



Docker CLI CheatSheet



Run a new Container

-- Start a new Container from an Image

docker run IMAGE

docker run nginx

-- Assign it a name

docker run --name CONTAINER IMAGE

docker run --name web nginx

-- Map a port

docker run -p HOSTPORT:CONTAINERPORT IMAGE

docker run -p 8080:80

-- Map all ports

docker run -P IMAGE

docker run -P nginx

-- Start Container in background

docker run -d IMAGE

docker run -d nginx



-- **Assign it a hostname**

```
docker run --hostname HOSTNAME IMAGE
```

```
docker run --hostname srv nginx
```

-- **Add a dns entry**

```
docker run --add-host HOSTNAME:IP IMAGE
```

-- **Map a local directory into the container**

```
docker run -v HOSTDIR:TARGETDIR IMAGE
```

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

-- **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 stoped container

```
docker container prune
```

-- Stop a running container

```
docker stop CONTAINER
```

```
docker stop web
```



-- Copy a file from a container to the host

```
docker cp CONTAINER:SOURCE TARGET
```

```
docker cp web:/index.html index.html
```

-- Copy a file from host to a container

```
docker cp 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 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 a 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



Thank You