EPERIMENT 2

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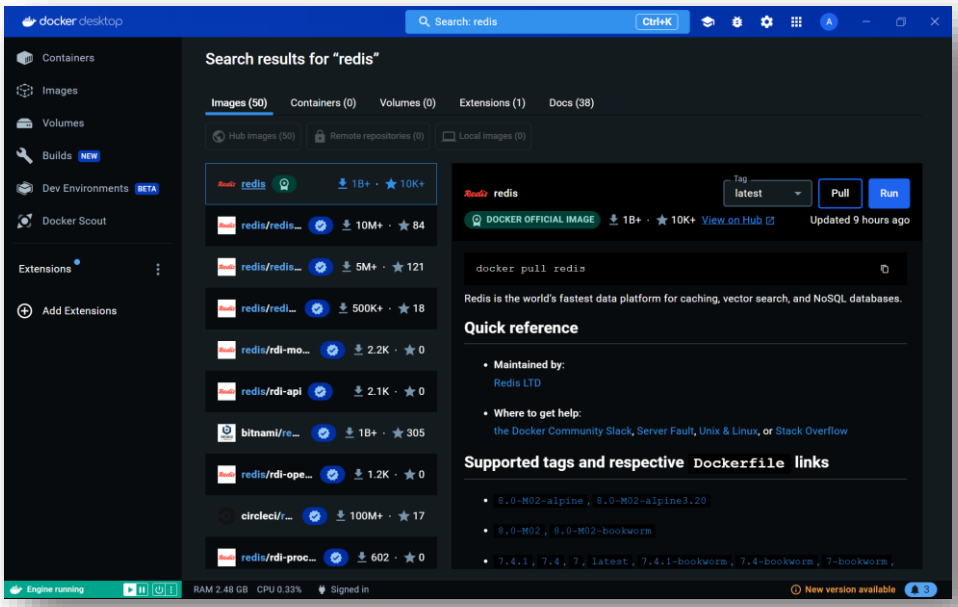
Aim : Working with Docker — Basic Commands

1. Finding a Redis Image on Docker Hub:



2. **Pulling redis image on local machine to use it offline**

   docker pull redis

- this command will pull the redis image from docker hub.

```
C:\Users\AARUSHI\Desktop\Sem-5\LABS\Container and Docker Security\docker>docker pull redis
Using default tag: latest
latest: Pulling from library/redis
Digest: sha256:a06cea905344470eb49c972f3d030e22f28f632c1b4f43bbe4a26a4329dd6be5
Status: Image is up to date for redis:latest
docker.io/library/redis:latest

What's Next?
  View a summary of image vulnerabilities and recommendations → docker scout quickview redis
```

3. Run Docker Container of Redis Image in background.

- Command - *docker run -d –name*

```
C:\Users\AARUSHI\Desktop\Sem-5\LABS\Container and Docker Security\docker>docker run -d --name Aarushi_redis redis
1800e4710ff324e4e45b9573ab2b0b140a4a512ecfd192212c96b81ef63ac3c1

C:\Users\AARUSHI\Desktop\Sem-5\LABS\Container and Docker Security\docker>
```

4. Run Docker PS and Docker PS –a

- Use of *docker ps* is to provide a list of Docker containers on the machine. docker ps shows only running containers by default.
- To view all containers *-a* flag is used with docker ps.

```
C:\Users\AARUSHI\Desktop\Sem-5\LABS\Container and Docker Security\docker>docker ps -a
CONTAINER ID   IMAGE                          COMMAND                  CREATED       STATUS                   PORTS
NAMES
1800e4710ff3   redis                          "docker-entrypoint.s…"   4 days ago    Up 4 days                6379/tcp
Aarushi_redis
981e29a140ef   netflix_movie_catalog:0.0.1    "python3 app.py"         6 weeks ago   Exited (0) 6 weeks ago
NetflixMovieCatalog

C:\Users\AARUSHI\Desktop\Sem-5\LABS\Container and Docker Security\docker>docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED      STATUS      PORTS      NAMES
1800e4710ff3   redis     "docker-entrypoint.s…"   4 days ago   Up 4 days   6379/tcp   Aarushi_redis
```

5. Run Docker Container and take its console

- To view running docker containers – use *docker ps*
- To take its console i.e. enter inside container use *docker exec –it <container_name/ID> /bin/bash*

```
C:\Users\AARUSHI\Desktop\Sem-5\LABS\Container and Docker Security\docker>docker exec -it Aarushi_redis /bin/bash
root@1800e4710ff3:/data# touch hello.txt
root@1800e4710ff3:/data# ls
hello.txt
```

- To exit the console use command – *exit*

```
C:\Users\AARUSHI\Desktop\Sem-5\LABS\Container and Docker Security\docker>docker exec -it Aarushi_redis /bin/bash
root@1800e4710ff3:/data# touch hello.txt
root@1800e4710ff3:/data# ls
hello.txt
root@1800e4710ff3:/data# exit
exit

C:\Users\AARUSHI\Desktop\Sem-5\LABS\Container and Docker Security\docker>
```

6. Create a Docker Volume and connect it

- To create volume use – *docker volume create <volume_name>*

```
C:\Users\AARUSHI\Desktop\Sem-5\LABS\Container and Docker Security\docker>docker volume create my_vol
my_vol

C:\Users\AARUSHI\Desktop\Sem-5\LABS\Container and Docker Security\docker>
```