

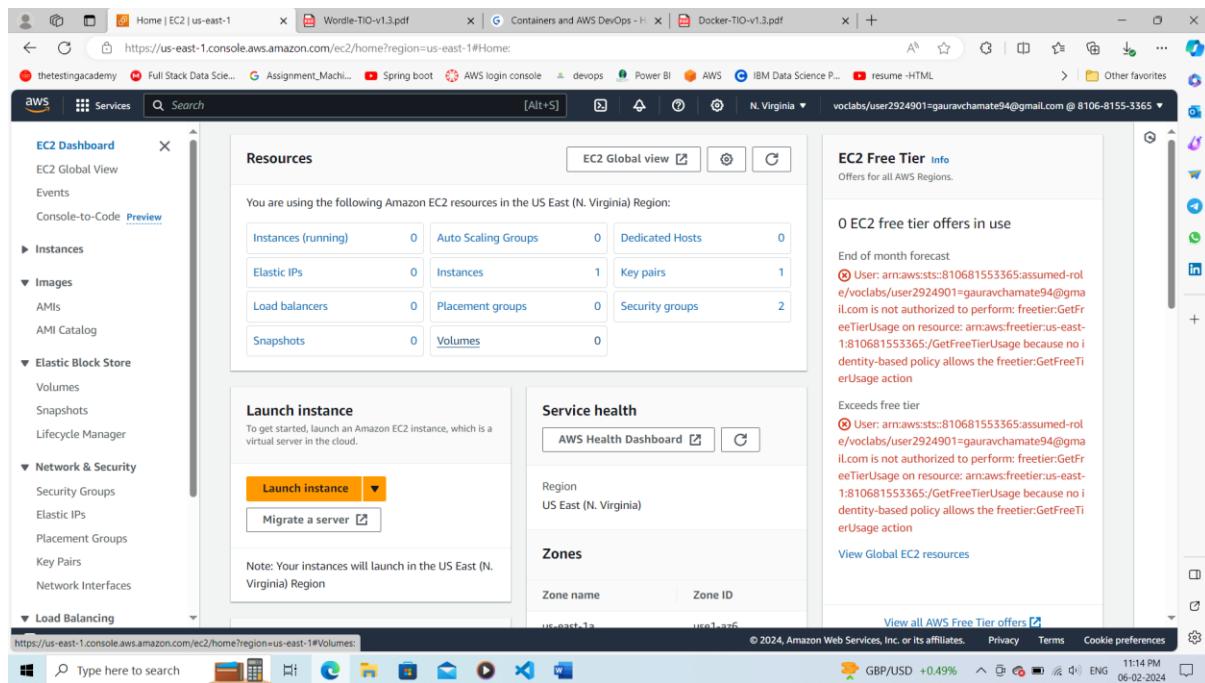
Try it out objective Use this hands-on to learn how to install docker, creating multiple containers from existing images and creating a custom image using a docker file.

The goal Following are the goals of this hands-on:

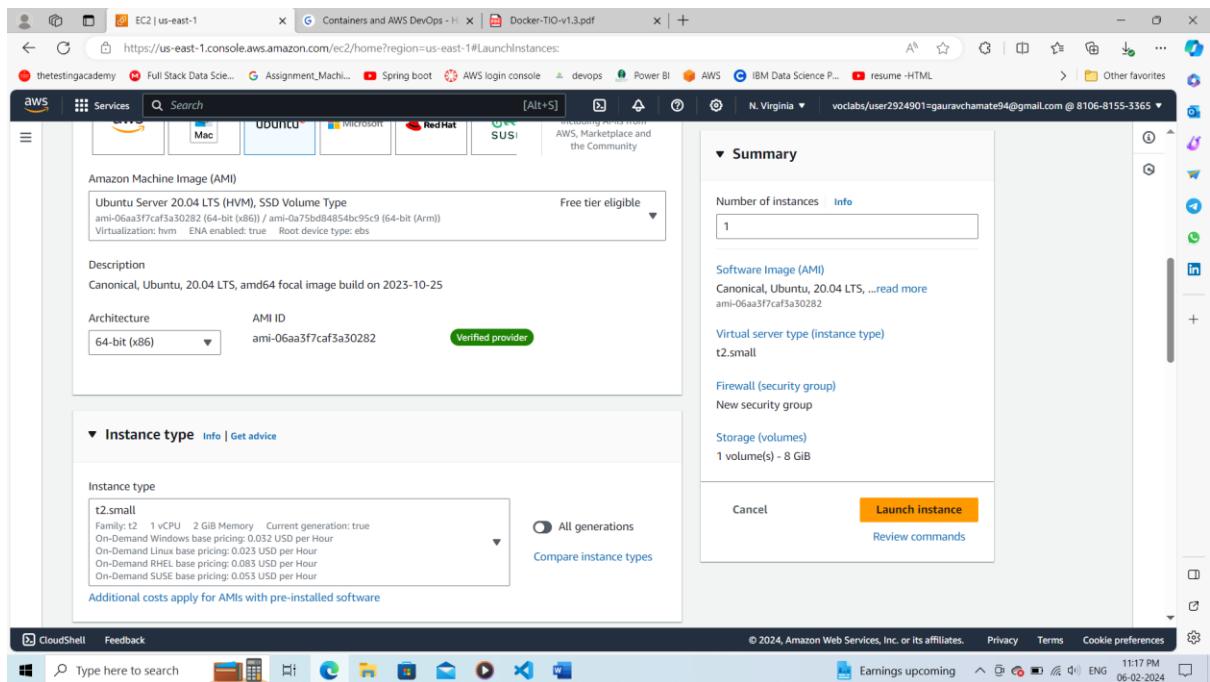
1. Working knowledge of EC2 instances with Ubuntu  
Installing docker from scratch  
Working with images and containers  
Understanding the docker ecosystem

#### A. Hands-on: Launch an Instance

1. Open the EC2 management console at <https://console.aws.amazon.com/ec2/> (you will be required to sign in)



2. Change the region to N Virginia (if it is not already selected).
3. From the EC2 management console, click on Launch Instance.
4. In Name and Tags field, type out any name of your instance
5. Then choose an Amazon Machine Image (AMI) page that displays a list of basic configurations.  
Click on Ubuntu and select Ubuntu Server 20.04 LTS.
6. On the Choose an Instance Type page, select the t2.small instance type.

