



DOCKER LAB-2

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SPECIALIZATION: BTECH DEVOPS B1(NON-HONS.).

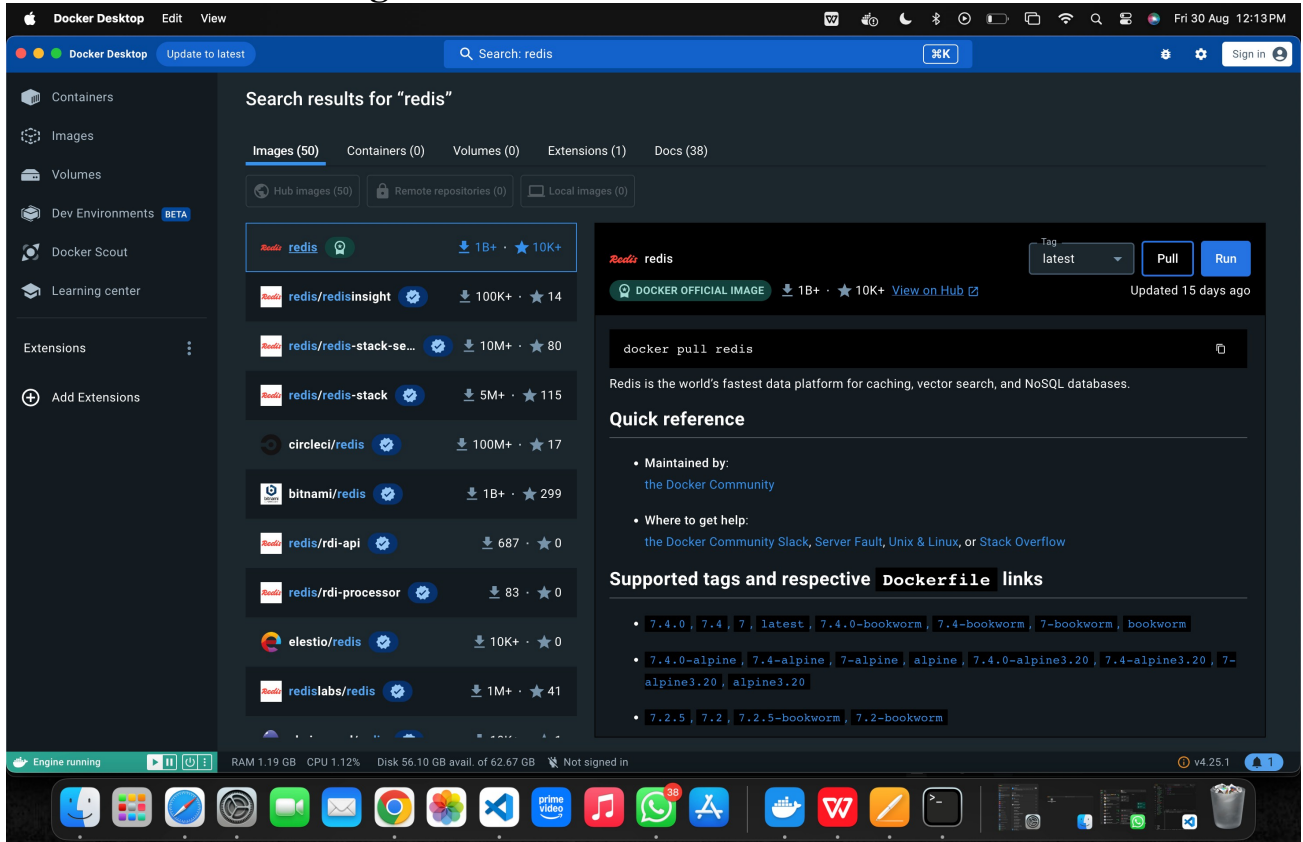
SUBMITTED TO:PROF(DR. HITESH KUMAR)

LAB2

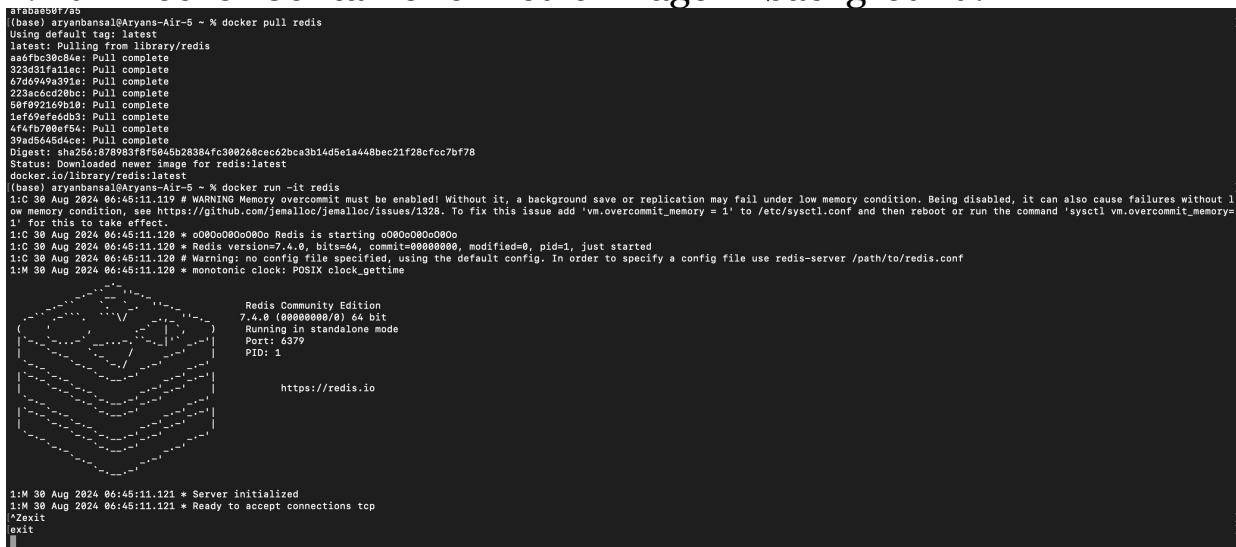
AIM: Working with Docker (Basic Commands)

