

Experiment 2

AIM: Working with Docker (Basic Commands)

1. Search a Redis image on DockerHub

Command used :- `docker search redis`

```
C:\Users\Mayank Verma>docker search redis
```

NAME	DESCRIPTION	STARS	OFFICIAL	AUTOMATED
redis	Redis is an open source key-value store that...	11234	[OK]	
bitnami/redis	Bitnami Redis Docker Image	228		[OK]
bitnami/redis-sentinel	Bitnami Docker Image for Redis Sentinel	39		[OK]
bitnami/redis-cluster		34		
rapidfort/redis	RapidFort optimized, hardened image for Redi...	15		
rapidfort/redis-cluster	RapidFort optimized, hardened image for Redi...	15		
circleci/redis	CircleCI images for Redis	14		[OK]
redis/redis-stack	redis-stack installs a Redis server with add...	11		
ubuntu/redis	Redis, an open source key-value store. Long...	10		
bitnami/redis-exporter		9		
redis/redis-stack-server	redis-stack-server installs a Redis server w...	8		
clearlinux/redis	Redis key-value data structure server with t...	4		
ibmcom/redis-ha		1		
bitnami/redis-sentinel-exporter		1		
ibmcom/ibm-cloud-databases-redis-operator	Container image for the IBM Operator for Red...	1		
vmware/redis-photon		0		
greenbone/redis-server	A redis service container image for the Gree...	0		
cimg/redis		0		
rancher/redislabs-ssl		0		
ibmcom/redis-ppc64le		0		
drud/redis	redis	0		[OK]
corpusops/redis	https://github.com/corpusops/docker-images/	0		
blackflysolutions/redis	Redis container for Drupal and CiviCRM	0		
ibmcom/redisearch-ppc64le		0		
rapidfort/redis6-ib	RapidFort optimized, hardened image for Redi...	0		

2. Run Docker Container of Redis Image in background

Command used :- `docker run -d redis`

```
C:\Users\Mayank Verma>docker run -d redis
Unable to find image 'redis:latest' locally
latest: Pulling from library/redis
1efc276f4ff9: Pull complete
adf5288e41ff: Pull complete
2f387b0b685f: Pull complete
1b3d2bd4ccba: Pull complete
937c39fc1973: Pull complete
751dcbc45baa: Pull complete
Digest: sha256:9bc34afe08ca30ef179404318cdebe6430ceda35a4ebe4b67d10789b17bdf7c4
Status: Downloaded newer image for redis:latest
50f728a80d4474f1b4e128f274d59e65e5c46bf42df5fa6c522a439efa0cece0

C:\Users\Mayank Verma>
```

3. Run Docker PS and Docker PS -a

Command used :- docker ps -a

```
C:\Users\Mayank Verma>docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS          NAMES
50f728a80d44   redis         "docker-entrypoint.s..." 50 seconds ago Up 49 seconds 6379/tcp       nervous_cartwright
135349e02b3e   docker/getting-started "/docker-entrypoint..." 4 months ago   Exited (0) 8 weeks ago          fervent_wing
C:\Users\Mayank Verma>
```

4. Run Docker Container and take its console

Command used :- docker run -it redis /bin/bash

```
C:\Users\Mayank Verma>docker run -it redis /bin/bash
root@64ec63ce75ee:/data# ls
root@64ec63ce75ee:/data# mkdir vol2
root@64ec63ce75ee:/data# ls
vol2
root@64ec63ce75ee:/data# exit
exit
C:\Users\Mayank Verma>
```

5. Create a Docker Volume and connect it

Command used :- docker run -it -v myvol:/data redis /bin/bash

```
C:\Users\Mayank Verma>docker run -it -v myvol:/data redis /bin/bash
root@311f83bf8b31:/data# ls
root@311f83bf8b31:/data# mkdir vol5
root@311f83bf8b31:/data# ls
vol5
root@311f83bf8b31:/data# exit
exit

C:\Users\Mayank Verma>docker run -it -v myvol:/data redis /bin/bash
root@09ecdab08dbe:/data# ls
vol5
root@09ecdab08dbe:/data#
```

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