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STEABLE RELEASE (2020): 19.03

FROM image

MAINTAINER name

CMD python app.py

RUN apt install x

ENTRYPOINT ...

ENV key value

COPY /src /dest

ADD url /dest

VOLUME /path

USER user

WORKDIR path/to

ARG name=value

ONBUILD instruction

TOP DOCKER HUB: ubuntu, redis, node, postgres, traefik, mongo, alpine, nginx, hello-world, python

THE DOCKEREILE Creating a container

> Sets the base image > Sets the Author

> Executes any cmnd

for the image > Default execution

when container is up > Run as executable

> Sets an environment variable to be passed

> Copy files inside container

> Copy files from url inside container

-t / --tty

-d / --detach

--rm

--name cont name

-e. --env var=value

--env-file file name

--add-host=host:ip

-h. --hostname="name

-v / --volume host cont

> External mount

point from container > Sets the working dir

inside container > Sets username

> Define a var to be passed at build time > Executes inst. when img used with FROM

BUILDING IMAGES [*] = optional docker build [opts] path > New docker image E.g. \$docker build -t app ./main

-t /--tag image name > Image name -f / --file path > Path to Dockerfile --build-arg var=value > Build an argument

--label namespace var > Sets metadata -q /--quite > Supress the output --rm

> delete intermediate container

MANAGING CONTAINERS [*] = optional docker run [opts] img [command]

>> Creates and run a new container E.g. \$docker run -it --name app img name -i / --interactive > stdin is always open

> tty is active (enables the terminal) > Assign a name to the container

> > Mount a volume > Run container in the background > Sets env variable

> Read a file with vars > Cont_host name > Add host to ip map.

> Remove when exits

-a --all

-a. --auite

--no-trunc

-l. --latest

docker ps [opts]

docker stop [opts] container

docker kill [opts] container

RUNNING CONTAINERS

-i. --interactive

-d / --detach

-t / --ttv

-t, --time

>> Stop one or more existant containers

>> Kill one or more running containers

docker exec [opts] container command

>> Run a process in a running container

docker cp container: path host path

E.g. \$docker cp cont:/data ./files

LISTING IMAGES & CONT.

docker images [opts]

>> Copy files from container to the outside

docker logs container > Show all logs

E.g. \$docker exec -it container bin/bash

> count down to stop

[*] = optional

> stdin is always open

[*] = optional

>Show all images

> Show only IDs

>Show all images

> Show last container

> Full output

> Show all

> tty is active

> Run detached

REMOVING IMAGES & CONT. [*] = optional

*Same as before: -a /-g /--no trunc

docker rm [opts] container >> Remove one or more containers

-f. --force > Show all

-v. --volume > Show only IDs

docker rmi [opts] >Remove images *Same as before: -f

docker create [opts] img cmd >> Create a new stopped container, same opts docker start [opts] container

>> Start one or more existant containers E.g. \$docker start container name

-a. --attach

> attach stdout -i. --interactive > attach stdin