Ques 5   Push and pull image to Docker hub and ACR

1. Login to Docker Hub

```
docker login
```

Provide your Docker Hub **username** and **password (or token)**.

2. Tag your image

```
docker tag my-image username/my-image:latest
```

3. Push it

```
docker push username/my-image:latest
```
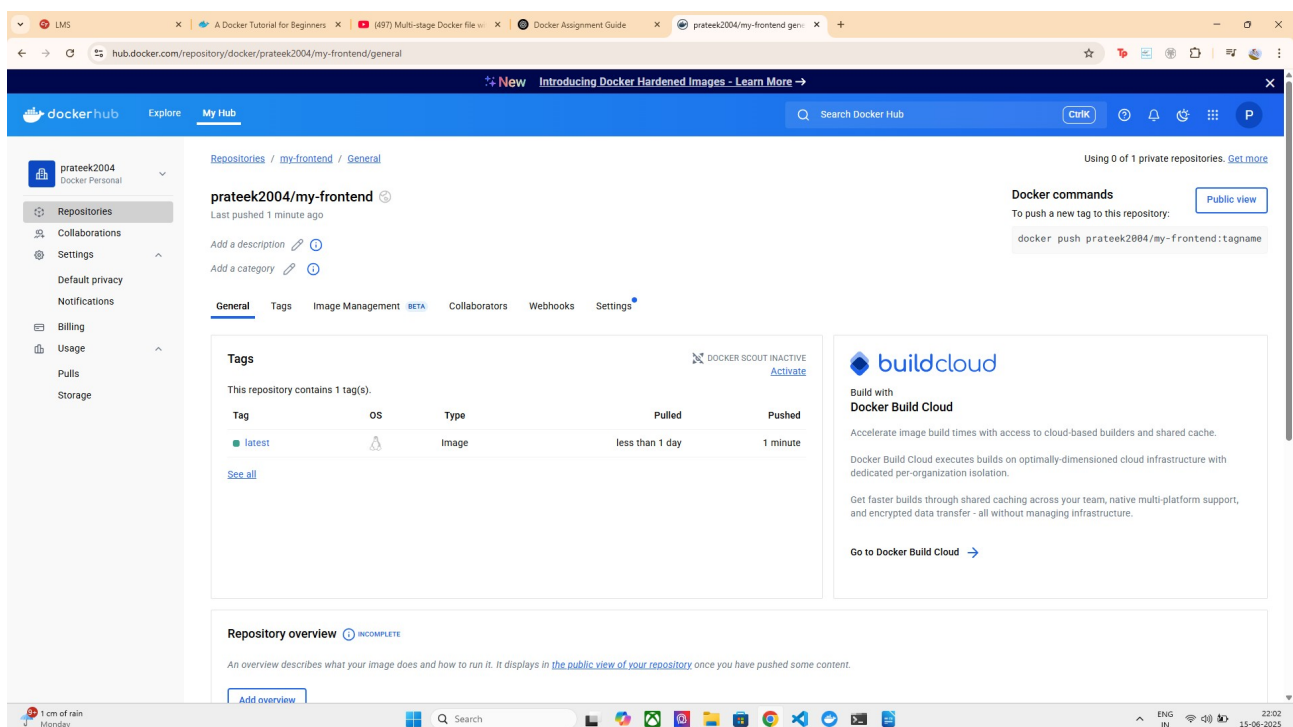
✅ Now it's available on Docker Hub at:
`https://hub.docker.com/repository/docker/username/my-image`