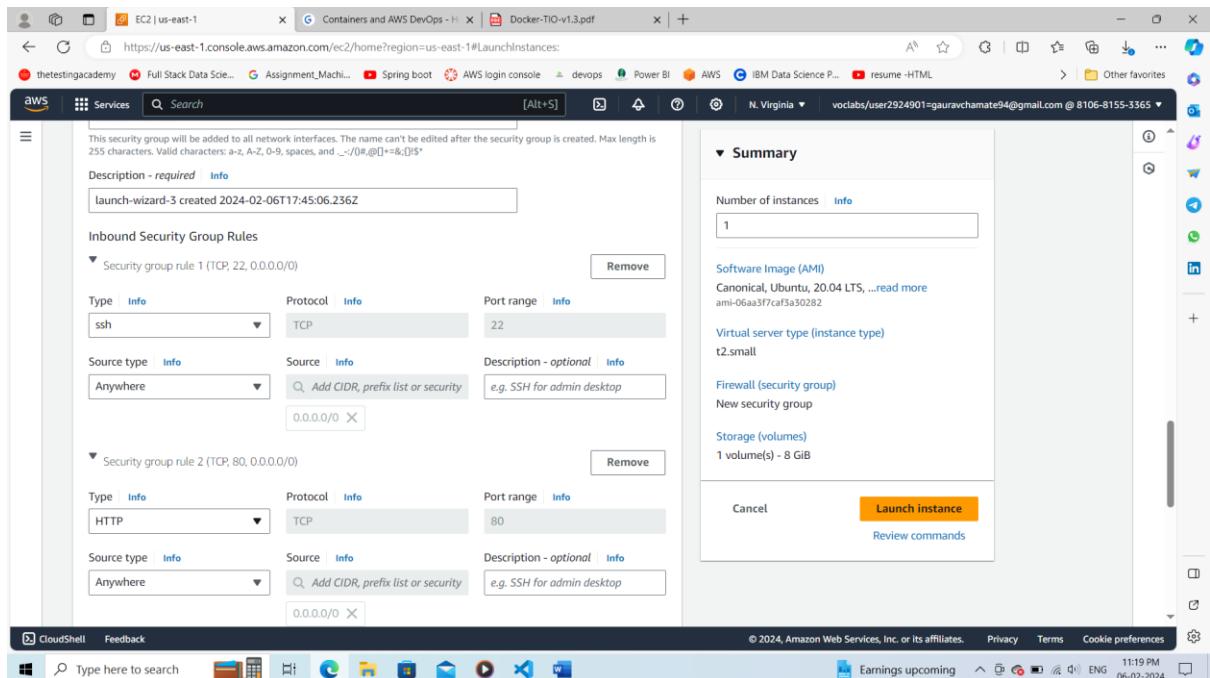


7. Under Key pair (login), click on create a new key pair

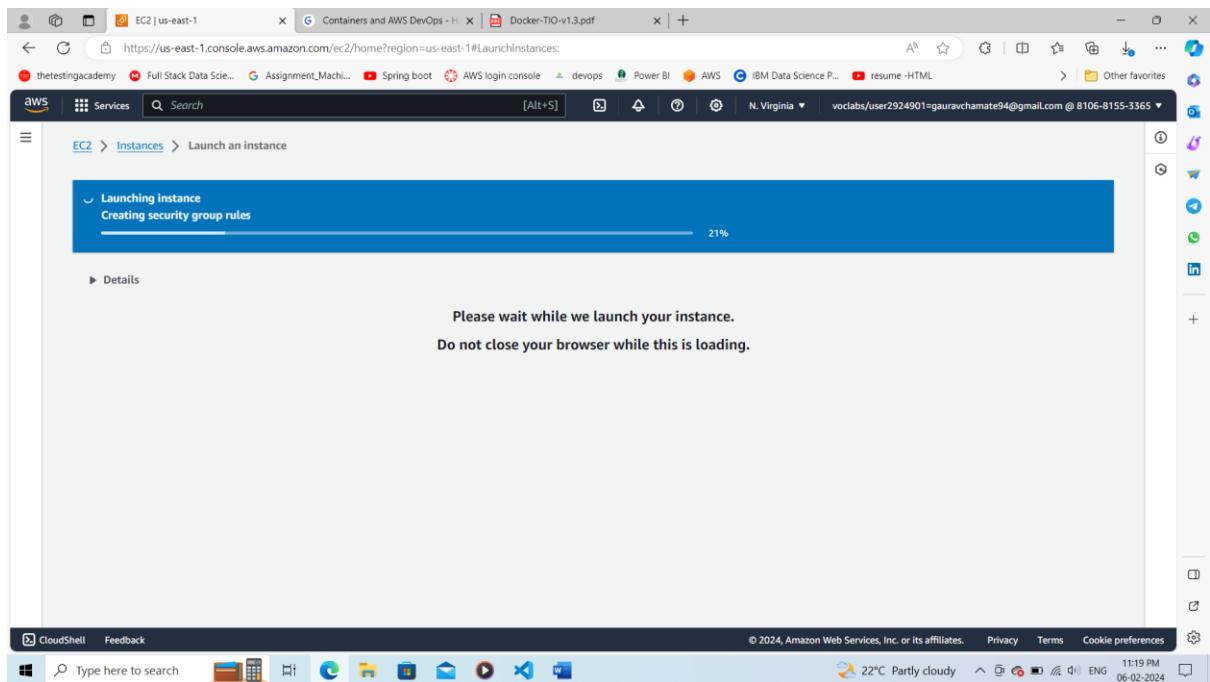
8. Enter the key pair name of your choice, and then click on Create key pair.

9. Under Network settings, click on Edit. 10. Port 22 for SSH should already be present in the security group. Click on Add security group rule and create the rule with the following parameters a. Type :

