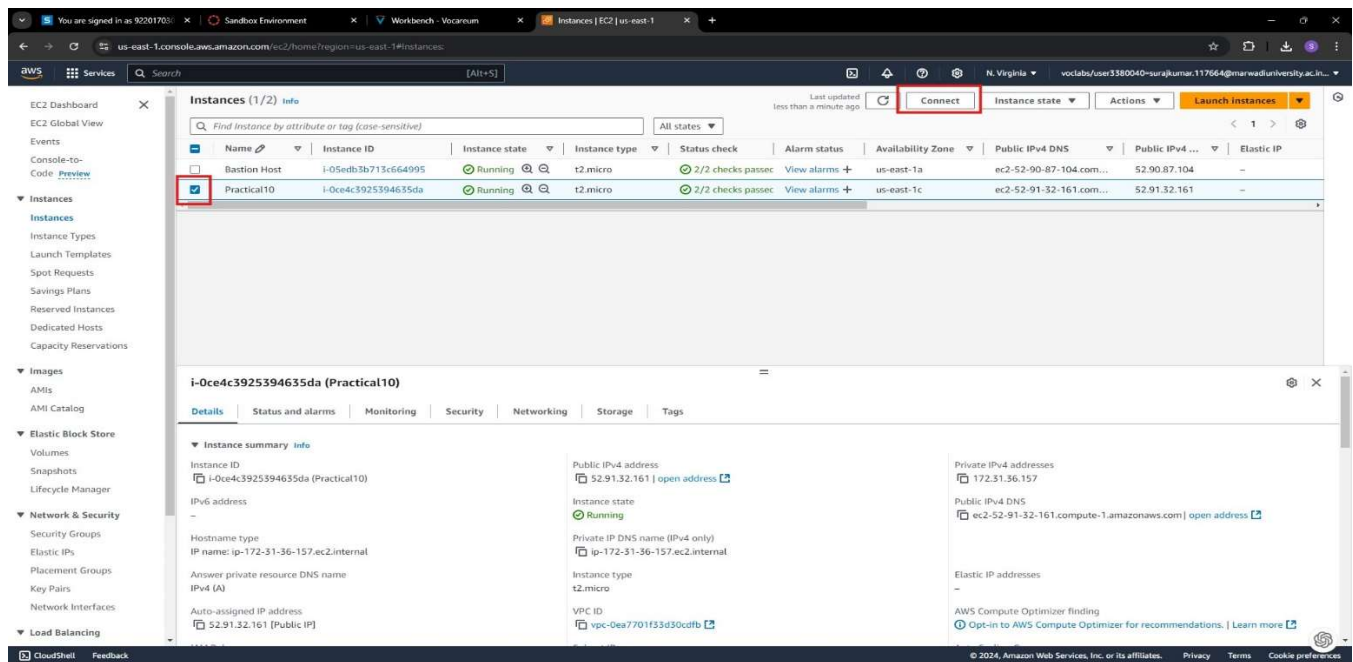
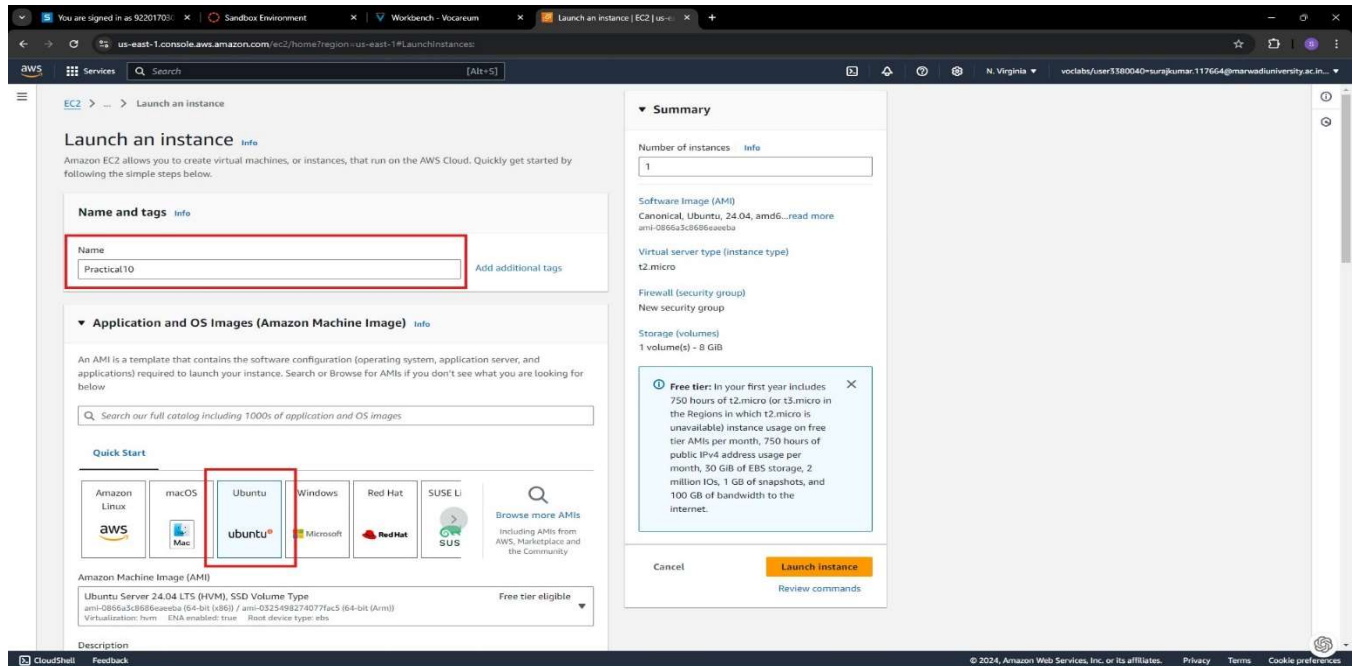


