EXPERIMENT 2

AIM: Working with Docker (Basic Commands)

Steps to Complete:

1. Search a Redis image on DockerHub: docker search redis

```
Last login: Wed Aug 10 10:16:02 on ttys002
You have new mail.

anuvagarg@Anuvas-MacBook-Air ~ % docker --version
Docker version 20.10.12, build e91ed57
anuvagarg@Anuvas-MacBook-Air ~ % docker ps
Cannot connect to the Docker daemon at unix:///var/run/docker.sock. Is the docker daemon running?
anuvagarg@Anuvas-MacBook-Air ~ % docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
anuvagarg@Anuvas-MacBook-Air ~ % docker pull redis
Using default tag: latest
latest: Pulling from library/redis
lefc276f4ff9: Pull complete
adf5288e41ff: 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 docker.io/library/redis:latest
 DESCRIPTION
                                                                                                                                                                                                                          AUTOMATED
                                                                                                                                                                                                    OFFICIAL
                                                                                     Redis is an open source key-value store that...
bitnami/redis
bitnami/redis-sentinel
bitnami/redis-cluster
                                                                                    Bitnami Redis Docker Image
Bitnami Docker Image for Redis Sentinel
 rapidfort/redis
rapidfort/redis-cluster
                                                                                    RapidFort optimized, hardened image for Redi...
RapidFort optimized, hardened image for Redi...
CircleCI images for Redis
                                                                                    Redis, an open source key-value store. Long-... redis-stack installs a Redis server with add...
 ubuntu/redis
redis/redis-stack
 bitnami/redis-exporter
                                                                                    redis-stack-server installs a Redis server w... Redis key-value data structure server with t...
 redis/redis-stack-server
clearlinux/redis
ibmcom/redis-ha
bitnami/redis-sentinel-exporter
 bmcom/ibm-cloud-databases-redis-operator
                                                                                    Container image for the IBM Operator for Red...
vmware/redis-photon
greenbone/redis-server
                                                                                     A redis service container image for the Gree...
  img/redis
 rancher/redislabs-ssl
ibmcom/redis-ppc64le
 drud/redis
corpusops/redis
                                                                                                                                                                                                                          [0K]
                                                                                    https://github.com/corpusops/docker-images/
Redis container for Drupal and CiviCRM
 ibmcom/redisearch-ppc64le
rapidfort/redis6-ib
                                                                                     RapidFort optimized, hardened image for Redi...
   nuvagarg@Anuvas-MacBook-Air ~ % _
```

2. Run Docker Container of Redis Image in background:

docker run -d redis

anuvagarg@Anuvas-MacBook-Air ~ % docker run -d redis 62e4ca5bc58cef7d993eba86887aef912220d5ac4de77c6fa7bf3d8b1e52398a

3. Run docker ps and docker ps -a

4. Run Docker Container and take its console

docker run -it redis /bin/bash

```
[anuvagarg@Anuvas-MacBook-Air ~ % docker run -it redis /bin/bash
[root@495a9c9e7f63:/data# exit
exit
```

Create a Docker Volume and connect it

Before attaching volume to the container:

```
[anuvagarg@Anuvas-MacBook-Air ~ % docker run -it redis /bin/bash
[root@cbebffbf6ded:/data# ls
[root@cbebffbf6ded:/data# mkdir test
[root@cbebffbf6ded:/data# ls
test
[root@cbebffbf6ded:/data# exit
exit
[anuvagarg@Anuvas-MacBook-Air ~ % docker run -it redis /bin/bash
[root@be8085a6df67:/data# ls
[root@be8085a6df67:/data# exit
exit
```

docker inspect [container_id]

After attaching volume to the container:

docker run -d -v mydata:/data redis

```
[anuvagarg@Anuvas-MacBook-Air ~ % docker run -it -v myvol:/data redis /bin/bash
[root@867273995c82:/data# ls
[root@867273995c82:/data# mkdir test
[root@867273995c82:/data# ls
test
[root@867273995c82:/data# exit
exit
[anuvagarg@Anuvas-MacBook-Air ~ % docker run -it -v myvol:/data redis /bin/bash
[root@5d27039e8a54:/data# ls
test
[root@5d27039e8a54:/data# exit
exit
```