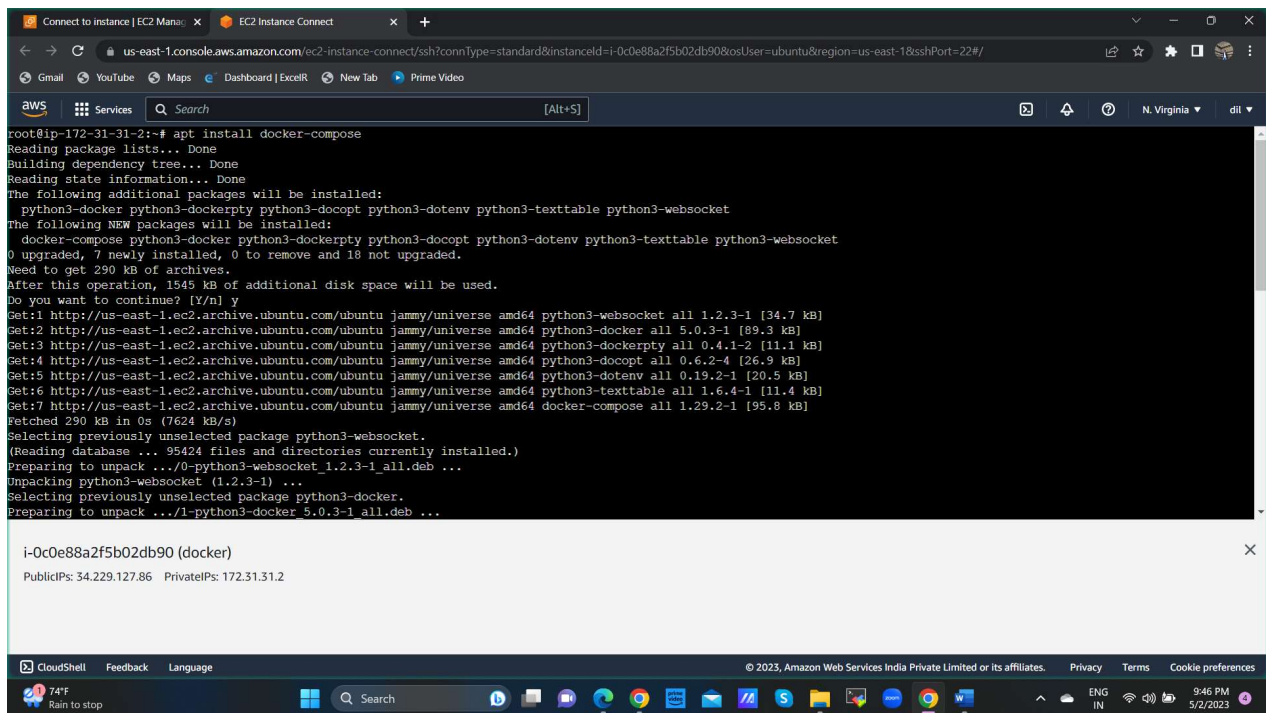


Docker Assignment 2

1. Install docker-compose.
2. Write a docker-compose file for running MySQL and WordPress application.
3. Configure the db connection and volumes for data persistence in the compose file.
4. Run both the containers by running docker-compose command.
5. Verify WordPress application is accessible.
6. Verify MySQL db is accessible.
7. Stop both the containers by running docker-compose command

1. Install docker-compose.

Apt install docke-compose

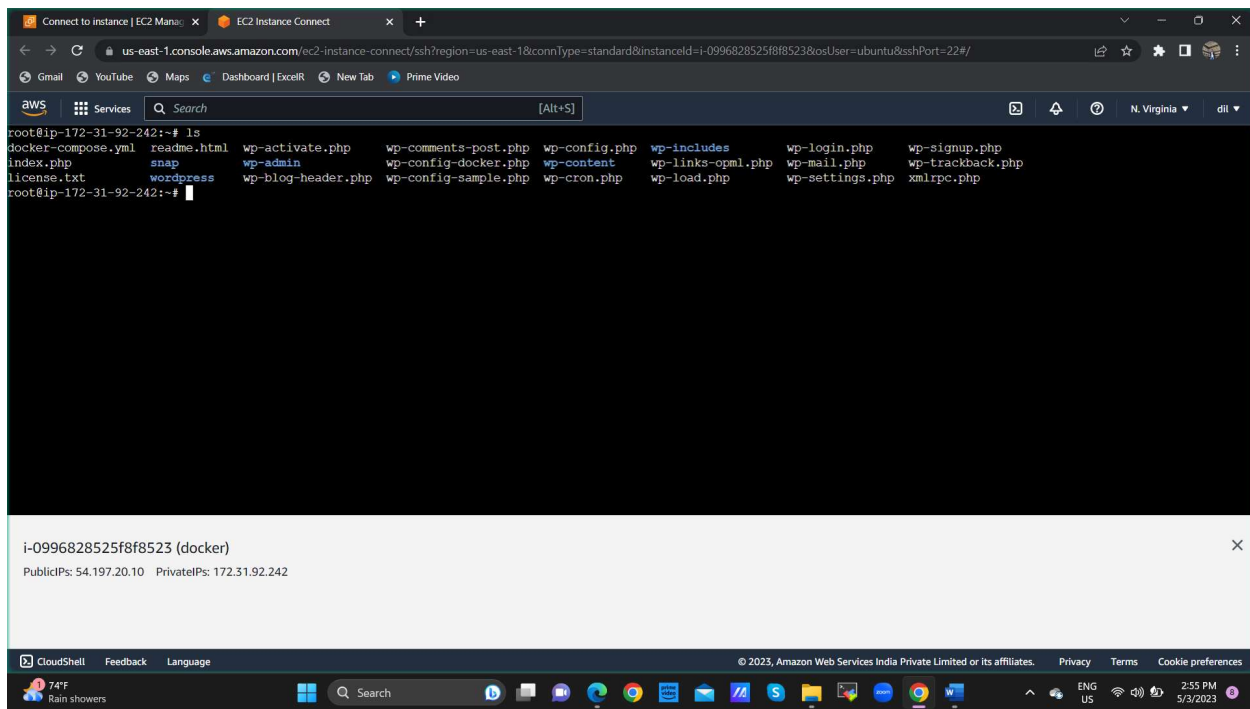


The screenshot shows a terminal window titled "Connect to instance | EC2 Man... x EC2 Instance Connect x +". The browser address bar shows "us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0c0e88a2f5b02db90&osUser=ubuntu8region=us-east-1&sshPort=22#". The terminal output shows the command "apt install docker-compose" being executed. The output indicates that several additional packages will be installed along with docker-compose, including python3-docker, python3-dockerpty, python3-dockerpty, python3-dotenv, python3-texttable, and python3-websocket. The installation process is shown as successful, with the packages being fetched and unpacked. Below the terminal output, a small box displays the instance ID "i-0c0e88a2f5b02db90 (docker)" and its public and private IP addresses: "PublicIPs: 34.229.127.86 PrivateIPs: 172.31.31.2". At the bottom of the terminal window, there is a status bar showing "CloudShell", "Feedback", "Language", and a copyright notice for Amazon Web Services India Private Limited or its affiliates. The bottom of the image shows a Windows taskbar with various application icons and a system tray showing the date and time as "9:46 PM 5/2/2023".

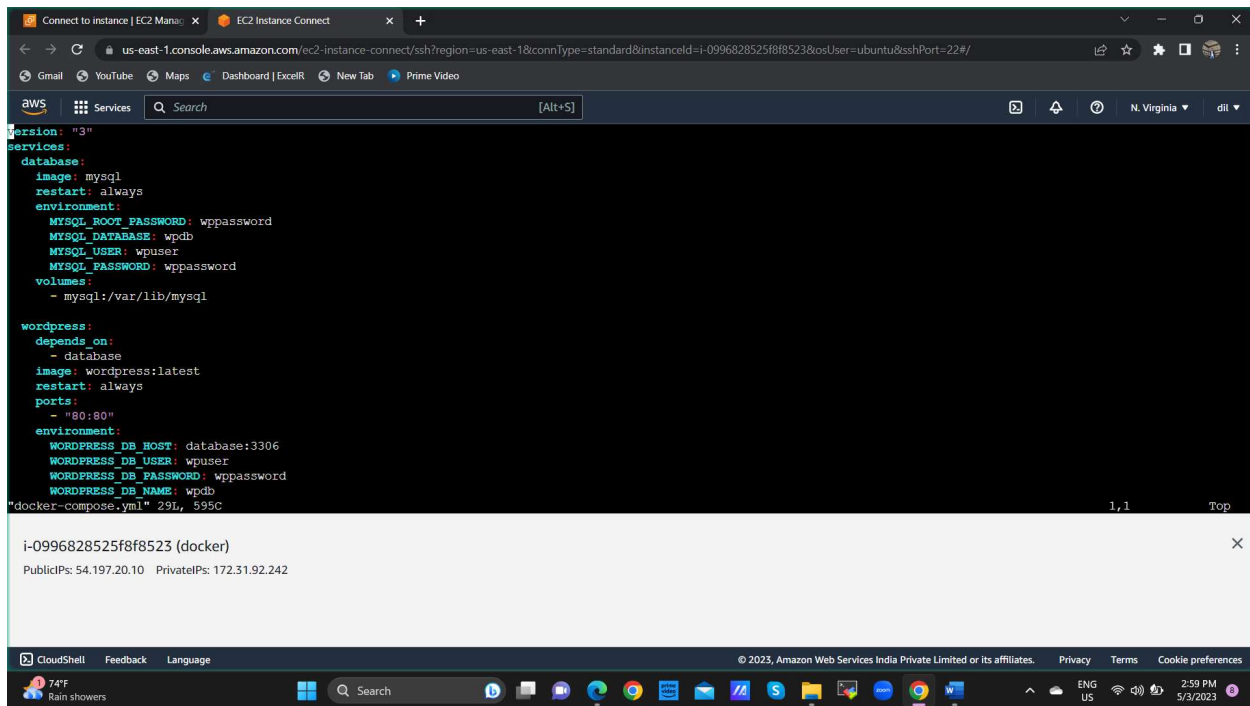
```
root@ip-172-31-31-2:~# apt install docker-compose
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  python3-docker python3-dockerpty python3-dockerpty python3-dotenv python3-texttable python3-websocket
The following NEW packages will be installed:
  docker-compose python3-docker python3-dockerpty python3-dockerpty python3-dotenv python3-texttable python3-websocket
0 upgraded, 7 newly installed, 0 to remove and 18 not upgraded.
Need to get 290 kB of archives.
After this operation, 1545 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-websocket all 1.2.3-1 [34.7 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-docker all 5.0.3-1 [89.3 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-dockerpty all 0.4.1-2 [11.1 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-dockerpty all 0.6.2-4 [26.9 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-dotenv all 0.19.2-1 [20.5 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-texttable all 1.6.4-1 [11.4 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 docker-compose all 1.29.2-1 [95.8 kB]
Fetched 290 kB in 0s (7624 kB/s)
Selecting previously unselected package python3-websocket.
(Reading database ... 95424 files and directories currently installed.)
Preparing to unpack .../0-python3-websocket_1.2.3-1_all.deb ...
Unpacking python3-websocket (1.2.3-1) ...
Selecting previously unselected package python3-docker.
Preparing to unpack .../1-python3-docker_5.0.3-1_all.deb ...
```

i-0c0e88a2f5b02db90 (docker)
PublicIPs: 34.229.127.86 PrivateIPs: 172.31.31.2

Create one folder wordpress



Create a file docker-compose.yml



Run the command

Docker-compose up -d

Connect to instance | EC2 Instance Connect | Posts containing 'write a d' | How To Install WordPress V | How To Install WordPress V | YAMLint - The YAML Validi | +

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0996828525f8f8523&osUser=ubuntu&sshPort=22#/?

Gmail YouTube Maps Dashboard | ExcelR New Tab Prime Video

Services Search [Alt+S]

26c5c85e47da: Pull complete
39c8021d1258: Pull complete
dff43c2de684: Pull complete
383987c505e8: Pull complete
3fd742e8a904: Pull complete
ccf9807e8362: Pull complete
11cc7ce10028: Pull complete
2144c81172a9: Pull complete
c70fa21d385f: Pull complete
7e0980570457: Pull complete
6706640f039a: Pull complete
244a64c9eb8b: Pull complete
c43af3ab38bf: Pull complete
9e441c3cba9e: Pull complete
8c1806133219: Pull complete
87b186e37365: Pull complete
1252d07e4aa8: Pull complete
711d7eb26d29: Pull complete
370ec2a7f12b: Pull complete
6f05714e9aea: Pull complete
eb8ee661b56d: Pull complete
Digest: sha256:df3a602190833fd4cd09edaec11c12efad400a046ae5c5721329ec2dacadce0b
Status: Downloaded newer image for wordpress:latest
Creating root_database_1 ... done
Creating root_wordpress_1 ... done
root@ip-172-31-92-242:~/wordpress#

i-0996828525f8f8523 (docker)
PublicIPs: 54.197.20.10 PrivateIPs: 172.31.92.242

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74°F Rain showers 2:34 PM 5/3/2023

Connect to instance | EC2 Instance Connect | Posts containing 'write a d' | How To Install WordPress V | How To Install WordPress V | YAMLint - The YAML Validi | +

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0996828525f8f8523&osUser=ubuntu&sshPort=22#/?

Gmail YouTube Maps Dashboard | ExcelR New Tab Prime Video

Services Search [Alt+S]

ccf9807e8362: Pull complete
11cc7ce10028: Pull complete
2144c81172a9: Pull complete
c70fa21d385f: Pull complete
7e0980570457: Pull complete
6706640f039a: Pull complete
244a64c9eb8b: Pull complete
c43af3ab38bf: Pull complete
9e441c3cba9e: Pull complete
8c1806133219: Pull complete
87b186e37365: Pull complete
1252d07e4aa8: Pull complete
711d7eb26d29: Pull complete
370ec2a7f12b: Pull complete
6f05714e9aea: Pull complete
eb8ee661b56d: Pull complete
Digest: sha256:df3a602190833fd4cd09edaec11c12efad400a046ae5c5721329ec2dacadce0b
Status: Downloaded newer image for wordpress:latest
Creating root_database_1 ... done
Creating root_wordpress_1 ... done
root@ip-172-31-92-242:~/wordpress# docker-compose images

Container	Repository	Tag	Image Id	Size
root_database_1	mysql	latest	8189e588b0e8	564.3 MB
root_wordpress_1	wordpress	latest	7477ed03f100	615.6 MB

root@ip-172-31-92-242:~/wordpress#

i-0996828525f8f8523 (docker)
PublicIPs: 54.197.20.10 PrivateIPs: 172.31.92.242

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74°F Rain showers 2:34 PM 5/3/2023

The screenshot shows an AWS CloudShell terminal window. The terminal output displays the installation of Docker and the status of containers. The containers listed are 'root_database_1' (mysql) and 'root_wordpress_1' (wordpress). The status of the containers is 'Up'.

```
6706640f039a: Pull complete
244a64c96b8b: Pull complete
c43af3ab38bf: Pull complete
9e441c3cba9e: Pull complete
8c1806133219: Pull complete
87b186e37365: Pull complete
1252d07e4aa8: Pull complete
711d7eb26d29: Pull complete
370ec2a7f12b: Pull complete
6f05714e9aea: Pull complete
ab0ae661b56d: Pull complete
Digest: sha256:df3a602190833fd4cd09edaec11c12efad400a046ae5c5721329ec2dadce0b
Status: Downloaded newer image for wordpress:latest
Creating root_database_1 ... done
Creating root_wordpress_1 ... done
root@ip-172-31-92-242:~/wordpress# docker-compose images

```

Container	Repository	Tag	Image Id	Size
root_database_1	mysql	latest	8189e588b0e8	564.3 MB
root_wordpress_1	wordpress	latest	7477ed03f100	615.6 MB

```
root@ip-172-31-92-242:~/wordpress# docker-compose ps

```

Name	Command	State	Ports
root_database_1	docker-entrypoint.sh mysqld	Up	3306/tcp, 33060/tcp
root_wordpress_1	docker-entrypoint.sh apache ...	Up	0.0.0.0:80->80/tcp, :::80->80/tcp

i-0996828525f8f8523 (docker)
PublicIPs: 54.197.20.10 PrivateIPs: 172.31.92.242

5. Verify WordPress application is accessible.

6. Verify MySQL db is accessible.

The screenshot shows an AWS CloudShell terminal window. The terminal output displays the command to execute 'mysql -p' and the resulting MySQL prompt. The user is prompted to enter a password, and the MySQL connection is established.

```
root@ip-172-31-92-242:~# docker exec -it a7cac56ce5ce mysql -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 17
Server version: 8.0.33 MySQL Community Server - GPL

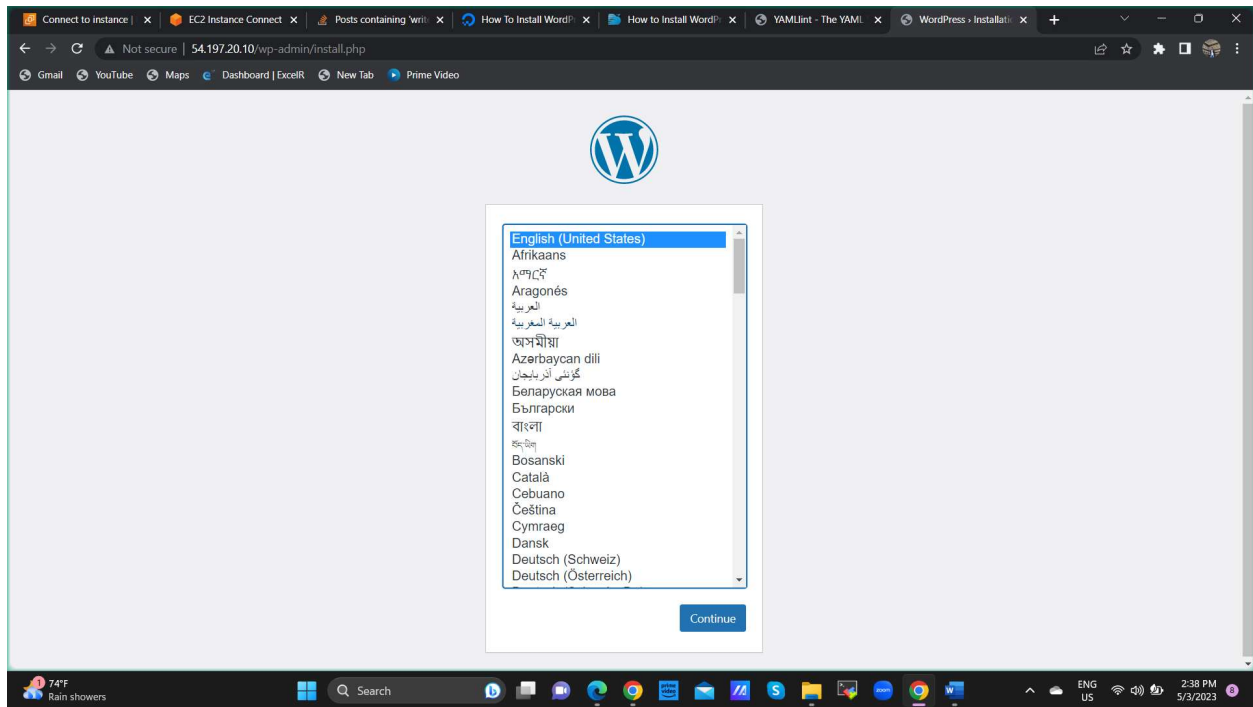
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owners.

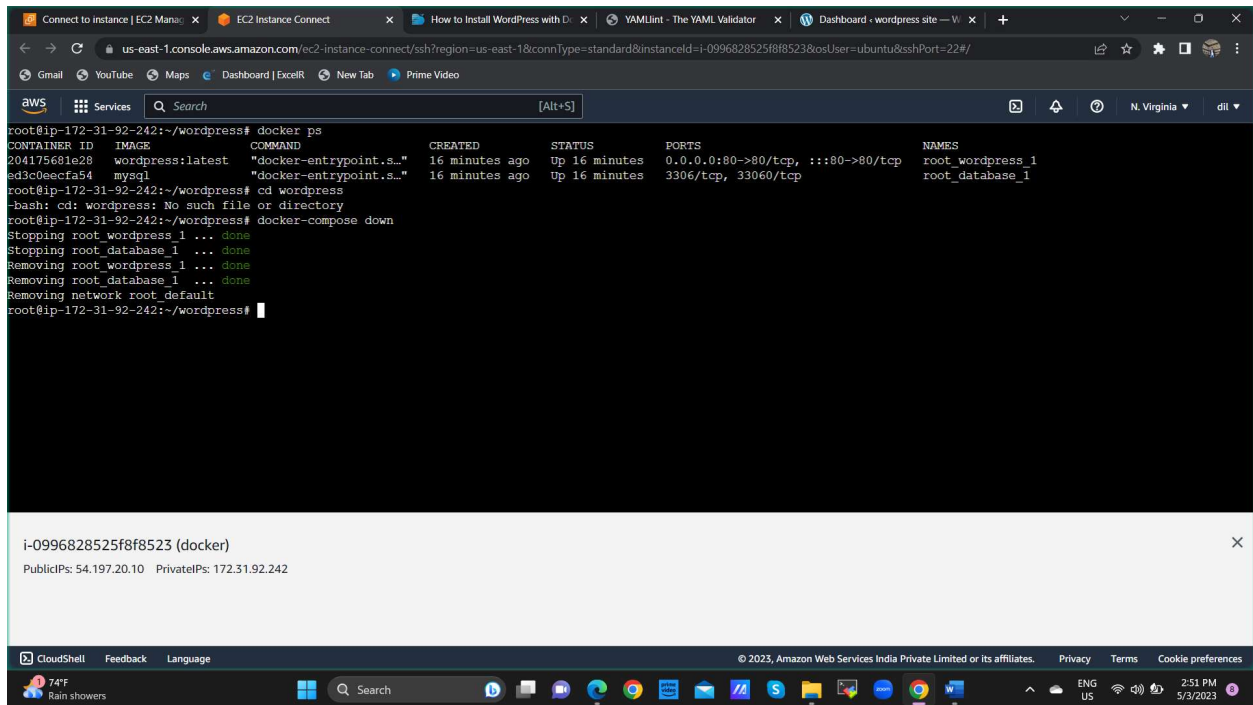
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
```

i-0996828525f8f8523 (docker)
PublicIPs: 44.201.135.226 PrivateIPs: 172.31.92.242



7. Stop both the containers by running docker-compose command



The screenshot shows an AWS CloudShell terminal window with the following content:

```
root@ip-172-31-92-242:~/wordpress# docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
204175681e28   wordpress:late "docker-entrypoint.s..." 16 minutes ago Up 16 minutes 0.0.0.0:80->80/tcp, :::80->80/tcp  root_wordpress_1
ed3c0eefcf54   mysql         "docker-entrypoint.s..." 16 minutes ago Up 16 minutes 3306/tcp, 33060/tcp             root_database_1

root@ip-172-31-92-242:~/wordpress# cd wordpress
-bash: cd: wordpress: No such file or directory
root@ip-172-31-92-242:~/wordpress# docker-compose down
Stopping root_wordpress_1 ... done
Stopping root_database_1 ... done
Removing root_wordpress_1 ... done
Removing root_database_1 ... done
Removing network root_default
root@ip-172-31-92-242:~/wordpress#
```

Below the terminal output, a metadata box for the instance `i-0996828525f8f8523 (docker)` is visible, showing PublicIPs: 54.197.20.10 and PrivateIPs: 172.31.92.242.