

DIGITAL ASSIGNMENT - I

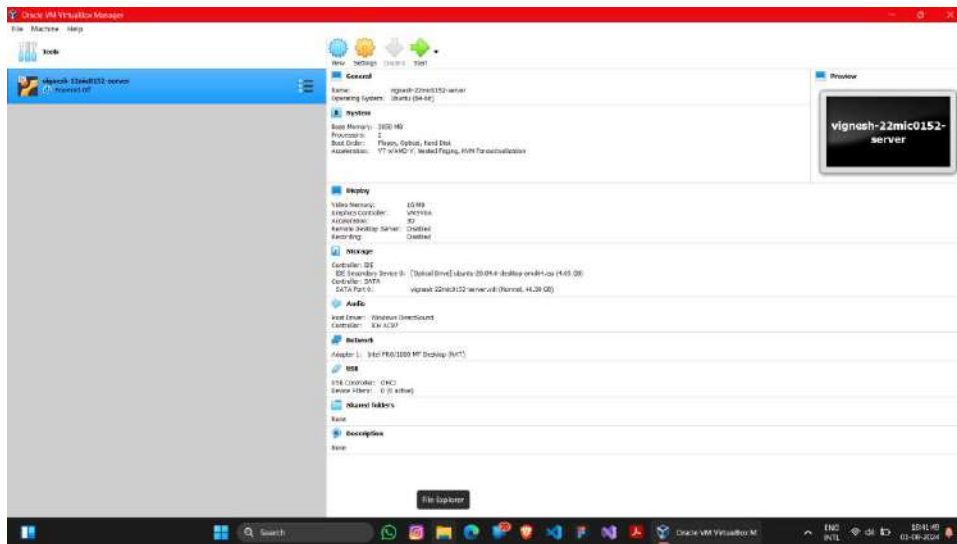
CLOUD COMPUTING LAB

NAME: VIGNESH S

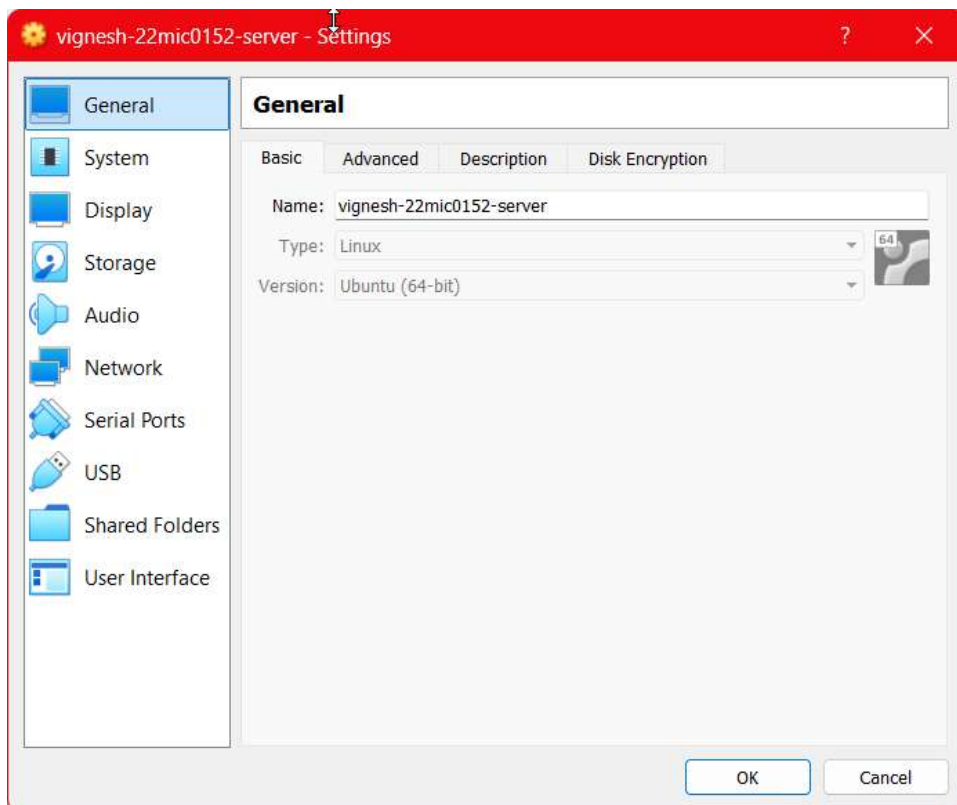
REGNO: 22MIC0152

QUESTION 1: Install virtual box and host two VMs while one acts as a server and the other as client, so you should be able to view the webpage hosted in the **Server VM** through **Client VM**?

1: Open the Virtual Box Create a New VM:

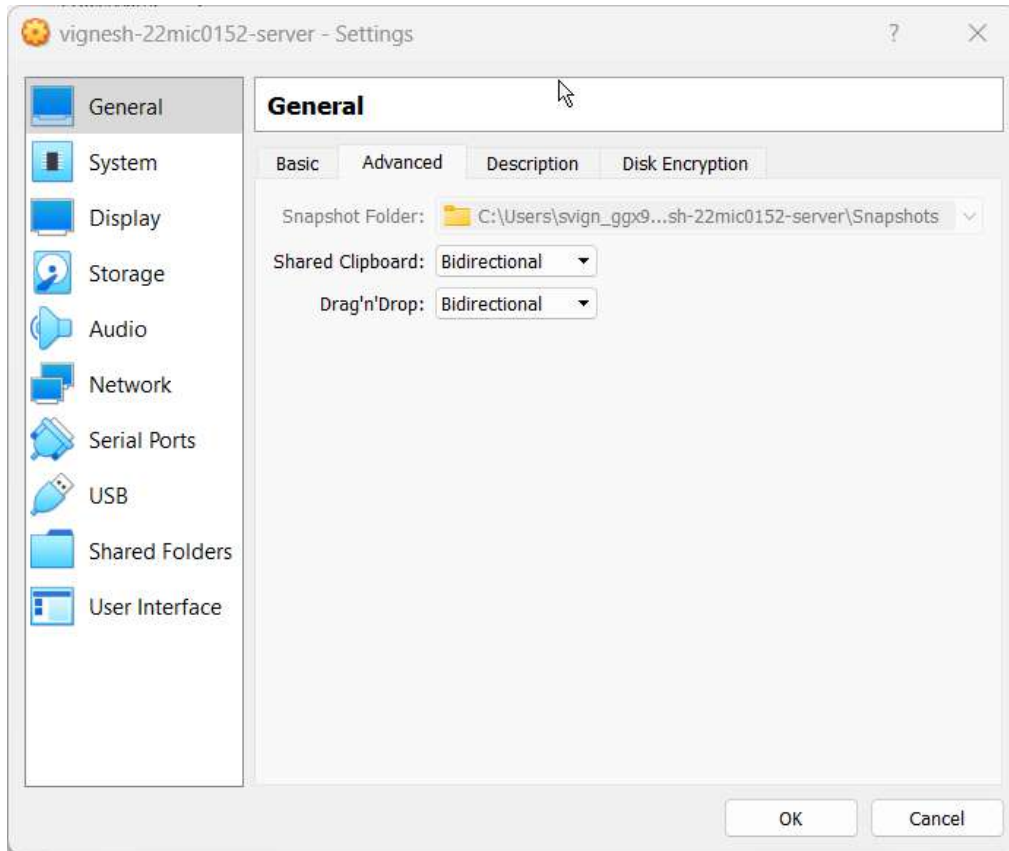


2. Customize the Setting:

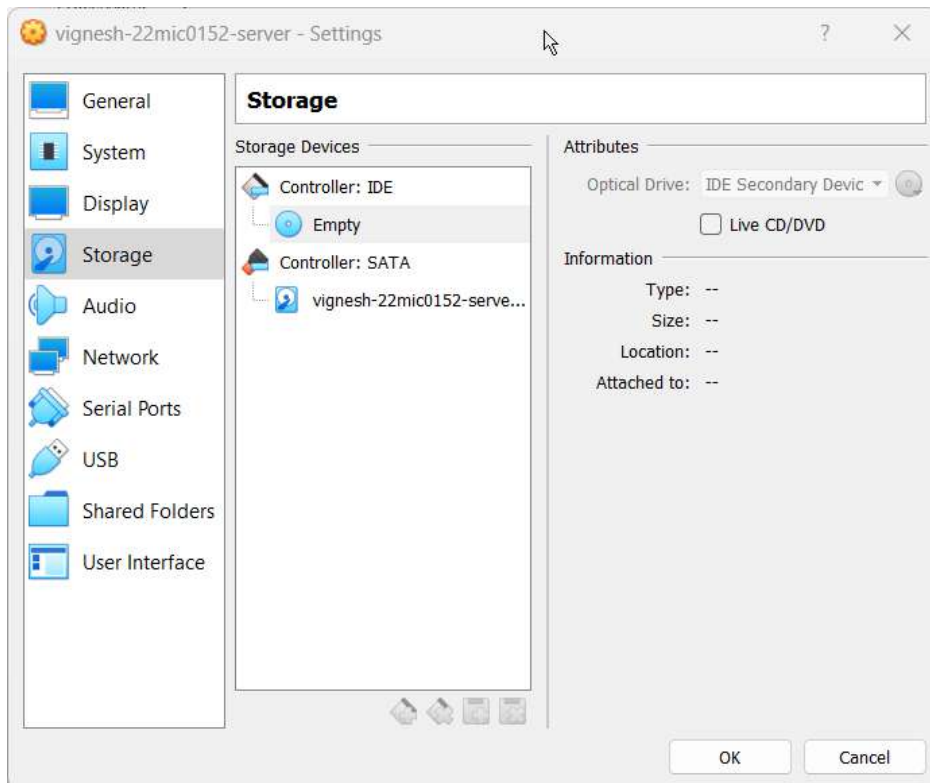


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3: Make “Shared Clipboard” and “Drag’n’Drop” both as “Bidirectional”:

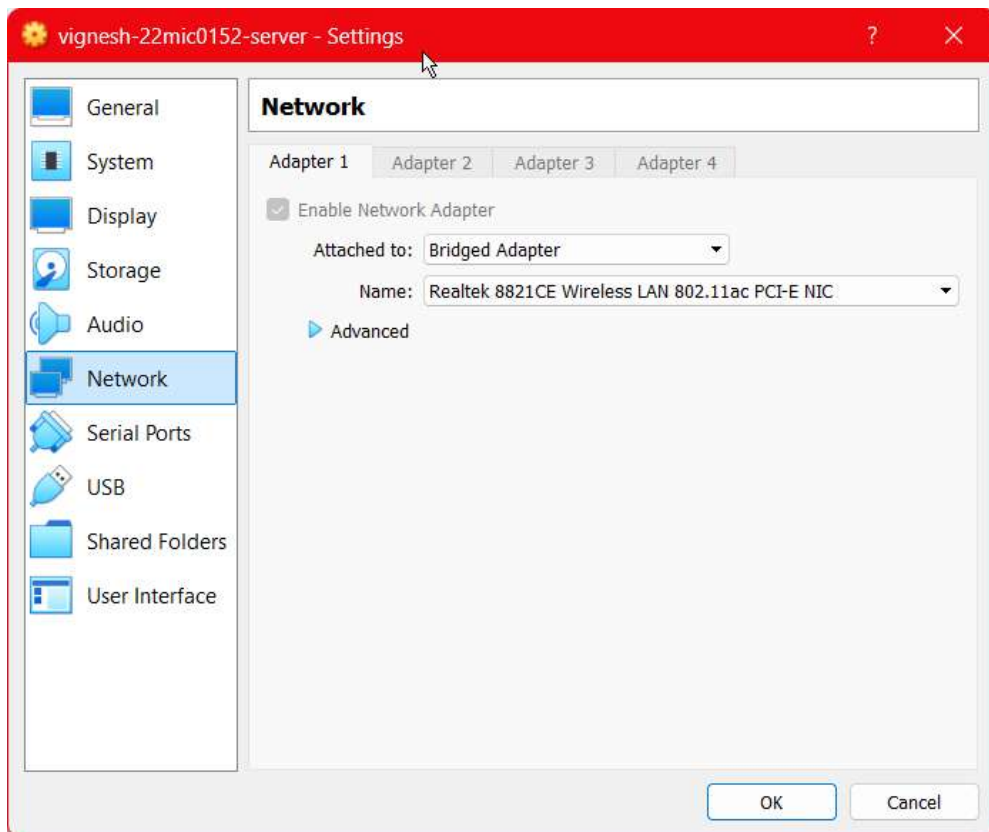


4: Click on **Empty** and set “Optical Drive” to the **Ubuntu file** in your pc:

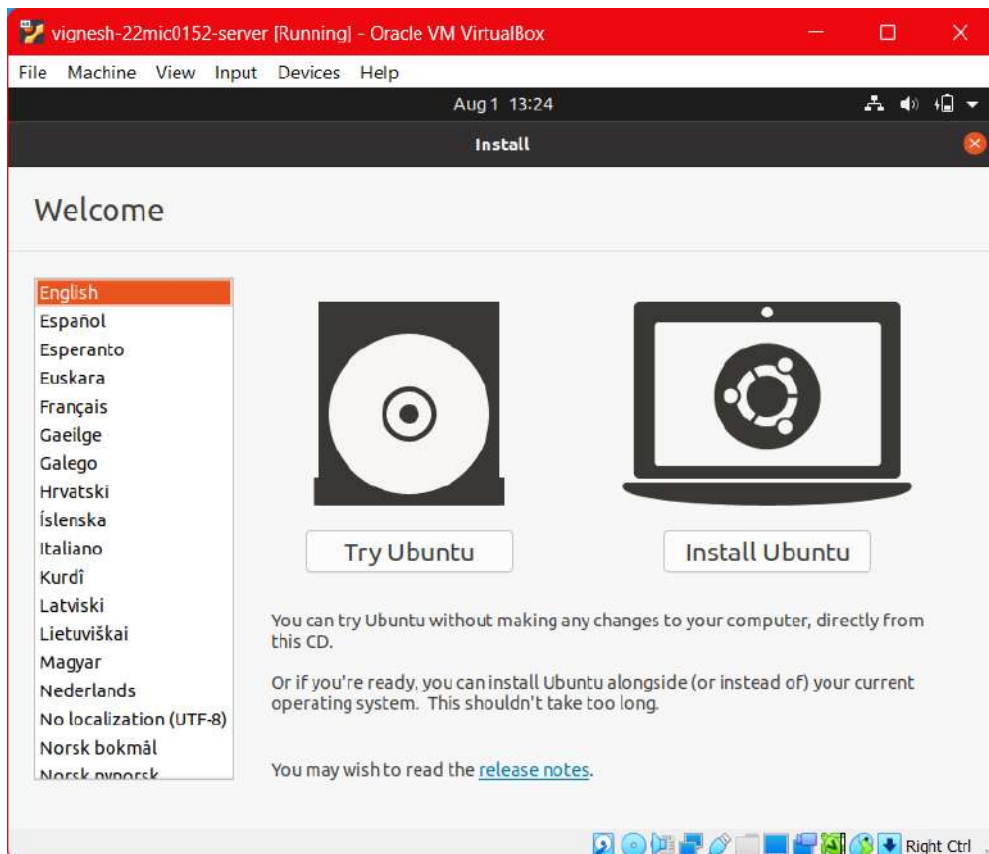


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5: Set the “Attached to” to “Bridged Adapter” and click “ok”:

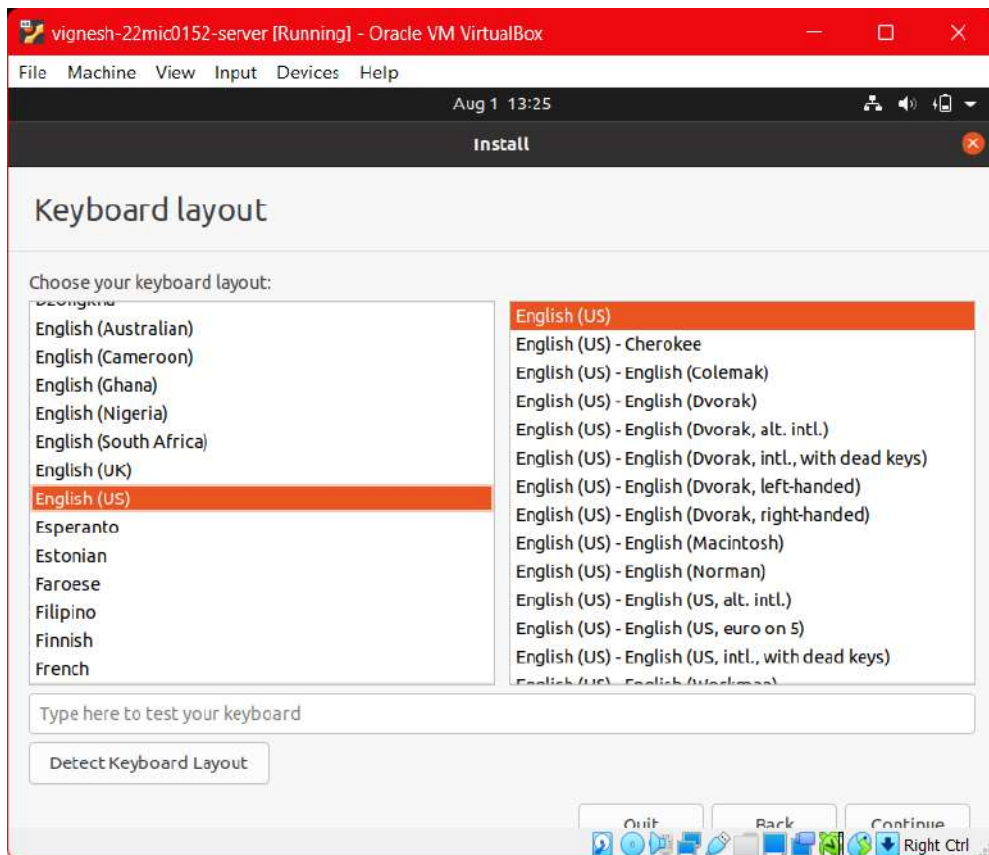


6: Now **Start** the **VM** and setup the Ubuntu in the VM, Select the Language:

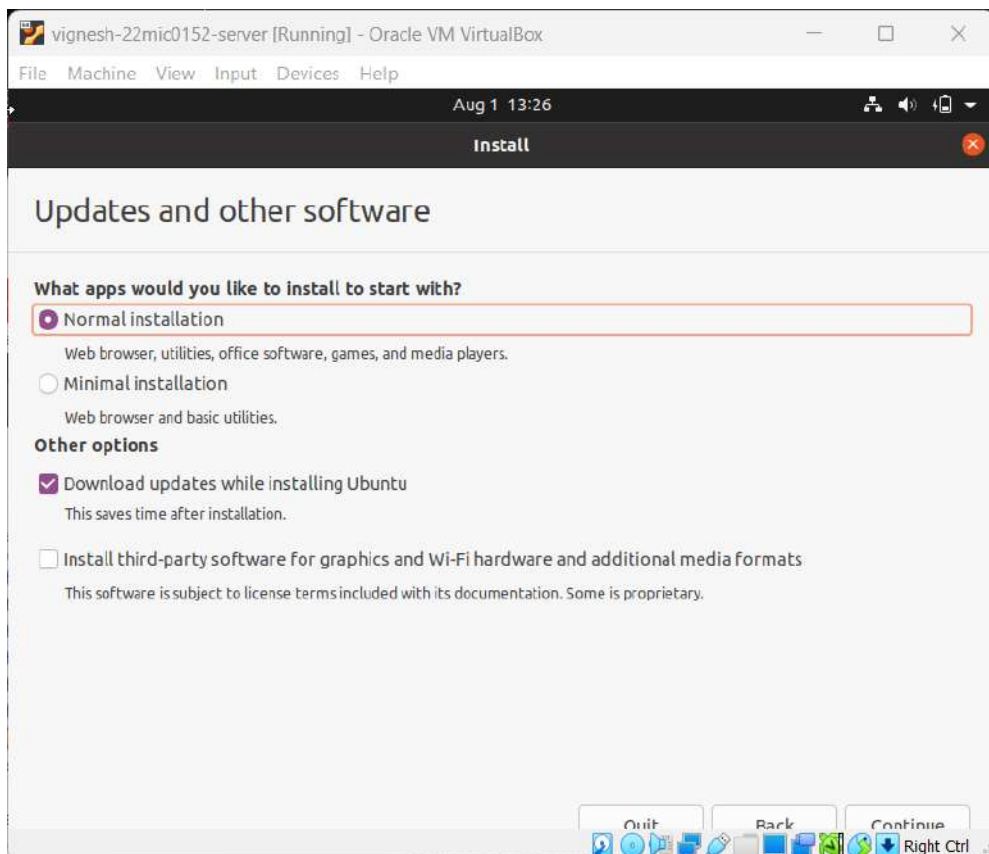


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7: select the Keyboard Layout:

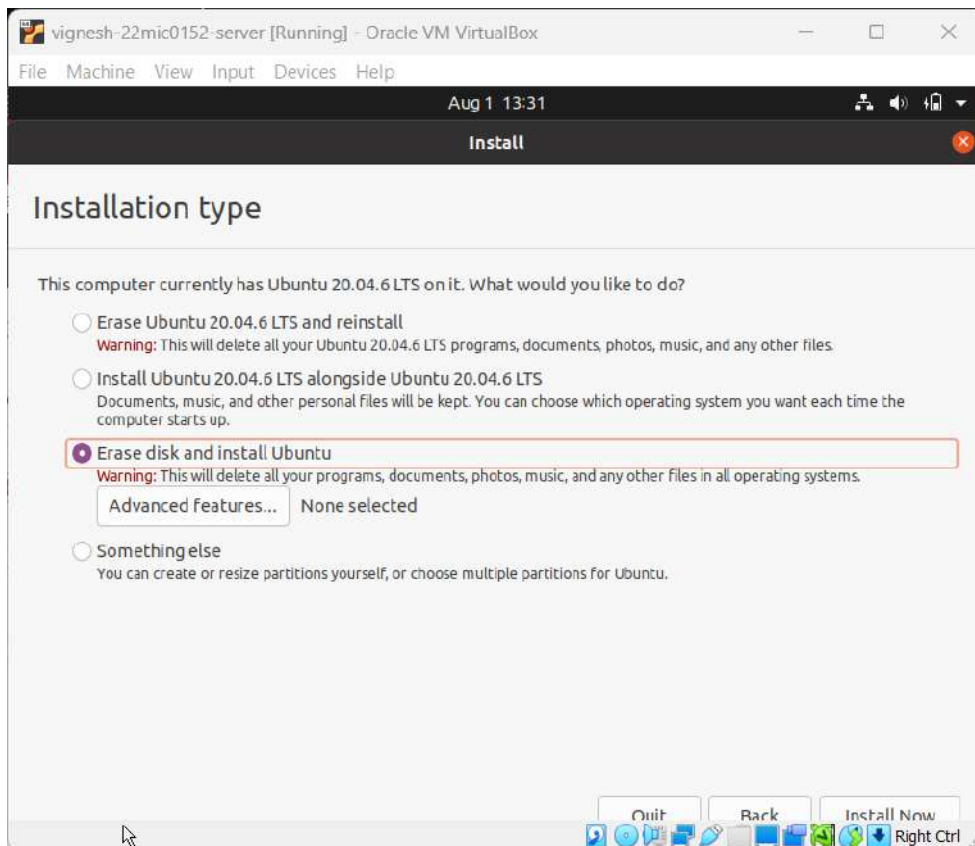


8: Click on “continue”:

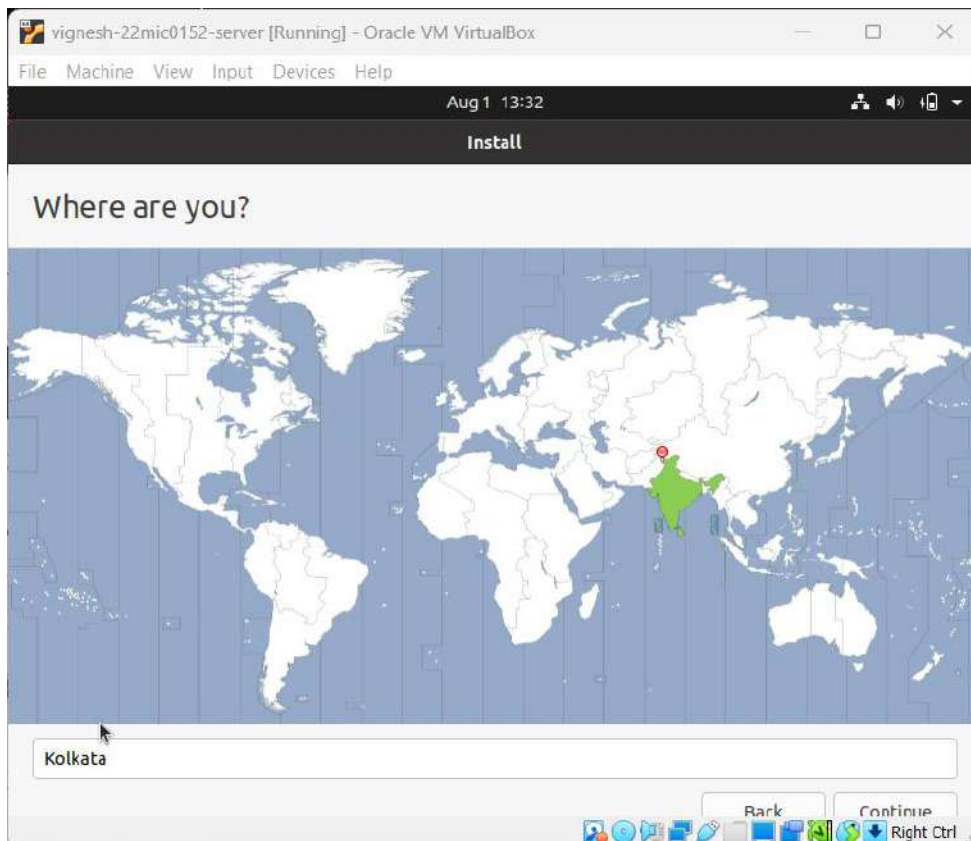


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9: Select “Erase disk and install Ubuntu” click “Install Now”:

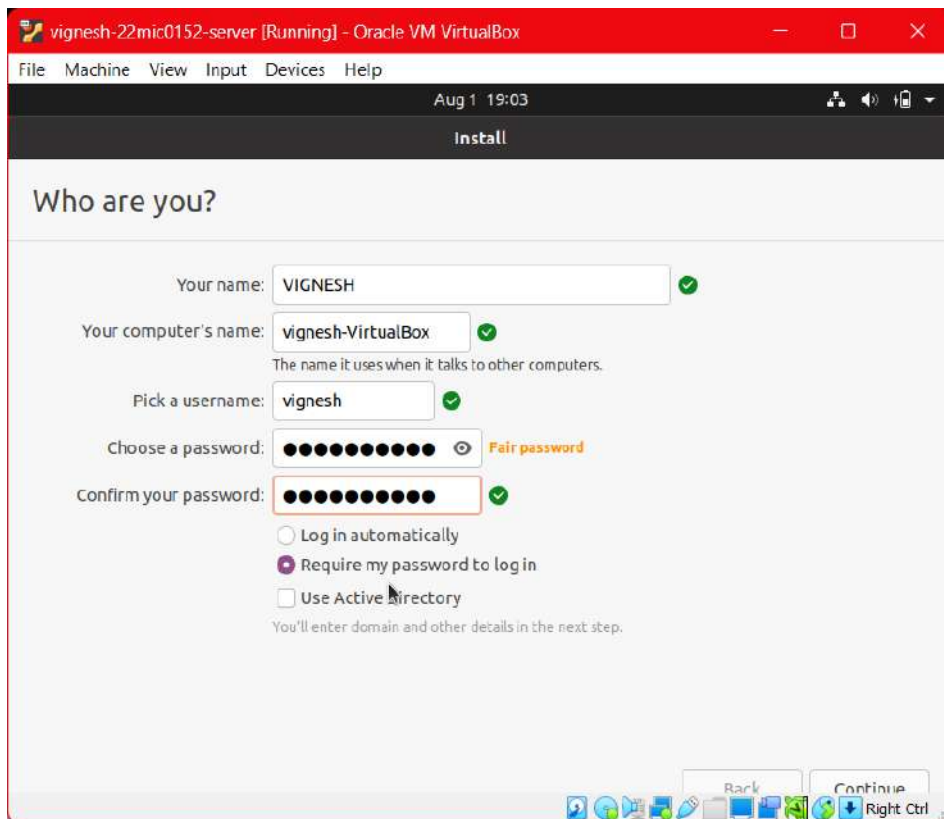


10: Select your **Time Zone (Kolkata)** and your **country (India)**:

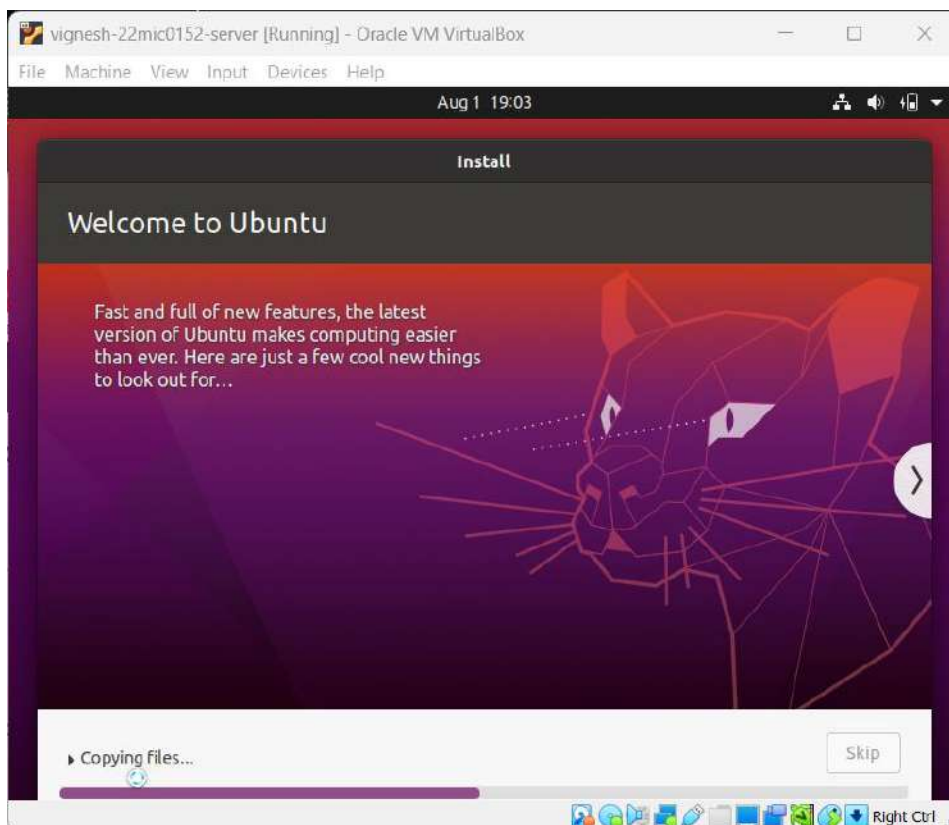


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11: Setup a new Username and Password for your Ubuntu VM (Remember your Password):

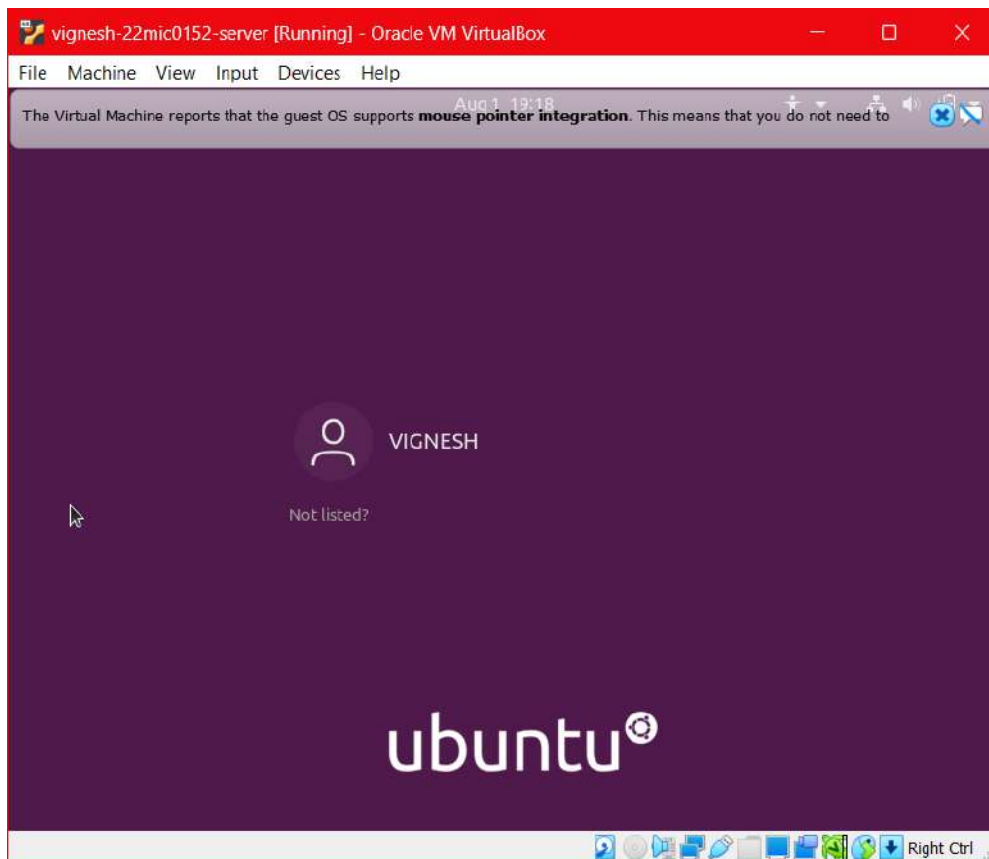


12: Let the Installation process complete (It may take a While) be patient and let the process complete and the pop up ask you for a “Restart”. Restart your Ubuntu:

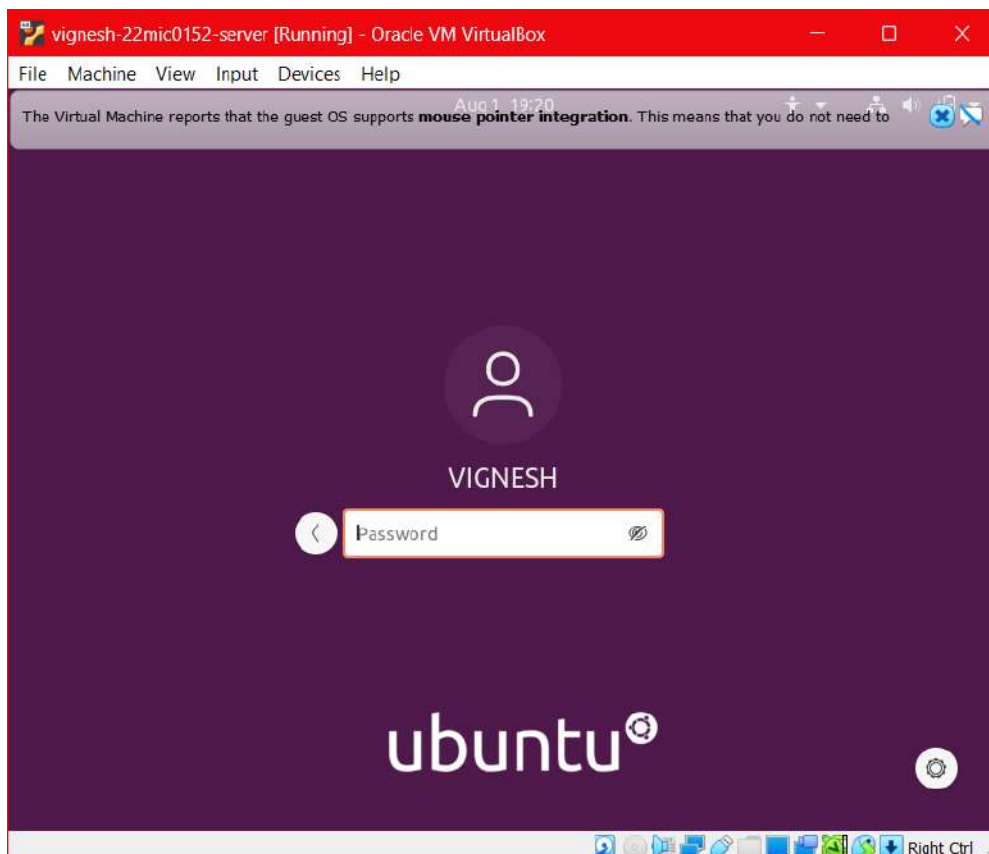


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13: After the Restart the first page will be Your Authentication Page:

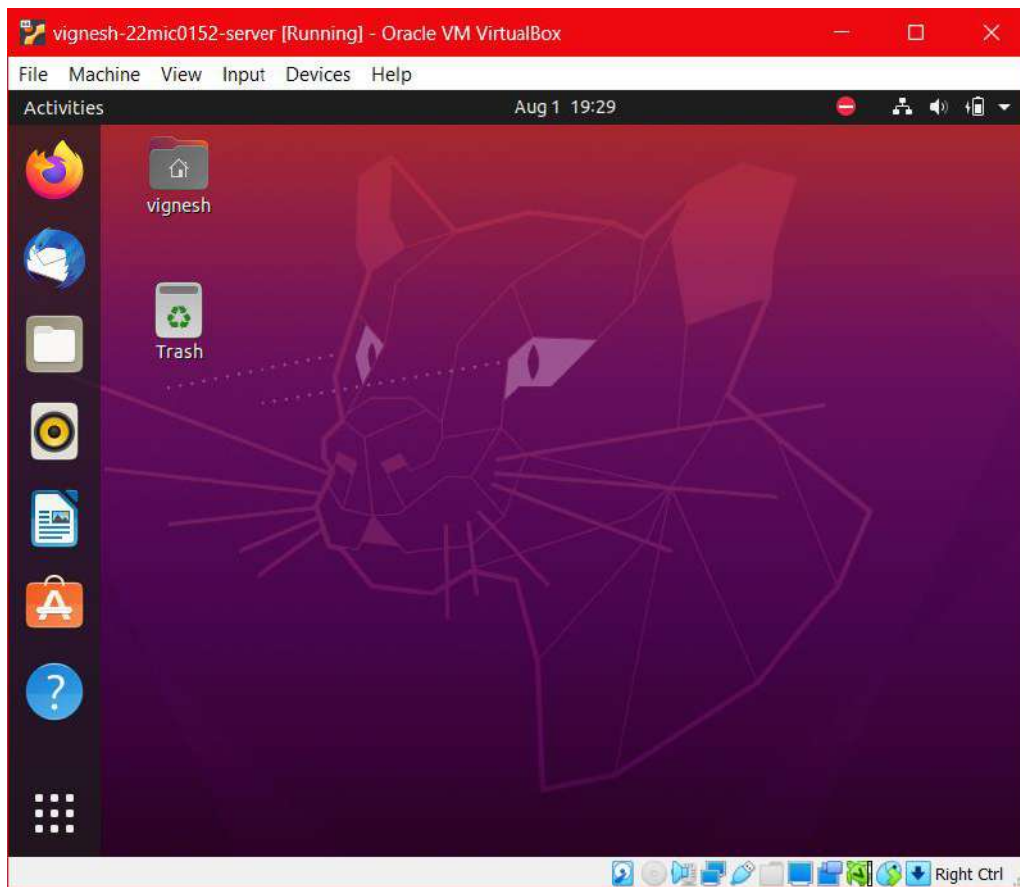


14: Enter your Password:

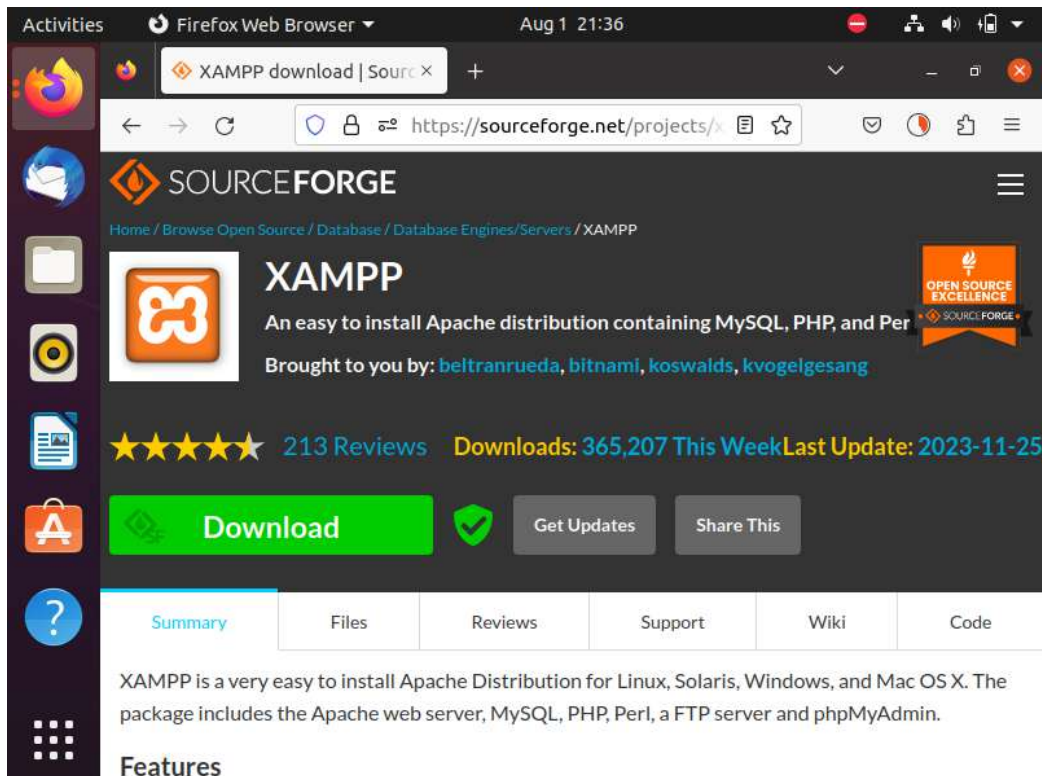


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15: This is Your opening page of your Ubuntu:

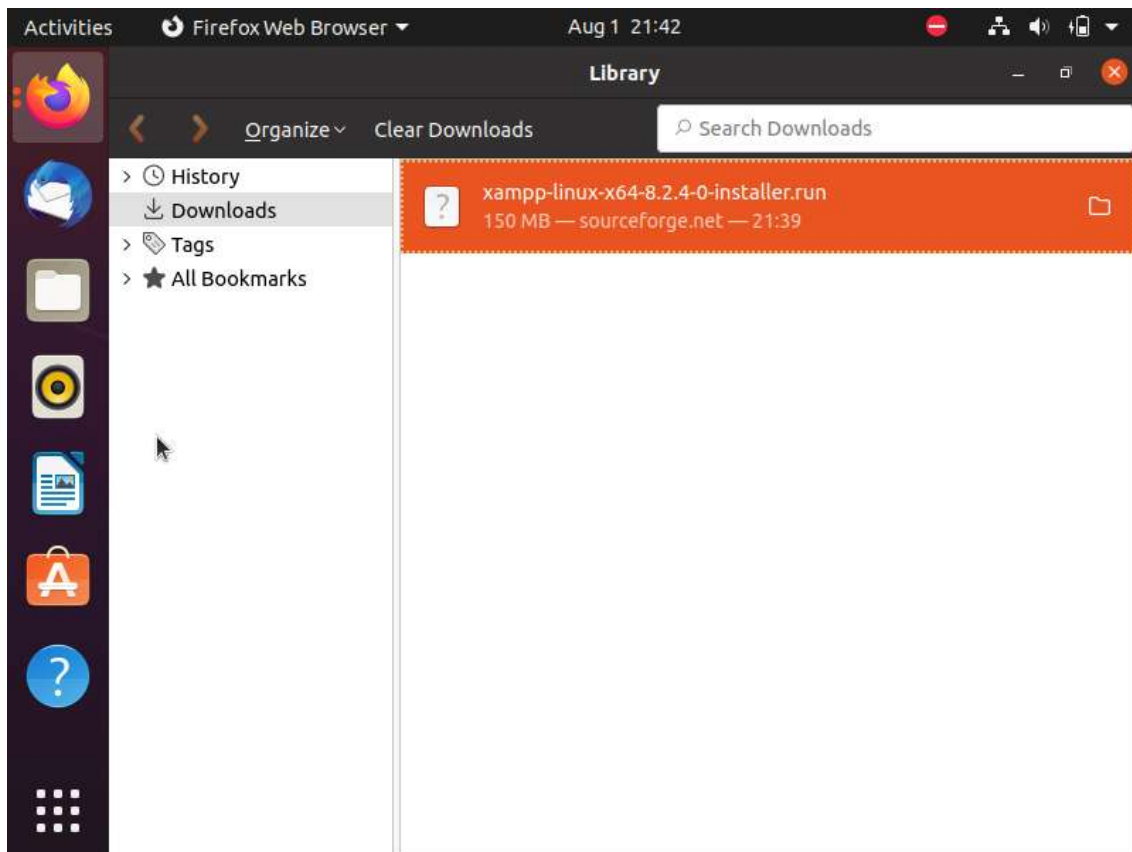


16: Open your Firefox in VM and Download XAMPP-Linux-x64-8.2.4-0-installer.run (Download XAMPP for Linux):

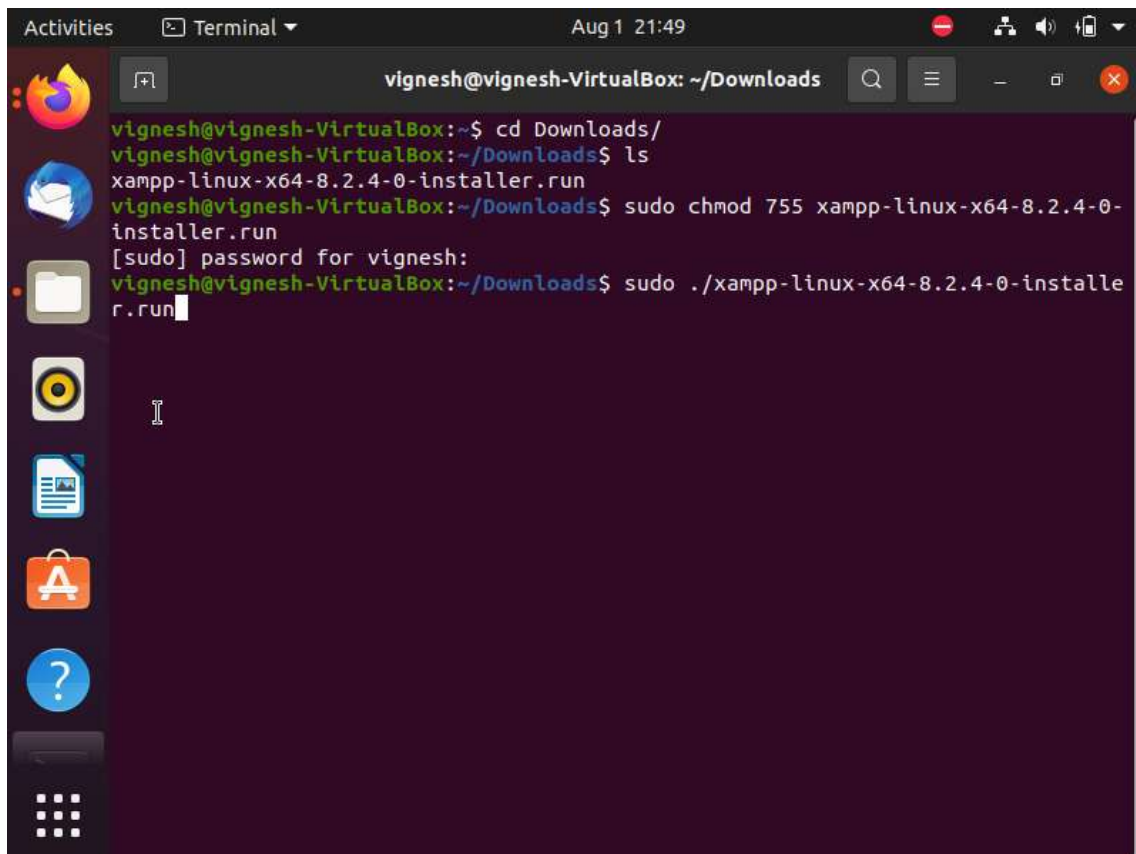


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17: Cross check once **XAMPP** is downloaded properly:

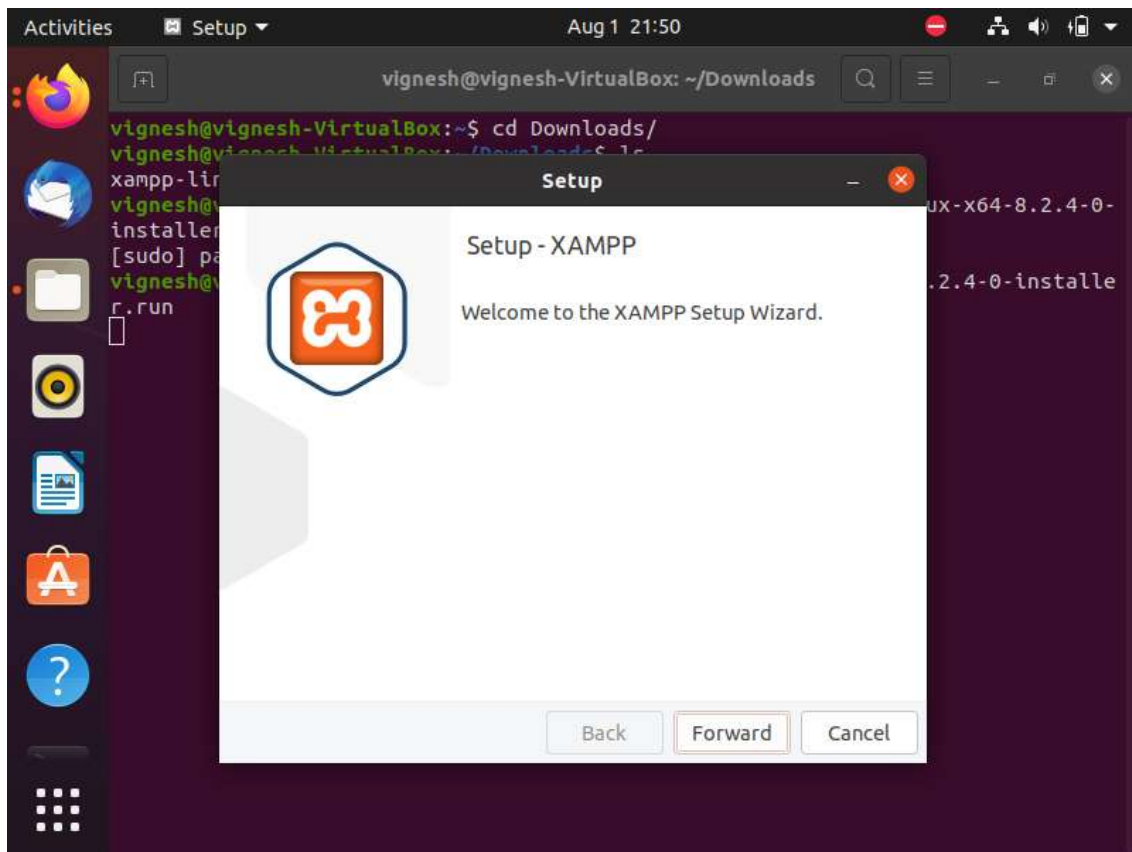


18: To setup the **XAMPP** in your Ubuntu, Enter the following codes in the **Terminal (in Linux)**:

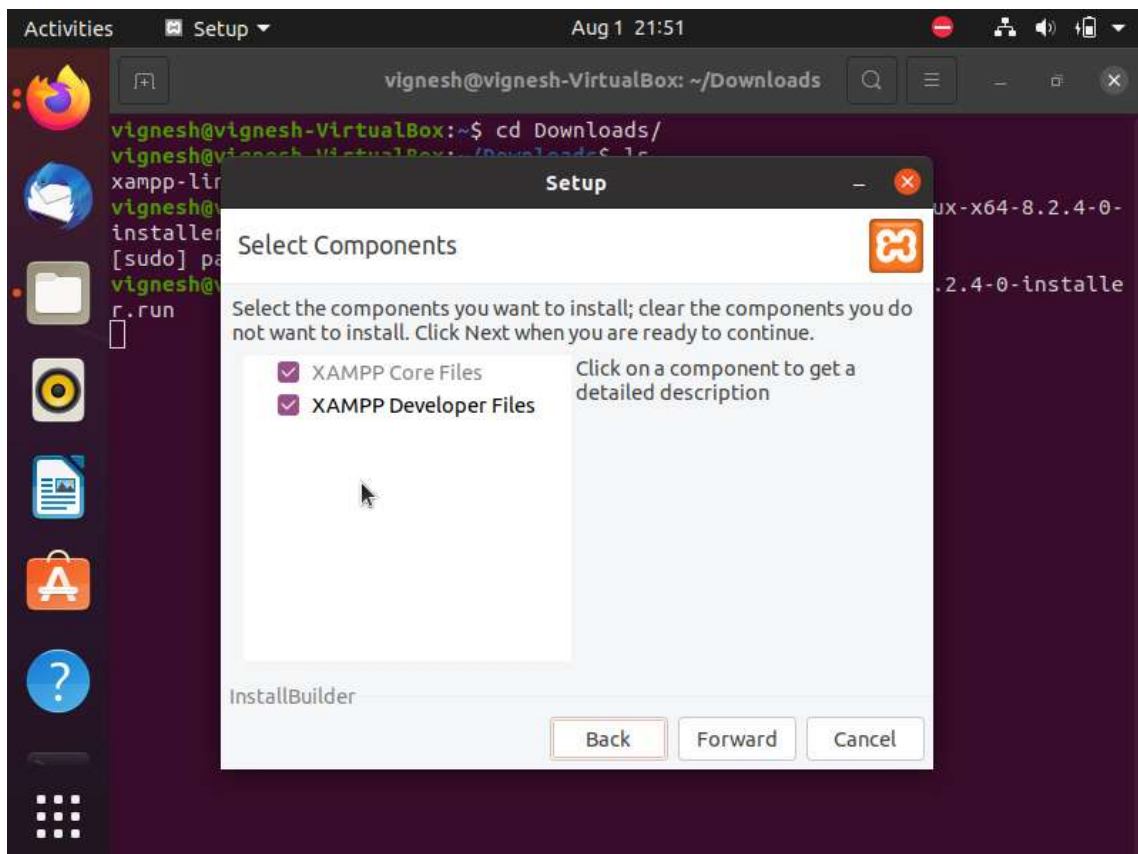


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19: A Setup Window Opens, click on “Forward”:

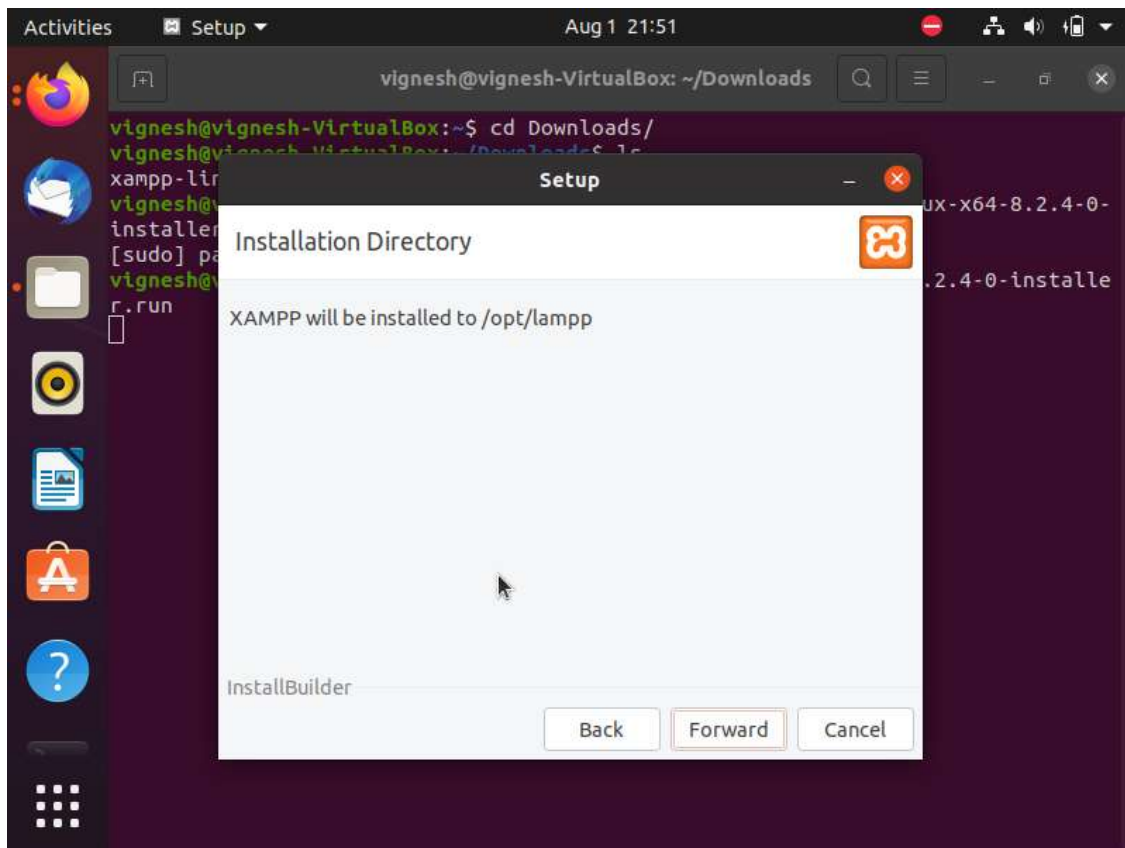


20: Click “Forward”:

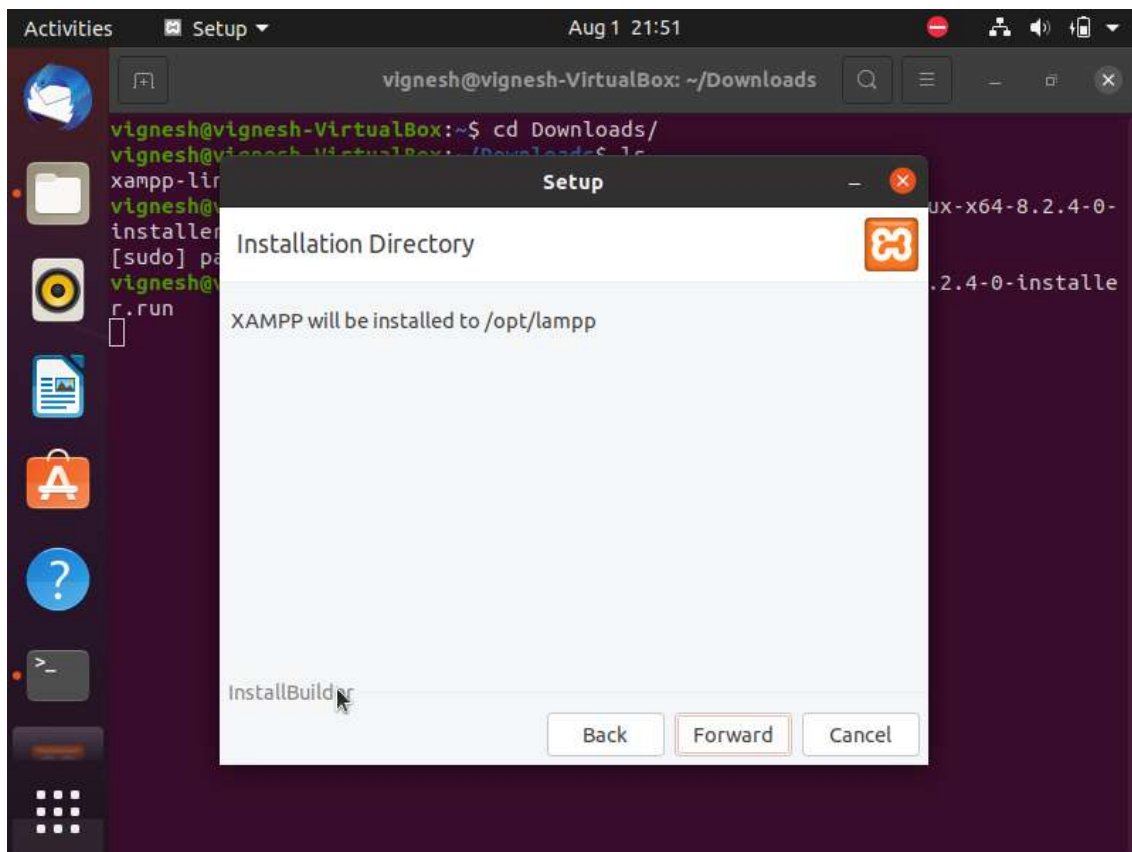


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21: Click “Forward”:

