

Dockerfile Components

Steps: (create a container /
 : ~~add~~ up to the data make them into image
 : now from /

To find difference,
 docker diff <container name>

To create container of image,
 docker commit new container update image
 name of container name of image

DOCKERFILE

- A text file which contains set of instructions
- Automation of docker image creation

COMPONENTS

FROM - Top Command, it tells base image
 RUN - To execute
 MAINTAINER - Author/owner
 COPY - copy from local host
 ADD - copy from internet also extract
 EXPOSE - To expose port number
 WORKDIR - To set working directory for container
 CMD - create command during creation of container
 ENTRYPOINT - high priority than CMD
 ENV - Environment Variable
 ARG -

To create image from Dockerfile
 docker build -t myimage.

Docker Volume

image

Volume can be stored,

A directory inside our container

even if it is a container is mapped to accessible.

Once you create image of a container and from that image create another container then add container is not sharing with new container.

* Create Dockerfile

From ubuntu
VOLUME ["myvolume"]

To create image from Dockerfile
docker build -t myimage.

* Share vol with another Container

docker run -it --name container2 --privileged=true
- - volume from container 1 ubuntu /bin/bash

* Now try to create volume by using command.

docker run -it --name container3 -v volume2 /bin/bash

for host,

docker run -it --name container4 --privileged=true
- volume = from container 3 ubuntu /bin/bash

Docker Command,

docker volume ls

create <volume name>
-m

plain

(removed mounted docker vol)

import

docker container import <container name>

Docker Port mapping & expose

docker run -td --name <name of container>

-p 80:80 <image name>

Though expose & only internal connection btw container & host but through -p it can be done & port

To check if a port is expose on container,
docker port <container name>

docker exec -it <container name> /bin/bash

- p has priority over expose

Docker Hub

- Create an image from container then publish into Dockerhub.
- After publish will get that image and create container from it.

* To make image of a container
docker commit <container> <image>

- To login into Dockerhub account use,
docker login

1) To stop all running container: docker stop \$(docker ps -a -q)

2) delete all stopped container: docker rm \$(docker ps -a -q)

3) delete all image: docker rm -f \$(docker images -q)