Docker Cheatsheet

Images

Blueprints of applications that form the basis of containers.

PULL IMAGE

- > docker pull hello-world
- > docker pull <username>/<img_tag>

LIST IMAGES

> docker images

BUILD IMAGE

- > docker build .
- # with tag
- > docker build -t <img_tag> .

INSPECT IMAGE

- > docker inspect <username>/<img_tag>
- > docker history <username>/<img_tag>

TAG IMAGE

> docker tag <img_tag_or_id> <new_tag>

PUSH IMAGE

- > docker build -t <username>/<img_tag> .
- > docker push <username>/<img_tag>

REMOVE IMAGE(S)

- > docker rmi <img_tag>
- # remove all images
- > docker rmi \$(docker images -a -g)

Containers

Created from images to run applications

RUN CONTAINER

- > docker run hello-world
- > docker run <username>/<img_tag>
- # detached with port mapping <host>:<container>
- > docker run -d --name <name> -p 80:80 <img_tag>

RUN SHELL ON CONTAINER

- > docker exec -it <name_or_id> /bin/bash
- # run shell on last run container
- > docker exec -it \$(docker ps -aq) /bin/bash
- # TIP: Detach with Ctrl + P, Ctrl + Q

GET LOGS FROM CONTAINER

> docker logs -f <name_or_id>

INSPECT CONTAINER

> docker inspect <name_or_id>

LIST CONTAINERS

- > docker ps -a
- # list only running containers
- > docker ps

START/STOP CONTAINER

- > docker start <name_or_id>
- > docker stop <name_or_id>
- # a less graceful shutdown with SIGKILL
- > docker kill <name_or_id>

REMOVE CONTAINER(S)

- > docker rm <name or id>
- # remove all exited containers
- > docker rm \$(docker ps -aq -f status=exited)
- # remove all containers
- > docker rm \$(docker ps -ag)

Sample Dockerfile

Networks

CREATE A NETWORK

> docker network create --driver=bridge <name>

CONNECT TO A NETWORK

- # run an image and connect to the network
- > docker run -d --net <ntwrk_name> <img_name>
- # connect a running container to a network

LIST NETWORKS

> docker network ls

INSPECT NETWORK

> docker network inspect <ntwrk_name>

REMOVE NETWORK

> docker network rm <ntwrk name>



