

22MIC0019

DOCKER DEMO TASKS

Create Docker Hub Account

Install Docker Desktop

Create Code Files

In Terminal:

docker login

```
PS D:\7TH SEMESTER\Adv_Python\Python_lab\Docker_Tutorial> docker login
Authenticating with existing credentials... [Username: rufinam]

Info → To login with a different account, run 'docker logout' followed by 'docker login'

Login Succeeded
```

docker build -t 22mic0019-sample-website-image .

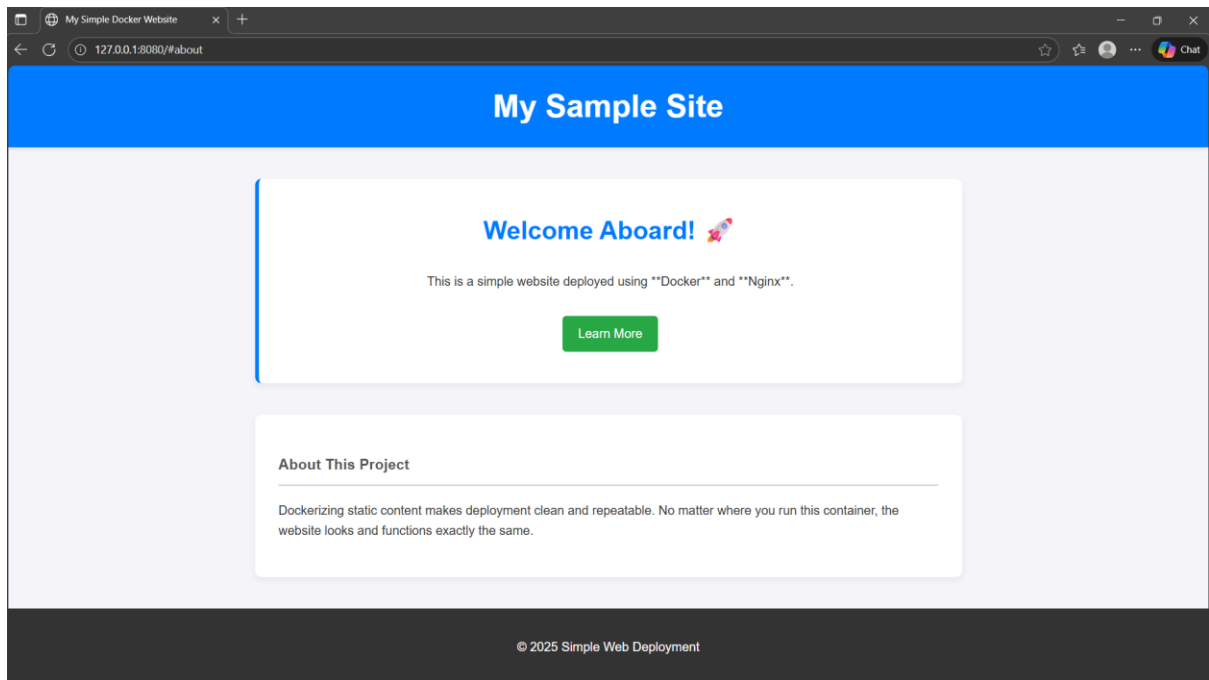
```
PS D:\7TH SEMESTER\Adv_Python\Python_lab\Docker_Tutorial> docker build -t 22mic0019-sample-website-image .
[+] Building 27.1s (8/8) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 283B
=> [internal] load metadata for docker.io/library/nginx:alpine
=> [auth] library/nginx:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load build context
=> => transferring context: 2.64kB
=> [1/2] FROM docker.io/library/nginx:alpine@sha256:b3c656d55d7ad751196f21b7fd2e8d4da9cb430e32fe46adcf92441b72f82b14
=> resolve docker.io/library/nginx:alpine@sha256:b3c656d55d7ad751196f21b7fd2e8d4da9cb430e32fe46adcf92441b72f82b14
=> sha256:bdabb0d442710d667f4fd871b5fd215cc2a430a95b192bc508bf945b8e6099b 16.97MB / 16.97MB
=> sha256:ff8a36d5502a57c3fc8eeff48e578ab433a03b1dd528992ba0d966ddf853309a 1.40kB / 1.40kB
=> sha256:d9a55dab5954588333096b28b351999099bea5eb3c68c10e99f175b12c97198d 1.21kB / 1.21kB
=> sha256:df413d6ebdc834bccf63178455d406c4d25e2c2d38d2c1ab79ee5494b18e5624 403B / 403B
=> sha256:3eaba6cd10a374d9ed629c26d76a5258e20ddfa09fceff511c98aa620dcf3fae4 955B / 955B
=> sha256:194fa24e147df0010e146240d3b4bd25d04180c523dc717e4645b269991483e3 628B / 628B
=> sha256:8f6a6833e95d43ac524f1f9c5e7c1316c1f3b8e7ae5ba3db4e54b0c5b910e80a 1.84MB / 1.84MB
=> sha256:2d35ebdb57d9971fea0cac1582aa78935adf8058b2cc32db163c98822e5dfa1b 3.80MB / 3.80MB
=> extracting sha256:2d35ebdb57d9971fea0cac1582aa78935adf8058b2cc32db163c98822e5dfa1b
=> extracting sha256:8f6a6833e95d43ac524f1f9c5e7c1316c1f3b8e7ae5ba3db4e54b0c5b910e80a
=> extracting sha256:194fa24e147df0010e146240d3b4bd25d04180c523dc717e4645b269991483e3
=> extracting sha256:3eaba6cd10a374d9ed629c26d76a5258e20ddfa09fceff511c98aa620dcf3fae4
=> extracting sha256:df413d6ebdc834bccf63178455d406c4d25e2c2d38d2c1ab79ee5494b18e5624
=> extracting sha256:d9a55dab5954588333096b28b351999099bea5eb3c68c10e99f175b12c97198d
=> extracting sha256:ff8a36d5502a57c3fc8eeff48e578ab433a03b1dd528992ba0d966ddf853309a
=> extracting sha256:bdabb0d442710d667f4fd871b5fd215cc2a430a95b192bc508bf945b8e6099b
=> [2/2] COPY html/ /usr/share/nginx/html
=> exporting to image
=> => exporting manifest sha256:5ad0147ded5cdc84c8eaacef439ec37d38b2bde11d4ed90c7ad93839b110fb2f
=> => exporting config sha256:e2edac5f93533c3c82c314db39fcf401e4de63d2d013d3026a831bc96427a8ce
=> => exporting attestation manifest sha256:e093e2d8a77a3f5edaf6e7bd68852f9902ae73cbe4b5ce1ffb75aed4daa8e791
=> => exporting manifest list sha256:87095d1bf4f92af56e1565c966bb8d4ffcc8cf03b54a509ca3ce2e7915c5fabe3
=> => naming to docker.io/library/22mic0019-sample-website-image:latest
=> => unpacking to docker.io/library/22mic0019-sample-website-image:latest

View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/wqfv1i2k43uhoxk1wq530f4mr
PS D:\7TH SEMESTER\Adv_Python\Python_lab\Docker_Tutorial>
```

