

EXPERIMENT 2

Name – Sujal Bhandari

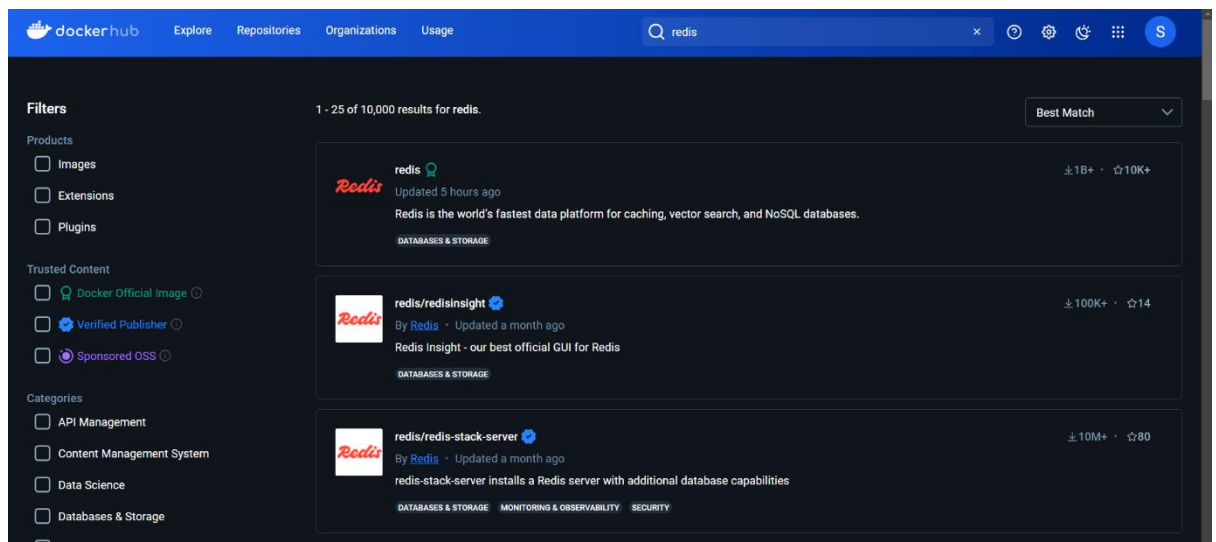
SAP_ID – 500106865

Roll_No – R2142220181

AIM: Working with Docker (Basic Commands)

Steps to Complete:

1. Search a Redis image on Docker Hub



2. Run Docker Container of Redis Image in background

```
Microsoft Windows [Version 10.0.22631.4112]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sujal>docker pull redis
Using default tag: latest
latest: Pulling from library/redis
a2318d6c47ec: Already exists
ed7fd66f27f2: Pull complete
410a3d5b3155: Pull complete
9312cf3f6b3e: Pull complete
c39877ab23d0: Pull complete
01394ffc7248: Pull complete
4f4fb700ef54: Pull complete
5a03cb6163ab: Pull complete
Digest: sha256:eadf354977d428e347d93046bb1a5569d701e8deb68f090215534a99dbcb23b9
Status: Downloaded newer image for redis:latest
docker.io/library/redis:latest

C:\Users\sujal>|
```

```
C:\Users\sujal>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
nginx         latest    39286ab8a5e1   3 weeks ago    188MB
ubuntu        latest    edbfe74c41f8   5 weeks ago    78.1MB
redis         latest    590b81f2fea1   5 weeks ago    117MB

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C:\Users\sujal>docker run redis
1:C 06 Sep 2024 06:27:30.163 * o000o000o000o Redis is starting o000o000o000o
1:C 06 Sep 2024 06:27:30.163 * Redis version=7.4.0, bits=64, commit=00000000, modified=0, pid=1, just started
1:C 06 Sep 2024 06:27:30.163 # Warning: no config file specified, using the default config. In order to specify a config
file use redis-server /path/to/redis.conf
1:M 06 Sep 2024 06:27:30.163 * monotonic clock: POSIX clock_gettime
1:M 06 Sep 2024 06:27:30.164 * Running mode=standalone, port=6379.
1:M 06 Sep 2024 06:27:30.164 * Server initialized
1:M 06 Sep 2024 06:27:30.164 * Ready to accept connections tcp
|
```

3. Run Docker PS and Docker PS -a

```
C:\Users\sujal>docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS        NAMES
cae3cd3fba7c   redis    "docker-entrypoint.s..." 5 minutes ago  Up 5 minutes  6379/tcp     suspicious_wozniak

C:\Users\sujal>docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS        NAMES
cae3cd3fba7c   redis    "docker-entrypoint.s..." 5 minutes ago  Up 5 minutes  6379/tcp     suspicious_wozniak
8538536bc763   redis    "docker-entrypoint.s..." 8 minutes ago  Exited (0) 6 minutes ago                                magical_hawking

C:\Users\sujal>|
```

4. Run Docker Container and take its console

```
C:\Users\sujal>docker exec -it cae sh
# redis-cli
127.0.0.1:6379> ping
PONG
127.0.0.1:6379> exit
# exit

C:\Users\sujal>|
```

5. Create a Docker Volume and connect it

```
C:\Users\sujal>docker volume create new_vol
new_vol

C:\Users\sujal>docker volume ls
DRIVER      VOLUME NAME
local       3ca22a6712ce53eb5b9077dfec765f68665cad6cec5e9a26a2e5e5b3356c84a7
local       533f4746350c27488a5f730d3fcb33c43a522d37f050ce82958468bfdffb98c2
local       new_vol

C:\Users\sujal>
```

```
C:\Users\sujal>docker run -d --name my_redis -v new_vol:/data redis:latest
bd9a8e79cdc12fb0439177368c631cc661fece3232421aa404603ee3c22764f2

C:\Users\sujal>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS          NAMES
bd9a8e79cdc1   redis:latest "docker-entrypoint.s..." 11 seconds ago Up 11 seconds 6379/tcp       my_redis
cae3cd3fba7c   redis     "docker-entrypoint.s..." 12 minutes ago Up 12 minutes 6379/tcp       suspicious_wozniak
8538536bc763   redis     "docker-entrypoint.s..." 14 minutes ago Exited (0) 12 minutes ago magical_hawking

C:\Users\sujal>
```