

## EXPERIMENT 2

### AIM: Working with Docker (Basic Commands)

#### Steps to Complete:

1. Search a Redis image on DockerHub

```
C:\Users\an626>docker search redis
```

| NAME                     | DESCRIPTION                                     | STARS | OFFICIAL | AUTOMATED |
|--------------------------|---|-------|----------|-----------|
| redis                    | Redis is the world's fastest data platform f... | 12987 | [OK]     |           |
| redis/redisinsight       | Redis Insight - our best official GUI for Re... | 14    |          |           |
| redis/redis-stack-server | redis-stack-server installs a Redis server w... | 80    |          |           |
| redis/redis-stack        | redis-stack installs a Redis server with add... | 115   |          |           |
| redis/rdi-monitor        |   | 0     |          |           |
| redis/rdi-processor      |   | 0     |          |           |
| redis/rdi-api            |   | 0     |          |           |

2. Run Docker Container of Redis Image in background

```
C:\Users\an626>docker pull redis
Using default tag: latest
latest: Pulling from library/redis
e4fff0779e6d: Pull complete
d1dde3db2ec5: Pull complete
1d321a003dde: Pull complete
d65aadb2f012: Pull complete
4018f93716a2: Pull complete
b0967b02e8cf: Pull complete
4f4fb700ef54: Pull complete
d288b86f5d06: Pull complete
Digest: sha256:878983f8f5045b28384fc300268cec62bca3b14d5e1a448bec21f28cfcc7bf78
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
```

```
C:\Users\an626>docker run --name my-redis-container -d redis
d40bf8fa112e8b0717893de217a49c38ef1a667fac68e647b8b2aa1d5f0b0566
```

3. Run Docker PS and Docker PS -a

```
C:\Users\an626>docker ps
```

| CONTAINER ID | IMAGE | COMMAND                  | CREATED        | STATUS        | PORTS    | NAMES              |
|--------------|-------|--------------------------|----------------|---------------|----------|--------------------|
| d40bf8fa112e | redis | "docker-entrypoint.s..." | 54 seconds ago | Up 53 seconds | 6379/tcp | my-redis-container |

```
C:\Users\an626>docker ps -a
```

| CONTAINER ID | IMAGE | COMMAND                  | CREATED            | STATUS            | PORTS    | NAMES              |
|--------------|-------|--------------------------|--------------------|-------------------|----------|--------------------|
| d40bf8fa112e | redis | "docker-entrypoint.s..." | About a minute ago | Up About a minute | 6379/tcp | my-redis-container |

4. Run Docker Container and take its console

```
C:\Users\an626>docker exec -it d40bf8fa112e /bin/bash
root@d40bf8fa112e:/data# |
```