EXPERIMENT 2

AIM: Working with Docker (Basic Commands)

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Batch: 2(DevOps)

Steps to Complete:

1. Search a Redis image on DockerHub

```
Last login: Fri Nov 29 11:10:58 on ttys000
adityatomar@Adityas-MacBook-Air-3 ~ % docker search Redis
NAME                             DESCRIPTION                              STARS
OFFICIAL
redis                            Redis is the world's fastest data platform f…   13095
[OK]
redis/redis-stack-server         redis-stack-server installs a Redis server w…   85
redis/redis-stack                redis-stack installs a Redis server with add…   126
redis/redisinsight               Redis Insight – our best official GUI for Re…   20
redis/rdi-monitor                                                         0
redis/rdi-api                                                             0
redis/rdi-operator                                                       0
bitnami/redis                    Bitnami container image for Redis        306
redis/rdi-collector-initializer   Init container for RDI Collector        0
redis/rdi-cli                                                             0
redis/rdi-processor                                                      1
redis/rdi-collector-api                                                  0
circleci/redis                   CircleCI images for Redis                17
redislabs/redis                  Clustered in-memory database engine compatib…   44
bitnamicharts/redis              Bitnami Helm chart for Redis(R)          2
cimg/redis                                                               2
ubuntu/redis                     Redis, an open source key-value store. Long-…   22
rapidfort/redis                  RapidFort optimized, hardened image for Redi…   21
elestio/redis                    Redis, verified and packaged by Elestio  1
```

2. Run Docker Container of Redis Image in background

```
adityatomar@Adityas-MacBook-Air-3 ~ % docker run redis
Unable to find image 'redis:latest' locally
latest: Pulling from library/redis
91005b864cf3: Download complete
42e2c6a8294c: Download complete
d1a9ceb647f2: Download complete
4f4fb700ef54: Download complete
3e63f8d9d933: Download complete
569f52e2a0e1: Download complete
c57574f962a9: Download complete
6d29a096dd42: Download complete
Digest: sha256:af0be38eb8e43191bae9b03fe5c928803930b6f93e2dde3a7ad1165c04b1ce22
Status: Downloaded newer image for redis:latest
1:C 29 Nov 2024 07:27:26.845 * oO0Oo00OoO0Oo Redis is starting oO0OoO0OoO0Oo
1:C 29 Nov 2024 07:27:26.845 * Redis version=7.4.1, bits=64, commit=00000000, modified=0, pi
d=1, just started
1:C 29 Nov 2024 07:27:26.845 # Warning: no config file specified, using the default config.
In order to specify a config file use redis-server /path/to/redis.conf
1:M 29 Nov 2024 07:27:26.846 * monotonic clock: POSIX clock_gettime
1:M 29 Nov 2024 07:27:26.847 * Running mode=standalone, port=6379.
1:M 29 Nov 2024 07:27:26.847 * Server initialized
1:M 29 Nov 2024 07:27:26.847 * Ready to accept connections tcp
```

3. Run Docker PS and Docker PS –a

```
[adityatomar@Adityas-MacBook-Air-3 ~ % docker ps
CONTAINER ID   IMAGE     COMMAND                CREATED         STATUS         PORTS
NAMES
1afa838ca6ba   redis     "docker-entrypoint.s…"  2 minutes ago   Up 2 minutes   6379/tcp
serene_banzai
[adityatomar@Adityas-MacBook-Air-3 ~ % docker ps -a
CONTAINER ID   IMAGE     COMMAND                CREATED         STATUS         PORTS
NAMES
1afa838ca6ba   redis     "docker-entrypoint.s…"  2 minutes ago   Up 2 minutes   6379/tcp
serene_banzai
```

4. Run Docker Container and take its console

```
adityatomar@Adityas-MacBook-Air-3 ~ % docker exec -it 1afa838ca6ba3764c18ea377df8d4eff363631
4fbcdb55efa566a07aabf0ed87 /bin/bash
root@1afa838ca6ba:/data# exit
exit

What's next:
    Try Docker Debug for seamless, persistent debugging tools in any container or image → do
cker debug 1afa838ca6ba3764c18ea377df8d4eff3636314fbcdb55efa566a07aabf0ed87
    Learn more at https://docs.docker.com/go/debug-cli/
adityatomar@Adityas-MacBook-Air-3 ~ % ▉
```