

CC LAB 3

PES2UG23CS099

Aryan Saproo

SS1

```
onlypros@onlypros-Legion-5-Pro-16ACH6H:~$ sudo 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/
onlypros@onlypros-Legion-5-Pro-16ACH6H:~$ 
```

SS2

```
PERMISSION DENIED: writing to /var/run/docker.sock while trying to connect to the Docker API at unix:///var/run/docker.sock
onlypros@onlypros-Legion-5-Pro-16ACH6H:~$ sudo docker ps
CONTAINER ID        IMAGE       COMMAND      CREATED     STATUS      PORTS      NAMES
onlypros@onlypros-Legion-5-Pro-16ACH6H:~$ sudo docker ps -a
CONTAINER ID        IMAGE       COMMAND      CREATED     STATUS      PORTS      NAMES
e6bc3291e2c5        hello-world   "/hello"    2 minutes ago   Exited (0) 2 minutes ago          jovial
_johnson
d22792c55e6b        hello-world   "/hello"    15 minutes ago   Exited (0) 15 minutes ago          unruff
led_jones
onlypros@onlypros-Legion-5-Pro-16ACH6H:~$ sudo docker images
          i  Info →  U  In Use
IMAGE           ID          DISK USAGE      CONTENT SIZE      EXTRA
hello-world:latest  05813aedc15f    25.9kB          9.52kB      U
onlypros@onlypros-Legion-5-Pro-16ACH6H:~$ 
```

SS3

```

onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099$ sudo docker pull python:3.10-slim
3.10-slim: Pulling from library/python
690eaffcf0e9: Pull complete
0c8d55a45c0d: Pull complete
d0d1977db485: Pull complete
63ebb7511fc1: Pull complete
13a7f29dd8f5: Download complete
a4e5ac615dd3: Download complete
Digest: sha256:218027ad8e5a6fb68245ccffcb8bcfa98d9891039bfedd53b1b4666dc48a4bb1
Status: Downloaded newer image for python:3.10-slim
docker.io/library/python:3.10-slim
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099$ sudo docker images



| IMAGE              | ID           | DISK USAGE | CONTENT SIZE | EXTRA |
|--------------------|--------------|------------|--------------|-------|
| hello-world:latest | 05813aedc15f | 25.9kB     | 9.52kB       |       |
| python:3.10-slim   | 218027ad8e5a | 185MB      | 47.1MB       |       |


onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099$ 

