## Module 3: Docker Part 1 Assignment - 3

1. Use the saved image in the previous assignment.

### Solution:-

# docker commit 1161179e756c secnod\_img\_ubuntu\_e756c # docker images

```
      root@ip-172-31-93-148:/home/ubuntu#
      docker commit
      1161179e756c secnod_img_ubuntu_e756c

      _e756c
      sha256:a56cb3889f45a1ed0112ade6c0faf342836967358823d47e970afb0e6a05a99b

      root@ip-172-31-93-148:/home/ubuntu#
      docker images

      REPOSITORY
      TAG
      IMAGE ID
      CREATED
      SIZE

      secnod_img_ubuntu_e756c
      latest
      a56cb3889f45
      3 seconds ago
      228MB

      first_img_ubuntu_8502e
      latest
      f142d6136f7b
      About an hour ago
      228MB

      ubuntu
      latest
      5a81c4b8502e
      5 weeks ago
      77.8MB

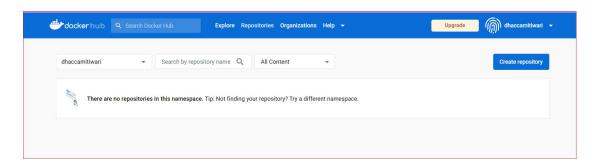
      hello-world
      latest
      9c7a54a9a43c
      3 months ago
      13.3kB
```

2. Upload this image on Docker Hub.

### Solution:-

\* Docker hub account:-

https://hub.docker.com/repositories/dhaccamitiwari



## # docker login

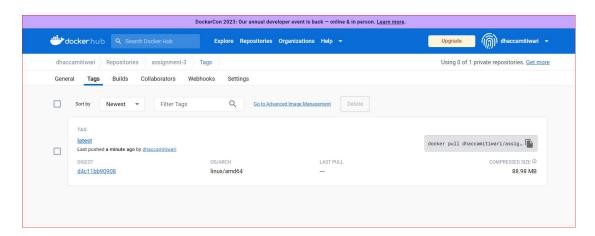
```
root@ip-172-31-93-148:/home/ubuntu# docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't
have a Docker ID, head over to https://hub.docker.com to create one.
Username: dhaccamitiwari
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store
Login Succeeded
```

```
# docker tag second_img_ubuntu_e765c dhaccamitiwari/assignment-3 # docker push dhaccamitiwari/assignment-3
```

```
root@ip-172-31-93-148:/home/ubuntu# docker tag secnod_img_ubuntu_e756c dhaccamit iwari/assignment-3
root@ip-172-31-93-148:/home/ubuntu# docker push dhaccamitiwari/assignment-3
Using default tag: latest
The push refers to repository [docker.io/dhaccamitiwari/assignment-3]
02dec353063d: Pushed
3af2ae7c0fc5: Pushed
59c56aee1fb4: Mounted from library/ubuntu
latest: digest: sha256:d4c11bb9090894659a8644e664fb2dbf7432011e6820bf1f43ed1f247
38c06d8 size: 949
```

\* Docker hub link of dhaccamitiwari/assignment-3 image.

https://hub.docker.com/repository/docker/dhaccamitiwari/assignment-3/general



3. On a separate machine pull this Docker Hub image and launch it on port 80.

Solution:- Now I created second ec2 instance and run these commands:-

# # apt update

```
root@ip-172-31-84-192:/home/ubuntu# apt update -y
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [11 9 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [ 108 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [ 110 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packag es [14.1 MB]
```

# # apt install docker.io -y

```
root@ip-172-31-84-192:/home/ubuntu# apt install docker.io -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
 bridge-utils containerd dns-root-data dnsmasq-base pigz runc ubuntu-fan
Suggested packages:
  \verb|ifupdown| aufs-tools| cgroupfs-mount| cgroup-lite| debootstrap| docker-doc|\\
  rinse zfs-fuse | zfsutils
The following NEW packages will be installed:
  bridge-utils containerd dns-root-data dnsmasq-base docker.io pigz runc
 ubuntu-fan
O upgraded, 8 newly installed, O to remove and 95 not upgraded.
Need to get 74.0 MB of archives.
After this operation, 293 MB of additional disk space will be used.
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 pigz a
md64 2.6-1 [63.6 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 bridge-uti
```

# # docker pull dhaccamitiwari/assignment-3:latest

```
ubuntu@ip-172-31-84-192:~$ sudo su
root@ip-172-31-84-192:/home/ubuntu# docker pull dhaccamitiwari/assignment-3:late
st
latest: Pulling from dhaccamitiwari/assignment-3
3153aa388d02: Pull complete
022d73f29eb4: Pull complete
2b67f253ab05: Pull complete
Digest: sha256:d4c11bb9090894659a8644e664fb2dbf7432011e6820bf1f43ed1f24738c06d8
Status: Downloaded newer image for dhaccamitiwari/assignment-3:latest
docker.io/dhaccamitiwari/assignment-3:latest
root@ip-172-31-84-192:/home/ubuntu# docker images
REPOSITORY
                              TAG
                                                        CREATED
                                        IMAGE ID
                                                                         SIZE
dhaccamitiwari/assignment-3
                              latest
                                        a56cb3889f45
                                                        55 minutes ago
                                                                         228MB
```

# # docker run -td --name first\_con\_dh\_pulled -p 80:80 dhaccamitiwari/assignment-3 /bin/bash # docker ps

```
root@ip-172-31-84-192:/home/ubuntu# docker run -td --name first con dh pulled -p
80:80 dhaccamitiwari/assignment-3 /bin/bash
25986c98ee85500484a28fdc314bcc12a45825b36d73ee05b42f17850ef54859
root@ip-172-31-84-192:/home/ubuntu# docker ps
CONTAINER ID
              IMAGE
                                             COMMAND
                                                           CREATED
                                                                            STAT
            PORTS
                                                NAMES
25986c98ee85
              dhaccamitiwari/assignment-3
                                             "/bin/bash"
                                                           45 seconds ago
                                                                            Up 4
4 seconds 0.0.0.0:80->80/tcp, :::80->80/tcp
                                                first_con_dh pulled
```

4. Start the Apache2 service.

Solution:-

# docker exec -it 25986c98ee85 /bin/bash # service apache2 start && service apache2 status

```
root@ip-172-31-84-192:/home/ubuntu# docker exec -it 25986c98ee85 /bin/bash root@25986c98ee85:/# service apache2 status
  * apache2 is not running
root@25986c98ee85:/# service apache2 start && service apache2 status
  * Starting Apache httpd web server apache2
AH00558: apache2: Could not reliably determine the server's fully qualified doma in name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress this message
  *
  * apache2 is running
```

5. Verify if you are able to see the Apache2 service **Solution**:-

# http://3.82.100.85:80/

