

Cheatsheet for Docker CLI

Run a new Container

Start a new Container from an Image

docker run IMAGE docker run nginx

..and assign it a name

docker run -- name CONTAINER IMAGE

docker run -- name web nginx

...and map a port

docker run -p HOSTPORT: CONTAINERPORT IMAGE

docker run -p 8080:80 nginx

...and map all ports

docker run -P IMAGE docker run -P nginx

.and start container in background

docker run -d IMAGE docker run -d nginx

...and assign it a hostname

docker run --hostname HOSTNAME IMAGE

docker run --hostname srv nginx

..and add a dns entry

docker run --add-host HOSTNAME: IP IMAGE

...and map a local directory into the container

docker run -v HOSTDIR: TARGETDIR IMAGE

docker run -v ~/:/usr/share/nginx/html nginx

...but change the entrypoint

docker run -it --entrypoint EXECUTABLE IMAGE

docker run -it --entrypoint bash nginx

Manage Containers

Show a list of running containers docker ps

Show a list of all containers docker ps -a

Delete a container

docker rm CONTAINER

docker rm web

Delete a running container

docker rm -f CONTAINER

docker rm -f web

Delete stopped containers docker container prune

Stop a running container

docker stop CONTAINER

docker stop web

Start a stopped container

docker start CONTAINER

docker start web

Copy a file from a container to the host docker op CONTAINER:SOURCE TARGET docker cp web:/index.html index.html

Copy a file from the host to a container

docker op TARGET CONTAINER: SOURCE docker cp index.html web:/index.html

Start a shell inside a running container docker exec -it CONTAINER EXECUTABLE

docker exec -it web bash

Rename a container

docker rename OLD_NAME_NEW_NAME

docker rename 096 web

Create an image out of container

docker commit CONTAINER

docker commit web

Manage Images

Download an image

docker pull IMAGE[:TAG]

docker pull nginx

Upload an image to a repository

docker push IMAGE

docker push myimage:1.0

Delete an image

docker rmi IMAGE

Show a list of all Images

docker images

Delete dangling images

docker image prune

Delete all unused images

docker image prune -a

Build an image from a Dockerfile

docker build DIRECTORY

docker build .

Tag an image

docker tag IMAGE NEWIMAGE docker tag ubuntu ubuntu:18.04

Build and tag an image from a Dockerfile docker build -t IMAGE DIRECTORY

docker build -t mvimage .

Save an image to .tar file

docker save IMAGE > FILE

docker save nginx > nginx.tar

Load an image from a .tar file

docker load -i TARFILE

docker load -i nginx.tar

Info & Stats

Show the logs of a container

docker logs CONTAINER

docker logs web

Show stats of running containers

docker stats

Show processes of container

docker top CONTAINER

docker top web

Show installed docker version

docker version

Get detailed info about an object

docker inspect NAME

docker inspect nginx

Show all modified files in container

docker diff CONTAINER docker diff web

Show mapped ports of a container

docker port CONTAINER

docker port web