Push and pull image to Docker hub and ACR

d
At first we will create our Dockerfile and by using this file, we create our Docker image.
After this figure out all the available images at local system as follow

$ docker images

By this all the images will be listed out
After this we rename our image to username/image_name:tag
So that it can be pushed to Docker hub easily

$ docker login

$ docker tag image_name:tag dockerhub-username/image_name:tag

$ docker push dockerhub-username/image_name:tag

Now Image has been successfully pushed to Docker hub account that be verified there

To pull an image from docker hub,we simply follow

$ docker image_name:tag

$ docker pull dockerhub-username/image_name:tag

By following above commands, we can push and pull an image.

```
┌──(kali㉿kali)-[~/Desktop]
└─$ ls
Dockerfile  index.html

┌──(kali㉿kali)-[~/Desktop]
└─$ docker images
REPOSITORY    TAG        IMAGE ID        CREATED         SIZE
welcomepage   latest     a21867e49d96    9 seconds ago   52.5MB
alpine-demo   latest     84b06a103388    4 weeks ago     8.31MB

┌──(kali㉿kali)-[~/Desktop]
└─$ docker run -d -p 8080:80 welcomepage

7c233af1b631835b661bd5cd35218af61f9ba1df530fb3d2bccd0184fe1e45bc

┌──(kali㉿kali)-[~/Desktop]
└─$ docker ps
CONTAINER ID   IMAGE         COMMAND                CREATED        STATUS         PORTS
7c233af1b631   welcomepage   "/docker-entrypoint.…" 5 seconds ago  Up 4 seconds   0.0.0.0:8080→80/tcp, :::8080→80/tcp

┌──(kali㉿kali)-[~/Desktop]
└─$ firefox localhost:8080

┌──(kali㉿kali)-[~/Desktop]
└─$ docker tag welcomepage harshitgarg123/welcomepage:1

┌──(kali㉿kali)-[~/Desktop]
└─$ docker images
REPOSITORY                   TAG        IMAGE ID        CREATED         SIZE
harshitgarg123/welcomepage   1          a21867e49d96    2 minutes ago   52.5MB
welcomepage                  latest     a21867e49d96    2 minutes ago   52.5MB
alpine-demo                  latest     84b06a103388    4 weeks ago     8.31MB
```

```
  └─$ docker login
Log in with your Docker ID or email address to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com/ to c
reate one.
You can log in with your password or a Personal Access Token (PAT). Using a limited-scope PAT grants better security and is required for organizations using
SSO. Learn more at https://docs.docker.com/go/access-tokens/

Username: harshitgarg123
Password:
WARNING! Your password will be stored unencrypted in /home/kali/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded

  ┌──(kali㉿kali)-[~/Desktop]
  └─$ docker push harshitgarg123/welcomepage
Using default tag: latest
The push refers to repository [docker.io/harshitgarg123/welcomepage]
tag does not exist: harshitgarg123/welcomepage:latest

  ┌──(kali㉿kali)-[~/Desktop]
  └─$ docker push harshitgarg123/welcomepage:1
The push refers to repository [docker.io/harshitgarg123/welcomepage]
75e3740a9830: Pushed
58e9157e2150: Pushed
640e06e412a9: Mounted from library/nginx
bd66bdd2f47f: Mounted from library/nginx
4f313ed230a0: Mounted from library/nginx
36acb230000e: Mounted from library/nginx
2aaacff968bc: Mounted from library/nginx
bbbd2d1aea89: Mounted from library/nginx
7b97c641cb43: Mounted from library/nginx
fd2758d7a50e: Mounted from library/nginx
1: digest: sha256:5bbac7d995af3d7453c40afdd9d900747fa9fd576b487fa7971418e58d78ab40 size: 2404
```

Azure Container Registry (ACR)

For ACR, at first we'll have to create an Azure container registry at Azure portal and then we follow following steps.

$ az login

$ az acr login --name our-acr-name

$ docker tag image_name:tag our-acr-name.azurecr.io/image_name:tag

$ docker push our-acr-name.azurecr.io/image_name:tag

Pull an Image from ACR

$ docker pull our-acr-name.azurecr.io/image_name:tag