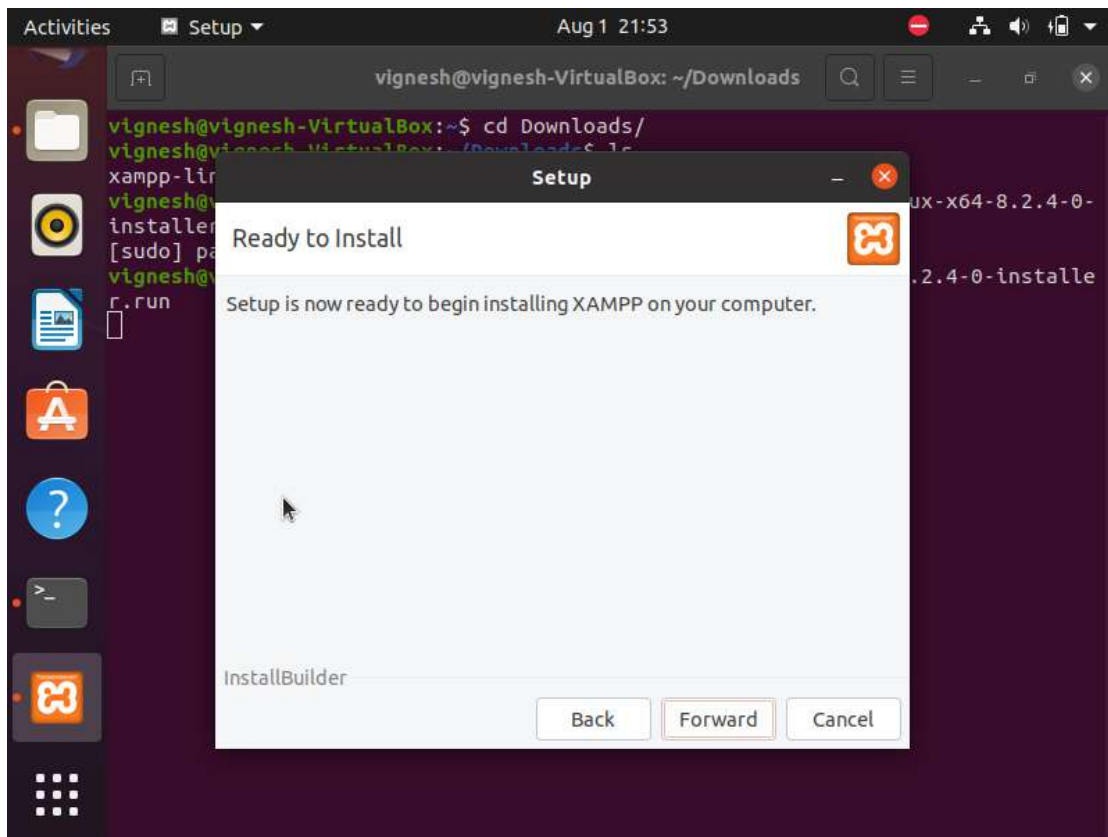


22: Click “Forward”:

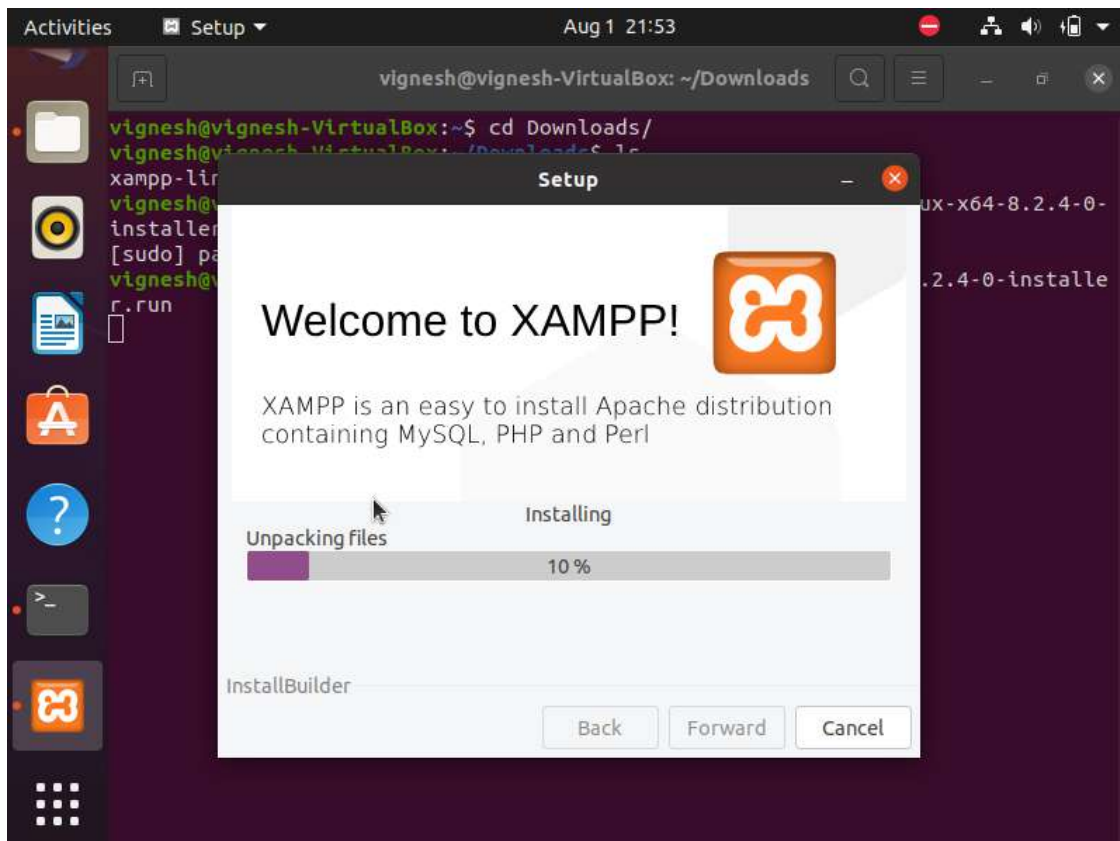


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23: Click “Forward”:



24: Let the Installation Process complete. Once the installation completed XAMPP window for the ubuntu will be opened automatically:

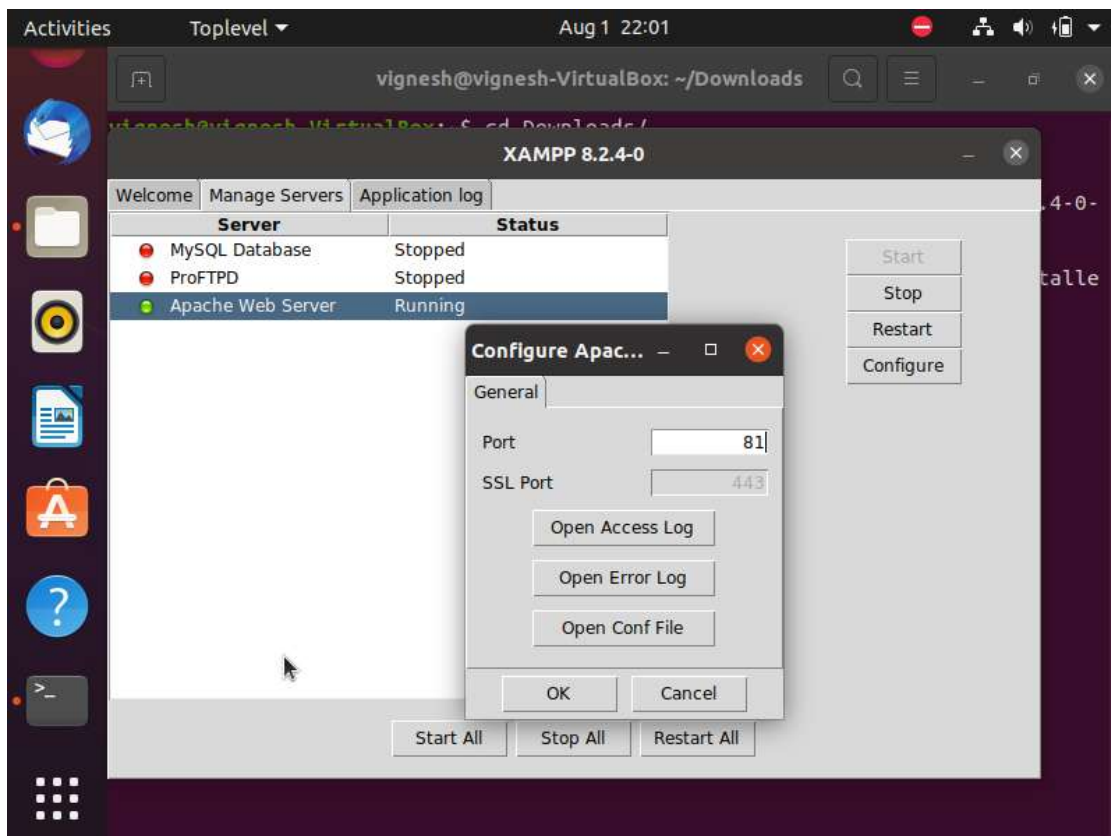


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25: This the Welcome page of XAMPP. Click on the “Get Started”:

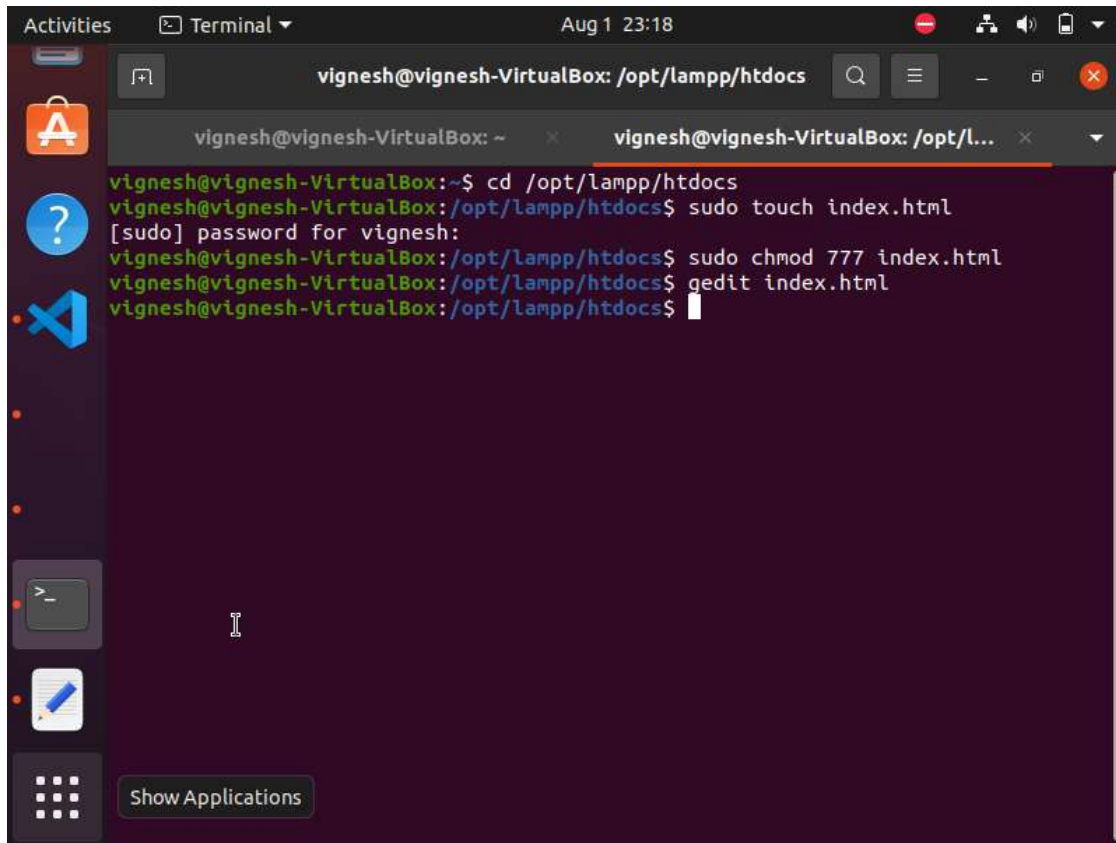


26: Set all the status as “Stopped” except “Apache Web Server” as “Running” and click “Configure” for “Apache Web Server” set the “Port” as 81:



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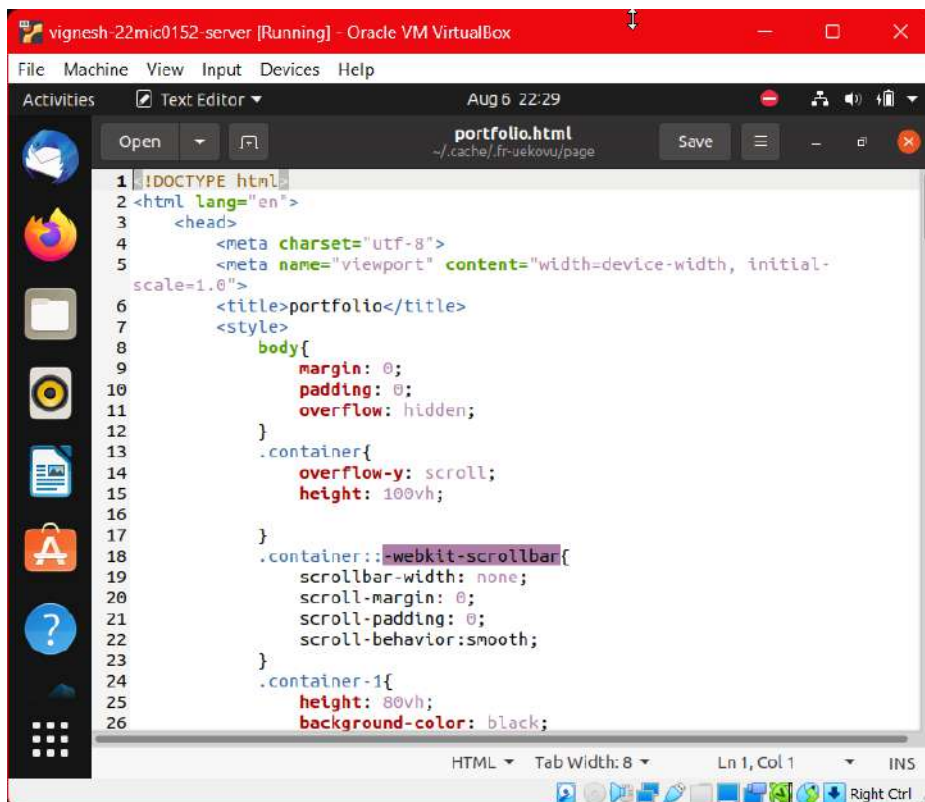
27: Enter the following Code in the **Ubuntu Terminal** to open the html file in the “**htdocs**” of the Ubuntu to make it to open over the network:



The screenshot shows an Ubuntu Terminal window with the following commands and output:

```
vignesh@vignesh-VirtualBox: /opt/lampp/htdocs
vignesh@vignesh-VirtualBox:~$ cd /opt/lampp/htdocs
vignesh@vignesh-VirtualBox:/opt/lampp/htdocs$ sudo touch index.html
[sudo] password for vignesh:
vignesh@vignesh-VirtualBox:/opt/lampp/htdocs$ sudo chmod 777 index.html
vignesh@vignesh-VirtualBox:/opt/lampp/htdocs$ gedit index.html
vignesh@vignesh-VirtualBox:/opt/lampp/htdocs$
```

28: A new html text area will be available on the Screen to text the html doc of your Profile:

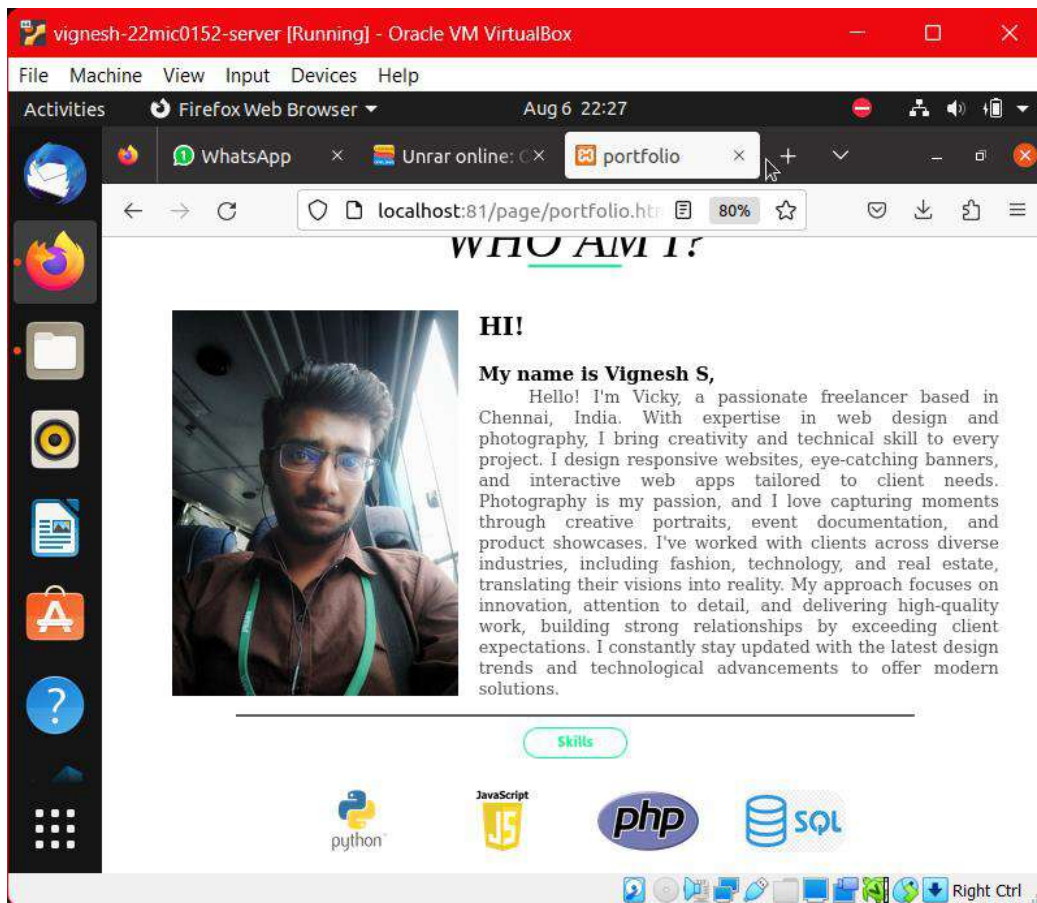


The screenshot shows a Text Editor window with the following content in the file `portfolio.html`:

```
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="width=device-width, initial-
6       scale=1.0">
7     <title>portfolio</title>
8     <style>
9       body{
10         margin: 0;
11         padding: 0;
12         overflow: hidden;
13       }
14       .container{
15         overflow-y: scroll;
16         height: 100vh;
17       }
18       .container::-webkit-scrollbar{
19         scrollbar-width: none;
20         scroll-margin: 0;
21         scroll-padding: 0;
22         scroll-behavior: smooth;
23       }
24       .container-1{
25         height: 80vh;
26         background-color: black;
```

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29: Open the Firefox and type “localhost:81” or “localhost:81/<file-name>” to check the page:



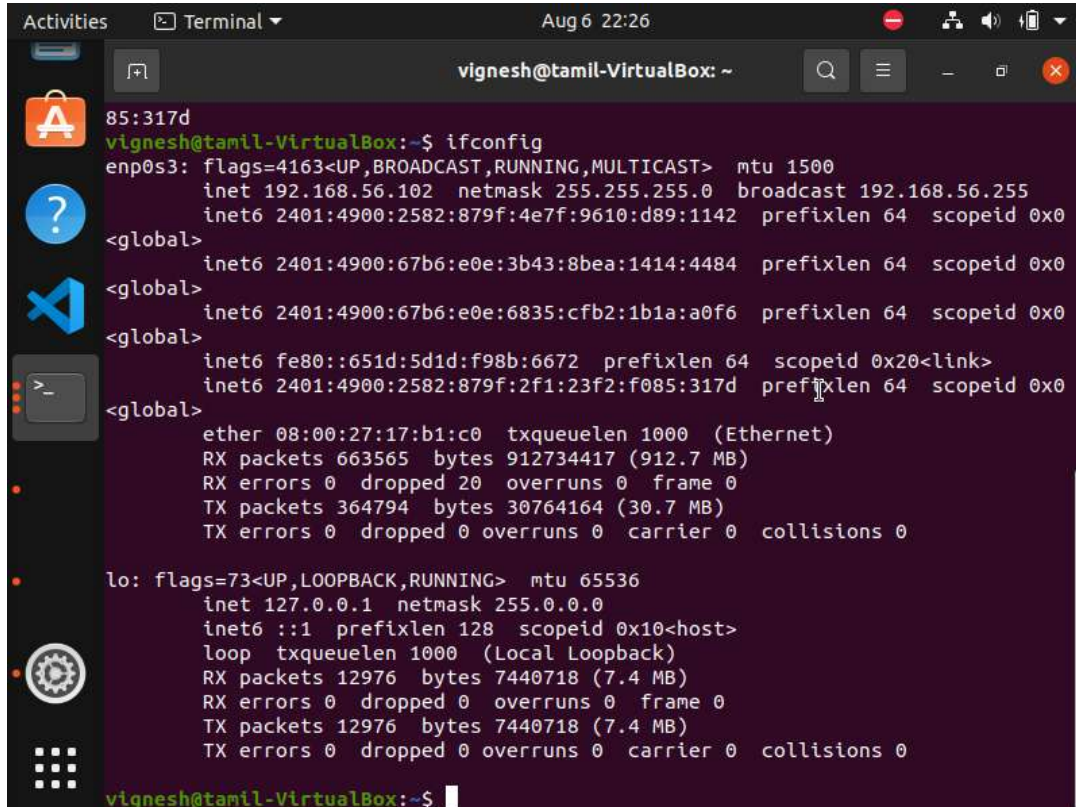
30: Download the **net-tools** using the following code in **Terminal (in Linux)**:

```
Activities Terminal Aug 1 23:24
vignesh@vignesh-VirtualBox: ~
vignesh@vignesh-VirtualBox:~$ sudo apt install net-tools
[sudo] password for vignesh:
Sorry, try again.
[sudo] password for vignesh:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  net-tools
0 upgraded, 1 newly installed, 0 to remove and 328 not upgraded.
Need to get 196 kB of archives.
After this operation, 864 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu focal/main amd64 net-tools amd64 1.60
+git20180626.aebd88e-1ubuntu1 [196 kB]
Fetched 196 kB in 2s (122 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 180809 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20180626.aebd88e-1ubuntu1_amd64.deb ...
Unpacking net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Setting up net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Processing triggers for man-db (2.9.1-1) ...
vignesh@vignesh-VirtualBox:~$
```