Running the Locally built docker image:

docker run -d -p 8080:80 --name my-website-container 22mic0019-sample-website-image

```
PS D:\7TH SEMESTER\Adv_Python\Python_lab\Docker_Tutorial> docker run -d -p 8080:80 --name my-website-container 22mic0019-sample-website-image
60f1832367742a4227b221a24390213815cea9f9a5fd0810f75bb919328a2c1a
PS D:\7TH SEMESTER\Adv_Python\Python_lab\Docker_Tutorial>
```



docker tag 22mic0019-sample-website-image rufinam/22mic0019-sample-website-image:latest

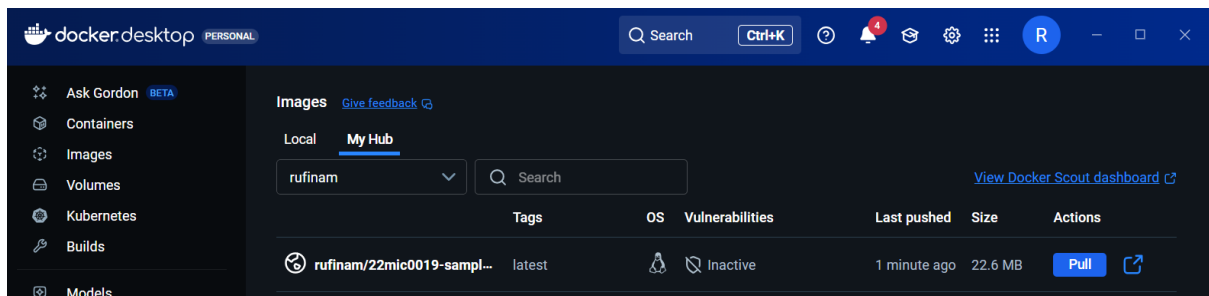
docker push rufinam/22mic0019-sample-website-image:latest

Executing push command:

```
PS D:\7TH SEMESTER\Adv_Python\Python_lab\Docker_Tutorial> docker tag 22mic0019-sample-website-image rufinam/22mic0019-sample-website-image:latest
PS D:\7TH SEMESTER\Adv_Python\Python_lab\Docker_Tutorial> docker push rufinam/22mic0019-sample-website-image:latest
The push refers to repository [docker.io/rufinam/22mic0019-sample-website-image]
4d4ff06d7e9b: Pushed
df413d6ebdc8: Pushing [=====>] 403B/403B
3eaba6cd10a3: Pushed
ff8a36d5502a: Pushed
bdabb0d44271: Pushing [====>] 1.049MB/16.97MB
2d35ebdb57d9: Pushing [=====>] 2.097MB/3.802MB
8f6a6833e95d: Pushing [=====>] 1.049MB/1.836MB
a822f0f9bac1: Pushed
194fa24e147d: Pushed
d9a55dab5954: Pushed
```

After push command:

```
The push refers to repository [docker.io/rufinam/22mic0019-sample-website-image]
4d4ff06d7e9b: Pushed
df413d6ebdc8: Pushed
3eaba6cd10a3: Pushed
ff8a36d5502a: Pushed
bdabb0d44271: Pushed
2d35ebdb57d9: Pushed
8f6a6833e95d: Pushed
a822f0f9bac1: Pushed
194fa24e147d: Pushed
d9a55dab5954: Pushed
latest: digest: sha256:87095d1bf4f92af56e1565c966bb8d4ffc8cf035b4a509ca3ce2e7915c5fabe3 size: 856
PS D:\7TH SEMESTER\Adv_Python\Python_lab\Docke_Tutorial>
```



`docker run -d -p 8081:80 rufinam/22mic0019-sample-website-image:latest`

Running the docker image from the hub:

```
PS D:\7TH SEMESTER\Adv_Python\Python_lab\Docke_Tutorial> docker run -d -p 8081:80 rufinam/22mic0019-sample-website-image:latest
6c5e5886d469da9e6136f64905d0c336fd0803c1471fc3555cf6511694bfae39
PS D:\7TH SEMESTER\Adv_Python\Python_lab\Docke_Tutorial>
```

