

CC Lab 3

Name - Rithvik Rajesh Matta

SRN - PES2UG23CS485

Class - 6H

ss1

```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485$ export SRN=PES2UG23CS485
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485$ echo "SRN: $SRN"
SRN: PES2UG23CS485
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485$ docker run hello-world

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent it
    to your terminal.



To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/
```

```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485$
```

ss2

```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS          NAMES
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485$ docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS          NAMES
46e2e0e021f5   hello-world "/hello"                38 seconds ago Exited (0) 37 seconds ago          stoic_nightingale
10884f4857ad   hello-world "/hello"                3 minutes ago  Exited (0) 3 minutes ago          mystifying_elgamal
a3dbd2b1e21c   hello-world "/hello"                3 hours ago    Exited (0) 3 hours ago          nervous_easley
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485$ docker images
 Info →  In Use
IMAGE          ID              DISK USAGE  CONTENT SIZE  EXTRA
hello-world:latest  05813aedc15f    25.9kB      9.52kB        U
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485$
```

ss3

```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485$ docker pull python:3.10-slim
3.10-slim: Pulling from library/python
ed8cfd59ed51: Pull complete
47c2bec0e44b: Pull complete
119d43eec815: Pull complete
af233a02f79e: Pull complete
f81c64c75055: Download complete
b3e684e4d1bb: Download complete
Digest: sha256:f5d029fe39146b08200bcc73595795ac19b855997ad0e5001a02c7c32e8769efa
Status: Downloaded newer image for python:3.10-slim
docker.io/library/python:3.10-slim
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485$ docker images
```

IMAGE	ID	DISK USAGE	CONTENT SIZE	EXTRA
hello-world:latest	05813aedc15f	25.9kB	9.52kB	U
python:3.10-slim	f5d029fe3914	185MB	47.1MB	

```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485$
```

ss4

```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker build -t spam-web-app-pes2ug23cs485
```

```
[+] Building 88.5s (12/12) FINISHED
```

Step	Time	Image
[+] Building	88.5s	docker:default
[+] Building	0.1s	docker:default
[+] Building	0.1s	docker:default
[+] Building	1.5s	docker:default
[+] Building	0.1s	docker:default
[+] Building	0.0s	docker:default
[+] Building	0.2s	docker:default
[+] Building	0.2s	docker:default
[+] Building	13.7s	docker:default
[+] Building	0.1s	docker:default
[+] Building	1.1s	docker:default
[+] Building	9.9s	docker:default
[+] Building	10.5s	docker:default
[+] Building	2.3s	docker:default
[+] Building	1.8s	docker:default
[+] Building	0.2s	docker:default
[+] Building	1.0s	docker:default
[+] Building	0.1s	docker:default
[+] Building	0.4s	docker:default
[+] Building	0.1s	docker:default
[+] Building	0.1s	docker:default
[+] Building	0.1s	docker:default
[+] Building	0.1s	docker:default
[+] Building	53.7s	docker:default
[+] Building	18.4s	docker:default
[+] Building	15.2s	docker:default
[+] Building	0.0s	docker:default
[+] Building	0.0s	docker:default
[+] Building	0.0s	docker:default
[+] Building	0.0s	docker:default
[+] Building	0.0s	docker:default
[+] Building	2.9s	docker:default

```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$
```

ss5

```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker run -d -p 5000:5000 spam-web-app-pes2ug23cs485
```