Practical – 10: Deploy Docker Technology.

Step 01: Create “EC2” instance with “UBUNTU” operating system and after create then “Connect”.

Screenshot: -



Step 02: After connect instance then run some command on terminal: -

```
-sudo apt-get update
-sudo apt-get install docker.io -y
-sudo systemctl start docker
-sudo systemctl enable docker
-docker --version
-sudo curl -L
"https://github.com/docker/compose/releases/download/1.29.2/docker-
compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
-sudo chmod +x /usr/local/bin/docker-compose
-docker-compose --version
-mkdir wordpress-docker
-cd wordpress-docker
-nano docker-compose.yml
-sudo docker-compose up -d
-sudo docker ps
```

services:

db:

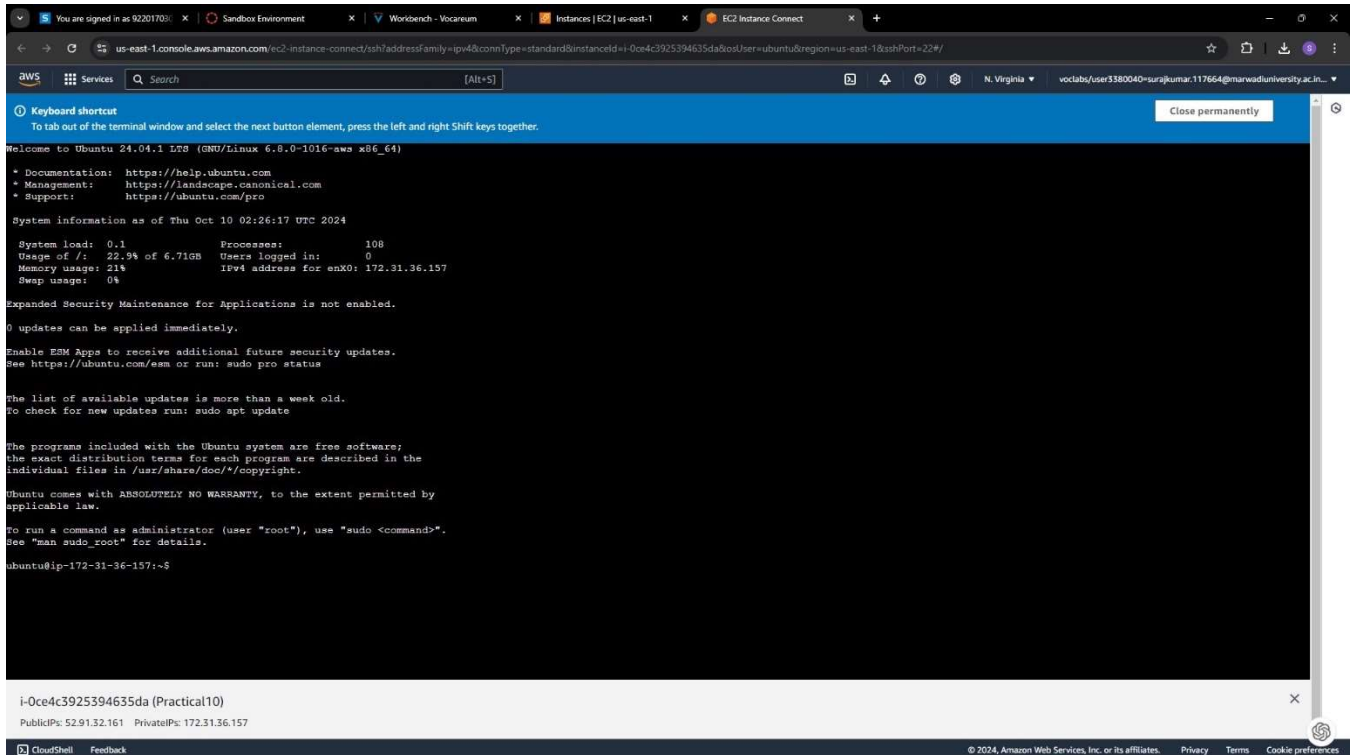
```
image: mysql:5.7
restart: always
environment:
  MYSQL_DATABASE: wordpress
  MYSQL_USER: wordpress
  MYSQL_PASSWORD: wordpresspassword
  MYSQL_ROOT_PASSWORD: rootpassword
```

wordpress:

```
image: wordpress:latest
restart: always
ports:
  - "80:80"
environment:
  WORDPRESS_DB_HOST: db:3306
  WORDPRESS_DB_USER: wordpress
  WORDPRESS_DB_PASSWORD: wordpresspassword
  WORDPRESS_DB_NAME: wordpress
volumes:
  - ./wp-data:/var/www/html
```

volumes:

wp-data:



Keyboard shortcut
To tab out of the terminal window and select the next button element, press the left and right Shift keys together.

```
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1016-aws x86_64)

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

System information as of Thu Oct 10 02:26:17 UTC 2024

System load: 0.1          Processes: 108
Usage of /: 22.9% of 6.71GB Users logged in: 0
Memory usage: 21%        IPv4 address for enX0: 172.31.36.157
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

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

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

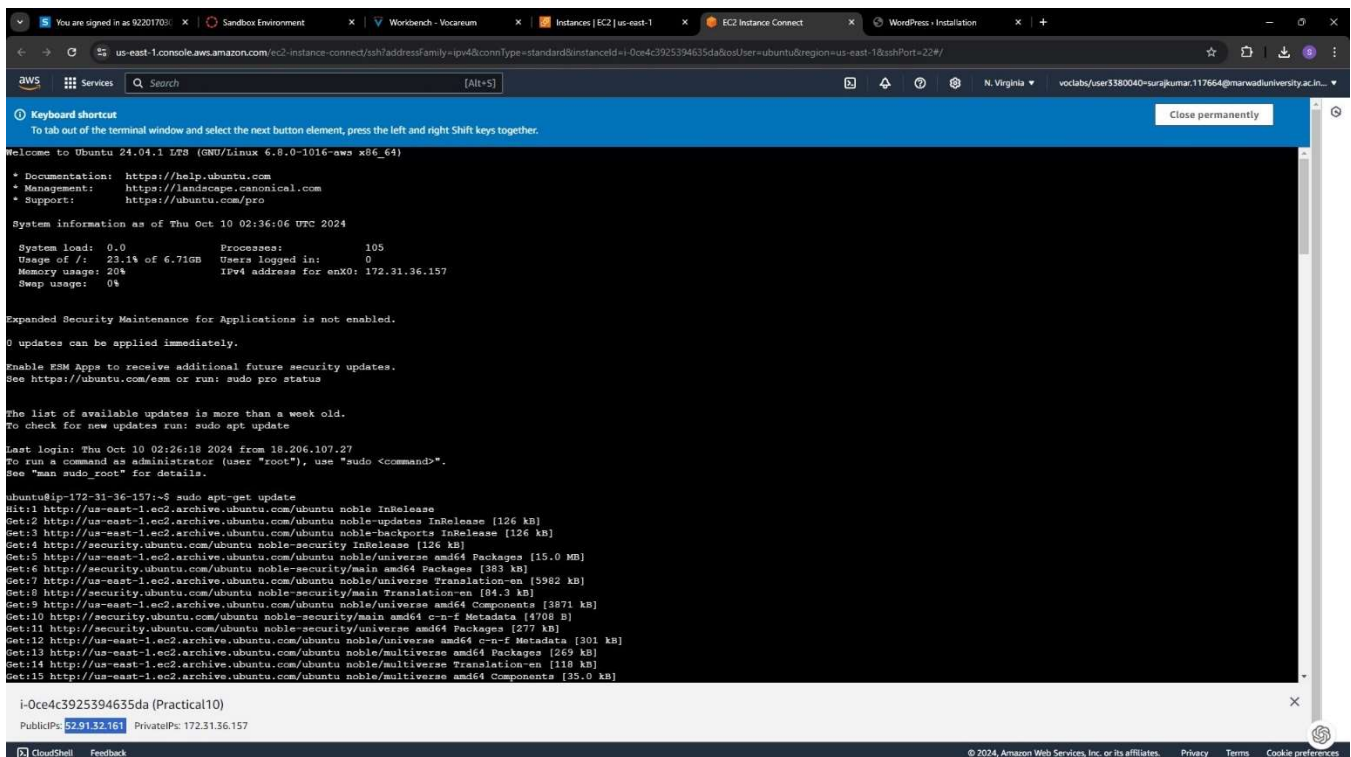
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-36-157:~$
```

i-0ce4c3925394635da (Practical10)
PublicIP: 52.91.32.161 PrivateIP: 172.31.36.157



```
ubuntu@ip-172-31-36-157:~$ sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:6 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [383 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [84.3 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
Get:10 http://security.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [4708 B]
Get:11 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [277 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [301 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]
```