```

## SS4

```

onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker build -t s
pam-web-app-pes2ug23cs099 .
[+] Building 23.9s (12/12) FINISHED
  => [internal] load build definition from Dockerfile
  => => transferring dockerfile: 707B
  => [internal] load metadata for docker.io/library/python:3.10-slim
  => [internal] load .dockerrcignore
  => => transferring context: 2B
  => [1/7] FROM docker.io/library/python:3.10-slim@sha256:218027ad8e5a6fb68245ccffcb8bcfa98d989
  => => resolve docker.io/library/python:3.10-slim@sha256:218027ad8e5a6fb68245ccffcb8bcfa98d989
  => [internal] load build context
  => => transferring context: 399.80kB
  => [2/7] WORKDIR /app
  => [3/7] COPY app.py .
  => [4/7] COPY spam_classifier_model.pkl .
  => [5/7] COPY tfidf_vectorizer.pkl .
  => [6/7] COPY templates/ ./templates/
  => [7/7] RUN pip install --no-cache-dir flask scikit-learn joblib
  => exporting to image
  => => exporting layers
  => => exporting manifest sha256:35ebc1b23a25abfa1b67712b64169e69c487ad6dd2351776796750674d8ad
  => => exporting config sha256:699ff353f2c4e742e9c432620b0d580694d797b459904dc70dfea1b003dd8e2
  => => exporting attestation manifest sha256:113eeb2e072a0b09d03187ce6e78bec3139a27e4768e8ca9b
  => => exporting manifest list sha256:c88801352e57bb498bc7e2124273b61d1e24b26723680b6442cb3691
  => => naming to docker.io/library/spam-web-app-pes2ug23cs099:latest
  => => unpacking to docker.io/library/spam-web-app-pes2ug23cs099:latest
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker images
sudo: dockerimages: command not found
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker images



| IMAGE                             | ID           | DISK USAGE | CONTENT SIZE | EXTRA |
|-----------------------------------|--------------|------------|--------------|-------|
| hello-world:latest                | 05813aedc15f | 25.9kB     | 9.52kB       |       |
| python:3.10-slim                  | 218027ad8e5a | 185MB      | 47.1MB       |       |
| spam-web-app-pes2ug23cs099:latest | c88801352e57 | 541MB      | 125MB        |       |

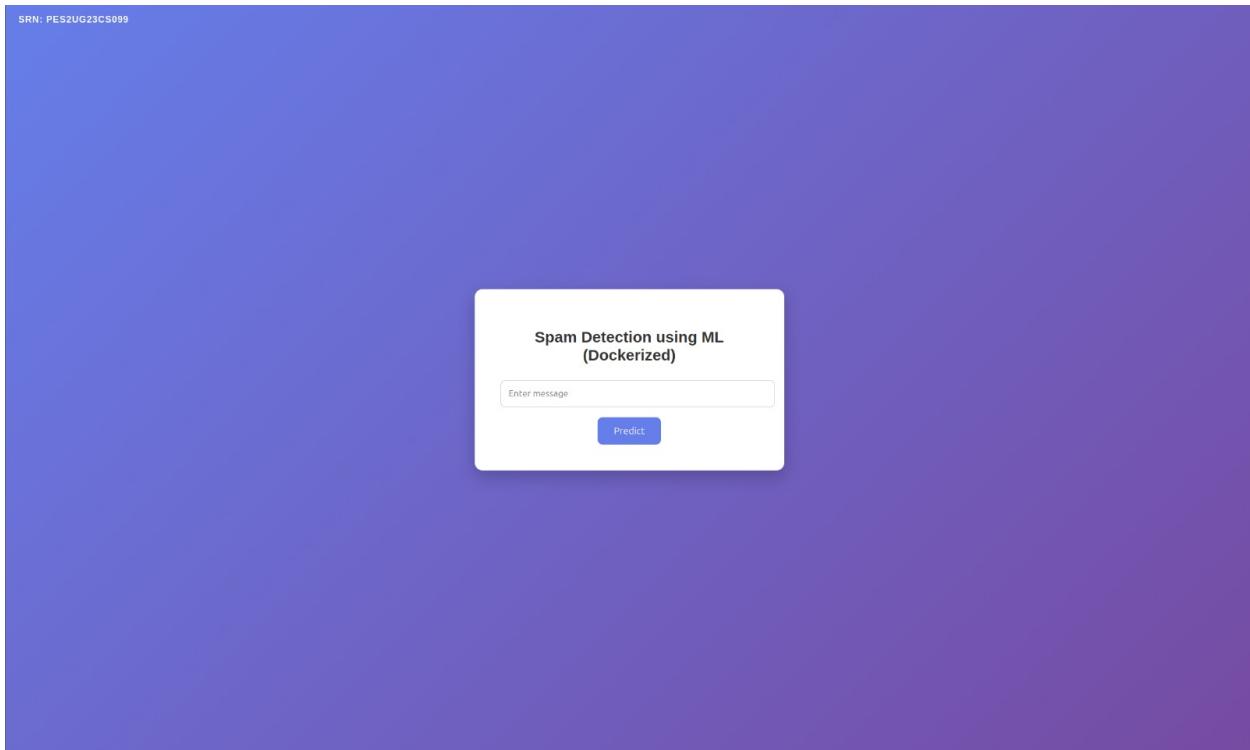

onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ 

