

Cheatsheet for Docker CLI

Run a new Container

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Start a new Container from an Image
docker run IMAGE
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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 myimage .

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