DOCKER Cheat Sheet

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DOCKER

Docker is an open source platform for building, deploying, and managing containerized applications.

DOCKER IMAGES

Download an image
docker pull nginx
Upload an image to a repository
docker push myimage:1.0
Delete an image
docker rmi nginx
Show a list of all Images
docker images
Delete dangling images
docker image prune
Build an image from a Dockerfile
docker build .
Tag an image
docker tag ubuntu ubuntu:18.04
Save an image
docker save nginx > nginx.tar
Load an image from a .tar file
docker load -i nginx.tar

RUN CONTAINERS

Start a new Container from an Image
docker run nginx
Assign it a name
docker run --name web nginx
Map a port
docker run -p 8080:80 nginx
Map all ports
docker run -P nginx

RUN CONTAINERS (cont)

Start container in background
docker run -d nginx
Assign it a hostname
docker run --hostname srv 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 web
Delete a running container
docker rm -f web
Delete stopped containers
docker container prune
Stop a running container
docker stop web
Start a stopped container
docker start web
Create an image out of container
docker commit web

NETWORK

List networks
docker network ls
Create a local network
docker network create mynet
Show Information on one or more networks
docker network inspect (network)
Connect a container to a network

NETWORK (cont)

docker network connect (network) (container)
Disconnect a container from a network
docker network disconnect (network) (container)

DOCKER COMPOSE

Start your docker-compose defined resources in detached mode
docker-compose up -d -f <docker_compose_yaml>
Stop all docker-compose resources
docker-compose stop
Destroy all docker-compose resources
docker-compose down

ORCHESTRATE

Initialize swarm
Docker swarm init --advertise-addr IP
Join an existing swarm as manager/worker node
Docker swarm join --token<manager-token> IP
Docker swarm join --token<worker-token> IP
Create a service
Docker service create --replicas 3 -p 80:80 --name web nginx

DOCKER MACHINE

Create a machine
docker-machine create --driver VirtualBox NAME
List all the machines
docker-machine ls
Connect to a machine
docker-machine ssh NAME

VOLUMES

List volumes
docker volume ls
Create a volume
docker volume create <volume>
Delete a volume
docker volume rm <volume>
Mount a local directory to your container
docker run -v <local_dir>:/<container_dir> <image>

TROUBLESHOOTING

Show the logs of a container
docker logs <container>
Show a 'top' view of processes running on a container
docker top <container>
Show any files that have changed since startup
docker diff <container>
Connect to an already running container
docker attach <container>
Execute a command on a container
docker exec -it <container_id> /bin/bash
Show docker disk space used
docker system df