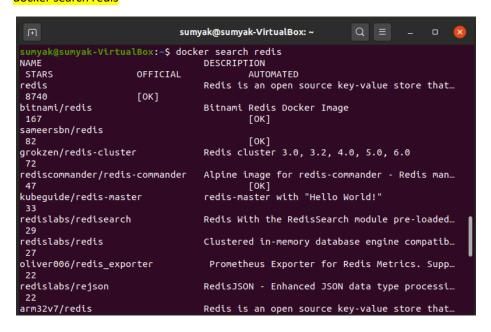
DEPLOYING YOUR FIRST DOCKER CONTAINER

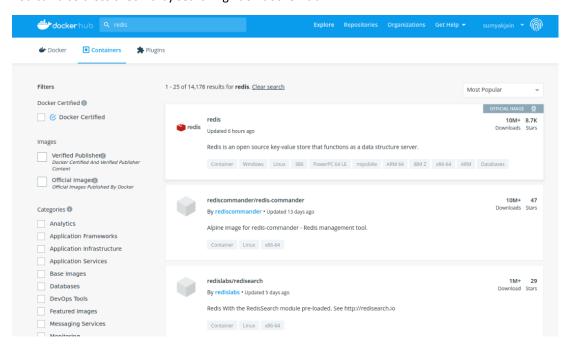
Sumyak Jain, 500068360, R171218106

STEP 1) search for the docker image "redis"

docker search redis



You can also cross check it by searching it on dockerhub



STEP 2) pull the image

docker pull redis

```
sumyak@sumyak-VirtualBox: ~
                                                                              Q =
REPOSITORY
                                                    IMAGE ID
                          TAG
                                                                              CREATED
SIZE
<sup>(</sup>ubuntu
                          latest
                                                    d70eaf7277ea
                                                                              2 weeks ago
72.9MB
 sumyak@sumyak-VirtualBox:~$ docker pull redis
Using default tag: latest
latest: Pulling from library/redis
bb79b6b2107f: Pull complete
1ed3521a5dcb: Pull complete
5999b99cee8f: Pull complete
dd17877d8f2d: Pull complete
4863b56b12a8: Pull complete
069e700bc397: Pull complete
Digest: sha256:a0494b60a0bc6de161d26dc2d2f9d2f1c5435e86a9e5d48862a161131affa6bd
Status: Downloaded newer image for redis:latest
docker.io/library/redis:latest
```

STEP 3) start the container using

docker run -d redis

this command automatically pull the image and start the container

```
sumyak@sumyak-VirtualBox:~$ docker run -d redis
0f9e420ad2d8f885df5a8057b147fef391db76bac7f3b217ae67d6600f6bfbd9
```

Check for containers status using

docker ps

```
sumyak@sumyak-VirtualBox:~$ docker ps
CONTAINER ID IMAGE COMMAND CREATED
STATUS PORTS NAMES
Of9e420ad2d8 redis "docker-entrypoint.s..." About a minute
ago Up About a minute 63<u>7</u>9/tcp romantic_wilbur
```

Or

docker ps -a

```
sumyak@sumyak-VirtualBox:~$ docker ps -a
CONTAINER ID
                     IMAGE
                                          COMMAND
                                                                    CREATED
     STATUS
                                 PORTS
                                                      NAMES
0f9e420ad2d8
                     redis
                                          "docker-entrypoint.s..."
                                                                     5 minutes ago
                                 6379/tcp
     Up 5 minutes
                                                      romantic_wilbur
e4f361074fc8
                                          "/bin/bash"
                                                                    6 days ago
                     ubuntu
     Exited (255) 6 days ago
                                                      wizardly_heisenberg
```

You can also inspect the container using

docker inspect < container id | friendly name>

using container id

Using container name

You can also see container log using

docker logs < container id | friendly name>

```
sumyak@sumyak-VirtualBox:~$ docker logs romantic_wilbur
1:C 10 Nov 2020 05:53:44.325 # 0000000000000 Redis is starting 0000000000000
1:C 10 Nov 2020 05:53:44.325 # Redis version=6.0.9, bits=64, commit=00000000, mo
dified=0, pid=1, just started
1:C 10 Nov 2020 05:53:44.325 # Warning: no config file specified, using the defa
ult config. In order to specify a config file use redis-server /path/to/redis.co
nf
1:M 10 Nov 2020 05:53:44.328 * Running mode=standalone, port=6379.
1:M 10 Nov 2020 05:53:44.329 # Server initialized
1:M 10 Nov 2020 05:53:44.329 # WARNING overcommit_memory is set to 0! Background
save may fail under low memory condition. To fix this issue add 'vm.overcommit_
memory = 1' to /etc/sysctl.conf and then reboot or run the command 'sysctl vm.ov
ercommit_memory=1' for this to take effect.
1:M 10 Nov 2020 05:53:44.329 * Ready to accept connections
```

STEP 4) access redis or any other container using

docker run -d - -name nameofcontainer -p port no. : port no. image name: version

(this gives dynamic ip to your container)

You can also check it using

docker port name portno.

```
umyak-VirtualBox:~$ docker run -d --name sumyakredis -p 6379:6379 redis:
latest
a9b661419bb237b0a05959468720c07ab8a4932cb066a339464f7236064cd1a8
sumyak@sumyak-VirtualBox:~$ docker run -d --name SumyakredisDynamic -p 6379 redi
d5a04ec65179ccd5737ed63bb453a6b6975a64a3bb026f34c7baf38b029bde60
    ak@sumyak-VirtualBox:~$ docker port SumyakredisDynamic 6379
0.0.0.0:32768
sumyak@sumyak-VirtualBox:~$ docker ps
                                       COMMAND
CONTAINER ID
                   IMAGE
                                                                CREATED
     STATUS
                        PORTS
                                                  NAMES
                                       "docker-entrypoint.s..." 30 seconds ago
d5a04ec65179
                   redis:latest
                        0.0.0.0:32768->6379/tcp SumyakredisDynamic
    Up 29 seconds
a9b661419bb2
                   redis:latest
                                        "docker-entrypoint.s...
                                                                2 minutes ago
    Up 2 minutes
                        0.0.0.0:6379->6379/tcp
                                                  sumyakredis
                                        "docker-entrypoint.s..." 9 minutes ago
                   redis
0f9e420ad2d8
                                                  romantic_wilbur
                        6379/tcp
    Up 9 minutes
```

STEP 5) you can store image logs and data in a directory also using

docker run -d - - name containername -v directorylocation :/ data imagename

```
3<mark>sumyak@sumyak-VirtualBox:~</mark>$ docker run -d --name sumyakredismapped -v /home/CG:/
data redis
69a9ea2dfd758fc68f07fb5d0d8c<u>c</u>bee89d47a9a8585e0c19589141c3e201cf5
```

STEP 6) you can also run a container and see status in a single command

docker run imagename ps

Stop the container using

docker stop containername