Experiment No. 8th exam

1. Aim: To understand Docker Architecture, install docker and execute docker commands

C:\Users\HP>docker --version

Docker version 20.10.24, build 297e128

C:\Users\HP>docker login

Authenticating with existing credentials...

Login Succeeded

Logging in with your password grants your terminal complete access to your account.

For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/access-tokens/

C:\Users\HP>docker pull ubuntu

Using default tag: latest

latest: Pulling from library/ubuntu

Digest: sha256:67211c14fa74f070d27cc59d69a7fa9aeff8e28ea118ef3babc295a0428a6d21

Status: Image is up to date for ubuntu:latest

docker.io/library/ubuntu:latest

C:\Users\HP>docker run --name ubuntucontainer -it ubuntu

docker: Error response from daemon: Conflict. The container name "/ubuntucontainer" is already in use by container "88582b6adcdba18a8e18101db9f70fb5ad965eeab96265366003d3ece1679680". You have to remove (or rename) that container to be able to reuse that name.

See 'docker run --help'.

C:\Users\HP>docker run --name myubuntucontainer -it ubuntu -> change name of container root@d76f168ba409:/# Is

bin dev home lib32 libx32 mnt proc run srv tmp var

boot etc lib lib64 media opt root sbin sys usr root@d76f168ba409:/# cd tmp root@d76f168ba409:/tmp# touch abc.txt root@d76f168ba409:/tmp# touch xzy.txt root@d76f168ba409:/tmp# touch ab.txt root@d76f168ba409:/tmp# ls ab.txt abc.txt xzy.txt root@d76f168ba409:/tmp# exit exit

C:\Users\HP>docker start myubuntucontainer myubuntucontainer

C:\Users\HP>docker diff myubuntucontainer

C /root

A /root/.bash_history

C/tmp

A /tmp/ab.txt

A /tmp/abc.txt

A /tmp/xzy.txt

C:\Users\HP>docker images

REPOSITORY TAG IMAGE ID CREATED SIZE
abhishek latest 57ed24cb53c0 5 days ago 77.8MB
updateubuntuimage latest 57ed24cb53c0 5 days ago 77.8MB
abhilitcode/abhishek latest 57ed24cb53c0 5 days ago 77.8MB
abhilitcode latest 57ed24cb53c0 5 days ago 77.8MB
ubuntu latest 08d22c0ceb15 5 weeks ago 77.8MB

C:\Users\HP>docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

d76f168ba409 ubuntu "/bin/bash" 5 minutes ago Up About a minute myubuntucontainer

C:\Users\HP>docker stop myubuntucontainer myubuntucontainer

C:\Users\HP>docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

C:\Users\HP>docker start myubuntucontainer myubuntucontainer

C:\Users\HP>docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

d76f168ba409 ubuntu "/bin/bash" 10 minutes ago Up 10 seconds myubuntucontainer

C:\Users\HP>docker commit myubuntucontainer updateubuntuimage → change name of image sha256:5b9e1f59cbe7098e54b582dfa4ec9f1f3662947be57e432296ff13793b88c96b

C:\Users\HP>docker images

REPOSITORY SIZE TAG **IMAGE ID CREATED** updateubuntuimage latest 5b9e1f59cbe7 26 seconds ago 77.8MB abhilitcode latest 57ed24cb53c0 5 days ago 77.8MB abhishek latest 57ed24cb53c0 5 days ago 77.8MB abhilitcode/abhishek latest 57ed24cb53c0 5 days ago 77.8MB latest 08d22c0ceb15 5 weeks ago 77.8MB ubuntu

C:\Users\HP>docker tag abhishek:latest abhilitcode/abhishek:latest

Latest→ it is a tag so 1.0 dala toh bhi chlega

C:\Users\HP>docker push abhilitcode/abhishek:latest

The push refers to repository [docker.io/abhilitcode/abhishek]

f34a836a74be: Layer already exists

b93c1bd012ab: Layer already exists

latest: digest: sha256:243a1e4eb9918722fd0435092e95a1022658823446a62abd1611b36c8dd287af

size: 736