HTTP b. Port Range : 80 c. Source Type : Anywhere



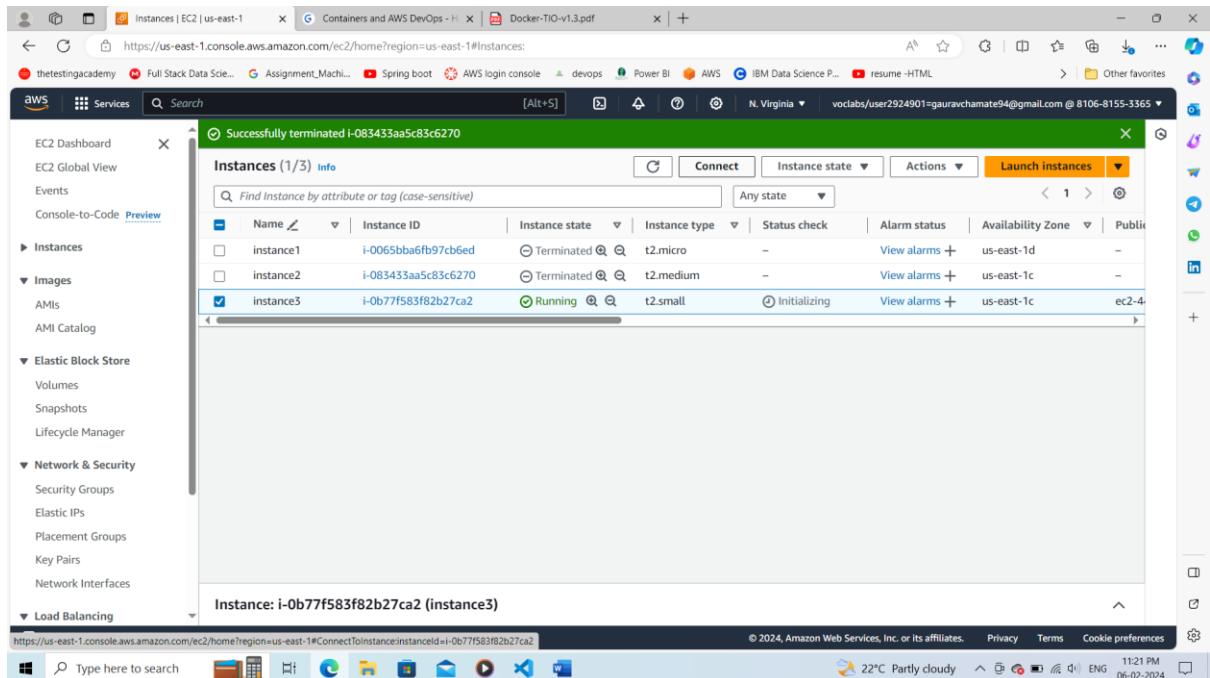
11. At last, click on Launch instance.



## B. Hands-on: Installation of docker

1. Select your running instance by clicking on the checkbox present on the left side.

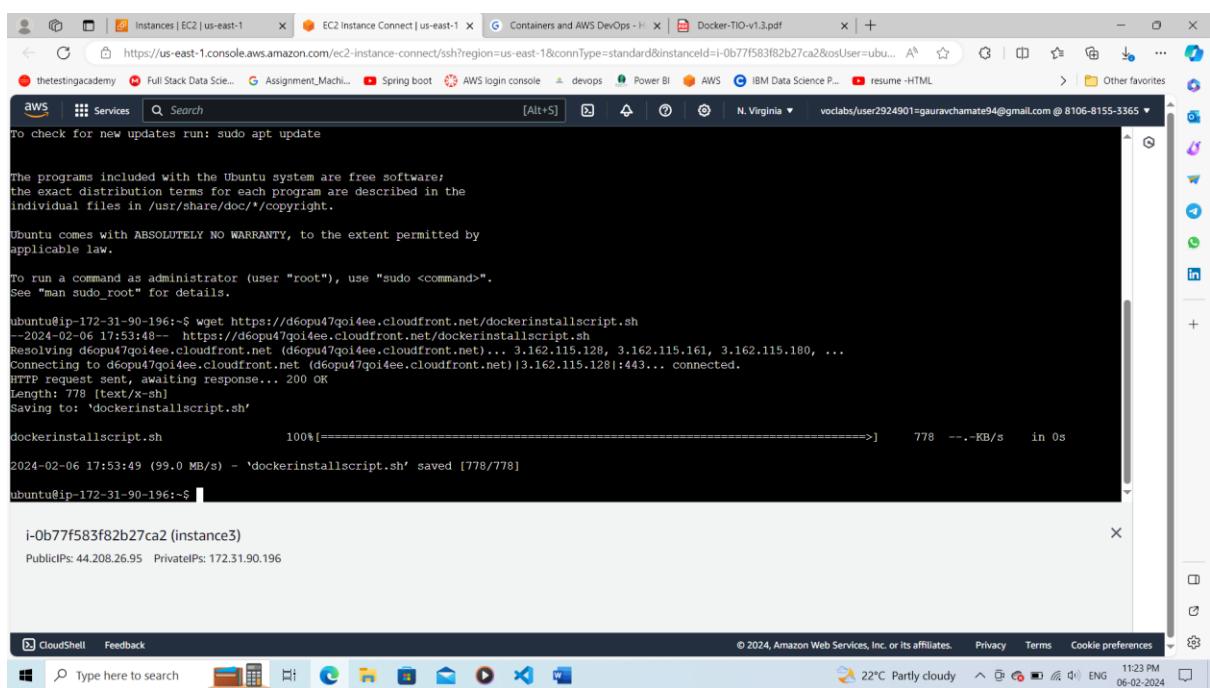
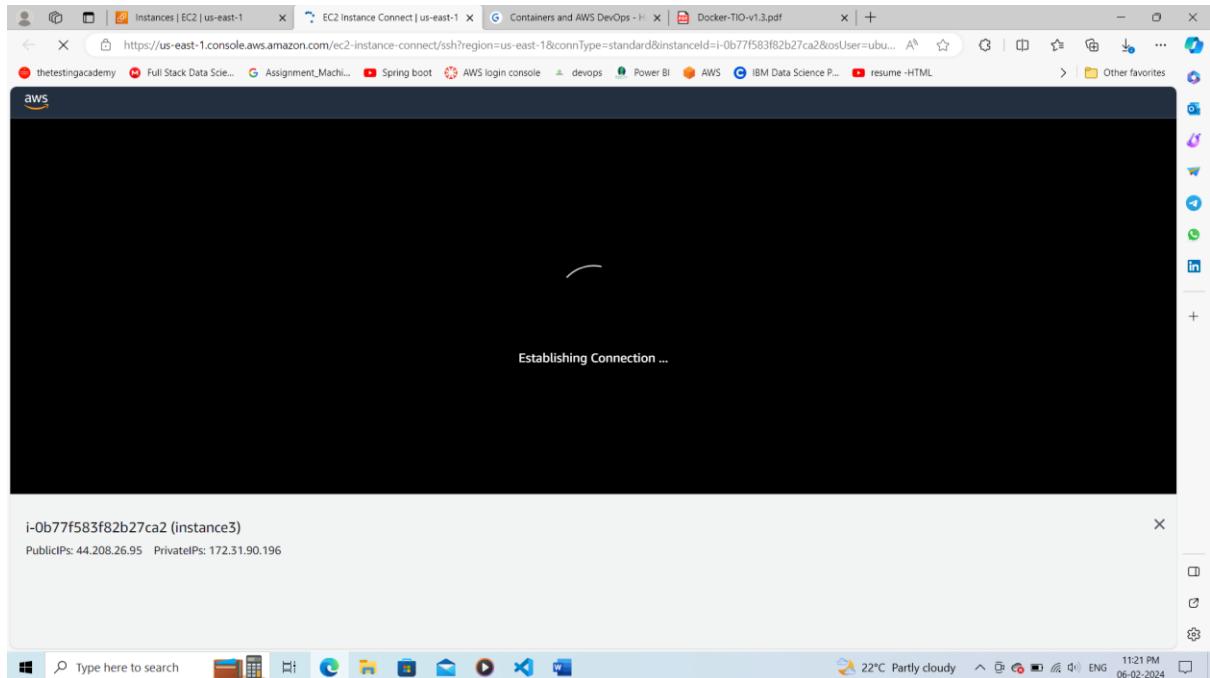
2. Click on Connect button.