```

## SS5

```
Run 'docker run --help' for more information
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker run -d -p
5000:5000 spam-web-app-pes2ug23cs099
3bd531ac50e551c282e11359df85c5849c70c53256b218edb32115966fa41213
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
NAMES
3bd531ac50e5 spam-web-app-pes2ug23cs099 "python app.py" 19 seconds ago Up 19 seconds 0.0.0.0:5000->5000
0/tcp, [::]:5000->5000/tcp nice_curren
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$
```

SS6



SS7

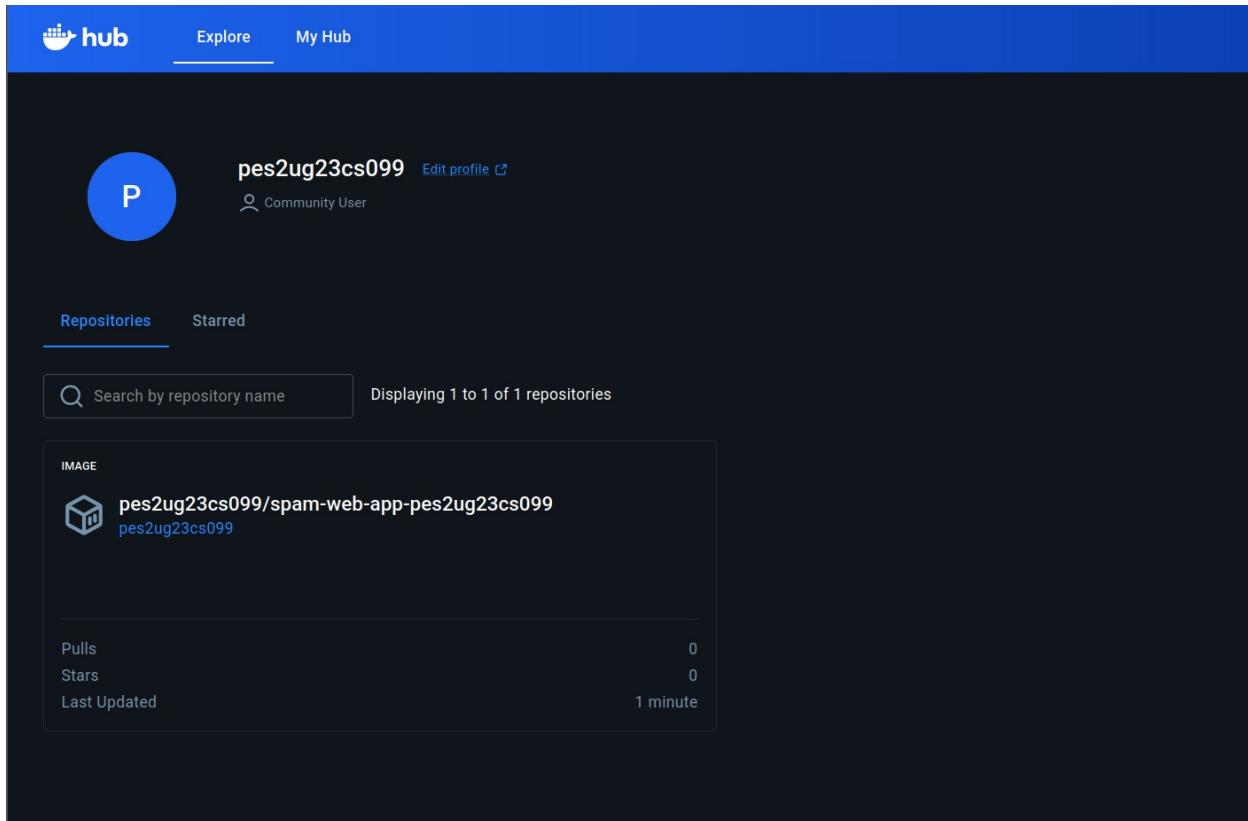
```
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker login
Authenticating with existing credentials... [Username: pes2ug23cs099]
💡 Info → To login with a different account, run 'docker logout' followed by 'docker login'

Login Succeeded
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$
```

