

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
PES1UG23AM309h     ~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
5e3005064afdf      hello-world        "/hello"           About a minute ago   Exited (0) About a minute ago
b9c9e32725ab       mongo              "docker-entrypoint.s..."  4 weeks ago        Exited (255) 4 days ago
PES1UG23AM309h     ~/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
690eaaffcf0e9: 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

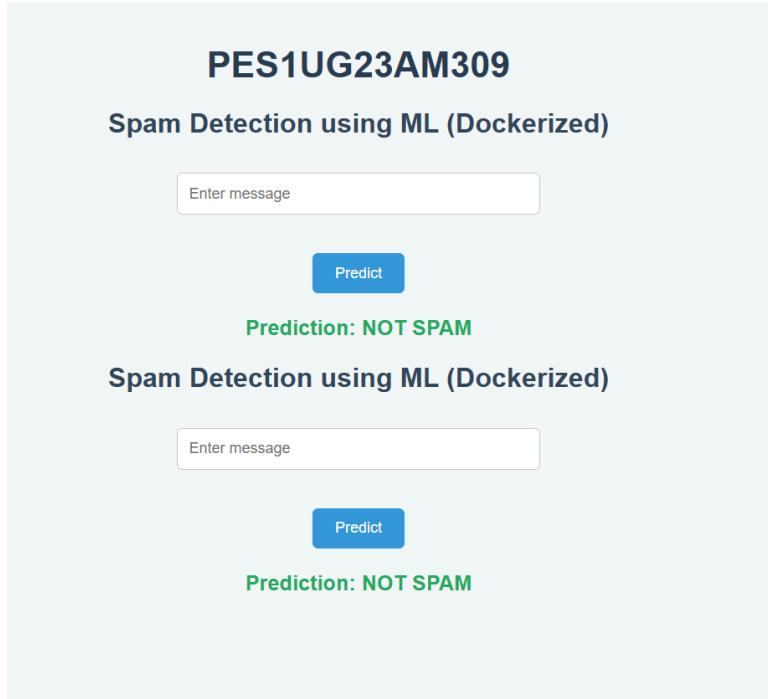
```
:00:00
Collecting numpy>=1.22.0
  Downloading numpy-2.2.6-cp310-cp310-manylinux_2_17_x86_64.manylinux2014
_x86_64.whl (16.8 MB)
----- 16.8/16.8 MB 4.5 MB/s eta 0
:00:00
Installing collected packages: threadpoolctl, numpy, markupsafe, joblib,
itsdangerous, click, blinker, werkzeug, scipy, jinja2, scikit-learn, flas
k
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-lear
n-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 recommen
ded to use a virtual environment instead: https://pip.pypa.io/warnings/ve
nv

[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

```
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
 NAMES
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   docker-advanced-lab_rabbitmq_1
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$
```

SS-6



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  988b1bbc80158  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

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

| 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 |
| 489269d434aa49d1d44accc3e7d4b8bcb a6a2d3c024f316bbe7733fc9f9a7f42 | | | | | | | |
| PES1UG23AM309@h:~\$ | | | | | | | |
| PES1UG23AM309@h:~\$ docker rm 489269d434aa49d1d44accc3e7d4b8bcb a6a2d3c024f316bbe7733fc9f9a7f42 | | | | | | | |
| PES1UG23AM309@h:~\$ | | | | | | | |
| 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-pes1ug23am309
Error response from daemon: No such image: spam-web-app-pes1ug23
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-pes1ug23am309
Error response from daemon: No such image: spam-web-app-pes1ug23am309: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-pes1ug23am309
Error response from daemon: No such image: spam-web-app-pes1ug23am309:latest
PES1UG23AM309@h:~/PES1UG23AM309/ml-docker-PES1UG23AM309$ docker rmi sneha/spam-web-app-pes1ug23am309:v1
Error response from daemon: No such image: sneha/spam-web-app-pes1ug23am309: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
```