3. Click on the Connect button again present at the bottom of the page. NOTE: You must be under 'EC2 Instance Connect'

4. This will land you to the EC2 Instance Connect browser terminal.

5. Execute the below commands one by one in the terminal window. NOTE: You are already in your EC2 server, you need not SSH again



```

Unpacking docker-ce (5:25.0.2-1~ubuntu.20.04-focal) ...
Selecting previously unselected package docker-ce-rootless-extras.
Preparing to unpack .../5-docker-ce-rootless-extras_5%3a25.0.2-1~ubuntu.20.04-focal_amd64.deb ...
Unpacking docker-ce-rootless-extras (5:25.0.2-1~ubuntu.20.04-focal) ...
Selecting previously unselected package docker-compose-plugin.
Preparing to unpack .../6-docker-compose-plugin_2.24.5-1~ubuntu.20.04-focal_amd64.deb ...
Unpacking docker-compose-plugin (2.24.5-1~ubuntu.20.04-focal) ...
Selecting previously unselected package slirp4netns.
Preparing to unpack .../7-slirp4netns_0.4.3-1_amd64.deb ...
Unpacking slirp4netns (0.4.3-1) ...
Setting up slirp4netns (0.4.3-1) ...
Setting up docker-buildx-plugin (0.12.1-1~ubuntu.20.04-focal) ...
Setting up containerd.io (1.6.28-1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /lib/systemd/system/containerd.service.
Setting up docker-compose-plugin (2.24.5-1~ubuntu.20.04-focal) ...
Setting up docker-ce-cli (5:25.0.2-1~ubuntu.20.04-focal) ...
Setting up pigz (2.4-1) ...
Setting up docker-ce-rootless-extras (5:25.0.2-1~ubuntu.20.04-focal) ...
Setting up docker-ce (5:25.0.2-1~ubuntu.20.04-focal) ...
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /lib/systemd/system/docker.socket.
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for systemd (245.4-4ubuntu3.22) ...
ubuntu@ip-172-31-90-196:~$ 
```

i-0b77f583f82b27ca2 (instance3)

PublicIPs: 44.208.26.95 PrivateIPs: 172.31.90.196

```

Unpacking docker-ce (5:25.0.2-1~ubuntu.20.04-focal) ...
Selecting previously unselected package docker-ce-rootless-extras.
Preparing to unpack .../5-docker-ce-rootless-extras_5%3a25.0.2-1~ubuntu.20.04-focal_amd64.deb ...
Unpacking docker-ce-rootless-extras (5:25.0.2-1~ubuntu.20.04-focal) ...
Selecting previously unselected package docker-compose-plugin.
Preparing to unpack .../6-docker-compose-plugin_2.24.5-1~ubuntu.20.04-focal_amd64.deb ...
Unpacking docker-compose-plugin (2.24.5-1~ubuntu.20.04-focal) ...
Selecting previously unselected package slirp4netns.
Preparing to unpack .../7-slirp4netns_0.4.3-1_amd64.deb ...
Unpacking slirp4netns (0.4.3-1) ...
Setting up slirp4netns (0.4.3-1) ...
Setting up docker-buildx-plugin (0.12.1-1~ubuntu.20.04-focal) ...
Setting up containerd.io (1.6.28-1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /lib/systemd/system/containerd.service.
Setting up docker-compose-plugin (2.24.5-1~ubuntu.20.04-focal) ...
Setting up docker-ce-cli (5:25.0.2-1~ubuntu.20.04-focal) ...
Setting up pigz (2.4-1) ...
Setting up docker-ce-rootless-extras (5:25.0.2-1~ubuntu.20.04-focal) ...
Setting up docker-ce (5:25.0.2-1~ubuntu.20.04-focal) ...
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /lib/systemd/system/docker.socket.
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for systemd (245.4-4ubuntu3.22) ...
ubuntu@ip-172-31-90-196:~$ exit
logout 
```

i-0b77f583f82b27ca2 (instance3)

PublicIPs: 44.208.26.95 PrivateIPs: 172.31.90.196

```

CloudShell Feedback
Type here to search 22°C Partly cloudy 11:25 PM 06-02-2024

Instances | EC2 | us-east-1 EC2 Instance Connect | us-east-1 Containers and AWS DevOps - Docker-TIO-v1.3.pdf [Alt+S] N. Virginia v vclabs/user2924901=gauravchamate94@gmail.com @ 8106-8155-3365

Unpacking docker-ce (5:25.0.2-1~ubuntu.20.04-focal) ...
Selecting previously unselected package docker-ce-rootless-extras.
Preparing to unpack .../5-docker-ce-rootless-extras_5%3a25.0.2-1~ubuntu.20.04-focal_amd64.deb ...
Unpacking docker-ce-rootless-extras (5:25.0.2-1~ubuntu.20.04-focal) ...
Selecting previously unselected package docker-compose-plugin.
Preparing to unpack .../6-docker-compose-plugin_2.24.5-1~ubuntu.20.04-focal_amd64.deb ...
Unpacking docker-compose-plugin (2.24.5-1~ubuntu.20.04-focal) ...
Selecting previously unselected package slirp4netns.
Preparing to unpack .../7-slirp4netns_0.4.3-1_amd64.deb ...
Unpacking slirp4netns (0.4.3-1) ...
Setting up slirp4netns (0.4.3-1) ...
Setting up docker-buildx-plugin (0.12.1-1~ubuntu.20.04-focal) ...
Setting up containerd.io (1.6.28-1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /lib/systemd/system/containerd.service.
Setting up docker-compose-plugin (2.24.5-1~ubuntu.20.04-focal) ...
Setting up docker-ce-cli (5:25.0.2-1~ubuntu.20.04-focal) ...
Setting up pigz (2.4-1) ...
Setting up docker-ce-rootless-extras (5:25.0.2-1~ubuntu.20.04-focal) ...
Setting up docker-ce (5:25.0.2-1~ubuntu.20.04-focal) ...
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /lib/systemd/system/docker.socket.
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for systemd (245.4-4ubuntu3.22) ...
ubuntu@ip-172-31-90-196:~$ exit
logout 
```

i-0b77f583f82b27ca2 (instance3)

PublicIPs: 44.208.26.95 PrivateIPs: 172.31.90.196

**NOTE:** Ensure you restart the shell (Refresh the page)

```
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage

System information as of Tue Feb 6 17:56:35 UTC 2024

System load: 0.61 Processes: 102
Usage of /: 28.8% of 7.57GB Users logged in: 0
Memory usage: 15% IPv4 address for docker0: 172.17.0.1
Swap usage: 0% IPv4 address for eth0: 172.31.90.196

Expanded Security Maintenance for Applications is not enabled.

82 updates can be applied immediately.
56 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

New release '22.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Tue Feb 6 17:51:49 2024 from 18.206.107.27
ubuntu@ip-172-31-90-196:~$
```

i-0b77f583f82b27ca2 (instance3)

PublicIPs: 44.208.26.95 PrivateIPs: 172.31.90.196

3. Now , type the below command (notice there is no sudo) docker version NOTE: The above command should show the client and server versions and other details. The installation is now successful

```
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.0-1048-aws x86_64)

* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage

System information as of Tue Feb 6 17:56:35 UTC 2024

System load: 0.61 Processes: 102
Usage of /: 28.8% of 7.57GB Users logged in: 0
Memory usage: 15% IPv4 address for docker0: 172.17.0.1
Swap usage: 0% IPv4 address for eth0: 172.31.90.196

Expanded Security Maintenance for Applications is not enabled.

82 updates can be applied immediately.
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New release '22.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

i-0b77f583f82b27ca2 (instance3)

PublicIPs: 44.208.26.95 PrivateIPs: 172.31.90.196
```

```

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

New release '22.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Tue Feb  6 17:51:49 2024 from 18.206.107.27
ubuntu@ip-172-31-90-196:~$ docker version
Client: Docker Engine - Community
  Version:           25.0.2
  API version:       1.44
  Go version:        go1.21.6
  Git commit:        29cf629
  Built:             Thu Feb  1 00:23:19 2024
  OS/Arch:           linux/amd64
  Context:           default

Server: Docker Engine - Community
Engine:
  Version:           25.0.2
  API version:       1.44 (minimum version 1.24)
  Go version:        go1.21.6
  Git commit:        fc66e0c
  Built:             Thu Feb  1 00:23:19 2024

i-0b77f583f82b27ca2 (instance3)
PublicIPs: 44.208.26.95 PrivateIPs: 172.31.90.196

```

```

API version: 1.44
Go version:   go1.21.6
Git commit:   29cf629
Built:        Thu Feb  1 00:23:19 2024
OS/Arch:     linux/amd64
Context:      default

Server: Docker Engine - Community
Engine:
  Version:           25.0.2
  API version:       1.44 (minimum version 1.24)
  Go version:        go1.21.6
  Git commit:        fc66e0c
  Built:             Thu Feb  1 00:23:19 2024
  OS/Arch:           linux/amd64
  Experimental:     false
  containerd:        1.6.28
  gitCommit:         ae07eda36dd25f8a1b98dfbf587313b99c0190bb
  runc:              1.1.12
  gitCommit:         v1.1.12-0-g51d5e94
  docker-init:       0.19.0
  gitCommit:         de40ad0
ubuntu@ip-172-31-90-196:~$ 
```

```

i-0b77f583f82b27ca2 (instance3)
PublicIPs: 44.208.26.95 PrivateIPs: 172.31.90.196

```

## C. Hands-on:

### Working with images and containers

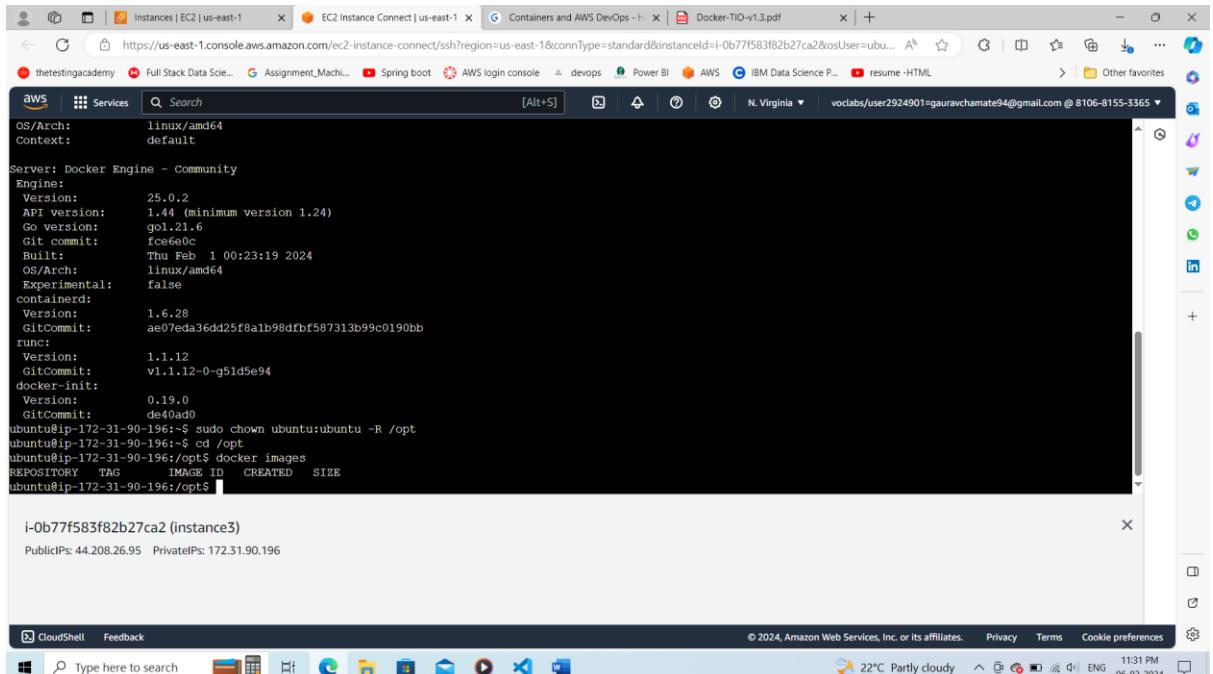
- Type out the below commands in the terminal window
 

```

sudo chown ubuntu:ubuntu -R /opt
cd /opt/docker/images
dockerrun --rm busybox:latest /bin/echo "HelloWorld"
wget https://d6opu47qoi4ee.cloudfront.net/project-container/Dockerfile
docker build -t helloworld.
dockerrun -d -p 80:8080 helloworld
docker ps -a
      
```

NOTE: Please note down the first three characters of the container's ID. Below commands can be used to remove, build, stop and start

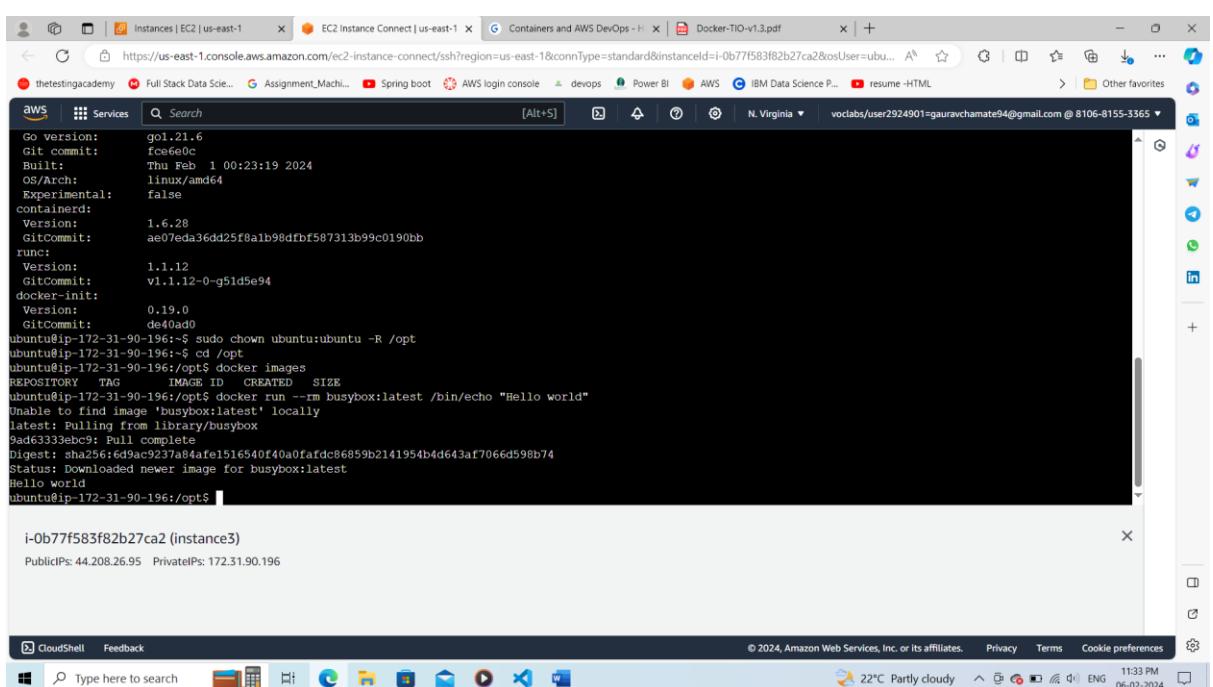
the containers and images. Fill the container and image IDs as required in the respective placeholders. Please refer to the screenshot attached below.



```
OS/Arch:      linux/amd64
Context:      default

Server: Docker Engine - Community
Engine:
  Version:      25.0.2
  API version:  1.44 (minimum version 1.24)
  Go version:   go1.21.6
  Git commit:   fc6e60c
  Built:        Thu Feb  1 00:23:19 2024
  OS/Arch:      linux/amd64
  Experimental: false
  containerd:   Version: 1.6.28
                 GitCommit: ae07eda36dd25f8a1b98dfbf587313b99c0190bb
  runc:         Version: 1.1.12
                 GitCommit: v1.1.12-0-g51d5e94
  docker-init:  Version: 0.19.0
                 GitCommit: de40ad0
ubuntu@ip-172-31-90-196:~$ sudo chown ubuntu:ubuntu -R /opt
ubuntu@ip-172-31-90-196:~$ cd /opt
ubuntu@ip-172-31-90-196:~/opt$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu@ip-172-31-90-196:/opt$
```

i-0b77f583f82b27ca2 (instance3)  
PublicIP: 44.208.26.95 PrivateIP: 172.31.90.196

```
OS/Arch:      linux/amd64
Git commit:   fc6e60c
Built:        Thu Feb  1 00:23:19 2024
OS/Arch:      linux/amd64
Experimental: false
containerd:   Version: 1.6.28
               GitCommit: ae07eda36dd25f8a1b98dfbf587313b99c0190bb
runc:         Version: 1.1.12
               GitCommit: v1.1.12-0-g51d5e94
docker-init:  Version: 0.19.0
               GitCommit: de40ad0
ubuntu@ip-172-31-90-196:~$ sudo chown ubuntu:ubuntu -R /opt
ubuntu@ip-172-31-90-196:~$ cd /opt
ubuntu@ip-172-31-90-196:~/opt$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu@ip-172-31-90-196:~/opt$ docker run --rm busybox:latest /bin/echo "Hello world"
Hello world
ubuntu@ip-172-31-90-196:~/opt$
```

i-0b77f583f82b27ca2 (instance3)  
PublicIP: 44.208.26.95 PrivateIP: 172.31.90.196

```
Instances | EC2 | us-east-1 x EC2 Instance Connect | us-east-1 x Containers and AWS DevOps - H x Docker-TLS-v1.3.pdf x +  
thetestingacademy Full Stack Data Scie... Assignment_Machi... Spring boot AWS login console devops Power BI AWS IBM Data Science P... resume -HTML > Other favorites  
aws Services Search [Alt+S] N. Virginia v voclabs/user2924901-gauravchamate94@gmail.com@8106-8155-3365  
Version: 0.19.0  
GitCommit: de40ad0  
ubuntu@ip-172-31-90-196:~$ sudo chown ubuntu:ubuntu -R /opt  
ubuntu@ip-172-31-90-196:~$ cd /opt  
ubuntu@ip-172-31-90-196:/opt$ docker images  
REPOSITORY TAG IMAGE ID CREATED SIZE  
ubuntu@ip-172-31-90-196:/opt$ docker run --rm busybox:latest /bin/echo "Hello world"  
Unable to find image 'busybox:latest' locally  
latest: Pulling from library/busybox  
9ad6333e3bc9: Pull complete  
Digest: sha256:6d9ac9237a84afe1561540f40a0afdc86859b2141954b4d643af7066d598b74  
Status: Downloaded newer image for busybox:latest  
Hello world  
ubuntu@ip-172-31-90-196:/opt$ wget https://d60pu47qoi4ee.cloudfront.net/project-container/Dockerfile  
--2024-02-06 18:06:20-- https://d60pu47qoi4ee.cloudfront.net/project-container/Dockerfile  
Resolving d60pu47qoi4ee.cloudfront.net (d60pu47qoi4ee.cloudfront.net)... 3.162.115.161, 3.162.115.180, 3.162.115.193, ...  
Connecting to d60pu47qoi4ee.cloudfront.net (d60pu47qoi4ee.cloudfront.net)|3.162.115.161|:443... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 813 [binary/octet-stream]  
Saving to: 'Dockerfile'  
  
Dockerfile          100%[=====]   813  --.-KB/s  in 0s  
  
2024-02-06 18:06:21 (111 MB/s) - 'Dockerfile' saved [813/813]  
  
ubuntu@ip-172-31-90-196:/opt$ i-0b77f583f82b27ca2 (instance3)  
PublicIPs: 44.208.26.95 PrivateIPs: 172.31.90.196
```

```
aws Services Search [Alt+S] N. Virginia vorlabs/usr2924901=gaurachamate94@gmail.com@8106-8155-3365 docker:default
[+] Building 14.4s (3/7)
=> [internal] load build definition from Dockerfile
=> transferring dockerfile: 852B
=> [internal] load metadata for docker.io/library/openjdk:11
=> [internal] load .dockignore
=> transferring context: 2B
=> [1/4] FROM docker.io/library/openjdk:11@sha256:99bac5bf86336e3c7399a7d725c8415e7b569b54e03e4599e580fc9cd7c21ab
=> resolve docker.io/library/openjdk:11@sha256:99bac5bf86336e3c7399a7d725c8415e7b569b54e03e4599e580fc9cd7c21ab
=> sha256:4f7a932d998743b9b5aa8ed77da9fa183c89a7dc9d5e8c80fcaaf 56.00MB / 55.00MB
=> sha256:4f7a932d998743b9b5aa8ed77da9fa183c89a7dc9d5e8c80fcaaf 6.26KB / 6.26KB
=> sha256:d94b9fe664657da19910b495173dc47049bc7b3b44273cf02d32723d165 5.16MB / 5.16MB
=> sha256:2068746827e1b045b71e785693eab7982b195301176512791f8f317a2916a 10.88MB / 10.88MB
=> sha256:2068746827e1b045b71e785693eab7982b195301176512791f8f317a2916a 1.04KB / 1.04KB
=> sha256:e1b7f31765b0516463399e14b42cb2520333b19d8de1e130fecdcd43c 1.79KB / 1.79KB
=> sha256:4f1e132389d55a8ed77da9fa183c89a7dc9d5e8c80fcaaf 51.58MB / 54.59MB
=> sha256:d85d15f15b668fb98f21c387ac74518b9149eb14049710eb469x3ed3d5 5.42MB / 5.42MB
=> sha256:d2323a710990a0ae716cae0d04170303a7304872952e230b 23.38 / 213B
=> sha256:db10d56e001c5b4411b072f6707f7a51985cd252aa1cbe3e7f721562e6301 202.07MB / 202.07MB
=> extracting sha256:4f7a932d998743b9b5aa8ed77da9fa183c89a7dc9d5e8c80fcaaf 56.00MB
=> extracting sha256:d94b9fe664657da19910b495173dc47049bc7b3b44273cf02d32723d165
=> extracting sha256:2068746827e1b045b71e785693eab7982b195301176512791f8f317a2916a
=> extracting sha256:d9ae32943b009383b79ac80b4e07fa53abccb3aa64c218c2ecbca71ee6
=> extracting sha256:db5151f15b6683b98f213827ac545188b1849efb14a1049710eb4692de3d5
=> extracting sha256:e6223a710990a0ae7162aee0d04170303a3f3f24aafe57a3034872952e230b
=> extracting sha256:db38d58e8c8ab411b072f6700f78a51985acd252aabce3be377f25162e68301 2.55
```

CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences 11:37 PM 22°C Partly cloudy ENG \* 8:03 700

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Instances | EC2 | us-east-1 x EC2 Instance Connect | us-east-1 x Containers and AWS DevOps - H x Docker-TIO-v1.3.pdf x +
thetestingacademy Full Stack Data Sci... Assignment_Machi... Spring boot AWS login console devops Power BI AWS IBM Data Science P... resume -HTML > Other favorites
aws Services Search [Alt+S] N. Virginia v ovlabs/user294901=gauravchamate94@gmail.com @ 8106-8155-3365
>>> sha256:99ba5fb83633e3c7399aed725c8415e7b569b54e03e4599e580fc9cd7c21ab 1.04 kB / 1.04 kB
>>> sha256:e01b7f317654b0f2ed1993e014b04bcbb925033911b3de41e130fecc4dc43c 1.79 kB / 1.79 kB
>>> sha256:9daee329413509336fe795ac9b76e607fa53ab0db3a264c218c2ec7bca716eef 54.59 MB / 54.59 MB
>>> sha256:d85151f13b6e613b9f21c3927a545180b849efb14a104971ebc4692ae3dd3 5.42 MB / 5.42 MB
>>> sha256:db38d58e94ab11b072f6700f77ba19a3acd152aaabb43e77f25162e6830 202.07 MB / 202.07 MB
>>> extracting sha256:001e52e6457da9910b495173d6c410d9bc47b3b44273cf82fd32723d165
>>> extracting sha256:dd4db5be6e6457da9910b495173d6c410d9bc47b3b44273cf82fd32723d165
>>> extracting sha256:66223a710999a0ae7162aae080417d3030afa3f24aaaf57aa30348725e2230b
>>> extracting sha256:db3d85d8e58ec1b411b072f6700f978a51985acd252aabce3b3e377f25162e68301
=> [2/4] RUN apt update && apt install -y wget && mkdir /opt/tomcat/
=> [3/4] RUN wget https://d6opu7go14ee.cloudfront.net/tomcat/apache-tomcat-9.0.53.tar.gz && tar xvzf apache*.tar.gz && mv apache-tomcat-9.0.53 15.8s
=> [4/4] WORKDIR /opt/tomcat/webapps
=> exporting to image
=> exporting layers
=> writing image sha256:ef8d4156dad95c3bbe43a4283f4e3e385ad4e7e2d5a539152326
=> naming to docker.io/library/hellworld
ubuntu@ip-172-31-90-196:~$ docker run -d -p 80:8080 hellworld
fad164bb5ddb7dc6466d5a343e5fb81d70ae8c6a8688a5b40d216294276cf83
ubuntu@ip-172-31-90-196:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
fad164bb5ddb hellworld "/opt/tomcat/bin/cat..." 16 seconds ago Up 14 seconds 0.0.0.0:80->8080/tcp, :::80->8080/tcp vibrant_nobel
ubuntu@ip-172-31-90-196:~$ docker ps -a

```

i-0b77f583f82b27ca2 (instance3)  
PublicIPs: 44.208.26.95 PrivateIPs: 172.31.90.196

**NOTE:** Please note down the first three characters of the container's id. Below commands can be used to remove, build, stop and start the containers and images. Fill the container and image ids as required in the respective placeholders. Please refer to the screenshot attached below.

**dockerrm**[containerid] **dockerrmi** [imageid] **dockerbuild-t** [your imagename without spaces].  
**dockerstop**[first3charactersofyourcontainerID] **dockerstart** [first3charactersofyourcontainerID]

```

Instances | EC2 | us-east-1 x EC2 Instance Connect | us-east-1 x Containers and AWS DevOps - H x Docker-TIO-v1.3.pdf x +
thetestingacademy Full Stack Data Sci... Assignment_Machi... Spring boot AWS login console devops Power BI AWS IBM Data Science P... resume -HTML > Other favorites
aws Services Search [Alt+S] N. Virginia v ovlabs/user294901=gauravchamate94@gmail.com @ 8106-8155-3365
>>> exporting to image
>>> exporting layers
>>> writing image sha256:af2d8d4156dad95c3bbe43a4283f4e3e385ad4e7e2d5a539152326
>>> naming to docker.io/library/hellworld
ubuntu@ip-172-31-90-196:~$ docker run -d -p 80:8080 hellworld
fad164bb5ddb7dc6466d5a343e5fb81d70ae8c6a8688a5b40d216294276cf83
ubuntu@ip-172-31-90-196:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
fad164bb5ddb hellworld "/opt/tomcat/bin/cat..." 16 seconds ago Up 14 seconds 0.0.0.0:80->8080/tcp, :::80->8080/tcp vibrant_nobel
ubuntu@ip-172-31-90-196:~$ docker ps -a
Error response from daemon: No such container: [fad164bb5ddb]
ubuntu@ip-172-31-90-196:~$ docker rm [fad]
Error response from daemon: No such container: [fad]
ubuntu@ip-172-31-90-196:~$ docker rm [164]
Error response from daemon: No such container: [164]
ubuntu@ip-172-31-90-196:~$ docker rmi [fad]
Error response from daemon: Invalid reference format
ubuntu@ip-172-31-90-196:~$ docker rmi [fad164bb5ddb]
Error response from daemon: Invalid reference format
ubuntu@ip-172-31-90-196:~$ docker stop [fad]
docker: "stop(fad)" is not a docker command.
See 'docker --help'.
ubuntu@ip-172-31-90-196:~$ docker stop[fad164bb5ddb]
docker: "stop(fad164bb5ddb)" is not a docker command.
See 'docker --help'.
ubuntu@ip-172-31-90-196:~$ docker

```

i-0b77f583f82b27ca2 (instance3)  
PublicIPs: 44.208.26.95 PrivateIPs: 172.31.90.196

**D. Hands-on: Terminating / deleting an instance**

1. Go back to the browser tab EC2 management console
2. Click on Instances in the left navigation
3. Click on the checkbox to the left of your running instance (no action is necessary if the checkbox is already selected)

4. Click on the Instance state dropdown towards the top right side of the screen 5. Select Terminate instance option 6. Click on the Terminate button on the confirmation popup window 7. The instance will show in Shutting down status and a few moments later will show as Terminated 8. Terminated instances do not attract any costs and will be auto removed from the instance listing in about 2 hours (or less) 9. Go back to the Lab environment and reset the Lab work area using the reset button in the top right of the screen to avoid any unintended credit charges

The image consists of three vertically stacked screenshots of the AWS EC2 Instances page. In the first screenshot, two instances are listed: 'instance3' (Running, t2.small, Initializing) and 'instance2' (Terminated). In the second screenshot, a 'Terminate instance?' dialog box is open over the list, warning that storage on EBS-backed instances will be lost. In the third screenshot, the dialog box is still open, showing the selected instance ID 'i-0b77f583f82b27ca2 (instance3)' and a 'Termination protection' section where 'Disabled' is selected. A 'Terminate' button is highlighted in orange at the bottom right of the dialog.

The screenshot shows the AWS EC2 Instances page. The left sidebar includes options like EC2 Dashboard, EC2 Global View, Events, Console-to-Code, Instances, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, Network & Security, Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces, and Load Balancing. The main content area displays a table of instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public
instance3	i-0b77f583f82b27ca2	Shutting-d...	t2.small	Initializing	View alarms +	us-east-1c	ec2-4...
instance2	i-083433aa5c83c6270	Terminated	t2.medium	-	View alarms +	us-east-1c	-

Below the table, a modal window titled "Instance: i-0b77f583f82b27ca2 (instance3)" is open, showing the instance's details.

This screenshot is identical to the one above, except the status of instance3 has changed from "Shutting down" to "Terminated". The table now shows:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public
instance2	i-083433aa5c83c6270	Terminated	t2.medium	-	View alarms +	us-east-1c	-
instance3	i-0b77f583f82b27ca2	Shutting-d...	t2.small	-	View alarms +	us-east-1c	-

7. The instance will show in Shutting down status and a few moments later will show as Terminated

8. Terminated instances do not attract any costs and will be auto removed from the instance listing in about 2 hours (or less)

9. Go back to the Lab environment and reset the Lab work area using the reset button in the top right of the screen to avoid any unintended credit charges