i-0ce4c3925394635da (Practical10)
PublicIP: 52.91.32.161 PrivateIP: 172.31.36.157

```

AWS
Services
Search [Alt+S]
N. Virginia
voclabs/user3380040=surajkumar:117664@marwadiuniversity.ac.in...

Keyboard shortcut
To tab out of the terminal window and select the next button element, press the left and right Shift keys together.
Close permanently

Get:41 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [10.9 kB]
Get:42 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [2808 B]
Get:43 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B]
Get:44 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [344 B]
Fetched 28.2 MB in 4s (6812 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-36-157:~$ sudo apt-get install docker.io -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  bridge-utils containerd dns-root-data dnsmasq-base pigz runc ubuntu-fan
Suggested packages:
  ifupdown aufs-tools cgroupfs-mount | cgroup-lite debotstrap docker-buildx docker-compose-v2 docker-doc rinse zfs-fuse | zfsutils
The following NEW packages will be installed:
  bridge-utils containerd dns-root-data dnsmasq-base docker.io pigz runc ubuntu-fan
0 upgraded, 8 newly installed, 0 to remove and 8 not upgraded.
Need to get 76.8 MB of archives.
After this operation, 289 MB of additional disk space will be used.
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 pigz amd64 2.8-1 [65.6 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 bridge-utils amd64 1.7.1-1ubuntu2 [33.9 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 runc amd64 1.1.12-0ubuntu3.1 [8599 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 containerd amd64 1.7.12-0ubuntu4.1 [38.6 MB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 dns-root-data all 2023112702-willaync1 [4450 B]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 dnsmasq-base amd64 2.90-2build2 [375 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 docker.io amd64 24.0.7-0ubuntu4.1 [29.1 MB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 ubuntu-fan all 0.12.16 [35.2 kB]
Fetched 76.8 MB in 1s (66.8 MB/s)
Preconfiguring packages ...
Selecting previously unselected package pigz.
(Reading database ... 6786 files and directories currently installed.)
Preparing to unpack .../0-pigz_2.8-1_amd64.deb ...
Unpacking pigz (2.8-1) ...
Selecting previously unselected package bridge-utils.
Preparing to unpack .../1-bridge-utils_1.7.1-1ubuntu2_amd64.deb ...
Unpacking bridge-utils (1.7.1-1ubuntu2) ...
Selecting previously unselected package runc.
Preparing to unpack .../2-runc_1.1.12-0ubuntu3.1_amd64.deb ...
Unpacking runc (1.1.12-0ubuntu3.1) ...
Selecting previously unselected package containerd.
Preparing to unpack .../3-containerd_1.7.12-0ubuntu4.1_amd64.deb ...
Unpacking containerd (1.7.12-0ubuntu4.1) ...
Selecting previously unselected package dns-root-data.
Preparing to unpack .../4-dns-root-data_2023112702-willaync1_all.deb ...
Unpacking dns-root-data (2023112702-willaync1) ...

i-0ce4c3925394635da (Practical10)
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```

```

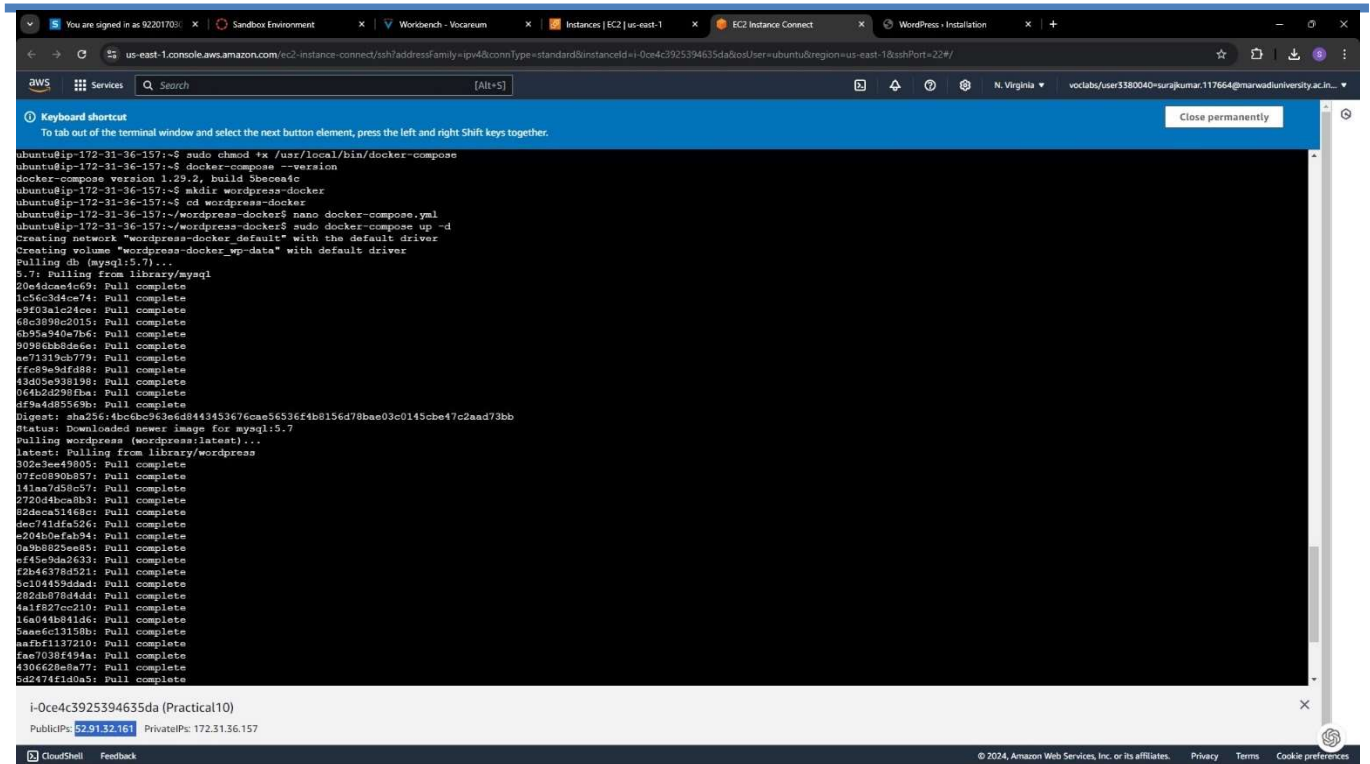
AWS
Services
Search [Alt+S]
N. Virginia
voclabs/user3380040=surajkumar:117664@marwadiuniversity.ac.in...

