Docker Installation

In ubuntu

- # apt-get update
- #apt install docker.io -y
- # docker –version

In RHEL/CentOS/Fedora

- # yum install docker -y
- # docker --version
- # systemctl status docker
- # systemctl start docker

Docker operation

docker pull ubuntu

docker pull centos

docker images

ubuntu - -------- --64 mb

Centos ----------237 mb

#docker run -it -d ubuntu :- to run docker

docker ps :- to show all running container

docker exec -it cont.ID bash

now container is opened

check the file system

create some files or directories

exit

Docker Operation

docker ps

docker stop cont:id :- to stop the container

we can use "docker kill" in critical situation to stop immediately

 # docker rm cont:id :- to remove and delete container

 # docker rm -f cont:id :- to remove and delete container

#docker ps -a : to see all running and exited container

 # docker rm –f $(docker ps –qa) : to delete all container

 # docker rmi imagesid :- to delete the image from system

 # docker images

 # docker container prune : to remove all stopped container

 # docker inspect cont:id : to check without opening it

Running apache in ubuntu container

```
#  docker run -it -p 82:80  -d ubuntu
# docker ps
# docker exec  -it  cont:id  bash
# apt-get update
# apt install  apache2  -y
# cd /var/www/html
# nano  mobile.html
<html>
<h1> welcome to mobile zone </h1>
</html>
# service apache2  start
```

now copy the public IP of instance and paste in new tab

publicip:83 or publicip:83/mobile.html

Running HTTP server in centos container

```
#  docker run -it -p 83:80  -d  centos
# docker ps
# docker exec  -it  cont:id  bash
yum install  httpd -y
cd /var/www/html
nano  index.html
<html>
<h1> welcome to mobile zone </h1>
</html>
# /usr/sbin/httpd
```

now copy the public IP of instance and paste in new tab

publicip:83 or publicip:83/mobile.html

Commit changes in Container

Note: Container do not preserve the data permanently

#docker run -it -d ubuntu   :- to run docker
docker ps   :- to show all running container
docker exec -it   cont.ID   bash
mkdir -p /india/delhi/pm
touch /chennai
#exit
docker ps
docker commit cont:id   myubuntu
docker images
#docker run -it -d   myubuntu   :- to run docker
docker ps   :- to show all running container
docker exec -it   cont.ID   bash
ls /
now we will get the previously created data