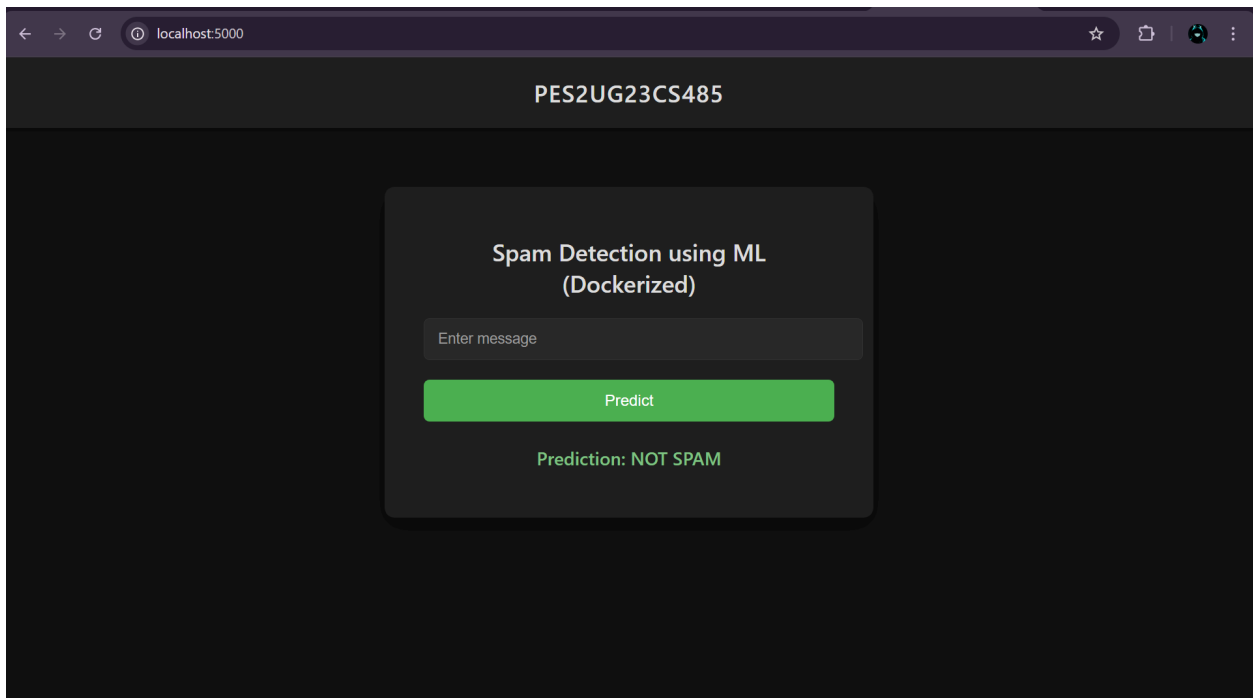
```
5619510eff7071a186856f6bc9463ca3f1a8f9f11deb1b2f8df3e5e7e9731e1
```

```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
5619510eff70	spam-web-app-pes2ug23cs485	"python app.py"	17 seconds ago	Up 16 seconds	0.0.0.0:5000->5000/tcp, [::]:5000->5000/tcp

```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$
```

ss6



ss7

```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker login
Authenticating with existing credentials... [Username: rtk5]
```

[Info](#) → To login with a different account, run 'docker logout' followed by 'docker login'

Login Succeeded

```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$
```

ss8

```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker tag spam-web-app-pes2ug23cs485 rtk5/spam-web-app-pes2ug23cs485:v1
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker images
```

IMAGE	ID	DISK USAGE	CONTENT SIZE	EXTRA
hello-world:latest	05813aedc15f	25.9kB	9.52kB	U
python:3.10-slim	f5d029fe3914	185MB	47.1MB	
rtk5/spam-web-app-pes2ug23cs485:v1	15394677a102	564MB	132MB	U
spam-web-app-pes2ug23cs485:latest	15394677a102	564MB	132MB	U

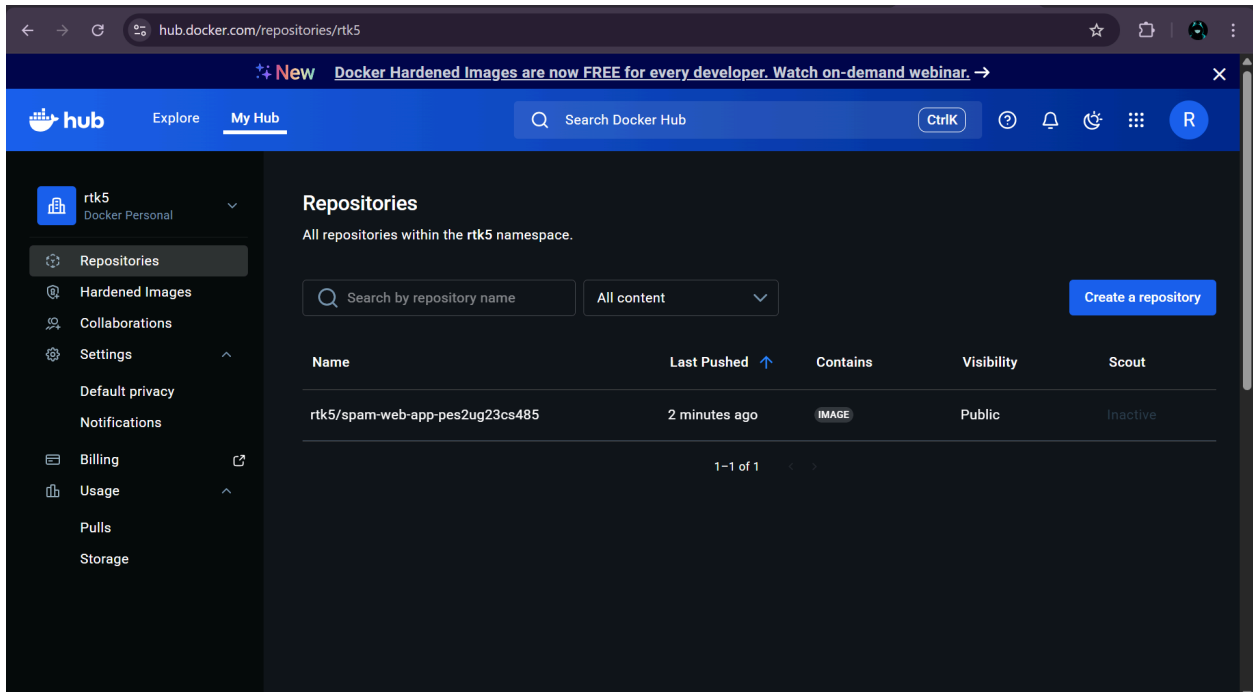
```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$
```

ss9

```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker push rtk5/spam-web-app-pes2ug23cs485:v1
The push refers to repository [docker.io/rtk5/spam-web-app-pes2ug23cs485]
```

```
e4a11fd88683: Pushed
fc7443084902: Pushed
9acfea91974b: Pushed
448dd7f42667: Pushed
eedecac1ee87: Pushed
8376e3590094: Pushed
ea56f685404a: Pushed
7d666ba4cdd5: Pushed
38513bd72563: Pushed
b3ec39b36ae8: Pushed
14430d3fcd30: Pushed
v1: digest: sha256:15394677a102edb52274f0cd52e3781b648a5999bdaf5b031b47b09a9e7a242e size: 856
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$
```

ss10



ss11

```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS
5619510eff70   spam-web-app-pes2ug23cs485         "python app.py"        6 minutes ago Up 6 minutes  0.0.0.0:5000->5000/tcp, [::]:5000->5000/tcp
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker stop 5619510eff70
5619510eff70
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS        NAMES
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$
```

ss12

```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker ps -a
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS        NAMES
5619510eff70   spam-web-app-pes2ug23cs485         "python app.py"        8 minutes ago Exited (137) 39 seconds ago
dd8941b77d8c   spam-web-app-pes2ug23cs485         "python app.py"        10 minutes ago Exited (0) 9 minutes ago
013416ba648e   spam-web-app-pes2ug23cs485         "python app.py"        13 minutes ago Exited (0) 10 minutes ago
46e2e0e021f5   hello-world                        "/hello"               35 minutes ago Exited (0) 35 minutes ago
10884f4857ad   hello-world                        "/hello"               39 minutes ago Exited (0) 39 minutes ago
a3dbd2b1e21c   hello-world                        "/hello"               3 hours ago    Exited (0) 3 hours ago
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker rm 5619510eff70
5619510eff70
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker ps -a
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS        NAMES
dd8941b77d8c   spam-web-app-pes2ug23cs485         "python app.py"        11 minutes ago Exited (0) 9 minutes ago
013416ba648e   spam-web-app-pes2ug23cs485         "python app.py"        14 minutes ago Exited (0) 11 minutes ago
46e2e0e021f5   hello-world                        "/hello"               36 minutes ago Exited (0) 36 minutes ago
10884f4857ad   hello-world                        "/hello"               39 minutes ago Exited (0) 39 minutes ago
a3dbd2b1e21c   hello-world                        "/hello"               3 hours ago    Exited (0) 3 hours ago
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$
```

ss13