Pull from Docker Hub

```
docker pull username/my-image:latest
```

Then run it:

```
docker run -d username/my-image:latest
```

```
C:\Users\prate>docker tag myprotfolio-frontend prateek2004/my-frontend:latest

C:\Users\prate>docker push prateek2004/my-image:latest
The push refers to repository [docker.io/prateek2004/my-image]
An image does not exist locally with the tag: prateek2004/my-image

C:\Users\prate>docker push prateek2004/my-frontend:latest
The push refers to repository [docker.io/prateek2004/my-frontend]
67393019cf21: Pushed
0d853d50b128: Mounted from library/nginx
947e805a4ac7: Mounted from library/nginx
811a4dbbf4a5: Mounted from library/nginx
b8d7d1d22634: Mounted from library/nginx
e244aa659f61: Mounted from library/nginx
c56f134d3805: Mounted from library/nginx
d71eae0084c1: Mounted from library/nginx
08000c18d16d: Mounted from library/node
latest: digest: sha256:aa9d3d5f36d980a62fba51e2a51e16d488fe678fad82c0420a0ce501d444415d size: 2200

C:\Users\prate>docker pull prateek2004/my-frontend:latest
latest: Pulling from prateek2004/my-frontend
Digest: sha256:aa9d3d5f36d980a62fba51e2a51e16d488fe678fad82c0420a0ce501d444415d
Status: Image is up to date for prateek2004/my-frontend:latest
docker.io/prateek2004/my-frontend:latest

C:\Users\prate>docker run -d prateek2004/my-frontend:latest
c58355c6e9f17fa39c1e4eda2f62fe87aed12c92cc4154224ca751db45a2ff5c

C:\Users\prate>docker ps
CONTAINER ID   IMAGE                              COMMAND                  CREATED          STATUS          PORTS     NAMES
c58355c6e9f1   prateek2004/my-frontend:latest    "/docker-entrypoint.…"   11 seconds ago   Up 10 seconds   80/tcp    dreamy_jackson

C:\Users\prate>
```
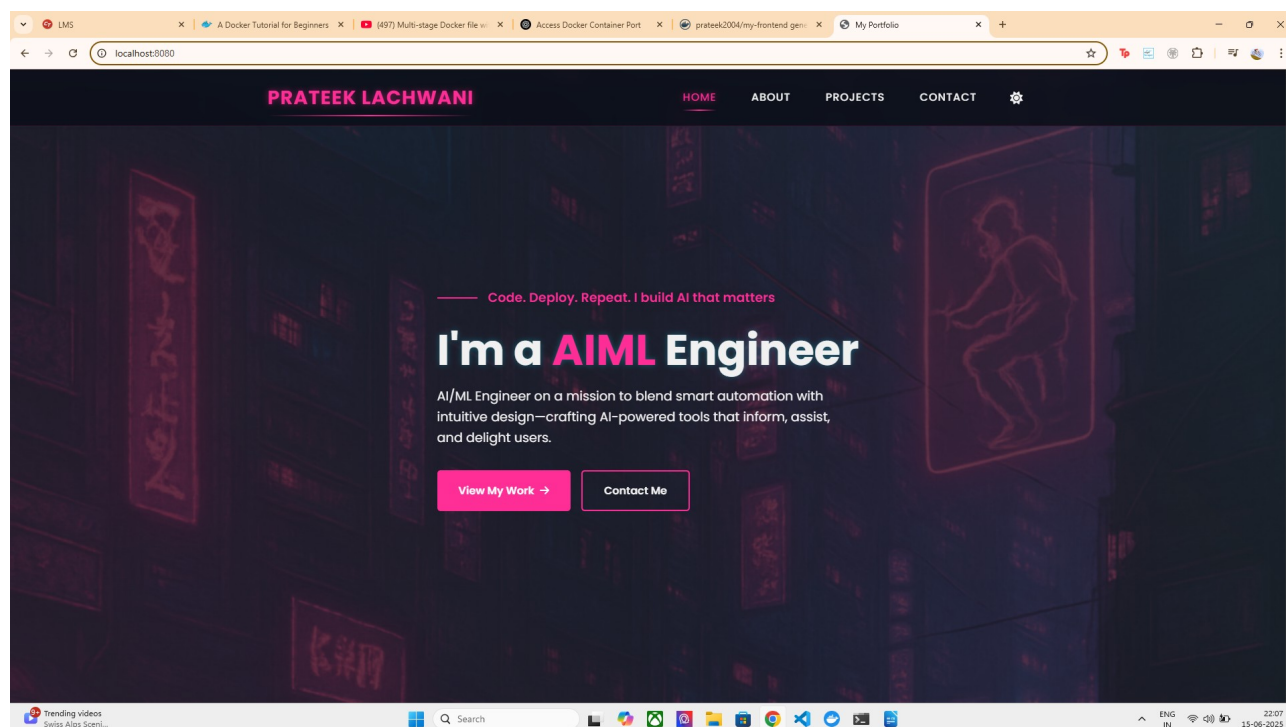
docker run -d -p 8080:80 prateek2004/my-frontend:latest

to see on port 8080

Azure Container Registry (ACR)

Lets create ACR

1. Create ACR from Azure Portal

Steps:

1. **Go to** https://portal.azure.com
2. Search for **"Container Registries"**.
3. Click **"Create"**.
4. Fill in the form:
   - **Subscription**: Choose your Azure subscription.
   - **Resource group**: Select existing or create new.
   - **Registry name**: Must be globally unique (e.g., `myregistry123`).
   - **Location**: Choose region (e.g., Central India).
   - **SKU**: Choose `Basic` (good for testing), `Standard`, or `Premium`.
5. Click **"Review + Create"** → **Create**

