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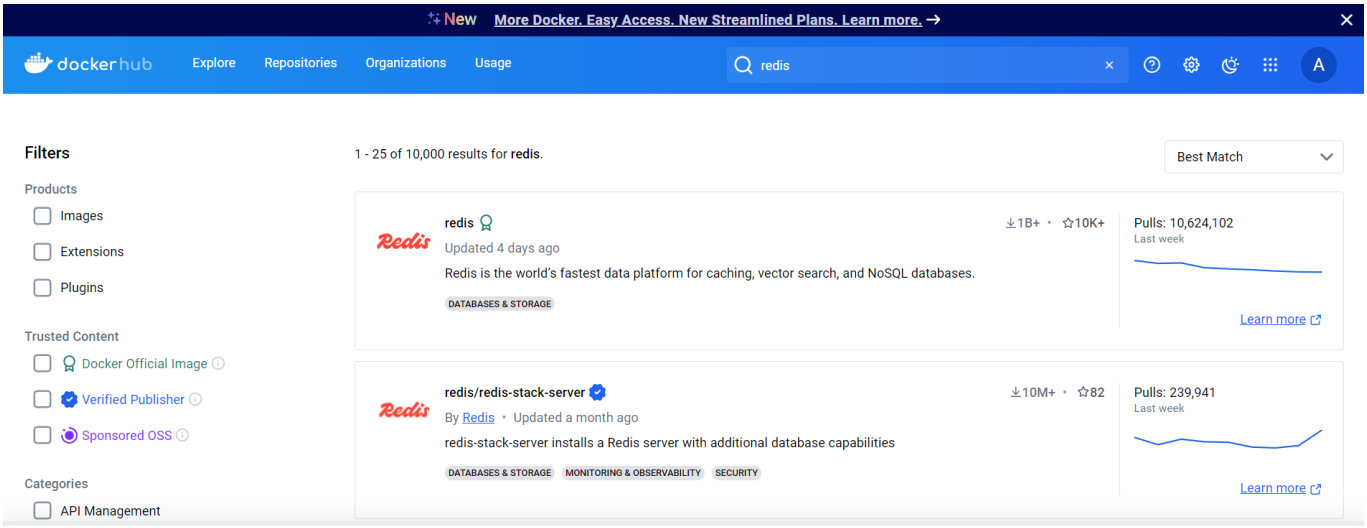
EXPERIMENT – 2

Working with Docker: basic commands

1. Search a Redis image on DockerHub

Login to DockerHub and search Redis



Pull the docker image with the default tag 'latest'

```
PS D:\Academics\Docker> 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

What's Next?
  View a summary of image vulnerabilities and recommendations → docker scout quickview redis
PS D:\Academics\Docker>
```

2. Run Docker Container of Redis Image in background

Command - *docker run -d --name <name> <image name>*

```
PS D:\Academics\Docker> docker run -d --name Anshika_redis redis
53cfc1e01d1ff6ee73b9171f6f31132789dae93f24bbf78abae74d64c0f4073c
PS D:\Academics\Docker>
```

3. 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*.

```
PS D:\Academics\Docker> docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED         STATUS         PORTS      NAMES
53cfc1e01d1f   redis     "docker-entrypoint.s…"   4 minutes ago   Up 4 minutes   6379/tcp   Anshika_redis
PS D:\Academics\Docker> docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED         STATUS         PORTS      NAMES
53cfc1e01d1f   redis     "docker-entrypoint.s…"   4 minutes ago   Up 4 minutes   6379/tcp   Anshika_redis
PS D:\Academics\Docker>
```

4. 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 id> /bin/bash

```
PS D:\Academics\Docker> docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED         STATUS         PORTS      NAMES
53cfc1e01d1f   redis     "docker-entrypoint.s…"   4 minutes ago   Up 4 minutes   6379/tcp   Anshika_redis
PS D:\Academics\Docker> docker exec -it 53cfc /bin/bash
root@53cfc1e01d1f:/data#
```

```
PS D:\Academics\Docker> docker exec -it 53cfc /bin/bash
root@53cfc1e01d1f:/data# mkdir anshika
root@53cfc1e01d1f:/data# ls
anshika
root@53cfc1e01d1f:/data#
```

To exit the console use command - *exit*

5. Create a Docker Volume and connect it

To create volume use – *docker volume create <volume name>*

```
PS D:\Academics\Docker> docker volume create my_vol
my_vol
PS D:\Academics\Docker>
```

docker run -d --name <custom name> -v <volume name>:<container path>

-d runs the container in the background

```
PS D:\Academics\Docker> docker run -d --name vol2 -v my_vol:/data/anshika redis
43bbadd1388968611afe2caffa3049a2f07471127bf00dc9b77c97d92ff97160
PS D:\Academics\Docker>
```