: no USER directive is emitted and the container runs as root (the previous behaviour). Pass any other string to use that user instead of rstudio. Custom homes (e.g. /srv/myapp) require also passing an explicit renv_paths_cache.

debian/ubuntu images only (useradd is the standard form); for alpine-based images you must pass user = NULL and handle user creation yourself with the alpine-native adduser.

The argument is validated at codegen time against `^[a-zA-Z_][a-zA-Z0-9_-]{0,31}$` (POSIX-style username, max 32 chars, no shell metacharacters). Other values raise an error to prevent metacharacter injection into the generated RUN commands.

dependencies What kinds of dependencies to install. Most commonly one of the following values:

- NA: only required (hard) dependencies,
- TRUE: required dependencies plus optional and development dependencies,
- FALSE: do not install any dependencies. (You might end up with a non-working package, and/or the installation might fail.)

sysreqs_platform

System requirements platform.ubuntu by default. If NULL, then the current platform is used. Can be : "ubuntu-22.04" if needed to fit with the FROM Operating System. Only debian or ubuntu based images are supported

renv_version character or NULL. The renv version to install. The argument has three distinct modes, deliberately encoded with the missing-vs-NULL distinction:

- **not supplied (default)**: read the renv version from the renv.lock file. If the lockfile does not pin renv either, the latest available version is installed.
- **NULL (explicit)**: always install the latest renv from the configured repos, even when the lockfile pins a specific version.
- **a character string such as "1.0.0"**: install that specific version regardless of what the lockfile says.

When supplied as a string, validated as a version-like token `(^[0-9]+(\.[0-9]+){0,3}([-.]?[a-zA-Z0-`

github_pat

character. How to provide a GitHub PAT to renv::restore() for private dependency repositories. One of "none" (default; the generated Dockerfile does not reference any PAT), "build_arg" (emit ARG GITHUB_PAT + ENV propagation; pass with --build-arg GITHUB_PAT=\$GITHUB_PAT; the PAT will be visible in the image metadata), or "secret" (BuildKit secret mount on the renv::restore() RUN; the PAT is never persisted in the image; requires BuildKit, so pass with DOCKER_BUILDKIT=1 docker build --secret id=github_pat,env=GITHUB_PAT ...

renv_paths_cache

character or NULL. Path used as the default of the RENV_PATHS_CACHE build-arg, propagated as an ENV variable, and used as the cache mount target for `renv::restore()`. Lets users override the renv cache location at image build time via `--build-arg RENV_PATHS_CACHE=...`

When NULL (the default), the cache path is derived from `user: /root/.cache/R/renv` when `user = NULL`, and `/home/<user>/.cache/R/renv` when `user` is a non-root username. Pass an explicit string to override the convention (e.g. for custom-home users like `user = "myapp"` with home at `/srv/myapp`, pass `renv_paths_cache = "/srv/myapp/.cache/R/renv"`).

In all cases (`user = NULL` excepted), the generated Dockerfile emits a single `RUN mkdir -p "${RENV_PATHS_CACHE}" && chown -R <user>:<user> "${RENV_PATHS_CACHE}"` step right before the `USER <user>` directive so the cache mount target is writable from the un-privileged user. The cache path is double-quoted at shell expansion time so a build-arg override containing whitespace cannot break the command.

Details

System requirements for packages are provided through RStudio Package Manager via the `pak` package. The install commands provided from `pak` are added as `RUN` directives within the `Dockerfile`.

The R version is taken from the `renv.lock` file. Packages are installed using `renv::restore()` which ensures that the proper package version and source is used when installed.

Value

A R6 object of class `Dockerfile`.

Examples

```
## Not run:
dock <- dock_from_renv("renv.lock")
dock$write("Dockerfile")

## End(Not run)
```

get_sysreqs

Get system requirements

Description

This function retrieves information about the system requirements using the `pak::pkg_sysreqs()`.

Usage

```
get_sysreqs(packages, quiet = TRUE, batch_n = 30)
```

Arguments

packages	character vector. Packages names.
quiet	Boolean. If TRUE the function is quiet.
batch_n	numeric. Number of simultaneous packages to ask.

Value

A vector of system requirements.

Examples

```
## Not run:  
get_sysreqs("glue")  
get_sysreqs(c("curl", "xml2"))  
  
## End(Not run)
```

parse_dockerfile	<i>Parse a Dockerfile</i>
------------------	---------------------------

Description

Create a Dockerfile object from a Dockerfile.

Usage

```
parse_dockerfile(path)
```

Arguments

path	path to the Dockerfile
------	------------------------

Value

A Dockerfile object

Examples

```
parse_dockerfile(system.file("Dockerfile", package = "dockerfiler"))
```

r	<i>Turn an R expression into a shell R -e '...' call</i>
---	--

Description

Captures an R expression unevaluated and renders it as a single shell-quoted R `-e '...'` string, suitable for a [Dockerfile](#) `$RUN()` directive.

Usage

```
r(code)
```

Arguments

code an R expression (captured unevaluated) to wrap.

Value

a length-1 character string of the form `R -e '...'`, shell-quoted with `base::shQuote()`.

Examples

```
r(print("yeay"))  
r(install.packages("plumber", repos = "https://cloud.r-project.org"))
```

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