

Department of Information Technology

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Semester: V Student ID:24204018

Class / Branch: TEIT/Div C Date of Performance: 1/8/25 Subject: DevOps Lab Date of Submission: 1/8/25

Name of Instructor: Prof. Sujata Oak

Experiment No. 08

Aim: To demonstrate container lifecycle using various docker commands.

Outputs:

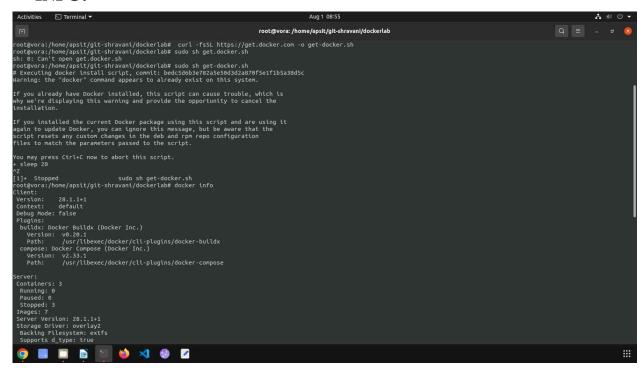
Create dockerlab directory:

```
Activities Terminal * Aug 1 08:50

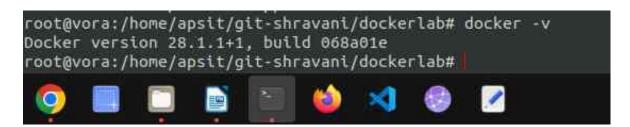
root@vora: /home/apsit/git-shravani/dockerlab

apsit@vora:-$ sudo su
[sudo] password for apsit:
root@vora:/home/apsit# sudo git-shravanis
sudo: git-shravanis: command not found
root@vora:/home/apsit# git-shravanis
git-shravanis: command not found
root@vora:/home/apsit# cd git-shravanis
bash: cd: git-shravanis: No such file or directory
root@vora:/home/apsit# cd git-shravani
root@vora:/home/apsit/git-shravani# mkdir dockerlab
root@vora:/home/apsit/git-shravani# cd dockerlab
root@vora:/home/apsit/git-shravani/dockerlab# |
```

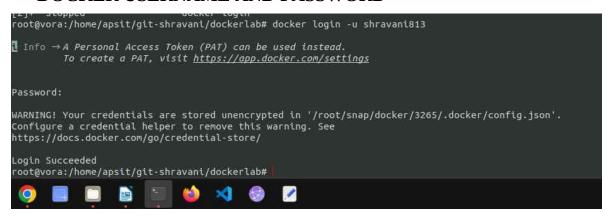
INFO:



VERSION:



DOCKER USERNAME AND PASSWORD



```
root@vora:/home/apsit/git-shravani/dockerlab# docker container ls
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
root@vora:/home/apsit/git-shravani/dockerlab# docker netwrok ls
docker: unknown command: docker netwrok
                                                                                                          NAMES
Run 'docker
                   --help' for more information
root@vora:/home/apsit/git-shravani/dockerlab# docker network ls
NETWORK ID NAME DRIVER SCOPE
2d997f23d919
                        bridge
                                         bridge
                                                         local
c97eb161f9d3
                        host
                                                         local
1a5adc6547dc
                                        null
                                                         local
root@vora:/home/apsit/git-shravani/dockerlab#
                               ===
                                                           \propto
```

```
root@vora:/home/apsit/git-shravani/dockerlab# docker images
                                                      IMAGE ID
245a6c909dc0
REPOSITORY
                                          TAG
                                                                        CREATED
                                                                                            SIZE
                                                                        9 days ago
9 days ago
                                                                                            921MB
mysql
                                           <none>
                                                                                            921MB
mysql
                                           latest
                                                       fe7f726d39a6
                                                                        2 weeks ago
7 weeks ago
                                                       65ae7a6f3544
                                                                                            78.1MB
                                           latest
python
                                           latest
                                                       4bbf6d52fe8d
                                                                                            1.02GB
                                                                        3 months ago
6 months ago
23 months ago
apsithub.apsit.edu.in/network-lab
                                           latest
                                                      ee8119bcdf21
                                                                                            2.83GB
hello-world
                                           latest
                                                       74cc54e27dc4
                                                                                            10.1kB
                                                       dc5df51c0ffc
sonarqube
                                           latest
                                                                                            702MB
root@vora:/home/apsit/git-shravani/dockerlab#
                                          ×
                                                         1
```

DELETE IMAGES:

```
root@vora:/home/apsit/git-shravani/dockerlab# docker rmi -f mysql
Untagged: mysql:latest
Untagged: mysql@sha256:082063dca94535c76b91c6ef9b9f6748810e546887af5e8574a8cfa11eace184
Deleted: sha256:fe7f726d39a659b3a7b82c231211e334c568ffce9a14569a7b4618d7c5846e08
root@vora:/home/apsit/git-shravani/dockerlab#
```

UBUNTU IMAGE CREATED

```
Run 'docker run --nelp' for more information
root@vora:/home/apsit/git-shravani/dockerlab# docker container run ubuntu cat /etc/os-release
PRETTY_NAME="Ubuntu 24.04.2 LTS"
NAME="Ubuntu"
VERSION_ID="24.04"
VERSION="24.04.2 LTS (Noble Numbat)"
VERSION="24.04.2 LTS (Noble Numbat)"
VERSION_CODENAME=noble
ID=ubuntu
ID_LIKE=debian
HOME_URL="https://www.ubuntu.com/"
SUPPORT_URL="https://help.ubuntu.com/"
BUG_REPORT_URL="https://bugs.launchpad.net/ubuntu/"
PRIVACY_POLICY_URL="https://www.ubuntu.com/legal/terms-and-policies/privacy-policy"
UBUNTU_CODENAME=noble
LOGO=ubuntu-logo
root@vora:/home/apsit/git-shravani/dockerlab#
```

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)

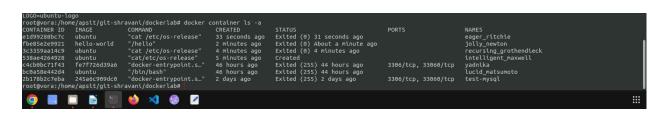
3. The Docker daemon created a new container from that image which runs the executable that produces the output you are currently reading.

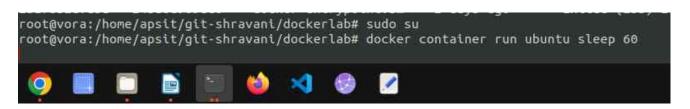
4. The Docker daemon streamed that output to the Docker client, which sent it to your terminal.

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

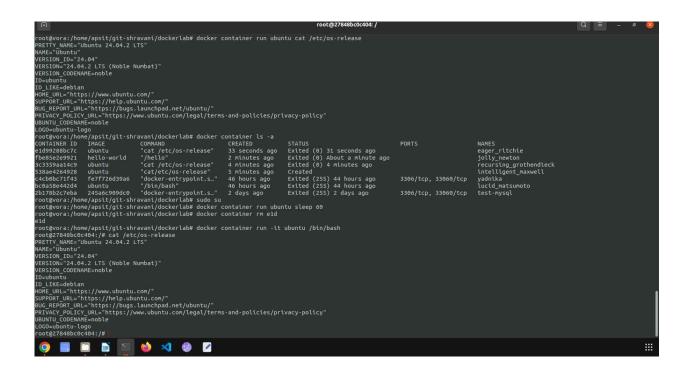
Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/
root@vora:/home/apsit/git-shravani/dockerlab#









REMOVING THE CONTAINERS:

```
----
root@vora:/home/apsit/git-shravani/dockerlab# docker container ls -aq
27848bc0c404
85fcbc2da09e
fbe85e2e9921
3c3359aa14c9
538ae4264928
c4cb0bc71f43
2b178b2c7eba
root@vora:/home/apsit/git-shravani/dockerlab# docker container rm $(docker container ls -aq)
27848bc0c404
85fcbc2da09e
fbe85e2e9921
3c3359aa14c9
538ae4264928
c4cb0bc71f43
bc0a58e442d4
2b178b2c7eba
root@vora:/home/apsit/git-shravani/dockerlab# docker container ls -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
root@vora:/home/apsit/git-shravani/dockerlab#|
                                           ×
                                                                    /
```

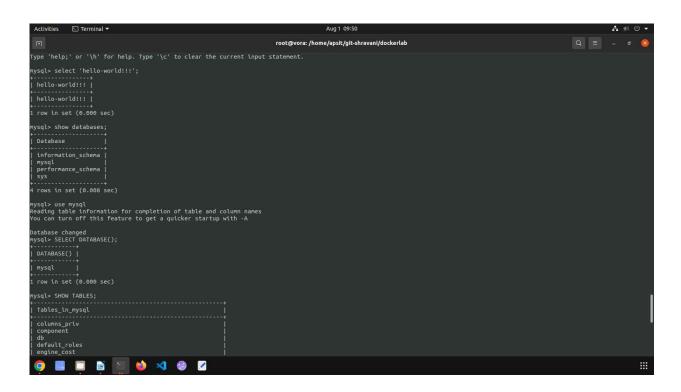
```
root@vora:/home/apsit/git-shravani/dockerlab# docker container ls -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
root@vora:/home/apsit/git-shravani/dockerlab# docker pull mysql:latest
latest: Pulling from library/mysql
aea90c3a51a3: Pull complete
afaae28bbee0: Pull complete
2ba13c6c03c3: Pull complete
31c5b5c14efc: Pull complete
938fdecc6487: Pull complete
19f77cf53703: Pull complete
6c4bb10a796d: Pull complete
6c4bb10a796d: Pull complete
468bb678f509: Pull complete
90fd4b47993e: Pull complete
6dfd9f336bec: Pull complete
5dfd9f336bec: Pull complete
5dfd9f336bec: Pull complete
6dfd9f3xsco: Double one of the complete
bigest: sha256:082063dca94535c76b91c6ef9b9f6748810e546887af5e8574a8cfa11eace184
Status: Downloaded newer image for mysql:latest
coot@vora:/home/apsit/git-shravani/dockerlab# docker images
REPOSITORY
TAG IMAGE ID CREATED SIZ
mysql Latest fe7f726d39a6 9 days ago 921
                                                                                                                                                                                                                                                                                              CREATED
9 days ago
9 days ago
2 weeks ago
7 weeks ago
3 months ago
6 months ago
23 months ago
                                                                                                                                                                                                                          IMAGE ID
fe7f726d39a6
245a6c909dc0
                                                                                                                                                                                                                                                                                                                                                                             SIZE
921MB
921MB
                                                                                                                                                                            TAG
latest
  mysql
ubuntu
python
                                                                                                                                                                             <none>
                                                                                                                                                                             latest
latest
                                                                                                                                                                                                                          65ae7a6f3544
4bbf6d52fe8d
                                                                                                                                                                                                                                                                                                                                                                              78.1MB
1.02GB
  apsithub.apsit.edu.in/network-lab
hello-world
sonarqube
                                                                                                                                                                                                                          ee8119bcdf21
74cc54e27dc4
dc5df51c0ffc
                                                                                                                                                                             latest
                                                                                                                                                                                                                                                                                                                                                                              2.83GB
                                                                                                                                                                                                                                                                                                                                                                              10.1kB
702MB
      oot@vora:/home/apsit/git-shravani/dockerlab#
                                                                                                                                                                           ×
                                                                                                                                                                                                                                    1
```

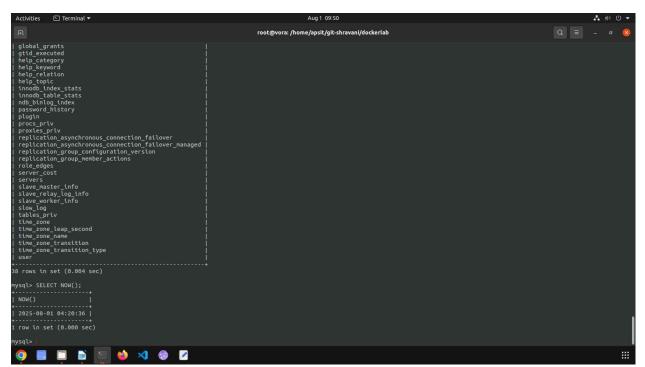
first terminal:

root@vora:/home/apsit/git-shravani/dockerlab# docker run --name test-shravanis -e MYSQL_ROOT_PASSWORD=shravani -d mysql bd7a635e0464a4f26e3711833391b7d59edcd301d52a9fc3af9272dbf4fa68f9 root@vora:/home/apsit/git-shravani/dockerlab#

second terminal:

root@vora:/home/apsit# docker container ls'
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
27848bc0c404 ubuntu "/bin/bash" 2 minutes ago Up 2 minutes suspicious_hamilton
root@vora:/home/apsit# docker container ls -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
bd7a635e0464 mysql "docker-entrypoint.s..." 47 seconds ago Up 47 seconds 3306/tcp, 33060/tcp test-shravanis
root@vora:/home/apsit#





Conclusion: In this experiments student have learnt how to deal with containerization technology using various docker commands.