

docker image build

Estimated reading time: 4 minutes

Description

Build an image from a Dockerfile

Usage

```
docker image build [OPTIONS] PATH | URL | -
```

Options

Name, shorthand	Default	Description
<code>--add-host</code>		Add a custom host-to-IP mapping (host:ip)
<code>--build-arg</code>		Set build-time variables
<code>--cache-from</code>		Images to consider as cache sources
<code>--cgroup-parent</code>		Optional parent cgroup for the container
<code>--compress</code>		Compress the build context using gzip
<code>--cpu-period</code>		Limit the CPU CFS (Completely Fair Scheduler) period
<code>--cpu-quota</code>		Limit the CPU CFS (Completely Fair Scheduler) quota
<code>--cpu-shares</code> , <code>-c</code>		CPU shares (relative weight)
<code>--cpuset-cpus</code>		CPUs in which to allow execution (0-3, 0,1)
<code>--cpuset-mems</code>		MEMs in which to allow execution (0-3, 0,1)
<code>--disable-content-trust</code>	<code>true</code>	Skip image verification
<code>--file</code> , <code>-f</code>		Name of the Dockerfile (Default is 'PATH/Dockerfile')
<code>--force-rm</code>		Always remove intermediate containers
<code>--iidfile</code>		Write the image ID to the file
<code>--isolation</code>		Container isolation technology
<code>--label</code>		Set metadata for an image
<code>--memory</code> , <code>-m</code>		Memory limit
<code>--memory-swap</code>		Swap limit equal to memory plus swap: '-1' to enable unlimited swap
<code>--network</code>		API 1.25+ (https://docs.docker.com/engine/api/v1.25/) Set the networking mode for the RUN instructions during build

Name, shorthand	Default	Description
<code>--no-cache</code>		Do not use cache when building the image
<code>--platform</code>		experimental (daemon) (https://docs.docker.com/engine/reference/commandline/dockerd/#daemon-configuration-file) API 1.32+ (https://docs.docker.com/engine/api/v1.32/) Set platform if server is multi-platform capable
<code>--progress</code>	<code>auto</code>	Set type of progress output (auto, plain, tty). Use plain to show container output
<code>--pull</code>		Always attempt to pull a newer version of the image
<code>--quiet , -q</code>		Suppress the build output and print image ID on success
<code>--rm</code>	<code>true</code>	Remove intermediate containers after a successful build
<code>--secret</code>		API 1.39+ (https://docs.docker.com/engine/api/v1.39/) Secret file to expose to the build (only if BuildKit enabled): id=mysecret,src=/local/secret
<code>--security-opt</code>		Security options
<code>--shm-size</code>		Size of /dev/shm
<code>--squash</code>		experimental (daemon) (https://docs.docker.com/engine/reference/commandline/dockerd/#daemon-configuration-file) API 1.25+ (https://docs.docker.com/engine/api/v1.25/) Squash newly built layers into a single new layer
<code>--ssh</code>		API 1.39+ (https://docs.docker.com/engine/api/v1.39/) SSH agent socket or keys to expose to the build (only if BuildKit enabled) (format: default [= [,]])
<code>--stream</code>		experimental (daemon) (https://docs.docker.com/engine/reference/commandline/dockerd/#daemon-configuration-file) API 1.31+ (https://docs.docker.com/engine/api/v1.31/) Stream attaches to server to negotiate build context
<code>--tag , -t</code>		Name and optionally a tag in the 'name:tag' format
<code>--target</code>		Set the target build stage to build.
<code>--ulimit</code>		Ulimit options

Parent command

Command	Description
<code>docker image</code> (https://docs.docker.com/engine/reference/commandline/image)	Manage images

Related commands

Command	Description
<code>docker image build</code> (https://docs.docker.com/engine/reference/commandline/image_build/)	Build an image from a Dockerfile

Command	Description
<code>docker image history</code> (https://docs.docker.com/engine/reference/commandline/image_history/)	Show the history of an image
<code>docker image import</code> (https://docs.docker.com/engine/reference/commandline/image_import/)	Import the contents from a tarball to create a filesystem image
<code>docker image inspect</code> (https://docs.docker.com/engine/reference/commandline/image_inspect/)	Display detailed information on one or more images
<code>docker image load</code> (https://docs.docker.com/engine/reference/commandline/image_load/)	Load an image from a tar archive or STDIN
<code>docker image ls</code> (https://docs.docker.com/engine/reference/commandline/image_ls/)	List images
<code>docker image prune</code> (https://docs.docker.com/engine/reference/commandline/image_prune/)	Remove unused images
<code>docker image pull</code> (https://docs.docker.com/engine/reference/commandline/image_pull/)	Pull an image or a repository from a registry
<code>docker image push</code> (https://docs.docker.com/engine/reference/commandline/image_push/)	Push an image or a repository to a registry
<code>docker image rm</code> (https://docs.docker.com/engine/reference/commandline/image_rm/)	Remove one or more images
<code>docker image save</code> (https://docs.docker.com/engine/reference/commandline/image_save/)	Save one or more images to a tar archive (streamed to STDOUT by default)
<code>docker image tag</code> (https://docs.docker.com/engine/reference/commandline/image_tag/)	Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE