

SNEHA VERMA
PES1UG23AM309
CC-LAB 3
SS 1:

```
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
17eec7bbc9d7: Pull complete
ea52d2000f90: Download complete
Digest: sha256:05813aedc15fb7b4d732e1be879d3252c1c9c25d885824f6295cab4538cb85cd
Status: Downloaded newer image for hello-world:latest
```

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/>

SS-2

```
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
5e3005064afd   hello-world "/hello"                About a minute ago    Exited (0) About a minute ago    nice_sutherland
b9c9e32725ab   mongo     "docker-entrypoint.s..." 4 weeks ago    Exited (255) 4 days ago    PES1UG21CSXXX
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker images
REPOSITORY    TAG        IMAGE ID      CREATED        SIZE
mongo         latest    7f5bbdafebde 6 weeks ago    1.26GB
hello-world   latest    05813aedc15f 6 months ago    25.9kB
```

SS-3

```
hello-world   latest    05813aedc15f 6 months ago    25.9kB
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker pull python:3.10-slim
3.10-slim: Pulling from library/python
63ebb7511fc1: Pull complete
690eaffcf0e9: Pull complete
d0d1977db485: Pull complete
0c8d55a45c0d: 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
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker images
REPOSITORY    TAG        IMAGE ID      CREATED        SIZE
python        3.10-slim  218027ad8e5a 46 hours ago    185MB
mongo         latest    7f5bbdafebde 7 weeks ago    1.26GB
hello-world   latest    05813aedc15f 6 months ago    25.9kB
```

SS-4

```
Default x + v
:00:00
Collecting numpy>=1.22.0
  Downloading numpy-2.2.6-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (16.8 MB)
  16.8/16.8 MB 4.5 MB/s eta 0
:00:00
Installing collected packages: threadpoolctl, numpy, markupsafe, joblib, itsdangerous, click, blinker, werkzeug, scipy, jinja2, scikit-learn, flask
Successfully installed blinker-1.9.0 click-8.3.1 flask-3.1.2 itsdangerous-2.2.0 jinja2-3.1.6 joblib-1.5.3 markupsafe-3.0.3 numpy-2.2.6 scikit-learn-1.7.2 scipy-1.15.3 threadpoolctl-3.6.0 werkzeug-3.1.5
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv
[notice] A new release of pip is available: 23.0.1 -> 26.0.1
[notice] To update, run: pip install --upgrade pip
--> Removed intermediate container c5d4e50f152a
--> 152a8144f086
Step 8/9 : EXPOSE 5000
--> Running in 13b028f21cda
--> Removed intermediate container 13b028f21cda
--> c32f1f02ac06
Step 9/9 : CMD ["python", "app.py"]
--> Running in 6fa4b23050d1
--> Removed intermediate container 6fa4b23050d1
--> d1464d3ab944
Successfully built d1464d3ab944
Successfully tagged spam-web-app-pes1ug23am309:latest
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$
```

SS-5

```
Default x + v
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker run -d -p 5000:5000 spam-web-app-pes1ug23am309
f967c543aad42a34d5e15bdd98904cf78438bb2903fd6cadfa44af2226fe8274
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS
3ab615a881ae   rabbitmq:3-management              "docker-entrypoint.s..." 4 hours ago    Up 4 hours    4369/tcp, 5671-5672/tcp, 15671-15672/tcp, 15691-15692/tcp, 25672/tcp
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$
```

SS-6

PES1UG23AM309

Spam Detection using ML (Dockerized)

Predict

Prediction: NOT SPAM

PES1UG23AM309

Spam Detection using ML (Dockerized)

Predict

Prediction: NOT SPAM

SS-7

```
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker login
docker: unknown command: docker login

Run 'docker --help' for more information
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker login
Authenticating with existing credentials... [Username: peslug23am309]

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

Login Succeeded
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ |
```

SS-8

```
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker tag spam-web-app-peslug23am309 \
> sneha/spam-web-app-peslug23am309
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
spam-web-app-peslug23am309    latest             cb54221fb55f       10 minutes ago     381MB
sneha/spam-web-app-peslug23am309  latest             cb54221fb55f       10 minutes ago     381MB
<none>                  <none>             b46e2ab1595a       About an hour ago   381MB
<none>                  <none>             d1464d3ab944       2 hours ago        381MB
docker-advanced-lab_user-a    latest             e26f08f6b8f7       5 hours ago        130MB
docker-advanced-lab_user-b    latest             e26f08f6b8f7       5 hours ago        130MB
chat-app                 latest             3ada69e283b3       6 hours ago        130MB
python                  3.10-slim          988b1bc80158       43 hours ago       122MB
rabbitmq                 3-management       de912cbbf07f       2 months ago       252MB
python                  3.9-slim           085da638e1b8       3 months ago       122MB
hello-world              latest             1b44b5a3e06a       6 months ago       10.1kB
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ |
```

SS-9

```
PES1UG23AM309@h:~$ docker push sneha/spam-web-app-peslug23am309:v1
The push refers to repository [docker.io/sneha/spam-web-app-peslug23am309]
Get "https://registry-1.docker.io/v2/": dial tcp: lookup registry-1.docker.io on 127.0.0.53:53: server misbehaving
PES1UG23AM309@h:~$
```

SS-10

The screenshot shows the Docker Hub interface for a repository named `sneha2323/spam-web-app-peslug23am309`. The repository is created about 2 hours ago. The 'Tags' section shows 'Incomplete' and 'Pushed images appear here.' The 'Repository overview' section also shows 'Incomplete' and 'An overview describes what your image does and how to run it. It displays in the public view of your repository once you have pushed some content.'

SS-11

```
PES1UG23AM309@h:~$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS
NAMES
PES1UG23AM309@h:~$ docker stop cb54221fb55f
Error response from daemon: No such container: cb54221fb55f
PES1UG23AM309@h:~$ docker ps -q
PES1UG23AM309@h:~$ docker stop 489269d434aa49d1d44accc3e7d4b8bcb
a6a2d3c024f316bbe7733fc9f9a7f42
489269d434aa49d1d44accc3e7d4b8bcb a6a2d3c024f316bbe7733fc9f9a7f42
PES1UG23AM309@h:~$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS
NAMES
PES1UG23AM309@h:~$ |
```

SS-12

```
PES1UG23AM309@h:~$ docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
489269d434aa  mongo     "docker-entrypoint.s..." 4 weeks ago   Created              PES1UG23AM309
b9c9e32725ab  mongo     "docker-entrypoint.s..." 4 weeks ago   Exited (255) 4 days ago  0.0.0.0:27017->27017/tcp PES1UG21CSXXX
PES1UG23AM309@h:~$ docker rm 489269d434aa49d1d44accc3e7d4b8bcb a6a2d3c024f316bbe7733fc9f9a7f42
489269d434aa49d1d44accc3e7d4b8bcb a6a2d3c024f316bbe7733fc9f9a7f42
PES1UG23AM309@h:~$ docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
b9c9e32725ab  mongo     "docker-entrypoint.s..." 4 weeks ago   Exited (255) 4 days ago  0.0.0.0:27017->27017/tcp PES1UG21CSXXX
PES1UG23AM309@h:~$
```

SS-13

```
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker
images
REPOSITORY    TAG          IMAGE ID      CREATED      SIZE
mongo         latest      7f5bbdafebde  6 weeks ago  1.26GB
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker
rmi spam-web-app-peslug23am309
Error response from daemon: No such image: spam-web-app-peslug23
am309:latest
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker
images
REPOSITORY    TAG          IMAGE ID      CREATED      SIZE
mongo         latest      7f5bbdafebde  6 weeks ago  1.26GB
```

SS-14

```
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker rmi spam-web-app-peslug23am309
Error response from daemon: No such image: spam-web-app-peslug23am309:latest
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker images
REPOSITORY    TAG          IMAGE ID      CREATED      SIZE
mongo         latest      7f5bbdafebde  6 weeks ago  1.26GB
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker rmi spam-web-app-peslug23am309
Error response from daemon: No such image: spam-web-app-peslug23am309:latest
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker rmi sneha/spam-web-app-peslug23am309:v1
Error response from daemon: No such image: sneha/spam-web-app-peslug23am309:v1
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker images
REPOSITORY    TAG          IMAGE ID      CREATED      SIZE
mongo         latest      7f5bbdafebde  6 weeks ago  1.26GB
```

SS-15:

```
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309/ml-docker-PES1UG23AM309$ docker pull mongo
Using default tag: latest
request returned 500 Internal Server Error for API route and version http://%2Fvar%2Frun%2Fdocker.sock/v1.50/images/create?fromImage=docker.io%2
Flibrary%2Fmongo&tag=latest, check if the server supports the requested API version
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309/ml-docker-PES1UG23AM309$ docker images
request returned 500 Internal Server Error for API route and version http://%2Fvar%2Frun%2Fdocker.sock/_ping, check if the server supports the r
equested API version
```