```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker images
Info → U In Use
IMAGE                ID                DISK USAGE  CONTENT SIZE  EXTRA
hello-world:latest   05813aedc15f      25.9kB     9.52kB        U
python:3.10-slim     f5d029fe3914      185MB      47.1MB
rtk5/spam-web-app-pes2ug23cs485:v1 15394677a102      564MB      132MB        U
spam-web-app-pes2ug23cs485:latest 15394677a102      564MB      132MB        U
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker rmi spam-web-app-pes2ug23cs485:latest
Untagged: spam-web-app-pes2ug23cs485:latest
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker images
Info → U In Use
IMAGE                ID                DISK USAGE  CONTENT SIZE  EXTRA
hello-world:latest   05813aedc15f      25.9kB     9.52kB        U
python:3.10-slim     f5d029fe3914      185MB      47.1MB
rtk5/spam-web-app-pes2ug23cs485:v1 15394677a102      564MB      132MB        U
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ |
```

ss14

```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker images
Info → U In Use
IMAGE                ID                DISK USAGE  CONTENT SIZE  EXTRA
hello-world:latest   05813aedc15f      25.9kB     9.52kB        U
python:3.10-slim     f5d029fe3914      185MB      47.1MB
rtk5/spam-web-app-pes2ug23cs485:v1 15394677a102      564MB      132MB        U

rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker rmi rtk5/spam-web-app-pes2ug23cs485:v1
Untagged: rtk5/spam-web-app-pes2ug23cs485:v1
Deleted: sha256:15394677a102edb52274f0cd52e3781b648a5999bda5b031b47b09a9e7a242e
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker images
Info → U In Use
IMAGE                ID                DISK USAGE  CONTENT SIZE  EXTRA
hello-world:latest   05813aedc15f      25.9kB     9.52kB        U
python:3.10-slim     f5d029fe3914      185MB      47.1MB
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$
```

ss14

```
CC > CC-Lab-3 > PES2UG23CS485 > ml-docker-PES2UG23CS485 > ≡ answer.txt
1  PES2UG23CS485
2
3  docker rmi $(docker images -q)
```

SS15

```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker pull rtk5/spam-web-app-pes2ug23cs485:v1
v1: Pulling from rtk5/spam-web-app-pes2ug23cs485
e4a11fd88683: Pull complete
8376e3590094: Pull complete
14430d3fcd30: Pull complete
fc7443084902: Pull complete
448dd7f42667: Pull complete
ea56f685404a: Pull complete
38513bd72563: Pull complete
7d666ba4cdd5: Pull complete
b3ec39b36ae8: Pull complete
9acfea91974b: Pull complete
eedecaclee87: Download complete
Digest: sha256:15394677a102edb52274f0cd52e3781b648a5999bdaf5b031b47b09a9e7a242e
Status: Downloaded newer image for rtk5/spam-web-app-pes2ug23cs485:v1
docker.io/rtk5/spam-web-app-pes2ug23cs485:v1
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$ docker images
```

IMAGE	ID	DISK USAGE	CONTENT SIZE	EXTRA
rtk5/spam-web-app-pes2ug23cs485:v1	15394677a102	564MB	132MB	

```
rtk@RithvikYoga:/mnt/c/Users/rithv/sem6/CC/CC-Lab-3/PES2UG23CS485/ml-docker-PES2UG23CS485$
```

[Info](#) → [U](#) In Use