Keyboard shortcut
To tab out of the terminal window and select the next button element, press the left and right Shift keys together.
Close permanently

Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-36-157:~$ sudo systemctl start docker
ubuntu@ip-172-31-36-157:~$ sudo systemctl enable docker
ubuntu@ip-172-31-36-157:~$ docker --version
Docker version 24.0.7, build 24.0.7-0ubuntu4.1
ubuntu@ip-172-31-36-157:~$ sudo curl -L https://github.com/docker/compose/releases/download/1.29.2/docker-compose-$(uname
>
> ^C
ubuntu@ip-172-31-36-157:~$ sudo curl -L https://github.com/docker/compose/releases/download/1.29.2/docker-compose-$(uname -s)-$(uname -m)
uname -s: command not found
Not Foundubuntu@ip-172-31-36-157:~$ sudo "https://github.com/docker/compose/releases/download/1.29.2/docker-compose-$(uname -s)-$(uname -m) -o /usr/local/bin/docker-compose"
% Total % Received % Xferd Average Speed Time Time Time
0 0 0 0 0 0 0 0 --:--:-- --:--:-- --:--:-- 0
100 12.1M 100 12.1M 0 21.7M 0 --:--:-- --:--:-- --:--:-- 21.7M
ubuntu@ip-172-31-36-157:~$ sudo chmod +x /usr/local/bin/docker-compose
chmod: missing operand after 'x' /usr/local/bin/docker-compose
try 'chmod -help' for more information.
ubuntu@ip-172-31-36-157:~$ sudo curl -L https://github.com/docker/compose/releases/download/1.29.2/docker-compose-$(uname -s)-$(uname -m) -o /usr/local/bin/docker-compose
% Total % Received % Xferd Average Speed Time Time Time
0 0 0 0 0 0 0 0 --:--:-- --:--:-- --:--:-- 0
100 12.1M 100 12.1M 0 39.3M 0 --:--:-- --:--:-- --:--:-- 39.3M
ubuntu@ip-172-31-36-157:~$ sudo chmod +x /usr/local/bin/docker-compose
chmod: missing operand after 'x' /usr/local/bin/docker-compose
try 'chmod -help' for more information.
ubuntu@ip-172-31-36-157:~$ sudo curl -L https://github.com/docker/compose/releases/download/1.29.2/docker-compose-$(uname -s)-$(uname -m) -o /usr/local/bin/docker-compose
% Total % Received % Xferd Average Speed Time Time Time
0 0 0 0 0 0 0 0 --:--:-- --:--:-- --:~:~:~ 0
100 12.1M 100 12.1M 0 62.2M 0 --:~:~:~ --:~:~:~ --:~:~:~ 62.2M
ubuntu@ip-172-31-36-157:~$ sudo chmod +x /usr/local/bin/docker-compose
ubuntu@ip-172-31-36-157:~$ docker-compose --version
docker-compose version 1.29.2, build 5b66175e
ubuntu@ip-172-31-36-157:~$ mkdir wordpress-docker
ubuntu@ip-172-31-36-157:~$ cd wordpress-docker