## SS8

```
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker push pes2ug23cs099/spam-web-app-pes2ug23cs099:v1
The push refers to repository [docker.io/pes2ug23cs099/spam-web-app-pes2ug23cs099]
af3ed8363f45: Pushed
84d5aa572335: Pushed
15379a761e5b: Pushed
0c8d55a45c0d: Mounted from library/python
cae5bb9eb957: Pushed
b832d3003a10: Pushed
d0d1977db485: Mounted from library/python
63ebb7511fc1: Mounted from library/python
f2d80771eb1d: Pushed
3049afc8916b: Pushed
690eaffcf0e9: Mounted from library/python
v1: digest: sha256:840fcadae0e376f690c5803511e5364df0fa4b6ee5002b0c8b6dcc1c4b16437b size: 856
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$
```

## SS9



## SS10

```
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
90df039ccde spam-web-app-pes2ug23cs099 "python app.py" 11 minutes ago Up 11 minutes 0.0.0.0:5000->500
0/tcp, [::]:5000->5000/tcp sharp_brattain
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker stop 90df0
39ccde
90df039ccde
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ 
```

SS11

```
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
90df039ccde spam-web-app-pes2ug23cs099 "python app.py" 12 minutes ago Exited (137) 32 seconds ago
sharp_brattain
3bd531ac50e5 c88801352e57 "python app.py" 21 minutes ago Exited (137) 12 minutes ago
nice_curren
e6bc3291e2c5 hello-world "/hello" 39 minutes ago Exited (0) 39 minutes ago
jovial_johnson
d22792c55e6b hello-world "/hello" 52 minutes ago Exited (0) 52 minutes ago
unruffled_jones
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker rm 90df039
ccde
90df039ccde
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
3bd531ac50e5 c88801352e57 "python app.py" 22 minutes ago Exited (137) 13 minutes ago
nice_cu
rran
e6bc3291e2c5 hello-world "/hello" 39 minutes ago Exited (0) 39 minutes ago
jovial_
johnson
d22792c55e6b hello-world "/hello" 53 minutes ago Exited (0) 53 minutes ago
unruffl
ed_jones
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ 
```

SS12

```
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker images



| IMAGE                                       | ID           | DISK USAGE | CONTENT SIZE | EXTRA                                                                         |
|---------------------------------------------|--------------|------------|--------------|-------------------------------------------------------------------------------|
| hello-world:latest                          | 05813aedc15f | 25.9kB     | 9.52kB       | <span style="background-color: #007bff; color: white; padding: 2px;">U</span> |
| pes2ug23cs099/spam-web-app-pes2ug23cs099:v1 | 840fcadae0e3 | 541MB      | 125MB        |                                                                               |
| python:3.10-slim                            | 218027ad8e5a | 185MB      | 47.1MB       |                                                                               |
| spam-web-app-pes2ug23cs099:latest           | 840fcadae0e3 | 541MB      | 125MB        | <span style="background-color: #007bff; color: white; padding: 2px;">U</span> |


onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ docker rmi spam-web-ap
p-pes2ug23cs099:latest
permission denied while trying to connect to the docker API at unix:///var/run/docker.sock
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker rmi spam-w
eb-app-pes2ug23cs099:latest
Untagged: spam-web-app-pes2ug23cs099:latest
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker images



| IMAGE                                       | ID           | DISK USAGE | CONTENT SIZE | EXTRA                                                                         |
|---------------------------------------------|--------------|------------|--------------|-------------------------------------------------------------------------------|
| hello-world:latest                          | 05813aedc15f | 25.9kB     | 9.52kB       | <span style="background-color: #007bff; color: white; padding: 2px;">U</span> |
| pes2ug23cs099/spam-web-app-pes2ug23cs099:v1 | 840fcadae0e3 | 541MB      | 125MB        |                                                                               |
| python:3.10-slim                            | 218027ad8e5a | 185MB      | 47.1MB       |                                                                               |
| spam-web-app-pes2ug23cs099:latest           |              |            |              |                                                                               |


onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ 
```

