```
Containerisation Tool Docker:
--image
--container
--dockerhub
--push and pulling images
--what is Image?
       Linux Commands -----> Kernal
-->docker image is light weight component
-->image with no kernal
 container-1 with no kernal
-->docker Architecture :
1)Launch ubuntu EC2 on aws
2)Install Docker on ubuntu
3)Login to Ubuntu
4)Commands
sudo su -
apt update -y
apt install docker.io -y
docker --version
docker pull ubuntu
docker images
docker run -it -p 81:80 --name web1 -d ubuntu
docker run -it -p 82:80 --name web2 -d ubuntu
```

_

docker container ps

docker stop <container-id/container-name>

docker container ps -a

docker pause web3

docker container ps

docker rm <container-id/container-name>

docker rm -f <container-id/container-name>

docker start <container-id/container-name>

docker unpause <container-id/container-name>

#login to container

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

exit

docker container ps

#execute on browser

http://43.205.143.147:83/readme.html

hosting a website into docker container

down load and install winscp

connect to linux machine using winscp

download a HTML template on windows Folder

copy template to linux machine

docker cp . web3:/var/www/html

7)docker create --help 8)docker inspect <container-id>/<container-name> 9)docker exec -it <container-id> pwd (present working directory) 10)docker run -dit -w /shashi ubuntu (container with working directory) 11)docker exec -it <container-id> pwd 12)docker exec -it <container-id> ls / 13)docker exec -it <container-id> env 14)docker run -dit --env Java_Home=/usr/share/java/jdk-1.8 --env JRE HOME=/usr/share/java/jre ubuntu 15)docker exec -it <container-id> env vi env.list JAVA_HOME=/usr/share/java/jdk-1.8 MAVEN_HOME=/usr/lib/maven docker logs <container id> --details docker logs <container_id> -t >To remove all running contaniers docker container rm -f \$(docker container ps -aq) >To remove all images docker rmi \$(docker images -a -q) setting memry limit for container docker container run --rm -it -d --name mem-limit-demo --memory=256m nginx:alpine docker stats mem-limit-demo --no-stream --format "{{ json . }}" | python3 -m json.tool docker container run --rm -it -d --name soft-mem-limit-demo --memory=1g --memory-reservation=512m nginx:alpine docker stats soft-mem-limit-demo --no-stream --format "{{ json . }}" | python3 -m json.tool

cpu limit

\$ docker container run --rm -it -d --name cpu-limit-demo --cpus=1 nginx:alpine \$ docker container run --rm -it -d --name cpu-sets-demo --cpus=1 --cpuset-cpus=2 nginx:alpine

docker restart <container name>
docker stats
docker system df
docker system prune -af
volumes

Restart a container
Show running container stats
Check docker daemon disk space usage
Remove images, networks, containers, and

docker pause <container>
docker unpause <container>