Steps to Complete:

1. Search a Redis image on DockerHub



2. Run Docker Container of Redis Image in background.



3. Run Docker PS and Docker PS -a

```
((base) aryanbansal@Aryans-Air-5 ~ % docker ps -a
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS
8cd2af74f334   redis                               "docker-entrypoint.s..." 2 minutes ago  Up 2 minutes  6379/tcp
pensive_lederberg
0383a11a871a   ubuntu                             "/bin/bash"             7 minutes ago  Exited (0) 7 minutes ago
upbeat_kepler
dcb7776521fa   ubuntu:latest                     "/bin/bash"             13 minutes ago  Exited (0) 13 minutes ago
clever_sutherland
afabae50f7a5   ubuntu                             "/bin/bash"             20 minutes ago  Exited (0) 16 minutes ago
crazy_mclean
(base) aryanbansal@Aryans-Air-5 ~ %
```

```
((base) aryanbansal@Aryans-Air-5 ~ % docker ps -aq
0383a11a871a
dcb7776521fa
afabae50f7a5
(base) aryanbansal@Aryans-Air-5 ~ %
```

4. Run Docker Container and take its console

```
((base) aryanbansal@Aryans-MacBook-Air-6 ~ % docker run -it --name redis-server redis /bin/bash
[root@0f086fcb8ce7:/data# mkdir aryan
[root@0f086fcb8ce7:/data# cd aryan
[root@0f086fcb8ce7:/data/aryan# touch aryan.txt
[root@0f086fcb8ce7:/data/aryan# cd ..
[root@0f086fcb8ce7:/data# cd ..
[root@0f086fcb8ce7:/# exit
exit
(base) aryanbansal@Aryans-MacBook-Air-6 ~ %
```

5. Create a Docker Volume and connect it

```
Last login: Sun Sep  8 15:02:57 on ttys000
(base) arianbansal@Aryans-MacBook-Air-6 ~ % docker create volume myvol
Unable to find image 'volume:latest' locally
Error response from daemon: pull access denied for volume, repository does not exist or may require 'docker login': d
(base) arianbansal@Aryans-MacBook-Air-6 ~ % docker volume create myvol

myvol
(base) arianbansal@Aryans-MacBook-Air-6 ~ % docker ls
docker: 'ls' is not a docker command.
[See 'docker --help']
(base) arianbansal@Aryans-MacBook-Air-6 ~ % docker volume ls
DRIVER          VOLUME NAME
local           20f0e7d22860b5777a0a43eb6c3bc422cfc13a4ed46fd4bbe6ecfa1f7a0e2f8e
local           294fd0c72636f1a77f619ae52b796a7e680ed7e4f88be790522366fb21d5a3be
local           Aryan
local           myvol
(base) arianbansal@Aryans-MacBook-Air-6 ~ % docker run -d -v my_vol:/app/data --name my_container nginx

Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
92c3b3500be6: Pull complete
ee57511b3c68: Pull complete
33791ce134bf: Pull complete
cc4f24efc205: Pull complete
3cad04a21c99: Pull complete
486c5264d3ad: Pull complete
b3fd15a82525: Pull complete
Digest: sha256:04ba374043ccd2fc5c593885c0eacddebabd5ca375f9323666f28dfd5a9710e3
Status: Downloaded newer image for nginx:latest
34fd16c4d60fb6553bc09b6a8878990a898da1bc8647b3cc44dce05e68e1775e
(base) arianbansal@Aryans-MacBook-Air-6 ~ % docker volume inspect myvol

[
  {
    "CreatedAt": "2024-09-08T09:40:09Z",
    "Driver": "local",
    "Labels": null,
    "Mountpoint": "/var/lib/docker/volumes/myvol/_data",
    "Name": "myvol",
    "Options": null,
    "Scope": "local"
  }
]
(base) arianbansal@Aryans-MacBook-Air-6 ~ % docker volume rm myvol

myvol
(base) arianbansal@Aryans-MacBook-Air-6 ~ % █
```