i-0ce4c3925394635da (Practical10)
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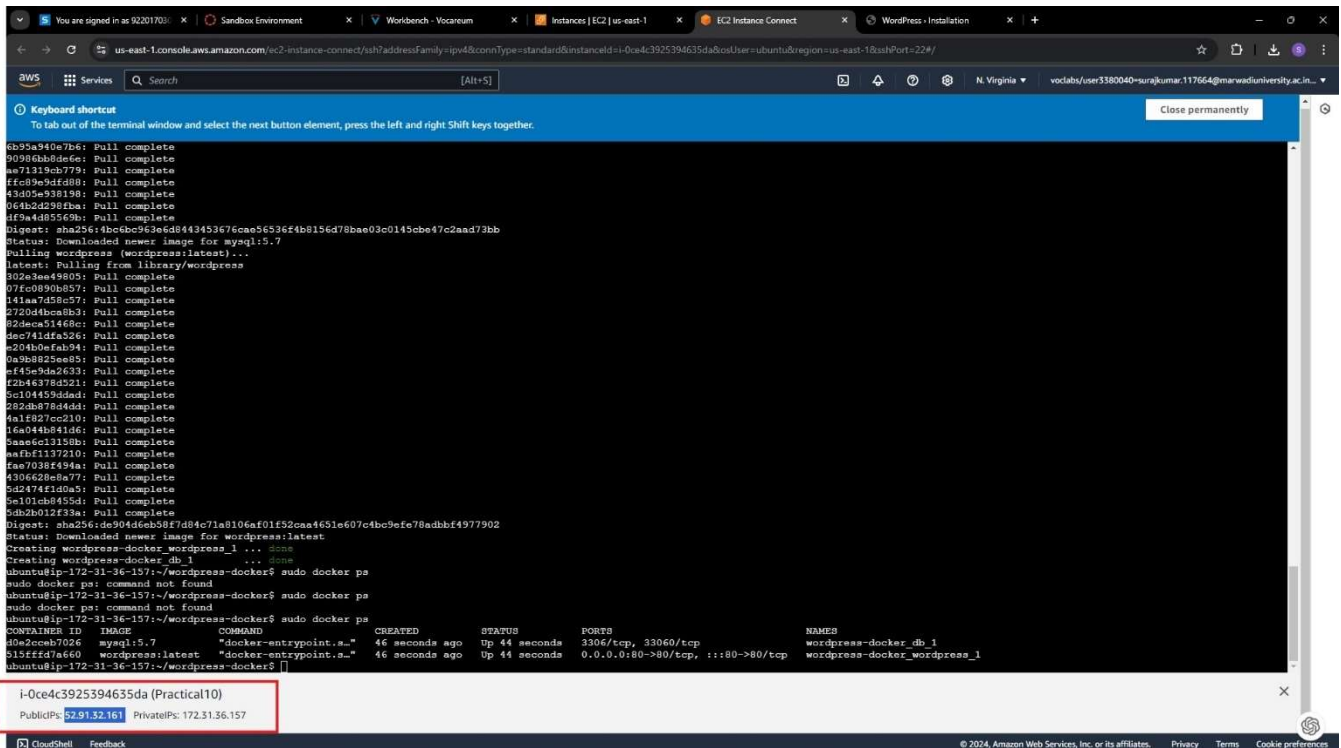
```

```

ubuntu@ip-172-31-36-157:~$ sudo chmod +x /usr/local/bin/docker-compose
ubuntu@ip-172-31-36-157:~$ docker-compose --version
docker-compose version 1.29.2, build 5bece44c
ubuntu@ip-172-31-36-157:~$ sh -c 'wordpress-docker'
ubuntu@ip-172-31-36-157:~$ cd wordpress-docker
ubuntu@ip-172-31-36-157:~/wordpress-docker$ nano docker-compose.yml
ubuntu@ip-172-31-36-157:~/wordpress-docker$ sudo docker-compose up -d
Creating network 'wordpress-docker_default' with the default driver
Creating volume 'wordpress-docker_wp_data' with default driver
Pulling db (mysql:5.7)...
5.7: Pulling from library/mysql
00e4d0e4c69: Pull complete
1c56c3d4c74: Pull complete
e9f03a1c24ee: Pull complete
68c3b9e2015: Pull complete
3b5a540e7b6: Pull complete
9098ebb8de6: Pull complete
ae71319eb779: Pull complete
f6e8e9af088: Pull complete
43d05e93b198: Pull complete
