

EXPERIMENT 2

AIM: Working with Docker (Basic Commands)

Steps to Complete:

1. Search a Redis image on DockerHub

```
Microsoft Windows [Version 10.0.22631.4037]
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C:\Users\suraj>docker search redis
NAME                DESCRIPTION                STARS     OFFICIAL
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
circleci/redis      CircleCI images for Redis  17
redis/rdi-api        0
redis/rdi-processor  0
bitnami/redis        Bitnami container image for Redis                300
chainguard/redis     Minimalist Wolfi-based Redis image.             1
elestio/redis        Redis, verified and packaged by Elestio           0
redislabs/redis      Clustered in-memory database engine compatib... 41
redis/rdi-cli         0
redis/rdi-operator   0
redis/rdi-collector-initializer Init container for RDI Collector                  0
rapidfort/redis      RapidFort optimized, hardened image for Redi... 21
ubuntu/redis         Redis, an open source key-value store. Long-... 22
drud/redis            redis                                              0
metabrainz/redis     MetaBrainz redis cluster                        0
cimg/redis           2
bitnamicharts/redis  Redis is an open source key-value store that... 1
jumpserver/redis     Redis with redis raft module                     0
redislabs/ng-redis-raft apigee-redis                                     1
google/apigee-redis  Redis University 101                             0
redislabs/ru101-lab  0

C:\Users\suraj>
```

2. Run Docker Container of Redis Image in background

```
C:\Users\suraj>docker run --name my-redis-container -d redis
cf044bbe74969ec8af4472cb16b52834f8c70976bb6dcf56857c4e2d4f8a2608

C:\Users\suraj>
```

3. Run Docker PS and Docker PS -a

```
C:\Users\suraj>docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS        NAMES
cf044bbe7496   redis    "docker-entrypoint.s..." 46 seconds ago Up 45 seconds 6379/tcp     my-redis-container
1ae9bdeffdb6   redis:latest "docker-entrypoint.s..." 8 minutes ago  Up 8 minutes 6379/tcp     busy_archimedes

C:\Users\suraj>docker ps -a
docker: 'ps-a' is not a docker command.
See 'docker --help'

C:\Users\suraj>docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS        NAMES
cf044bbe7496   redis    "docker-entrypoint.s..." 59 seconds ago Up 58 seconds 6379/tcp     my-redis-container
1ae9bdeffdb6   redis:latest "docker-entrypoint.s..." 8 minutes ago  Up 8 minutes 6379/tcp     busy_archimedes

C:\Users\suraj>
```

4. Run Docker Container and take its console

```
C:\Users\suraj>docker exec -it cf044bbe7496 /bin/bash
root@cf044bbe7496:/data# |
```

5. Create a Docker Volume and connect it