2. OR Create ACR via Azure CLI

**az acr create --resource-group myResourceGroup **

      **--name myregistry123 **

      --sku Basic
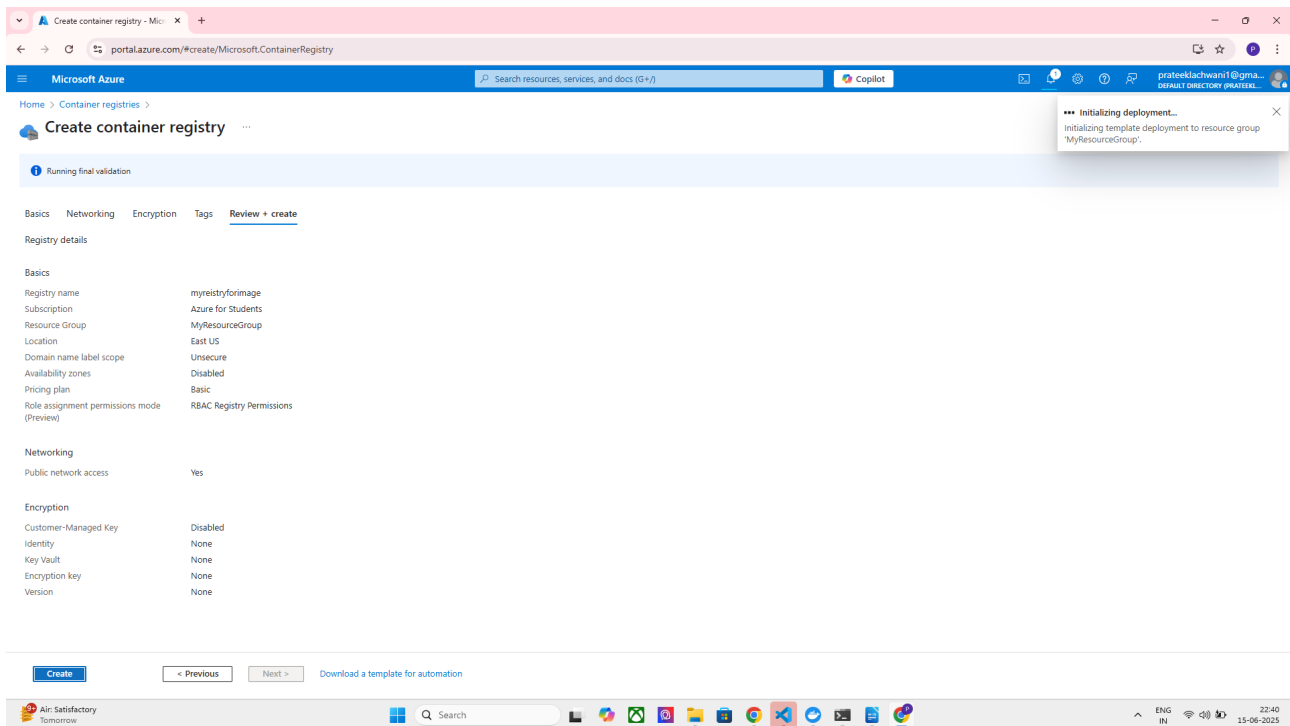
Push to ACR

1. Login to ACR

You can use Azure CLI:

```
az login
az acr login --name myregistry
```

Or use Docker directly:

```
docker login myregistry.azurecr.io
```

2. Tag your image for ACR

```
docker tag my-image myregistry.azurecr.io/my-image:latest
```

3. Push it

```
docker push myregistry.azurecr.io/my-image:latest
```
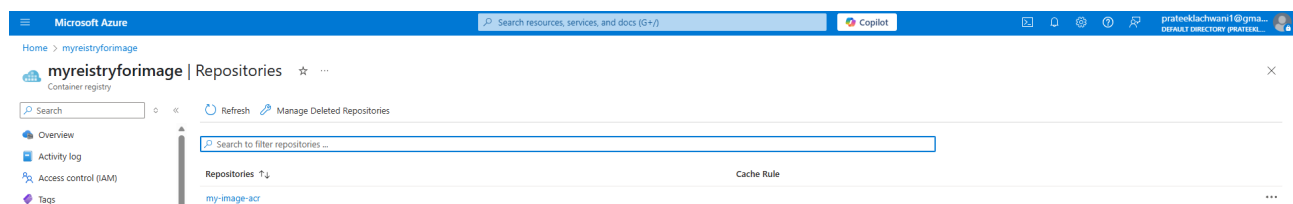

Pull from ACR

```
docker pull myregistry.azurecr.io/my-image:latest
```

Then:

```
docker run -d myregistry.azurecr.io/my-image:latest
```

```
docker run -d -p 8080:3000 myregistry.azurecr.io/my-image:latest
```

```
C:\Users\prate>docker pull myreistryforimage.azurecr.io/my-image-acr:latest
latest: Pulling from my-image-acr
Digest: sha256:aa9d3d5f36d980a62fba51e2a51e16d488fe678fad82c0420a0ce501d444415d
Status: Image is up to date for myreistryforimage.azurecr.io/my-image-acr:latest
myreistryforimage.azurecr.io/my-image-acr:latest

C:\Users\prate>
```

```
C:\Users\prate>docker run -d -p 7777:3000 myreistryforimage.azurecr.io/my-image-acr:latest
3c7117cf6b64d78e2eec75d3645c149c313119802c412e602e370730eccbc9a4

C:\Users\prate>
```

SUCCESSFULLY RUNNING AT DESRIED PORT

```
C:\Users\prate>docker ps
CONTAINER ID   IMAGE                                              COMMAND                  CREATED          STATUS          PORTS                                NAMES
3c7117cf6b64   myreistryforimage.azurecr.io/my-image-acr:latest   "/docker-entrypoint.…"   26 seconds ago   Up 25 seconds   80/tcp, 0.0.0.0:7777->3000/tcp      angry_tesla
a191430c6cb2   prateek2004/my-frontend:latest                     "/docker-entrypoint.…"   56 minutes ago   Up 56 minutes   0.0.0.0:8080->80/tcp                angry_shamir
```

output local host port 7777