

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]

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

Login Succeeded
```

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

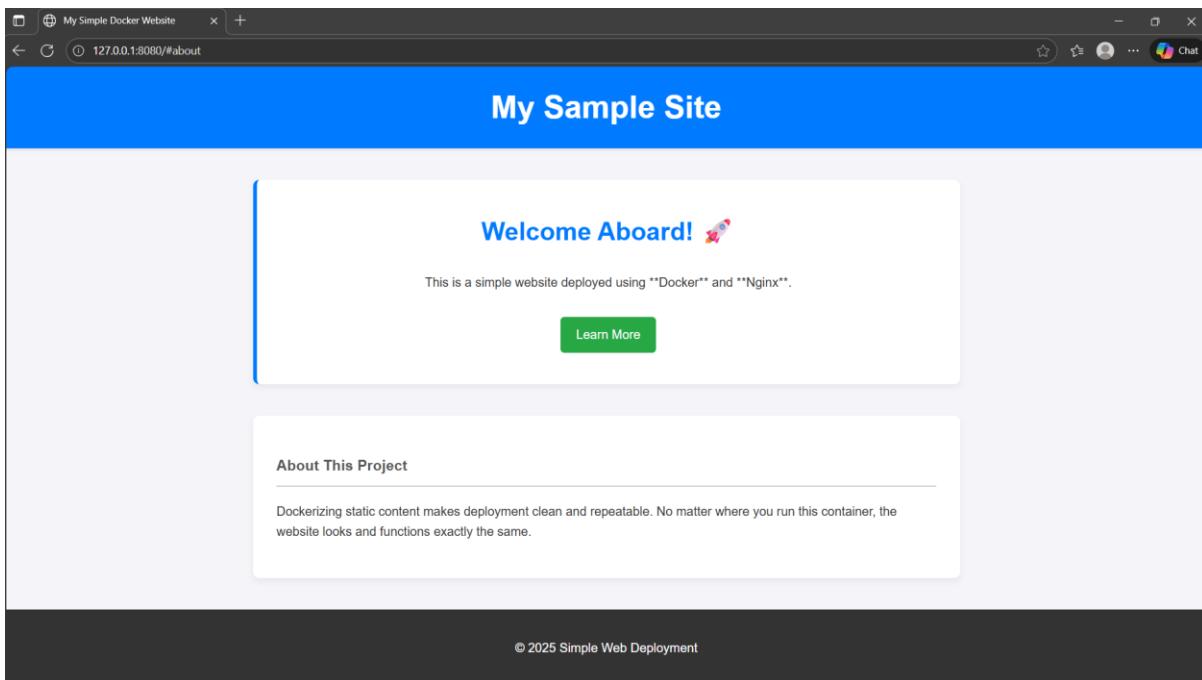
```
● PS D:\7TH SEMESTER\Adv_Python\Python_lab\Docker_Tutorial> docker build -t 22mic0019-sample-website-image .
[+] Building 27.1s (8/8) FINISHED
  => [internal] load build definition from Dockerfile
  => [internal] transfer Dockerfile: 283B
  => [internal] load metadata for docker.io/library/nginx:alpine
  => [auth] library/nginx:pull token for registry-1.docker.io
  => [internal] load .dockerrcignore
  => [internal] transfer context: 2B
  => [internal] load build context
  => [internal] transfer context: 2.44kB
  => [1/2] FROM docker.io/library/nginx:alpine@sha256:b3c656d55d7ad751196f21b7fd2e8d4da9cb430e32f646adcf92441b72f82b14
  => resolve docker.io/library/nginx@alpine@sha256:b3c656d55d7ad751196f21b7fd2e8d4da9cb430e32f646adcf92441b72f82b14
  => sha256:bdabb0d42710d667f4fd871b5fd215cc2a430a95b192bc508bf945b8e60999b 16.97MB / 16.97MB
  => sha256:ff8a36d502a57c3fc8efff48e578ab433a03b1dd528992ba0d966ddf853309a 1.40kB / 1.40kB
  => sha256:d9455dab59545883309b28b35199909b9ea5ebc5c8c10e99f175b12c97198d 1.21kB / 1.21kB
  => sha256:df413d6ebdc834bccf63178455d406c4d25e2cd38d2c1ab79ee5494b18e5624 403B / 403B
  => sha256:3eaba6cd10a374d9ed629c26d76a5258e20ddfa09fccef511c98aa620dcf3fae4 955B / 955B
  => sha256:194fa24e147df0e010e146240d3b4bd25d04180c523dc17e4645b269991483e3 628B / 628B
  => sha256:8f6a6833e95d43ac524f1f9c5e7c1316c1f3b8e7ae5ba3db4e54dbc5b910e80a 1.84MB / 1.84MB
  => sha256:2d35ebdb57d9971fea0cac1582aa78935adfb058b2cc32db163c98822e5dfa1b 3.80MB / 3.80MB
  => extracting sha256:8f6a6833e95d43ac524f1f9c5e7c1316c1f3b8e7ae5ba3db4e54dbc5b910e80a
  => extracting sha256:194fa24e147df0e010e146240d3b4bd25d04180c523dc17e4645b269991483e3
  => extracting sha256:3eaba6cd10a374d9ed629c26d76a5258e20ddfa09fccef511c98aa620dcf3fae4
  => extracting sha256:df413d6ebdc834bccf63178455d406c4d25e2cd38d2c1ab79ee5494b18e5624
  => extracting sha256:d9455dab59545883309b28b35199909b9ea5ebc5c8c10e99f175b12c97198d
  => extracting sha256:ff8a36d502a57c3fc8efff48e578ab433a03b1dd528992ba0d966ddf853309a
  => extracting sha256:bdabb0d42710d667f4fd871b5fd215cc2a430a95b192bc508bf945b8e60999b
  => [2/2] COPY html /usr/share/nginx/html
  => exporting to image
  => exporting layers
  => exporting manifest sha256:5ad0147ded5cdc8c8eaacef439ec37d38b2bde11d4e90c7ad93839b110fb2f
  => exporting config sha256:e2edacf59353c3c82c31db39fcf401e4de63d2d013d3026a831bc96427a8ce
  => exporting attestation manifest sha256:e993e2d8a77a3f5edaef6e7bd68852f9902ae73be4b5ce1fb75aed4daa8e791
  => exporting manifest list sha256:87095d1bf4f92af56e1565c966bb8d4ff8c8fc035b4a509ca3ce2e7915c5fabe3
  => naming to docker.io/library/22mic0019-sample-website-image:latest
  => unpacking to docker.io/library/22mic0019-sample-website-image:latest

