

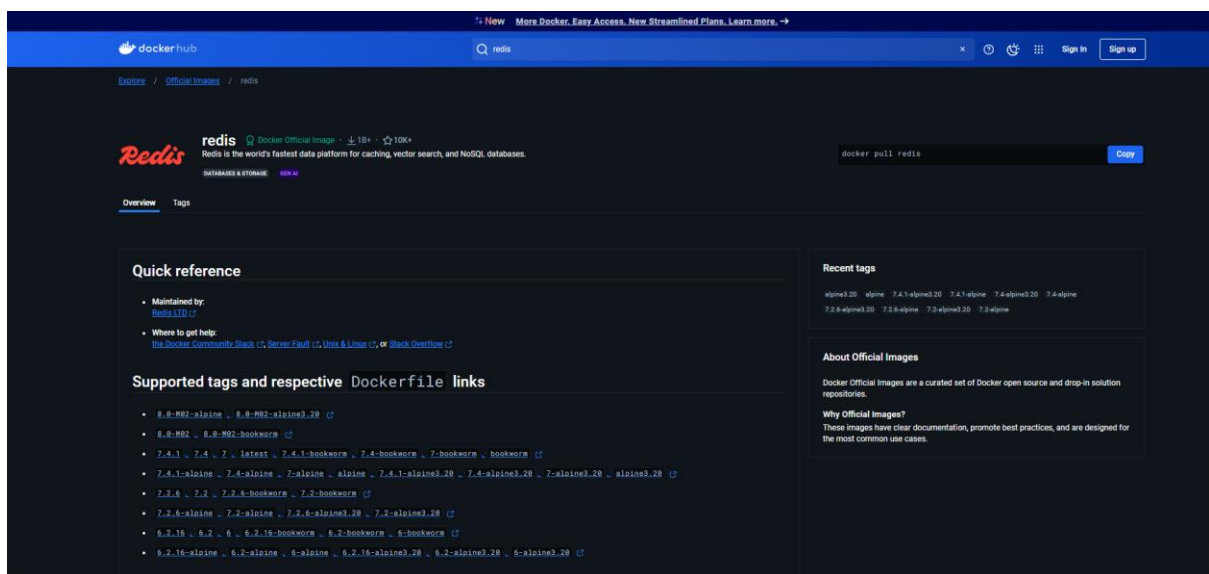
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EXPERIMENT – 2

Introduction to Docker

Aim: Working with Docker — Basic Commands

Step 1: Finding a Redis Image on Docker Hub



Step 2 : Pulling redis image on local machine to use it offline

docker pull redis

This command will pull the redis image from docker hub

```
HP_15@LAPTOP-PL8DJA30 MINGW64 ~/Desktop/Sem5/Docker
$ docker pull redis
Using default tag: latest
latest: Pulling from library/redis
2d429b9e73a6: Pull complete
92ef1eccbb9f: Pull complete
5e00ad97561c: Pull complete
8f865c3d417c: Pull complete
74c736b00471: Pull complete
928f5dbb5007: Pull complete
4f4fb700ef54: Pull complete
6fd0c1bf3b91: Pull complete
Digest: sha256:af0be38eb8e43191bae9b03fe5c928803930b6f93e2dde3a7ad1165c04b1ce22
Status: Downloaded newer image for redis:latest
docker.io/library/redis:latest

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

Step 3: Run Docker Container of Redis Image in background

docker run -d --name

```
HP_15@LAPTOP-PL8DJA30 MINGW64 ~/Desktop/Sem5/Docker
$ docker run -d --name Akshit_redis redis
46c957b0d43c5e9ba67fc9239b841d054270a3b9b609c65e720879a5379ca069
```

Step 4: Run Docker PS and Docker PS -a

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.

```

HP 15@LAPTOP-PL8DJA30 MINGW64 ~/Desktop/Sem5/Docker
$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS
PORTS         NAMES
46c957b0d43c   redis     "docker-entrypoint.s..." 42 seconds ago Up 41 seconds
6379/tcp      Akshit_redis

HP 15@LAPTOP-PL8DJA30 MINGW64 ~/Desktop/Sem5/Docker
$ docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS
PORTS         NAMES
46c957b0d43c   redis     "docker-entrypoint.s..." 3 minutes ago Up 3 minutes
6379/tcp      Akshit_redis
713262d3d545   ubuntu    "/bin/bash"             2 months ago  Exited (255) 9
minutes ago   elastic_dijkstra

```

Step 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\HP 15>docker exec -it Akshit_redis /bin/bash
root@46c957b0d43c:/data# ls -a
.  ..
root@46c957b0d43c:/data# _

```

Step 5: Exit console

```

root@46c957b0d43c:/data# exit
exit
C:\Users\HP 15>

```

Step 6: Stop container

```

HP 15@LAPTOP-PL8DJA30 MINGW64 ~/Desktop/Sem5/Docker
$ docker stop Akshit_redis
Akshit_redis

HP 15@LAPTOP-PL8DJA30 MINGW64 ~/Desktop/Sem5/Docker
$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
HP 15@LAPTOP-PL8DJA30 MINGW64 ~/Desktop/Sem5/Docker
$ |

```

Step 7: Delete container

```

HP 15@LAPTOP-PL8DJA30 MINGW64 ~/Desktop/Sem5/Docker
$ docker rm Akshit_redis
Akshit_redis

HP 15@LAPTOP-PL8DJA30 MINGW64 ~/Desktop/Sem5/Docker
$ docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
713262d3d545   ubuntu    "/bin/bash"            2 months ago   Exited (255) 19 minutes ago
o              elastic_dijkstra

```