

Lesson 02 Demo 06

Pushing an Image to Registry

Objective: To illustrate the process of copying an image from Docker Hub to a local registry

Tools required: Docker and Ubuntu

Prerequisites: None

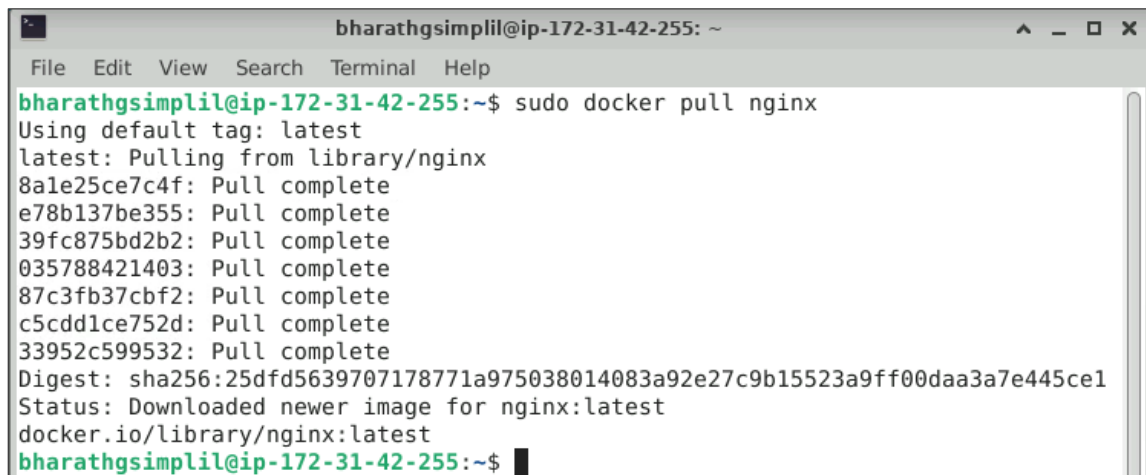
Steps to be followed:

1. Copy an image from the docker hub to your registry

Step 1: Copy an image from docker hub to your registry

1.1 Pull the nginx image from Docker Hub using the following command:

sudo docker pull nginx



```
bharathgsimplil@ip-172-31-42-255: ~  
File Edit View Search Terminal Help  
bharathgsimplil@ip-172-31-42-255:~$ sudo docker pull nginx  
Using default tag: latest  
latest: Pulling from library/nginx  
8a1e25ce7c4f: Pull complete  
e78b137be355: Pull complete  
39fc875bd2b2: Pull complete  
035788421403: Pull complete  
87c3fb37cbf2: Pull complete  
c5cdd1ce752d: Pull complete  
33952c599532: Pull complete  
Digest: sha256:25dfd5639707178771a975038014083a92e27c9b15523a9ff00daa3a7e445ce1  
Status: Downloaded newer image for nginx:latest  
docker.io/library/nginx:latest  
bharathgsimplil@ip-172-31-42-255:~$
```

1.2 Tag the image using the following command:

sudo docker tag nginx localhost:5000/nginx

```
bharathgsimplil@ip-172-31-42-255:~$ sudo docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
8ale25ce7c4f: Pull complete
e78b137be355: Pull complete
39fc875bd2b2: Pull complete
035788421403: Pull complete
87c3fb37cbf2: Pull complete
c5cdd1ce752d: Pull complete
33952c599532: Pull complete
Digest: sha256:25dfd5639707178771a975038014083a92e27c9b15523a9ff00daa3a7e445ce1
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
bharathgsimplil@ip-172-31-42-255:~$ sudo docker tag nginx localhost:5000/nginx
bharathgsimplil@ip-172-31-42-255:~$
```

1.3 Push the image to the local registry using the following command:

sudo docker push localhost:5000/nginx

```
bharathgsimplil@ip-172-31-42-255:~$ sudo docker push localhost:5000/nginx
Using default tag: latest
The push refers to repository [localhost:5000/nginx]
fd31601f0be4: Pushed
93b4c8c4ac05: Pushed
b7df9f234b50: Pushed
ab75a0b61bd1: Pushed
c1b1bf2f95dc: Pushed
4d99aableed4: Pushed
a483da8ab3e9: Pushed
latest: digest: sha256:9a09179391eb34b797a024dd4d13c836f067be2dd2351fd6819f888ba5e04fdb size: 1778
bharathgsimplil@ip-172-31-42-255:~$
```

1.4 Remove the locally cached images using the following command:

sudo docker image remove nginx

```
bharathgsimplil@ip-172-31-42-255:~$ sudo docker image remove nginx
Untagged: nginx:latest
Untagged: nginx@sha256:25dfd5639707178771a975038014083a92e27c9b15523a9ff00daa3a7e445ce1
bharathgsimplil@ip-172-31-42-255:~$
```

1.5 Pull the localhost:5000/nginx image from the local registry using the following command:

sudo docker pull localhost:5000/nginx

```
bharathgsimplil@ip-172-31-42-255:~$ sudo docker pull localhost:5000/nginx
Using default tag: latest
latest: Pulling from nginx
Digest: sha256:9a09179391eb34b797a024dd4d13c836f067be2dd2351fd6819f888ba5e04fdb
Status: Image is up to date for localhost:5000/nginx:latest
localhost:5000/nginx:latest
bharathgsimplil@ip-172-31-42-255:~$
```

1.6 List all the running containers to check the registry container using the command given below:

sudo docker ps

```
bharathgsimplil@ip-172-31-42-255:~$ sudo docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
90ccd7e90146   registry:2    "/entrypoint.sh /etc..." 5 minutes ago  Up 4 minutes  0.0.0.0:5000->5000/tcp, :::5000->5000/tcp
bharathgsimplil@ip-172-31-42-255:~$ █
```

1.7 Stop the registry container using the following command:

sudo docker container stop registry

```
bharathgsimplil@ip-172-31-42-255:~$ sudo docker container stop registry
registry
bharathgsimplil@ip-172-31-42-255:~$ █
```

By following these steps, you have successfully copied the nginx image from Docker Hub to your local registry. You accomplished this by pulling the nginx image, tagging it with the address of your local registry, pushing it to the registry, and finally confirming its presence within the registry.