View build details: docker-decktop:/dashboard/build/desktop-linux/desktop-linux/wqfvii2k43uhoxd1wq530f4mr
● 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
```

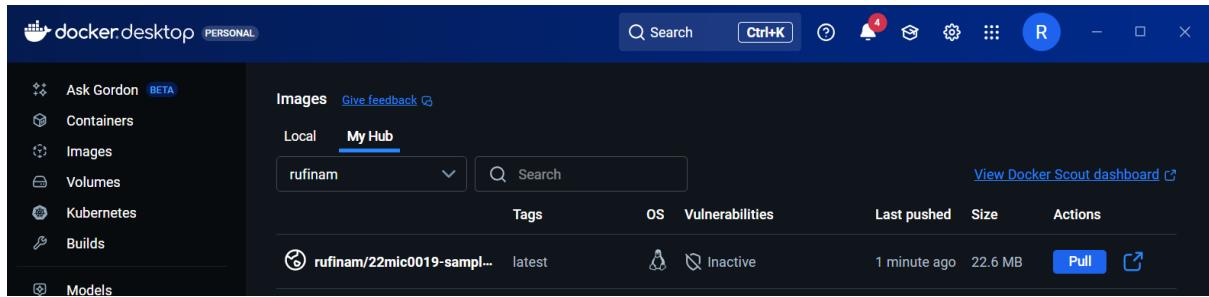
```
docker push rufinam/22mic0019-sample-website-image:latest
```

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  
bf6a6833e95d: Pushing [=====>] 1.049MB/1.836MB  
a822f0f9bac1: Pushed  
194fa2ae147d: 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\Docker_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\Docker_Tutorial> docker run -d -p 8081:80 rufinam/22mic0019-sample-website-image:latest
6c5e5886d469da9e6136f64905d0c336fd0803c1471fc3555cf6511694bfae39
PS D:\7TH SEMESTER\Adv_Python\Python_lab\Docker_Tutorial> █
```

