Docker >

Docker Cheat Sheet

IMAGES

Info

show images on host

docker images

get image ID by name

docker images --format="{{.ID}}}"
myImageName

inspect image

docker inspect image:version | jq .

Remove

remove image by name

docker rmi reponame:tag

remove dangling images (w no names or tags)

docker image prune

remove all images that dont have a child container

running

docker image prune -a

remove ALL images

docker rmi \$(docker images -qa)

Build

build an image from Dockerfile

docker build -t user/image-name .

Dockerfile config:

FROM debian:wheezy #provide a base

ımage

RUN apt-get update && apt-get install y cowsay #run additional commands to
build container

ENTRYPOINT /usr/bin/telnet

ADD /host_dir /target_dir #copy contents to container from the host

CMD "echo" "all done!" #cmd to execute
once container is built

ENV PROXY_SERVER http://www.proxy.com
#set env vars

EXPOSE 8250 #expose port from service inside container to outside

USER 125 #UID of user running the container

CONTAINERS

Info

show all containers and their status

docker ps -a

get just container IDs

docker ps -qa

show diffs made to container

docker diff containerName

see all operations done inside the container

docker logs containerName (or container ID)

get JSON info about a container

docker inspect <containerName or containerID>

Bash into a container

docker exec -ti <container Name> bash

Bash into a STOPPED container,

docker run -it --entrypoint /bin/bash <image_id>

get JSON output of all containers

curl -s --unix-socket /var/run/docker.sock
http:/containers/json

SSH into existing running container

docker attach \$containerID

docker exec -ti \$containerID bash

bind container network to the underlying host

docker run --network host -d --rm -e

VAULT_DEV_ROOT_TOKEN_ID=abcd -p "8200:8200"

artifactory.corp.local/docker.io/vault:0.9.5

will listen on 0.0.0.0:8200

Run/Stop

run a container, and login via terminal

docker run -it imageName

run a container w specific hostname and name

docker run -it --name myName --hostname myHostname imageName

run container as daemon, bind to a port, give container a name docker run -d -p 5200:5200 --name myName imageName

Stop a running container

VOLUME ["/tmp"] #enable access from container to dir on the host machine

WORKDIR ~/dev #where CMD will execute
from

COPY file.conf /etc/app/app.conf #copy
from host to container

COMPOSE

run docker compose up,

docker-compose -f my-compose-file.yaml up
-d

stop container,

docker-compose stop

remove stopped containers

docker-compose rm -f

SWARM

start swarm on leader node

docker swarm init

leader node generates token

add node to swarm

docker swarm join \
> --token <TOKEN> \
> <IP>:2377

This node joined a swarm as a worker.

start a service from a docker-compose file

docker stack deploy -c dockercompose.yaml jira-maestro

see all running services

docker service ls

inspect service

docker service inspect <service name>

see which Swarm nodes are running the service

docker service ps <service ID>

scale out a service to more instances

docker service scale <service name>=5 (or # of instances)

remove a service

docker service rm <service name>

```
docker ps (get container ID)
docker stop $containerID (or by Name)
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Stop all Running containers

docker ps -a --format="{{.ID}}" | xargs docker stop

Start container

docker start \$containerID

exit the container if logged in via terminal exit

run a container, make a container Volume be available to host, ie, can read Container's application logs directly from Docker host docker run -p 5100:5100 --volume <path to volume on host>:<path to volume on container> docker run -p 5100:5100 --volume /host/data/app1:/opt/container/app1

Remove

remove container by name

docker rm <name>

remove all stopped containers

docker container prune

remove all containers

docker rm \$(docker ps -aq)

prune Everything (remove dangling images, containers, networks) docker system prune -f

Container Quick run

Splunk

docker image pull splunk/splunk docker run -d -e "SPLUNK_START_ARGS=--accept-license" e "SPLUNK_USER=root" -p "8000:8000" -p "8088:8088" -p "8089:8089" --name splunk splunk/splunk

10/15/20	https://sites.google.com/site/mrxpalmeiras/docker/docker?tmpl=%2Fsystem%2Fapp%2Ftemplates%2Fprint%2F&showPrintDialog=1