064b2d298fba: Pull complete
df94d85569b: Pull complete
Digest: sha256:4bc6bc936e6d443453676cae5636f4b8156d78bae03c0145cbe47c2aad73bb
Status: Downloaded newer image for mysql:5.7
Pulling wordpress (wordpress:latest)...
latest: Pulling from library/wordpress
302e3ee49805: Pull complete
07fc0890b857: Pull complete
141aa7d58c57: Pull complete
2720d4bca8b3: Pull complete
82dea51468c: Pull complete
dec741dfa526: Pull complete
e204b0efab94: Pull complete
0a9b825ee85: Pull complete
ef45e9da2633: Pull complete
f2b46378d521: Pull complete
5c104459ddad: Pull complete
282db878d4dd: Pull complete
4a1f827cc210: Pull complete
16a044b81d6: Pull complete
5aae6c13158b: Pull complete
aa7bf1137210: Pull complete
fae7038f494a: Pull complete
4306628ea77: Pull complete
5d2474f1d0a5: Pull complete
i-0ce4c3925394635da (Practical10)
PublicIPs: 52.91.32.161 PrivateIPs: 172.31.36.157
  
```

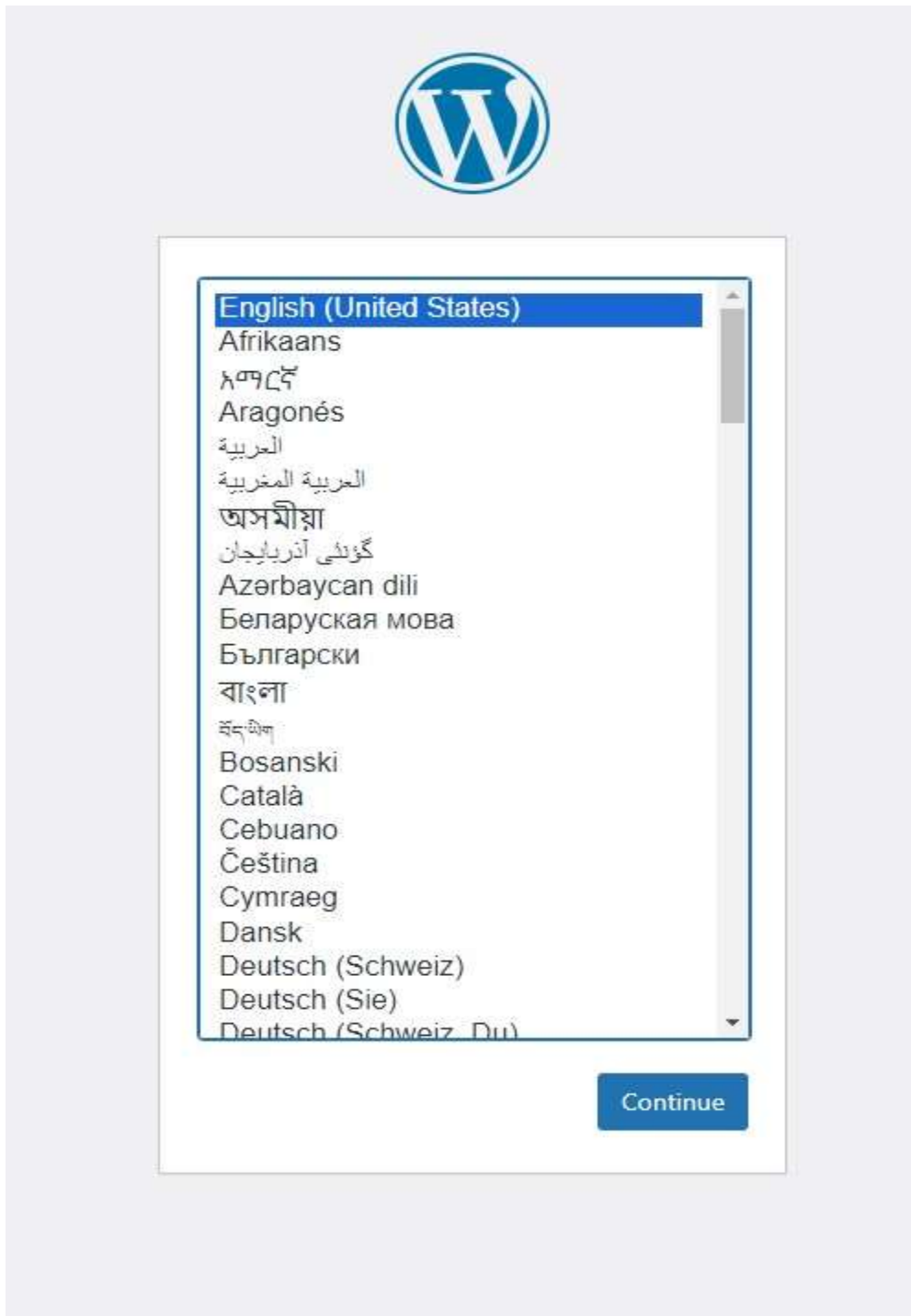
Step 03: Copy this IP ADDRESS and paste on any browser.



```

6b95a940e7b6: Pull complete
9098ebb8de6: Pull complete
ae71319eb779: Pull complete
f6e8e9af088: Pull complete
43d05e93b198: Pull complete
064b2d298fba: Pull complete
df94d85569b: Pull complete
Digest: sha256:4bc6bc936e6d443453676cae5636f4b8156d78bae03c0145cbe47c2aad73bb
Status: Downloaded newer image for mysql:5.7
Pulling wordpress (wordpress:latest)...
latest: Pulling from library/wordpress
302e3ee49805: Pull complete
07fc0890b857: Pull complete
141aa7d58c57: Pull complete
2720d4bca8b3: Pull complete
82dea51468c: Pull complete
dec741dfa526: Pull complete
e204b0efab94: Pull complete
0a9b825ee85: Pull complete
ef45e9da2633: Pull complete
f2b46378d521: Pull complete
5c104459ddad: Pull complete
282db878d4dd: Pull complete
4a1f827cc210: Pull complete
16a044b81d6: Pull complete
5aae6c13158b: Pull complete
aa7bf1137210: Pull complete
fae7038f494a: Pull complete
4306628ea77: Pull complete
5d2474f1d0a5: Pull complete
5e101cb8455d: Pull complete
5db2b012f33a: Pull complete
Digest: sha256:da98d46f58f7d84c71a8106af01f52caa4651e607c9bc9efe78adbff4977902
Status: Downloaded newer image for wordpress:latest
Creating wordpress-docker_wordpress_1 ... done
Creating wordpress-docker_db_1 ... done
ubuntu@ip-172-31-36-157:~/wordpress-docker$ sudo docker ps
sudo docker ps: command not found
ubuntu@ip-172-31-36-157:~/wordpress-docker$ sudo docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED    STATUS    PORTS
40e2c0eb7026   mysql:5.7     "docker-entrypoint.s..." 46 seconds ago    Up 44 seconds    3306/tcp, 33060/tcp    wordpress-docker_db_1
315ffff4a600   wordpress:late "docker-entrypoint.s..." 46 seconds ago    Up 44 seconds    0.0.0.0:80->80/tcp, :::80->80/tcp    wordpress-docker_wordpress_1
ubuntu@ip-172-31-36-157:~/wordpress-docker$
i-0ce4c3925394635da (Practical10)
PublicIPs: 52.91.32.161 PrivateIPs: 172.31.36.157
  
```

Step 04: After paste IP ADDRESS then open automatic WordPress installation process and fill one by one step and install fully WordPress in your cloud machine.





Welcome

Welcome to the famous five-minute WordPress installation process! Just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.

Information needed

Please provide the following information. Do not worry, you can always change these settings later.

Site Title

Suraj

Username

Surajkumar

Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.

Password

ciEMQTykXq3d9cJH(55

 Hide

Strong

Important: You will need this password to log in. Please store it in a secure location.

Your Email

surajkumar.117664@marwadiuniversity.ac.in

Double-check your email address before continuing.

Search engine
visibility



Discourage search engines from indexing this site

It is up to search engines to honor this request.

Install WordPress



Success!

WordPress has been installed. Thank you, and enjoy!

Username

Surajkumar

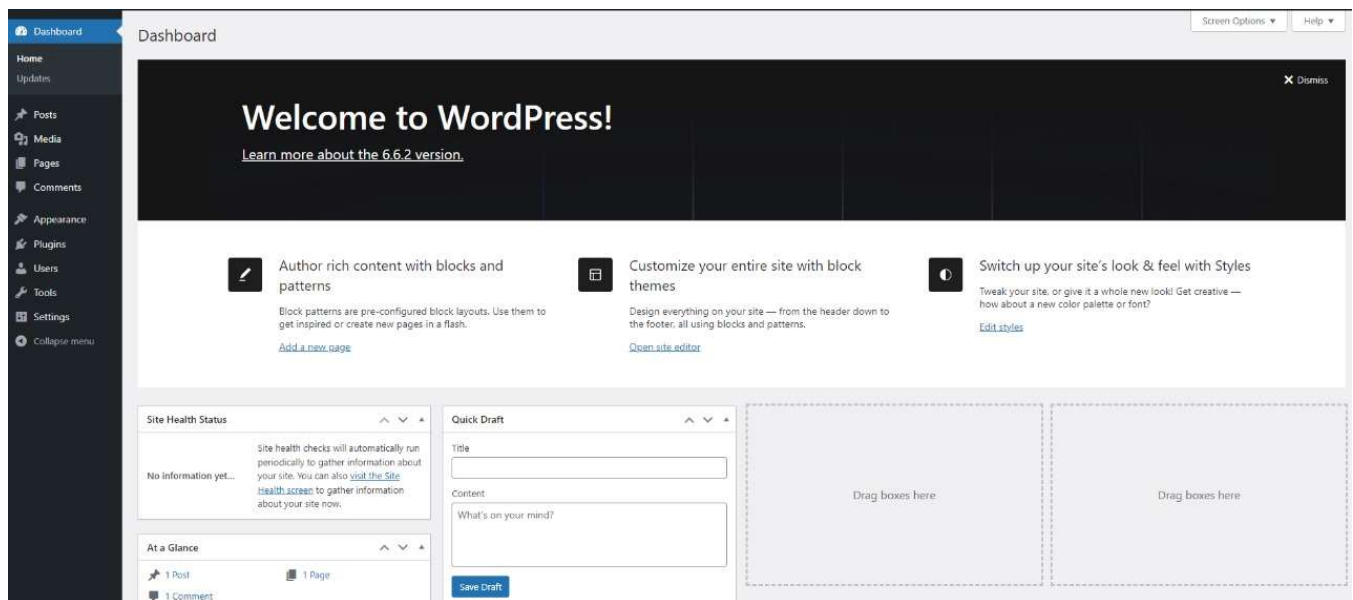
Password

Your chosen password.

[Log In](#)



The image shows the WordPress login interface. At the top center is the WordPress logo. Below it is a login form with three main sections, each highlighted by a red rectangle. The first section contains a text input field labeled "Username or Email Address" with the text "surajkumar.117664@ma" entered. The second section contains a password input field labeled "Password" with masked characters and an eye icon to toggle visibility. The third section contains a checkbox labeled "Remember Me" and a blue "Log In" button. Below the form, there is a link "Lost your password?" and a link "← Go to Suraj".



The image shows the WordPress dashboard. On the left is a dark sidebar menu with options: Dashboard, Home, Updates, Posts, Media, Pages, Comments, Appearance, Plugins, Users, Tools, Settings, and Collapse menu. The main content area has a header "Dashboard" with "Screen Options" and "Help" links. Below the header is a large "Welcome to WordPress!" banner with a link to "Learn more about the 6.6.2 version." Below the banner are three cards: "Author rich content with blocks and patterns" (with a link to "Add a new page"), "Customize your entire site with block themes" (with a link to "Open site editor"), and "Switch up your site's look & feel with Styles" (with a link to "Edit styles"). At the bottom, there are three widgets: "Site Health Status" (showing "No information yet..."), "Quick Draft" (with fields for Title and Content, and a "Save Draft" button), and "At a Glance" (showing "1 Post" and "1 Page").