Docker Cheat Sheet & Quick Reference

> Search cheats here   🔍

Image

$ docker build -t my-image:1.0 .
Build a image with the name *my-image* and tag *1.0*

$ docker image ls
List local images

$ docker image rm my-image:1.0
Delete local image by the name:tag *my-image:1.0*

$ docker build -t my-image .
Build an image in the current directory with the name *my-image*

$ docker pull nginx
$ docker image pull nginx   *#version >= 1.13*
Pull image *nginx* from a registry

$ docker push myrepo/my-image:2.0
$ docker image push myrepo/my-image:2.0   *#version >= 1.13*
Push image *my-image* to repository *myrepo* under a registry

Container

$ docker run my-image:1.0
$ docker container run my-image:1.0   *#version >= 1.13*
Run a container from *my-image:1.0*

$ docker run --name www my-image:1.0
Run a container from *my-image:1.0* with the name *www*

$ docker run --name www -p 80:3000 my-image:1.0
Run a container from *my-image:1.0* exposing internal port *3000* to external port *80*

$ docker stop www
$ docker container stop www   *#version >= 1.13*
Stop a container by the name *www*

$ docker stop www1 www2
$ docker container stop www1 www2   *#version >= 1.13*
Stop containers by the name *www1 www2 ...*

$ docker kill www

$ docker container kill www   *#version >= 1.13*

Kill a container by the name *www*

$ docker kill www1 www2

$ docker container kill www1 www2   *#version >= 1.13*

Kill containers by the name *www1 www2* ...

$ docker ps

$ docker container list   *#version >= 1.13*

$ docker container ls   *#version >= 1.13*

List running containers

$ docker ps --all

$ docker ps -a

$ docker container list --all   *#version >= 1.13*

$ docker container ls -all   *#version >= 1.13*

List all containers

$ docker exec www id

$ docker container exec www id   *#version >= 1.13*

Runs *id* in *www* container

$ docker exec -it ubuntu bash

$ docker container exec -it ubuntu bash   *#version >= 1.13*

Run an interactive bash shell on the container

Network

$ docker network ls   *#version >= 1.21*

List network

System

$ docker system prune   *# version >= 1.25*

Remove all unused containers, networks, images (both dangling and unreferenced)

$ docker system prune --volumes   *# version >= 1.25*

Remove all unused containers, networks, images (both dangling and unreferenced), and volumes.

$ docker system prune --all --volumes   *# version >= 1.25*

Remove all unused containers, networks, all unused images, and volumes.

Compose

$ docker-compose up

Create and run containers in the foreground

$ docker-compose up -d

Create and run containers in the background

$ docker-compose ps

List running containers

$ docker-compose ps --all

$ docker-compose ps -a

List all containers

$ docker-compose stop

Stop containers

$ docker-compose down

Stop and remove containers, networks created by up

$ docker-compose pull

Pull images defined in a Compose file