- Merge conflict.

DOCKER

- Completely isolated environment they can have their own services, own network interfaces.
- all share the same OS kernel
- use LXC

→ OS kernel : responsible for underlying hardware (ie OS kernel is Linux)
→ Software : drivers, file manager, GUI

Main purpose of Docker is to package and containerize applications and to ship and run them.

- An Image is a package or template
- Containers are running instances of images.

Docker editions

1) Community
2) Enterprise - extra fetures
image management, image vault, universal control plan

* To check version
sudo docker version
→ hub.docker.com

1) Run command (Get a container)
used to run a container from an image running the ~~docker~~
docker run nginx command

2) docker ps / docker ps -a

3) (Stop) → docker stop silly-sonet

4) docker rm silly-sonet (Remove)

5) docker images (Image)

6) docker rmi nginx
Note → first delet container

7) docker (pull) nginx
Jab image change ho, aur container nahi change

note: Container only lives as long as the process inside it

* Append a command
  docker run ubuntu (sleep) 5

* Execute a command
  docker exec <name> cat /etc/hot

* Run attach and detach
  docker run kodekloud/webapp

detach → docker run (-d) kodekloud/webapp

attach → docker attach <container id>

**

docker run centos
docker run (-it) centos bash
automatically log into docker container we use -it command
→ To check OS : cat /etc/*release*

o rm for container rmi for images

* To run a command in a container

1) Identify the container

1) docker exec <container id> cat /etc/release

→ exec command basically runs or execute a command on a running container.

* RUN TAG

docker run redis:4.0 → Tag

Note: By default the docker container does not listen to standard input.

docker run (-i) interactive parameter

docker run (-it) interactive pseudo terminal

* Run PORT Mapping

o Underlying host where Docker is installed is called Docker host or Docker engine.

docker run kodekloud/webapp

1) Running on http://0.0.0.0:5000/

2) docker run (-p) 80:5000 kodekloud/webapp

* RUN - volume mapping
data table location /var/lib/mysql)

* When we try to delete mysql, everything will be deleted so map this mysql to other port

docker run -v /opt/datadir:/var/lib/mysql mysql
-> data mount ho jayega

* Inspect container (To check more detail)
. docker inspect <name of container>
JSON format such as state, mount configuration date, network, setting.

* Container logs
docker logs <name of Container>

~~To check the version~~

* Advance features
. To check the version
) docker run ubuntu cat /etc/*release*

docker run ubuntu:17.10 cat /etc/*release*

Date / /
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1) Attach mode
docker run ubuntu sleep 1500

2) detach mode
docker run (-d) ubuntu sleep 1500

3) Reattach
docker attach <container id>

Cannot add port mapping while container is running.

Ques)
* To map port 8080 on container to 38282 on host

Ans) docker run -p 38282:(8080) kodekloud/simple-webapp : blue
port

DOCKER IMAGES
1) To create locally

docker (build) Dockerfile -t mmumshad/my-custom-app

2) To register in docker hub

docker push mmumshad/my-custom-app