## SS13

```
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker rmi spam-web-app-pes2ug23cs099:latest
Untagged: spam-web-app-pes2ug23cs099:latest
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker images
  Info → U In Use
IMAGE           ID          DISK USAGE   CONTENT SIZE   EXTRA
hello-world:latest 05813aedc15f    25.9kB      9.52kB      U
pes2ug23cs099/spam-web-app-pes2ug23cs099:v1 840fcadae0e3    541MB      125MB
python:3.10-slim  218027ad8e5a    185MB      47.1MB
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker rmi python:3.10-slim
Untagged: python:3.10-slim
Deleted: sha256:218027ad8e5a6fb68245ccffcb8bcfa98d9891039bfedd53b1b4666dc48a4bb1
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker rmi pes2ug23cs099/spam-web-app-pes2ug23cs099:v1
Untagged: pes2ug23cs099/spam-web-app-pes2ug23cs099:v1
Deleted: sha256:840fcadae0e376f690c5803511e5364df0fa4b6ee5002b0c8b6dcc1c4b16437b
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker images
  Info → U In Use
IMAGE           ID          DISK USAGE   CONTENT SIZE   EXTRA
hello-world:latest 05813aedc15f    25.9kB      9.52kB      U
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ 
```

## SS14

```
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker rmi spam-web-app-pes2ug23cs099:latest
Untagged: spam-web-app-pes2ug23cs099:latest
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker images
  Info → U In Use
IMAGE           ID          DISK USAGE   CONTENT SIZE   EXTRA
hello-world:latest 05813aedc15f    25.9kB      9.52kB      U
pes2ug23cs099/spam-web-app-pes2ug23cs099:v1 840fcadae0e3    541MB      125MB
python:3.10-slim  218027ad8e5a    185MB      47.1MB
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker rmi python:3.10-slim
Untagged: python:3.10-slim
Deleted: sha256:218027ad8e5a6fb68245ccffcb8bcfa98d9891039bfedd53b1b4666dc48a4bb1
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker rmi pes2ug23cs099/spam-web-app-pes2ug23cs099:v1
Untagged: pes2ug23cs099/spam-web-app-pes2ug23cs099:v1
Deleted: sha256:840fcadae0e376f690c5803511e5364df0fa4b6ee5002b0c8b6dcc1c4b16437b
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker images
  Info → U In Use
IMAGE           ID          DISK USAGE   CONTENT SIZE   EXTRA
hello-world:latest 05813aedc15f    25.9kB      9.52kB      U
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ 
```

```
Open ▾ PES2UG23CS099 answer sudo Draft
PES2UG23CS099
//answer
sudo docker rmi $(sudo docker images -q)
Deleted: sha256:1267b940997f5976e7d8067ea3db7b45e5e57de17788327a821afcc816887afc
```

SS15

```
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker pull pes2ug23cs099/spam-web-app-pes2ug23cs099:v1
v1: Pulling from pes2ug23cs099/spam-web-app-pes2ug23cs099
cae5bb9eb957: Pull complete
3049afc8916b: Pull complete
15379a761e5b: Download complete
Digest: sha256:840fcadae0e376f690c5803511e5364df0fa4b6ee5002b0c8b6dcc1c4b16437b
Status: Downloaded newer image for pes2ug23cs099/spam-web-app-pes2ug23cs099:v1
docker.io/pes2ug23cs099/spam-web-app-pes2ug23cs099:v1
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$ sudo docker images
          i Info → U In Use
IMAGE           ID      DISK USAGE   CONTENT SIZE   EXTRA
hello-world:latest 05813aedc15f    25.9kB     9.52kB   U
pes2ug23cs099/spam-web-app-pes2ug23cs099:v1 840fcadae0e3    541MB     125MB   U
onlypros@onlypros-Legion-5-Pro-16ACH6H:~/Downloads/PES2UG23CS099/ml-docker-PES2UG23CS099$
```