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31: Type “ifconfig” in the Terminal to check the IP Address of the Server (IP: 192.168.46.183)

Check on **enp0s3**’s “**inet**” value for the **IP ADDRESS** :

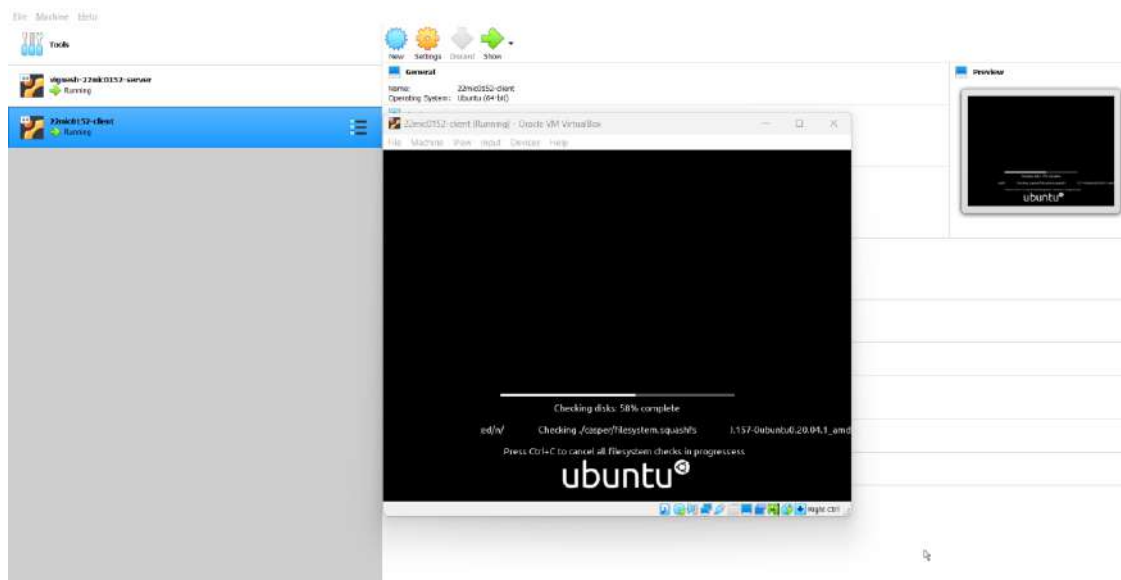
A terminal window titled 'vignesh@tamil-VirtualBox: ~' showing the output of the 'ifconfig' command. The output displays details for the 'enp0s3' interface, including its flags, MTU, and IP address (192.168.56.102). It also shows details for the loopback interface 'lo' with IP address 127.0.0.1. The terminal window has a dark background and standard Ubuntu icons on the left.

```
85:317d
vignesh@tamil-VirtualBox:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.56.102 netmask 255.255.255.0 broadcast 192.168.56.255
    inet6 2401:4900:2582:879f:4e7f:9610:d89:1142 prefixlen 64 scopeid 0x0
<global>
    inet6 2401:4900:67b6:e0e:3b43:8bea:1414:4484 prefixlen 64 scopeid 0x0
<global>
    inet6 2401:4900:67b6:e0e:6835:cfb2:1b1a:a0f6 prefixlen 64 scopeid 0x0
<global>
    inet6 fe80::651d:5d1d:f98b:6672 prefixlen 64 scopeid 0x20<link>
    inet6 2401:4900:2582:879f:2f1:23f2:f085:317d prefixlen 64 scopeid 0x0
<global>
    ether 08:00:27:17:b1:c0 txqueuelen 1000 (Ethernet)
    RX packets 663565 bytes 912734417 (912.7 MB)
    RX errors 0 dropped 20 overruns 0 frame 0
    TX packets 364794 bytes 30764164 (30.7 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 12976 bytes 7440718 (7.4 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 12976 bytes 7440718 (7.4 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

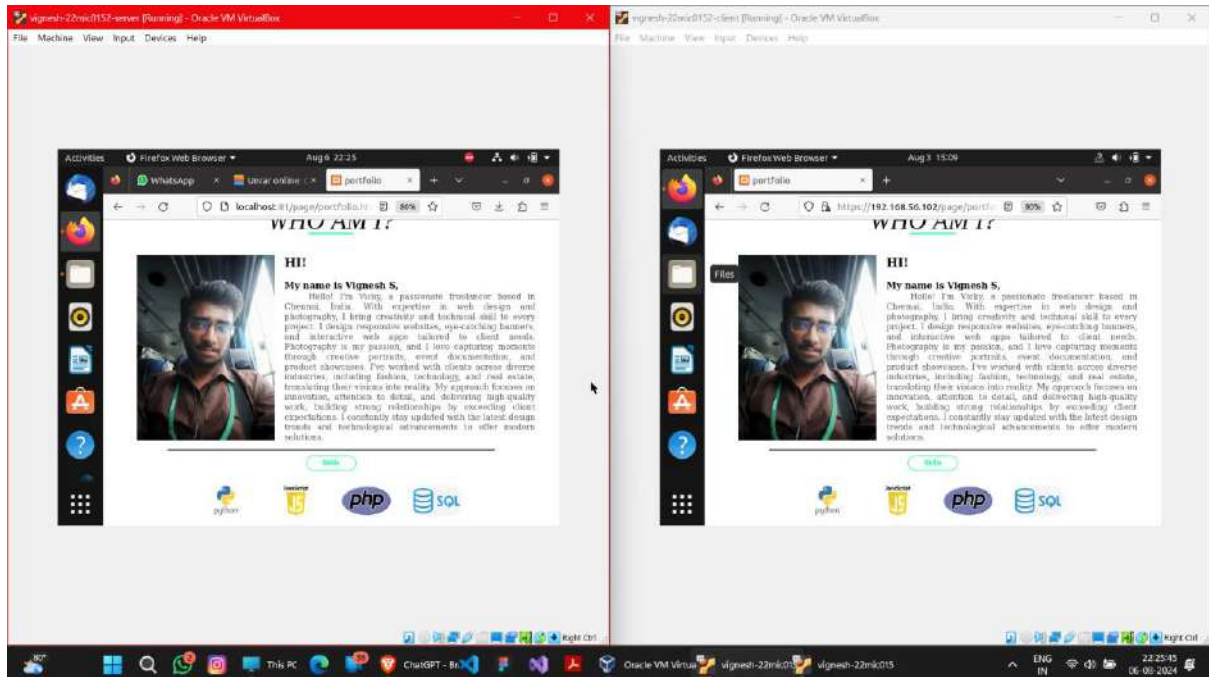
vignesh@tamil-VirtualBox:~$
```

32: Open a new VM as “Client” and follow the Step 2-15 for the Client:



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33: Open Firefox in your Client and Enter the IP Address of your Server with your html doc name (ie: IP_Address/<file-name>) in the search. Your html page will be opened in your Client VM:

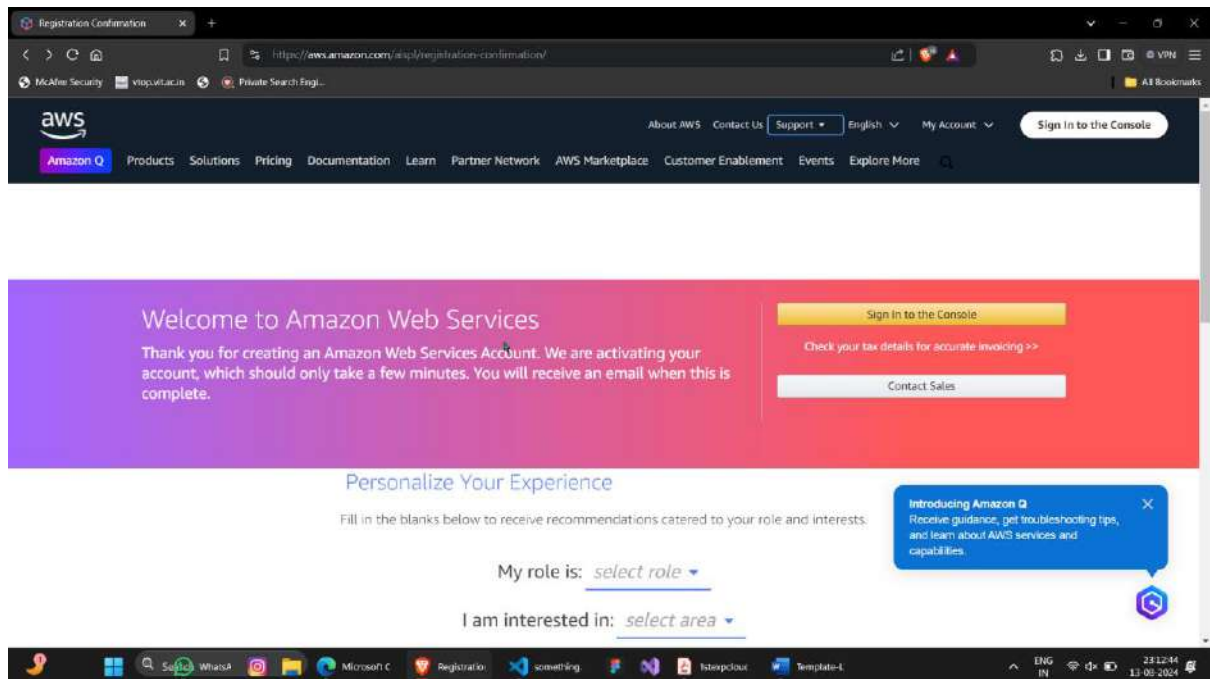


(NOTE: CHECK YOUR INTERNET CONNECTION FOR THIS STEP)

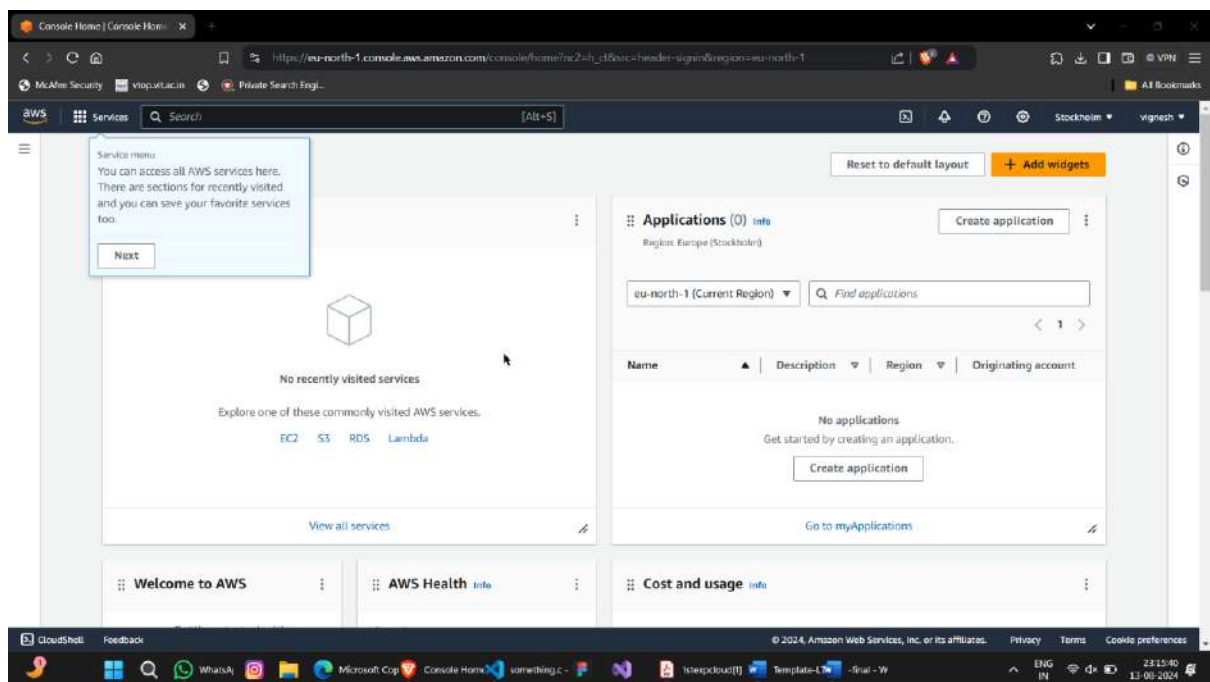
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QUESTION 2: Create and manage EC2 instances on AWS. Launch an application on an EC2 instance in one region and then migrate that instance to another region. Additionally, set up another EC2 instance to install MySQL, create a database (e.g., student or employee database), and perform basic SQL operations.

1: Open an AWS login page and click on “Sign in to the Console” to login in to your AWS account. Provide your login credentials (**email account and password**):

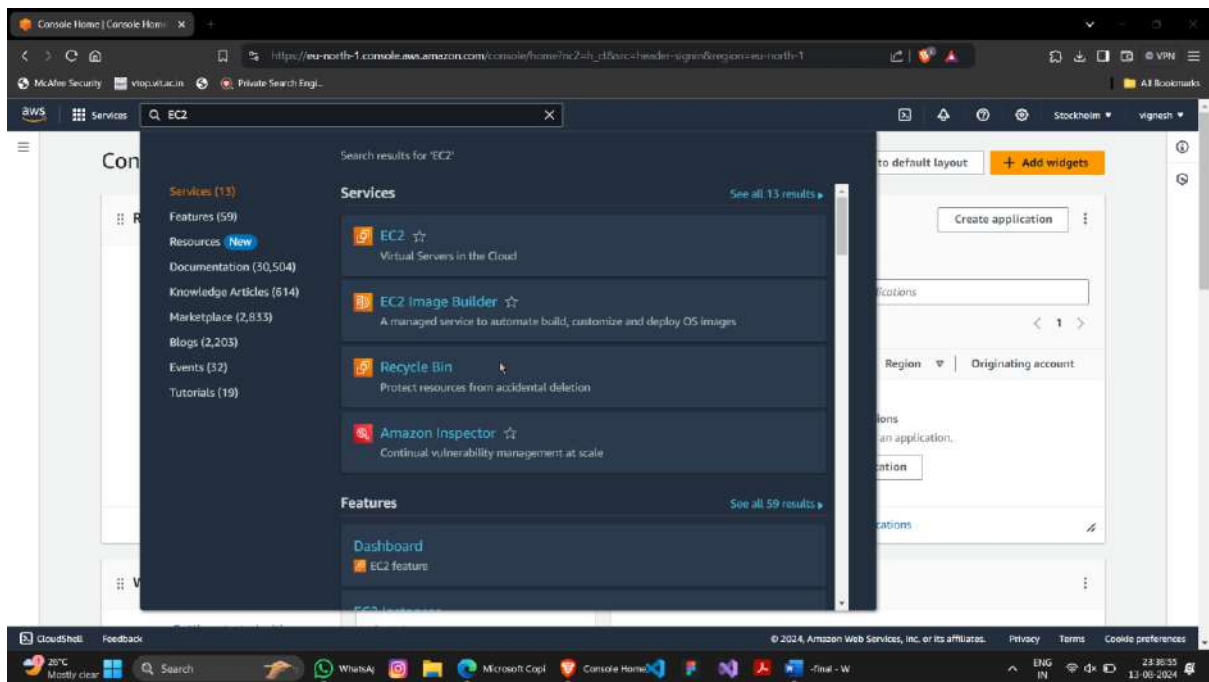


2: This is the welcome page of the AWS account:

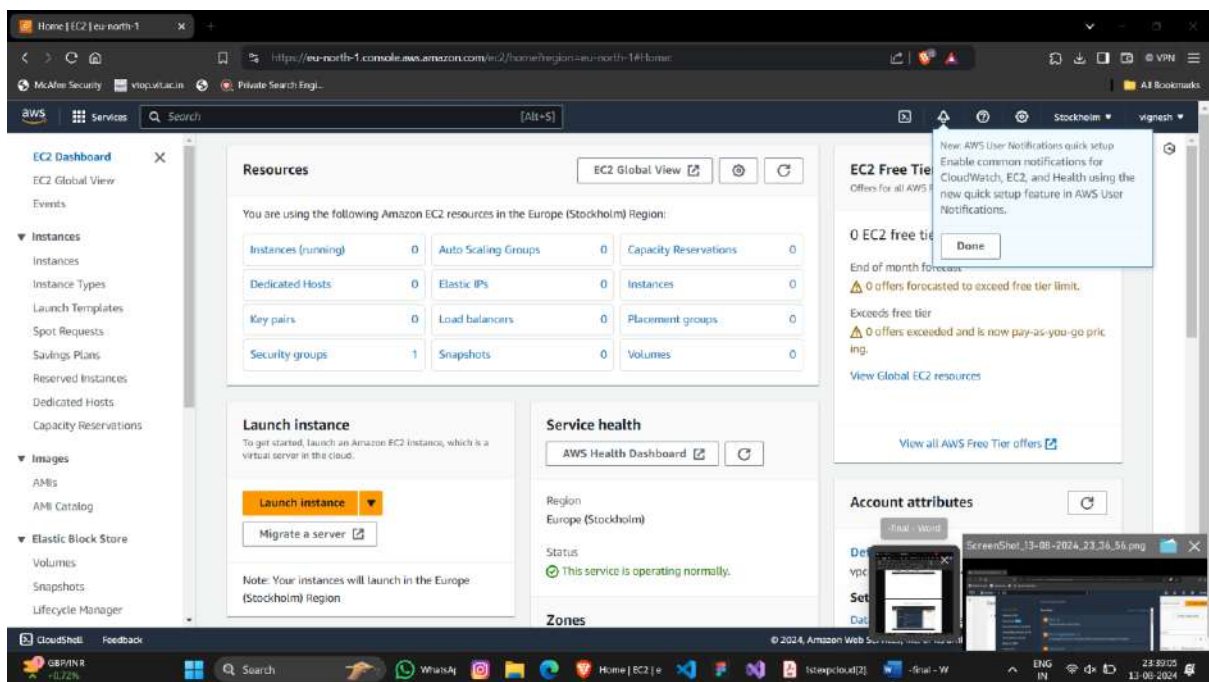


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3: Type EC2 in the search and Click on the EC2 (Virtual servers in the cloud):

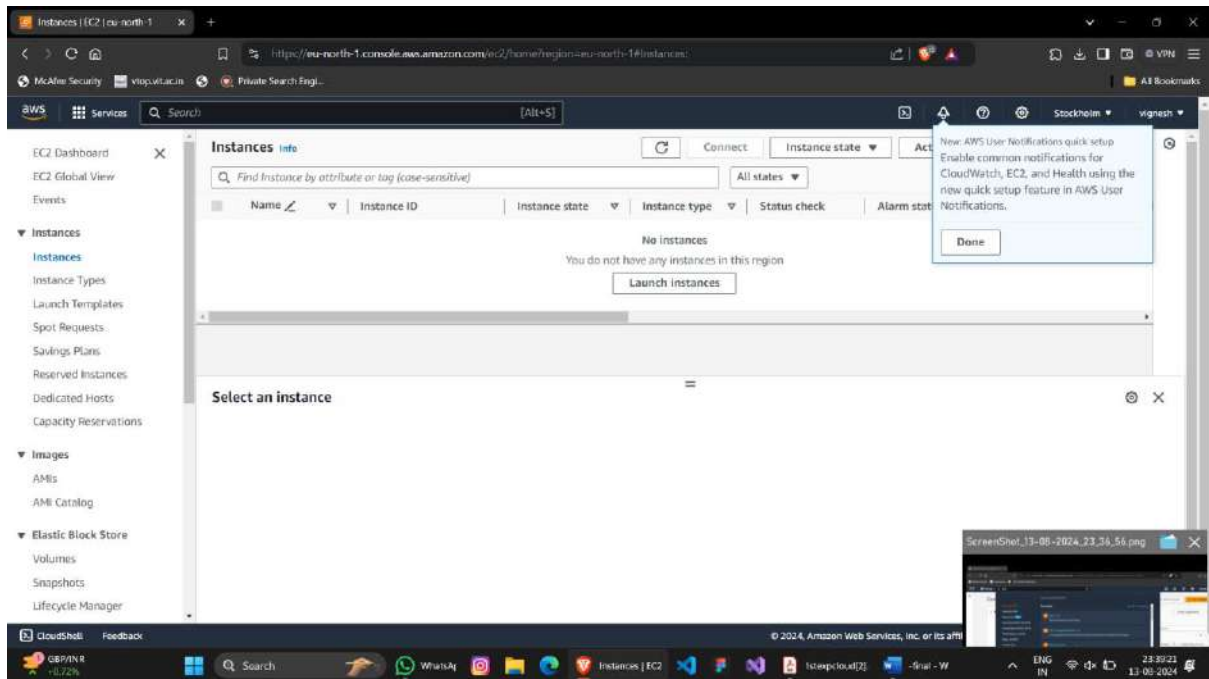


4: In the welcome page of the EC2 click on the “Instances” available on the “Navigation menu”:

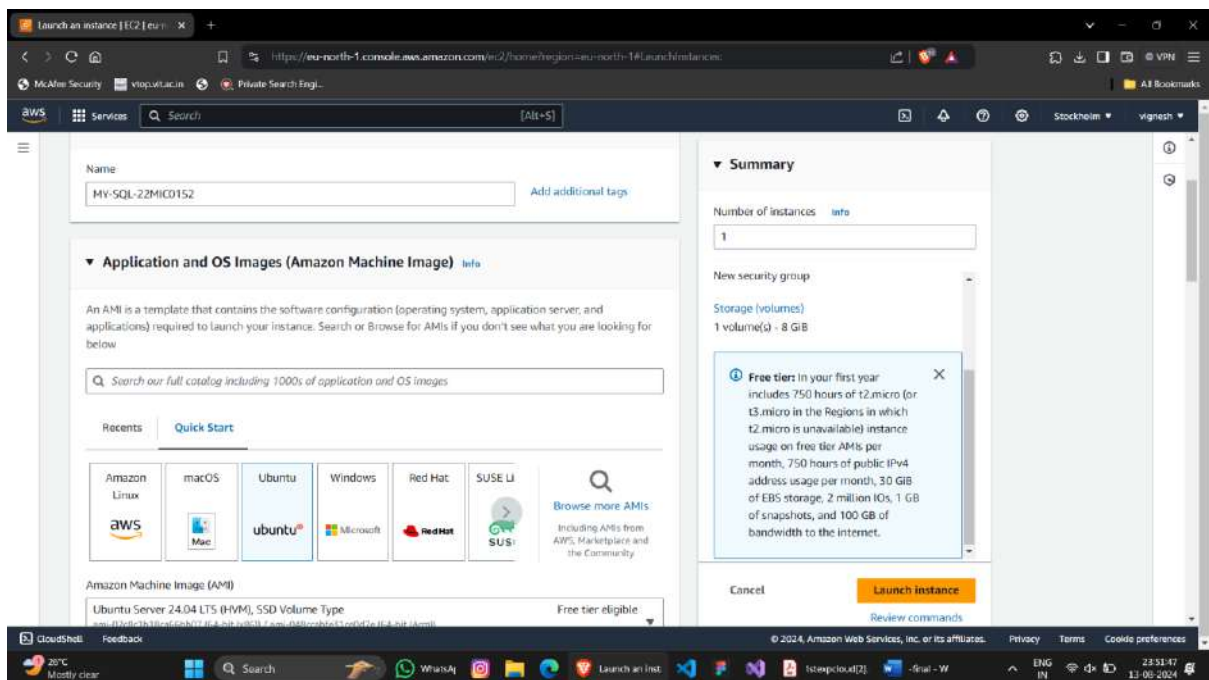


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5: Click on the “Launch Instances” available on the **Top-Right** corner of the Page to launch a new instance:

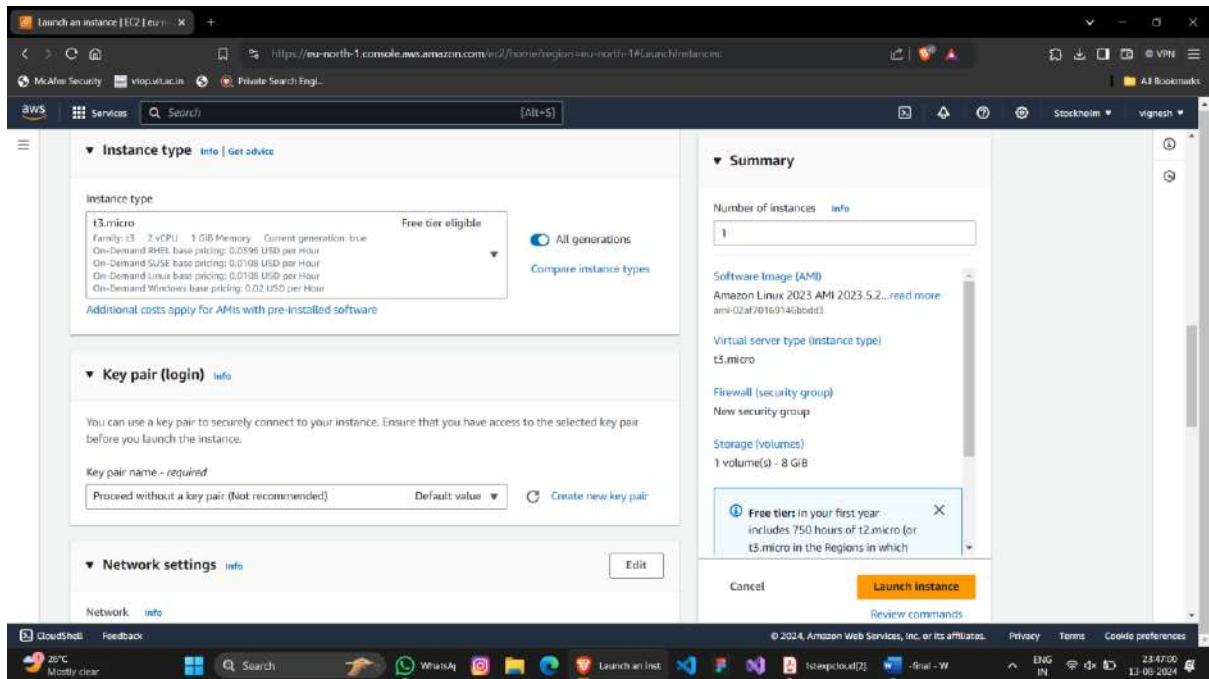


6: Give the instance a Name (ie... “MY-SQL-22MIC0152”) and select the Ubuntu in the “Quick Start” available on “Application and OS Image”:

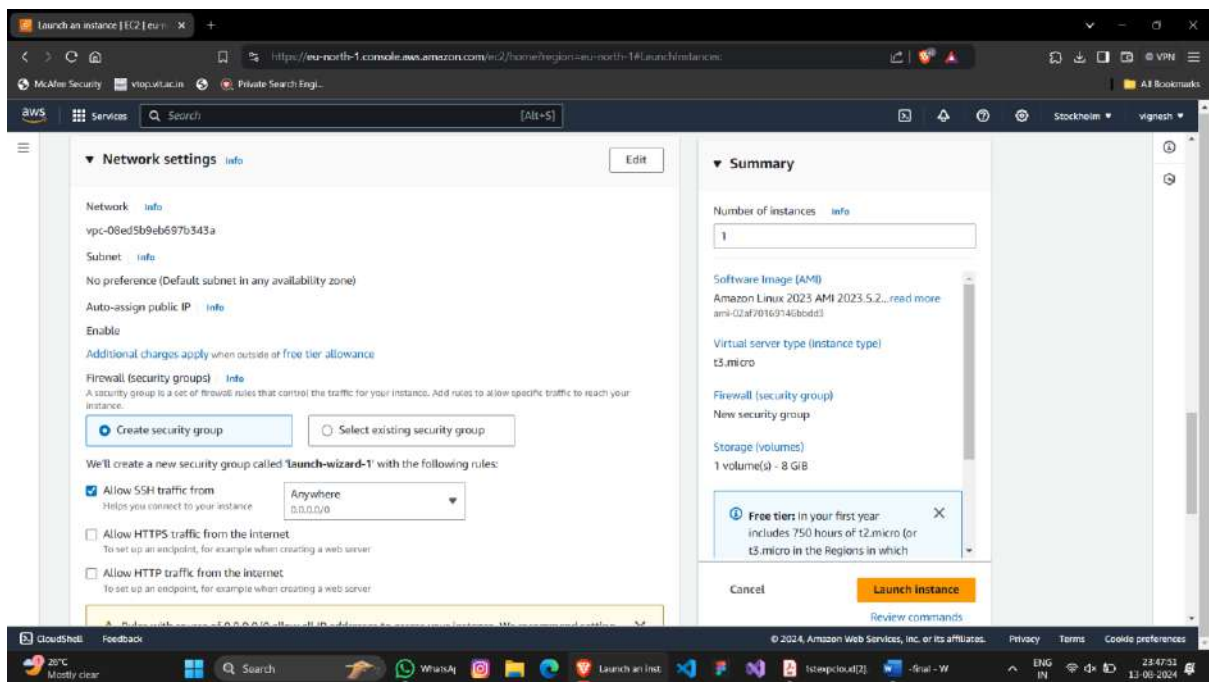


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7: Scroll down to change the **Instance type** to “t3.micro” and select the **Key pair(login)** to “Proceed without a Key Pair (Not Recommended)”:

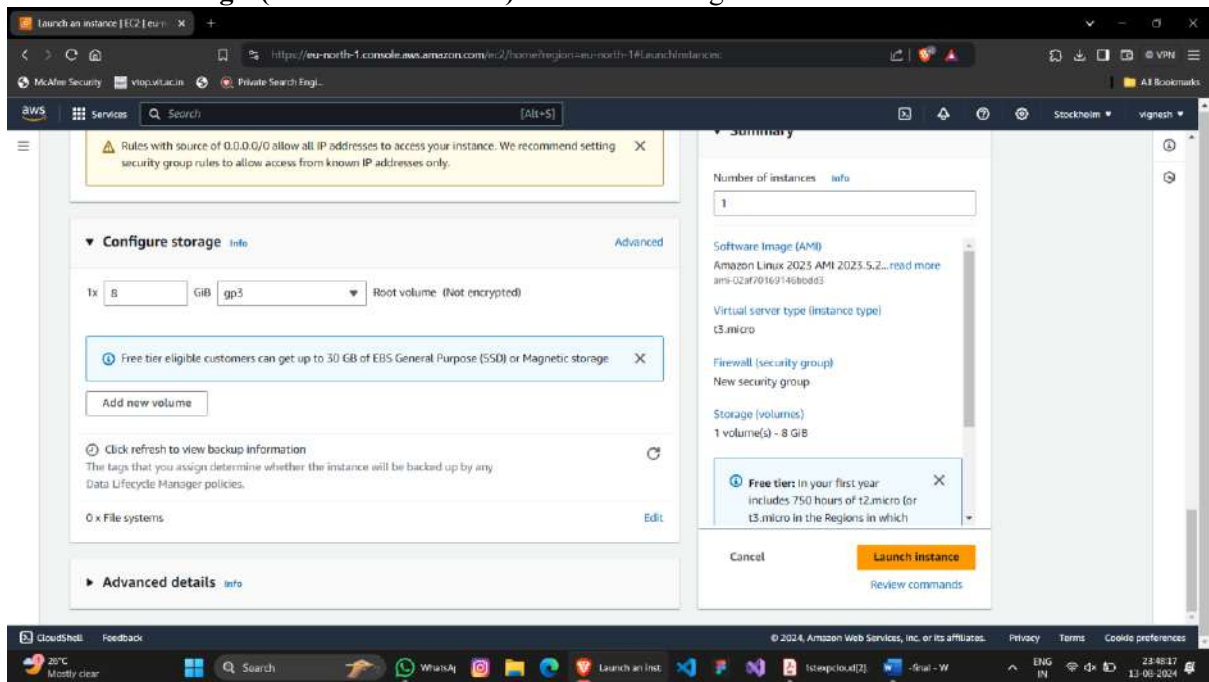


8: Let the **Network settings** be the Default values:

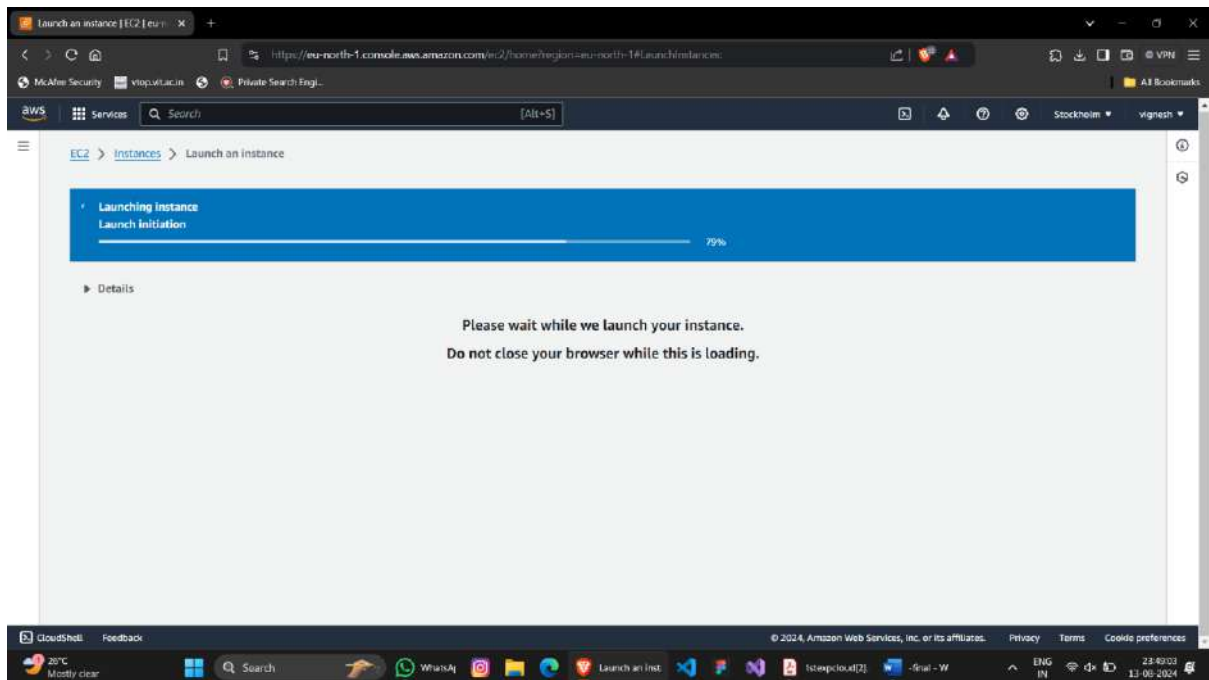


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9: Let the **Configure storage** values be **Default values**. Then click on the **Launch Instance** available on the **Bottom-Right(Yellow colored box)** corner of the Page:

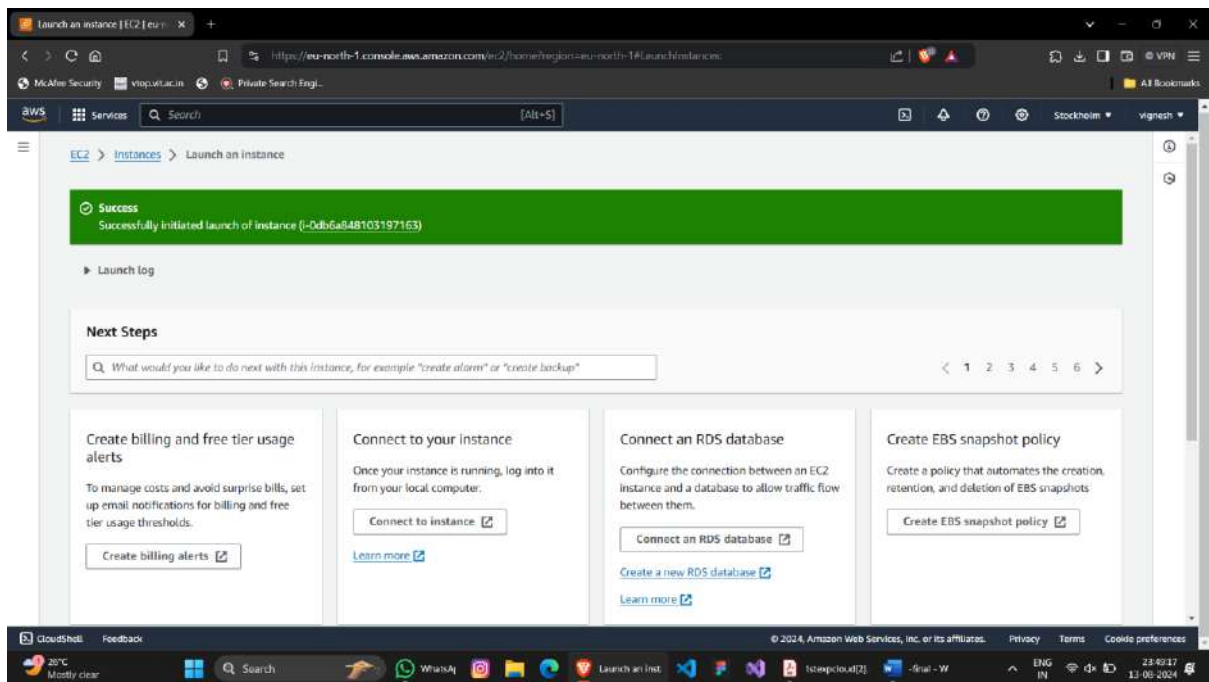


10: Launching an instance take a while, be patient till the process completes:

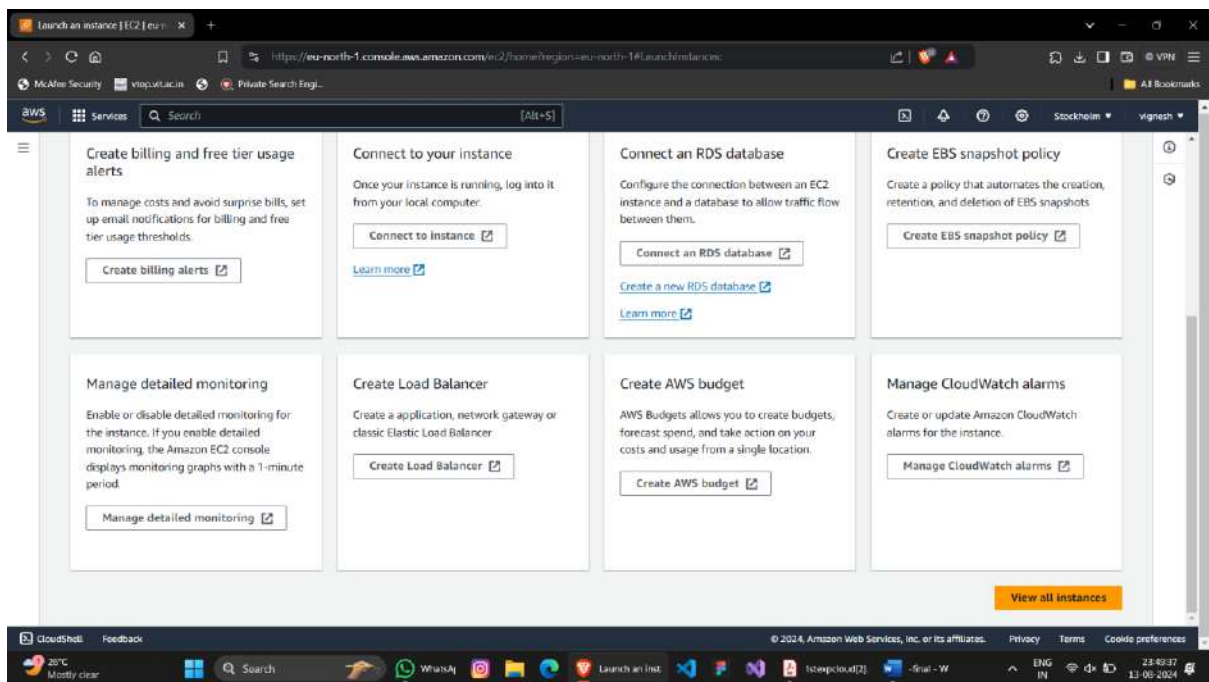


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11: A Success window opens when the **Launching of a instance** is **Successfully completed**:

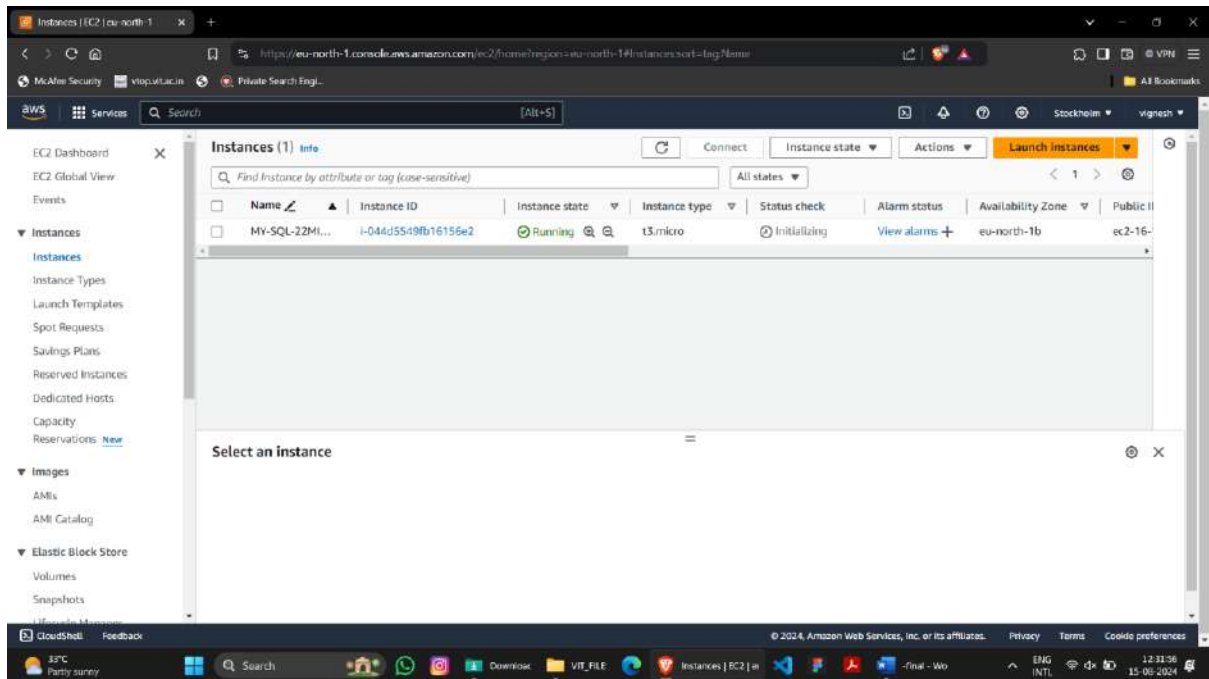


12: Scroll down a in a Success page and click on the **View all instances** available on the **Bottom-Right** corner of the page:

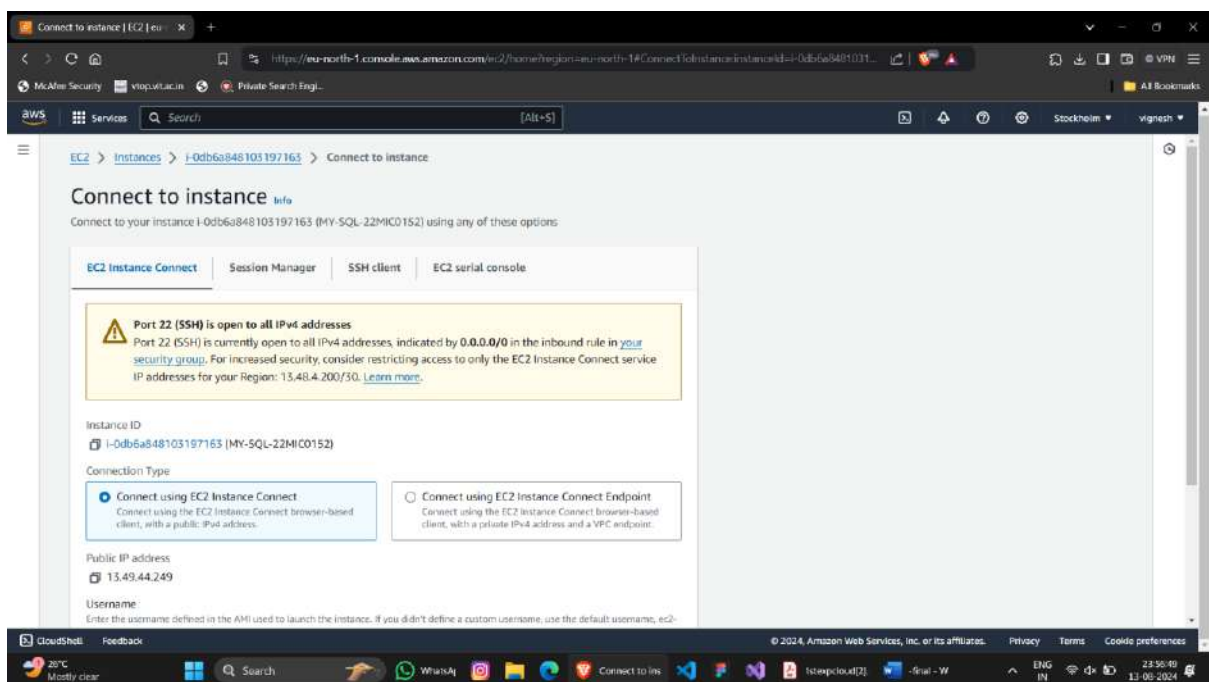


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13: Once a new Instance is created, Select the instance needed to be operated and click on the “Connect” button (Available once an Instance is been selected):

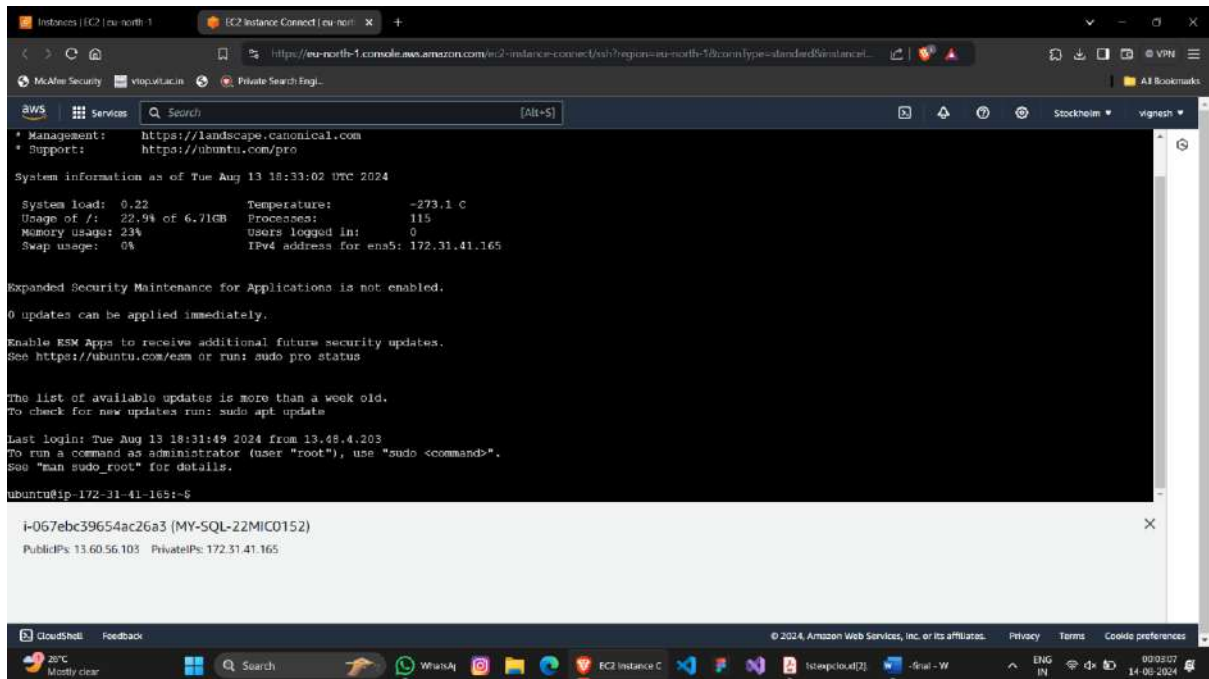


14: A Connect to instance portal opens. Select the Connection Type to “Connect using EC2 Instance Connect”:



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15: Once the previous step is completed the AWS will redirect you to another page of Ubuntu, where type “**sudo apt update**” to update the system:



```
aws
Services Search [Alt+S]
Management: https://landscape.canonical.com
Support: https://ubuntu.com/pro

System information as of Tue Aug 13 18:33:02 UTC 2024

System load: 0.22      Temperature: -273.1 C
Usage of /: 22.9% of 6.71GB    Processes: 115
Memory usage: 23%      Users logged in: 0
Swap usage: 0%          IPv4 address for ens5: 172.31.41.165

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

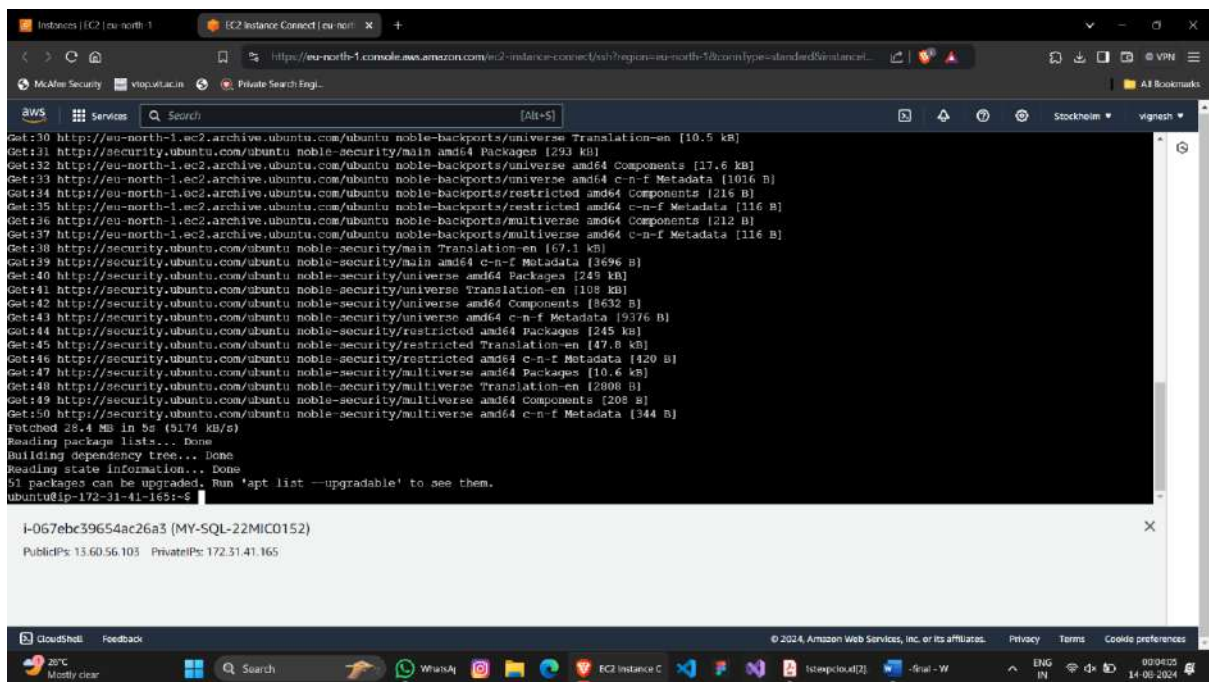
The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Tue Aug 13 18:31:49 2024 from 13.45.4.203
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-41-165:~$

i-067ebc39654ac26a3 (MY-SQL-22MIC0152)
PublicIPs: 13.60.56.103 PrivateIPs: 172.31.41.165
```

16: Once the system is updated, Install MySQL using “**sudo apt install mysql-server**”:



```
aws
Services Search [Alt+S]

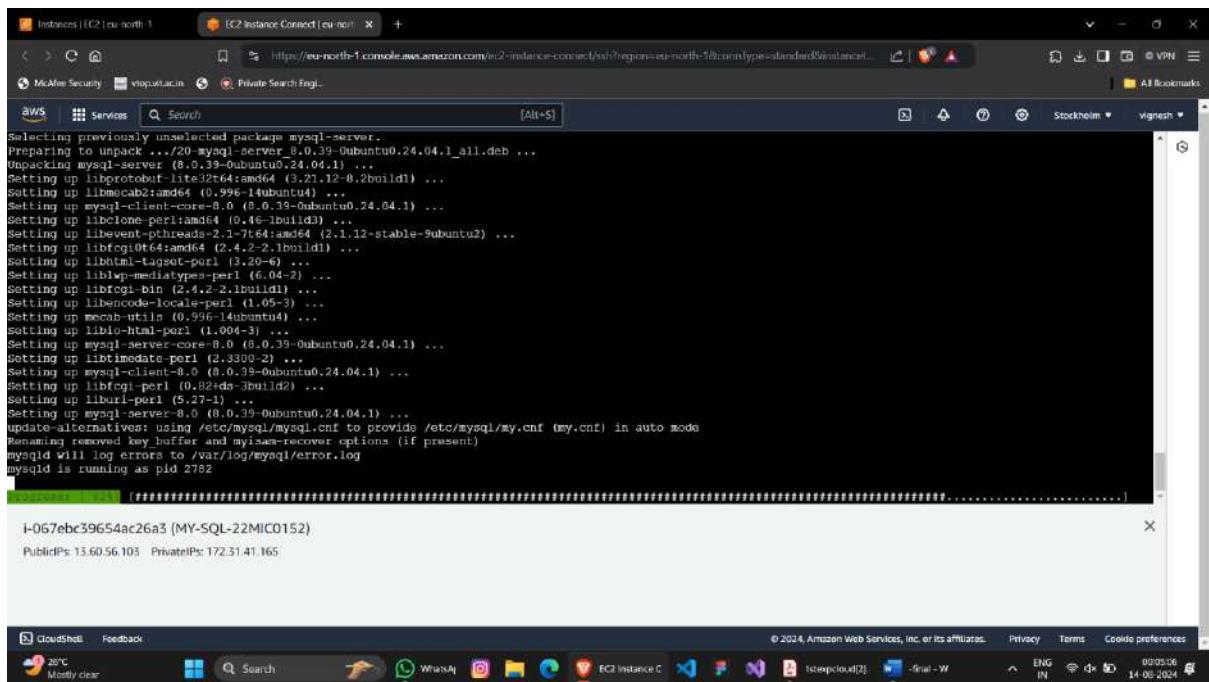
Get:30 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [10.5 kB]
Get:31 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [293 kB]
Get:32 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [17.6 kB]
Get:33 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1016 B]
Get:34 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:35 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [116 B]
Get:36 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:37 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:38 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [69.1 kB]
Get:39 http://security.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [13696 B]
Get:40 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [245 kB]
Get:41 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [108 kB]
Get:42 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [8632 B]
Get:43 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [9376 B]
Get:44 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [245 kB]
Get:45 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [47.6 kB]
Get:46 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 c-n-f Metadata [420 B]
Get:47 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [10.6 kB]
Get:48 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [2808 B]
Get:49 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B]
Get:50 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [344 B]
Fetched 28.4 MB in 5s (5174 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
51 packages can be upgraded. Run 'apt list --upgradable' to see them.

ubuntu@ip-172-31-41-165:~$

i-067ebc39654ac26a3 (MY-SQL-22MIC0152)
PublicIPs: 13.60.56.103 PrivateIPs: 172.31.41.165
```

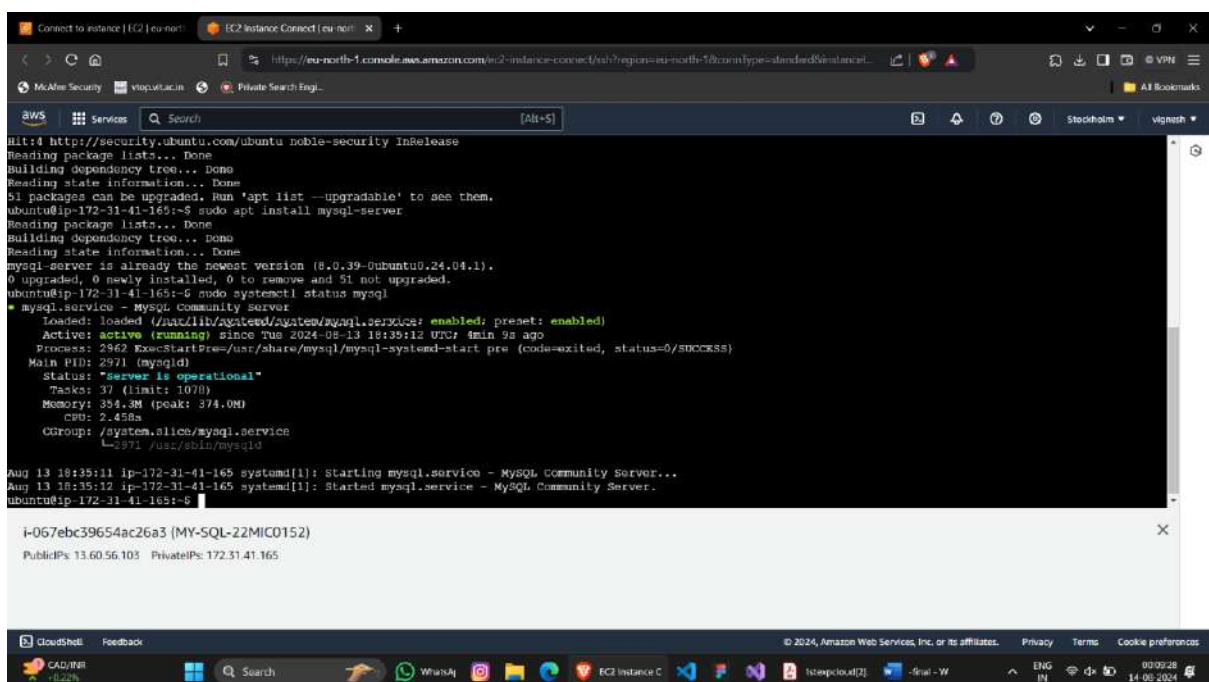
DIGITAL ASSIGNMENT - I

17: The installation a MYSql server may take some time, be patient till the process complete:



```
Selecting previously unselected package mysql-server.
Preparing to unpack .../20-mysql-server_8.0.39-0ubuntu0.24.04.1_all.deb ...
Unpacking mysql-server (8.0.39-0ubuntu0.24.04.1) ...
Setting up libprotobuf-lite32t64:amd64 (3.21.12-8.2build1) ...
Setting up libmca2t64:amd64 (0.998-1ubuntu4) ...
Setting up mysql-client-core-8.0 (8.0.39-0ubuntu0.24.04.1) ...
Setting up libclone-perl:amd64 (0.46-1build3) ...
Setting up libevent-pthreads-2.1-7t64:amd64 (2.1.12-stable-9ubuntu2) ...
Setting up libfcgi0t64:amd64 (2.4.2-2.1build1) ...
Setting up libhtml-tagset-perl (3.20-6) ...
Setting up liblwp-mediatypes-perl (6.04-2) ...
Setting up libfcgi-bin (2.4.2-2.1build1) ...
Setting up libencode-locale-perl (1.05-3) ...
Setting up mecab-util (0.996-1ubuntu4) ...
Setting up libio-html-perl (1.004-3) ...
Setting up mysql-server-core-8.0 (8.0.39-0ubuntu0.24.04.1) ...
Setting up libtimedate-perl (2.3300-2) ...
Setting up mysql-client-8.0 (8.0.39-0ubuntu0.24.04.1) ...
Setting up libfcgi-perl (0.02ds-3build2) ...
Setting up liburi-perl (5.27-1) ...
Setting up mysql-server-8.0 (8.0.39-0ubuntu0.24.04.1) ...
update-alternatives: using /etc/mysql/mysql.cnf to provide /etc/mysql/my.cnf (my.cnf) in auto mode
Renaming removed key buffer and myisam-recover options (if present)
mysqld will log errors to /var/log/mysql/error.log
mysqld is running as pid 2782
```

18: Use “`sudo systemctl status mysql`” to check the Status of the MYSql:

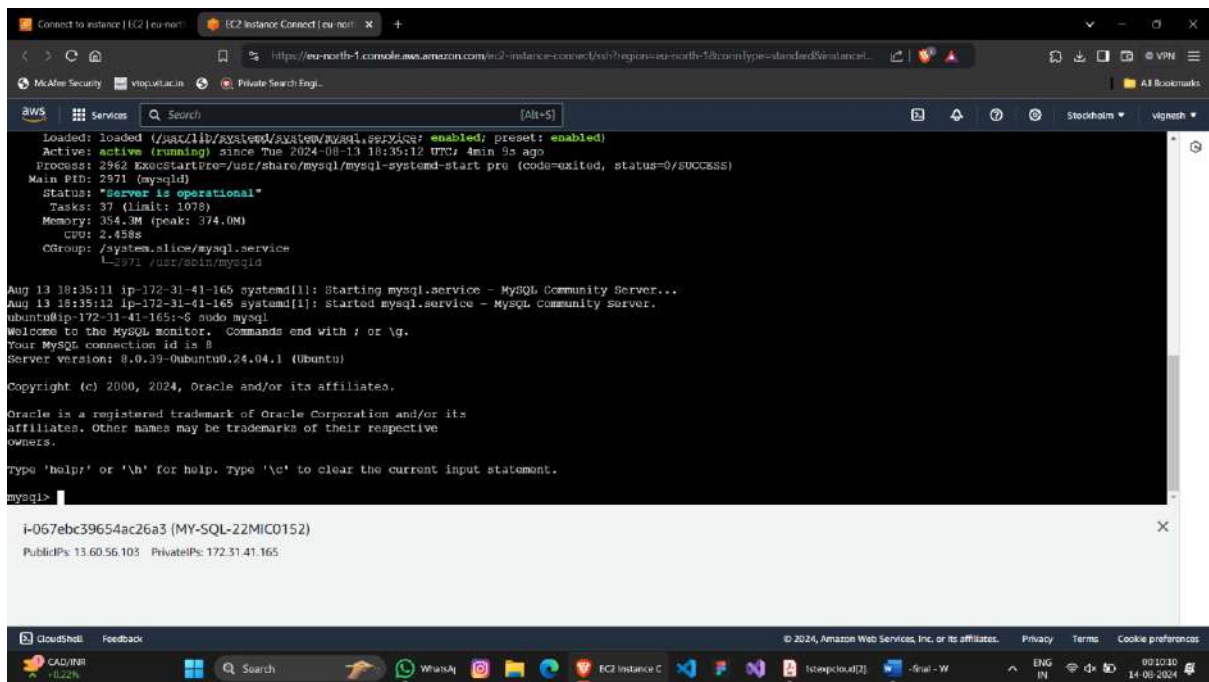


```
Hit:1 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
51 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-41-165:~$ sudo apt install mysql-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
mysql-server is already the newest version (8.0.39-0ubuntu0.24.04.1).
0 upgraded, 0 newly installed, 0 to remove and 51 not upgraded.
ubuntu@ip-172-31-41-165:~$ sudo systemctl status mysql
mysql.service - MySQL Community Server
   Loaded: loaded (/usr/lib/systemd/system/mysql.service; enabled; preset: enabled)
   Active: active (running) since Tue 2024-08-13 18:39:12 UTC; 4min 9s ago
     Process: 2962 ExecStartPre=/usr/share/mysql/mysql-systemd-start pre (code=exited, status=0/SUCCESS)
    Main PID: 2971 (mysqld)
      Status: "Server is operational"
        Tasks: 37 (limit: 1078)
      Memory: 354.3M (peak: 374.0M)
         CPU: 2.458s
   CGroup: /system.slice/mysql.service
           └─2971 /usr/sbin/mysqld

Aug 13 18:35:11 ip-172-31-41-165 systemd[1]: Starting mysql.service - MySQL Community Server...
Aug 13 18:35:12 ip-172-31-41-165 systemd[1]: Started mysql.service - MySQL Community Server.
ubuntu@ip-172-31-41-165:~$
```

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19: Open MYSql using “sudo mysql”:



The screenshot shows a terminal window connected to an AWS EC2 instance. The terminal output displays the status of the MySQL service, which is loaded, active, and running. It also shows the command to start the MySQL service and the successful login to the MySQL prompt. The terminal output is as follows:

```
Loaded: loaded (/usr/lib/systemd/system/mysql.service; enabled; preset: enabled)
Active: active (running) since Tue 2024-08-13 18:35:12 UTC; 4min 9s ago
Process: 2962 ExecStartPre=/usr/share/mysql/mysql-systemd-start pre (code=exited, status=0/SUCCESS)
Main PID: 2971 (mysqld)
Status: "Server is operational"
Tasks: 37 (limit: 1078)
Memory: 354.3M (peak: 374.0M)
CPU: 2.458s
CGroup: /system.slice/mysql.service
└─2971 /usr/sbin/mysqld

Aug 13 18:35:11 ip-172-31-41-165 systemd[1]: Starting mysql.service - MySQL Community Server...
Aug 13 18:35:12 ip-172-31-41-165 systemd[1]: Started mysql.service - MySQL Community Server.
ubuntu@ip-172-31-41-165:~$ sudo mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.39-0ubuntu0.24.04.1 (Ubuntu)

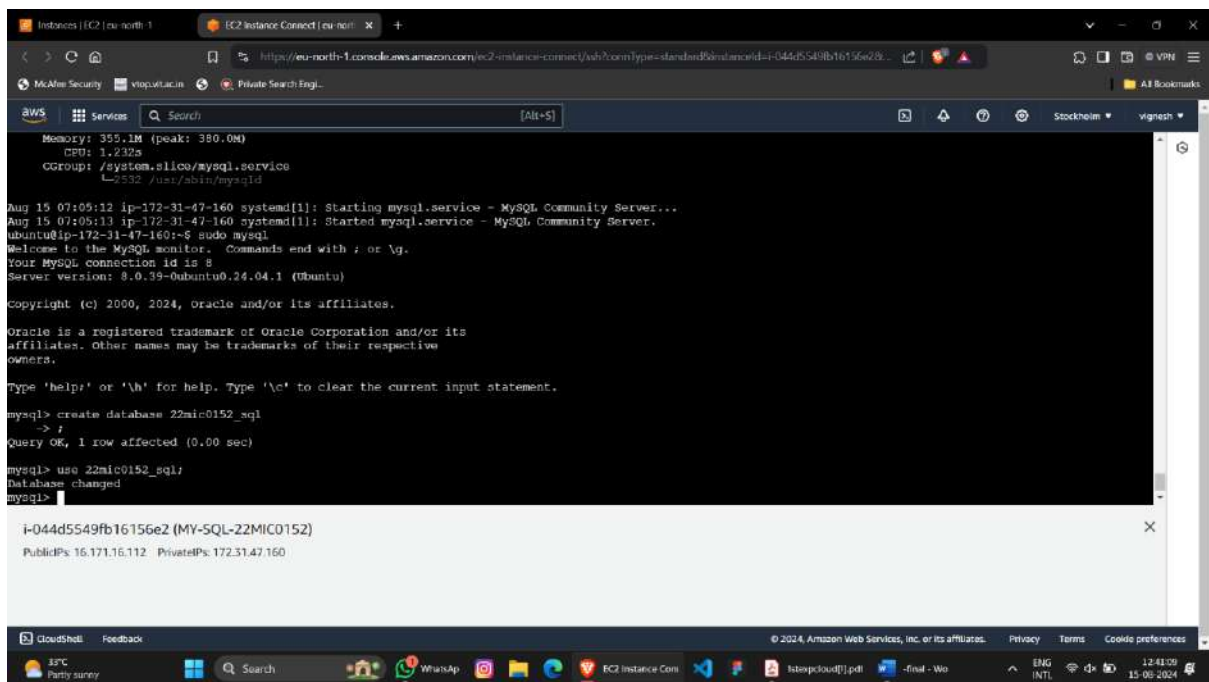
Copyright (c) 2000, 2024, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql>
```

20: Create a Database using “create database <database-name>;” and “use <database-name>;” for the MYSql testing whether the installation is successful:



The screenshot shows a terminal window connected to an AWS EC2 instance. The terminal output displays the command to create a new database named '22mic0152_sql' and the command to use it. The terminal output is as follows:

```
Memory: 355.1M (peak: 380.0M)
CPU: 1.232s
CGroup: /system.slice/mysql.service
└─2532 /usr/sbin/mysqld

Aug 15 07:05:12 ip-172-31-47-160 systemd[1]: Starting mysql.service - MySQL Community Server...
Aug 15 07:05:13 ip-172-31-47-160 systemd[1]: Started mysql.service - MySQL Community Server.
ubuntu@ip-172-31-47-160:~$ sudo mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.39-0ubuntu0.24.04.1 (Ubuntu)

Copyright (c) 2000, 2024, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

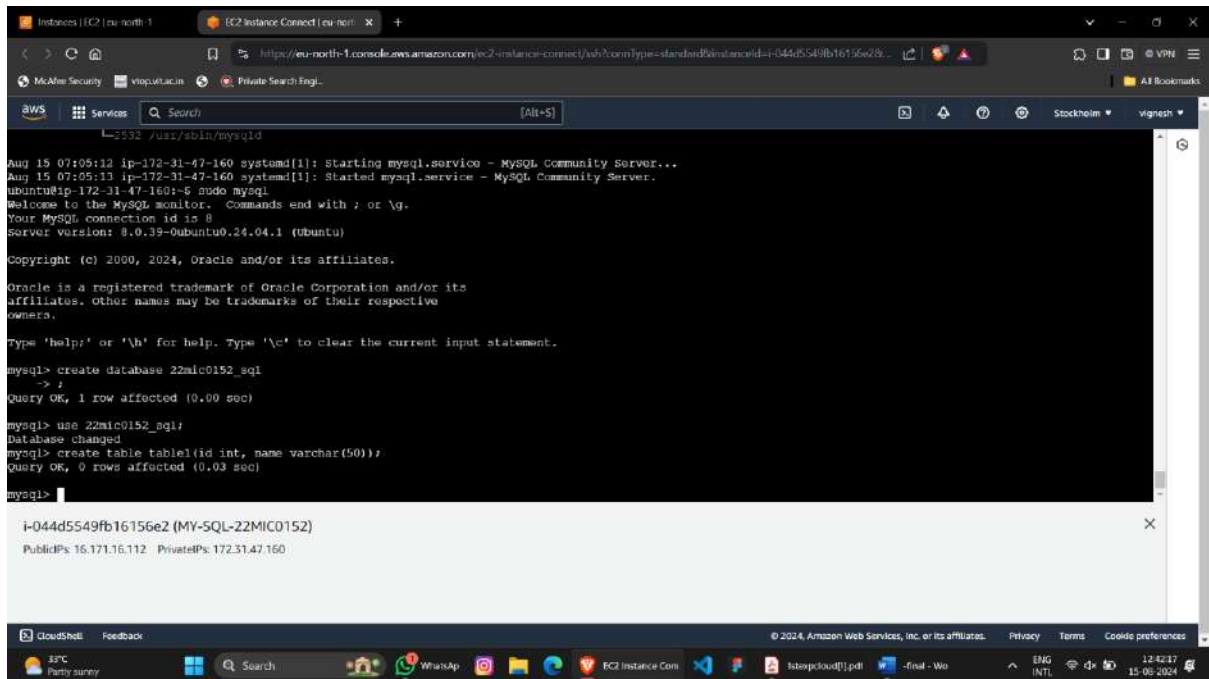
mysql> create database 22mic0152_sql
->
Query OK, 1 row affected (0.00 sec)

mysql> use 22mic0152_sql
Database changed
mysql>
```

(NOTE: Terminate all MYSql codes with “;”)

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21: Create a table (ie... “table1”) using “create table <table-name> (<parameter1>, <parameter2>..., <parameter‘n’>;” :



```
Aug 15 07:05:12 ip-172-31-47-160 systemd[1]: Starting mysql.service - MySQL Community Server...
Aug 15 07:05:13 ip-172-31-47-160 systemd[1]: Started mysql.service - MySQL Community Server.
ubuntu@ip-172-31-47-160:~$ sudo mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.39-0ubuntu0.24.04.1 (Ubuntu)

Copyright (c) 2000, 2024, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

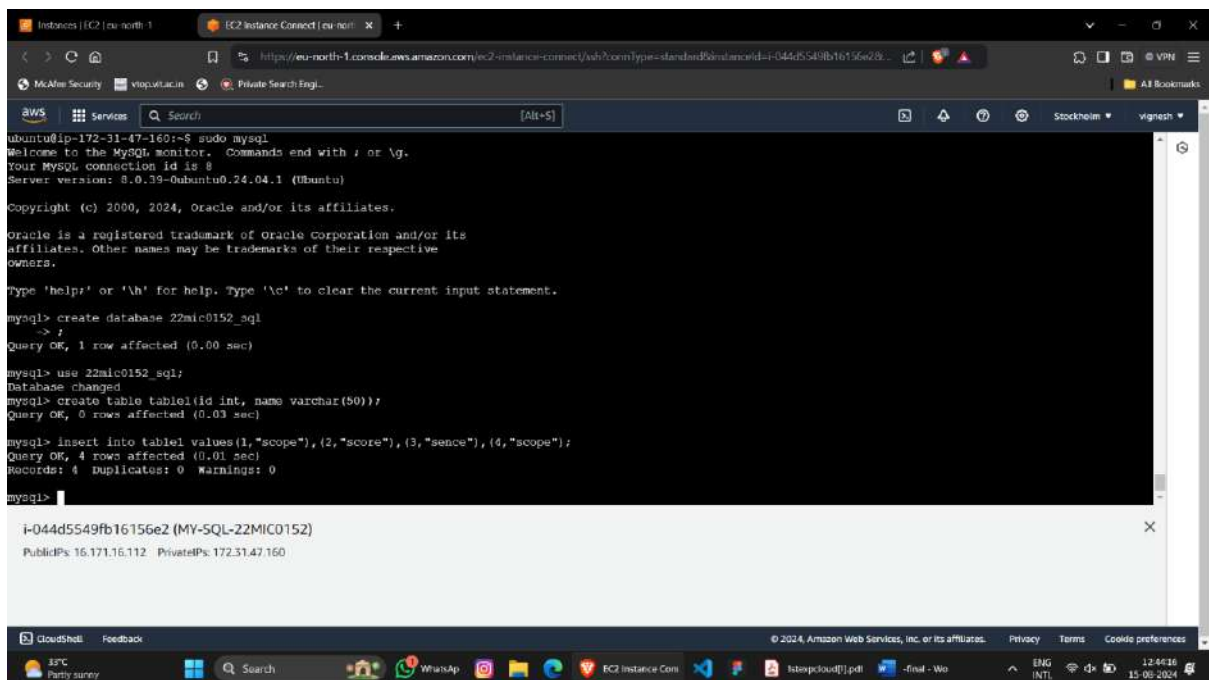
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database 22mic0152_sql
->
Query OK, 1 row affected (0.00 sec)

mysql> use 22mic0152_sql;
Database changed
mysql> create table table1(id int, name varchar(50));
Query OK, 0 rows affected (0.03 sec)

mysql>
```

22: Insert values in the created table using “insert into <table-name> values (value 1), (value 2), ... (value ‘n’);”:



```
ubuntu@ip-172-31-47-160:~$ sudo mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.39-0ubuntu0.24.04.1 (Ubuntu)

Copyright (c) 2000, 2024, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql> create database 22mic0152_sql
->
Query OK, 1 row affected (0.00 sec)

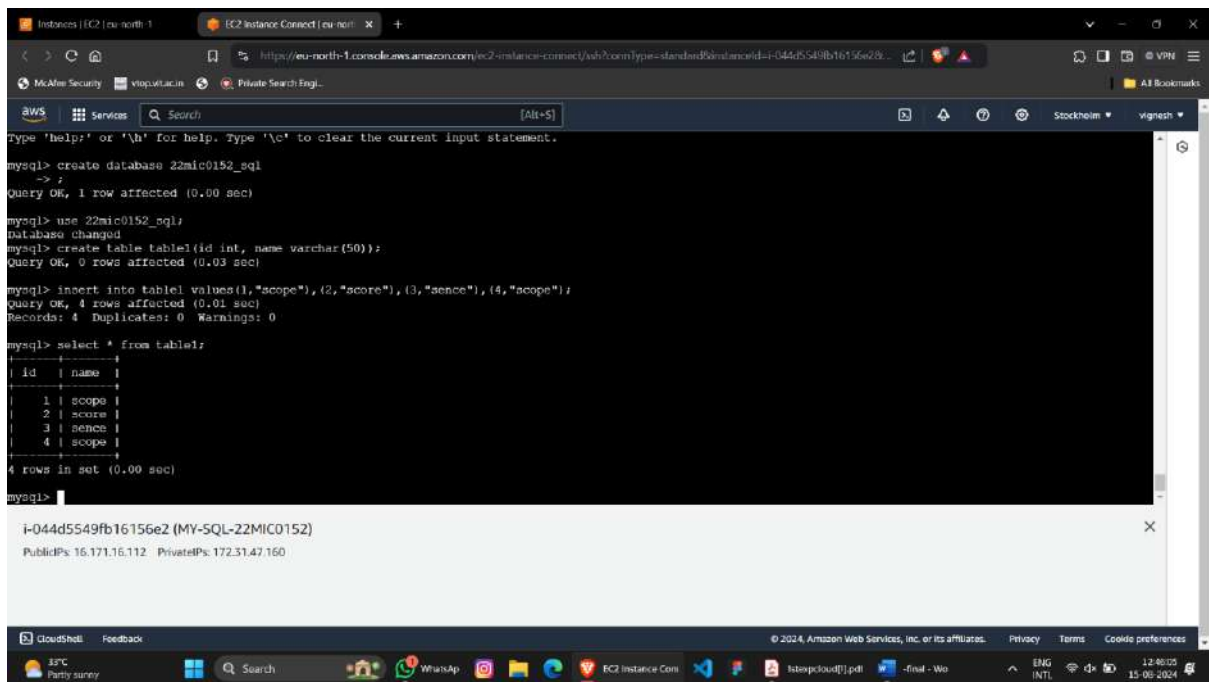
mysql> use 22mic0152_sql;
Database changed
mysql> create table table1(id int, name varchar(50));
Query OK, 0 rows affected (0.03 sec)

mysql> insert into table1 values (1,"scope"), (2,"score"), (3,"sence"), (4,"scope");
Query OK, 4 rows affected (0.01 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql>
```


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23: View the table using “select * from <table-name>;”



```
mysql> create database 22mic0152_sql;
Query OK, 1 row affected (0.00 sec)

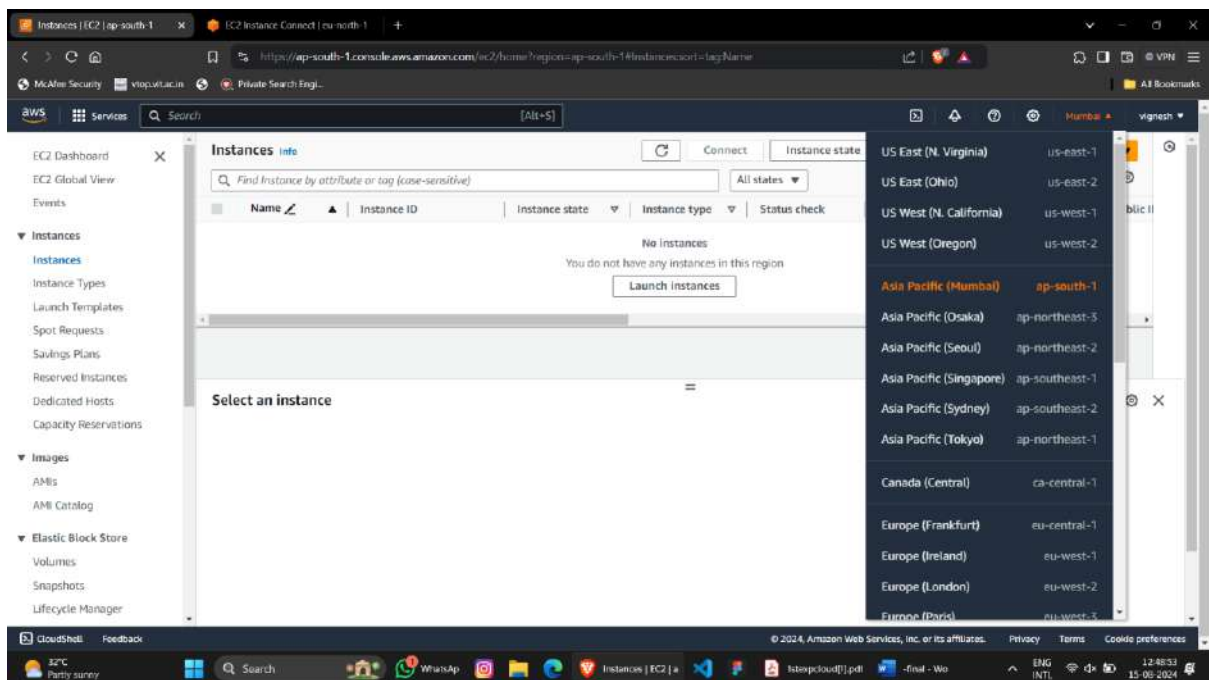
mysql> use 22mic0152_sql;
Database changed
mysql> create table table1(id int, name varchar(50));
Query OK, 0 rows affected (0.03 sec)

mysql> insert into table1 values(1,"scope"),(2,"score"),(3,"sence"),(4,"scope");
Query OK, 4 rows affected (0.01 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> select * from table1;
+----+-----+
| id | name |
+----+-----+
| 1  | scope|
| 2  | score|
| 3  | sence|
| 4  | scope|
+----+-----+
4 rows in set (0.00 sec)

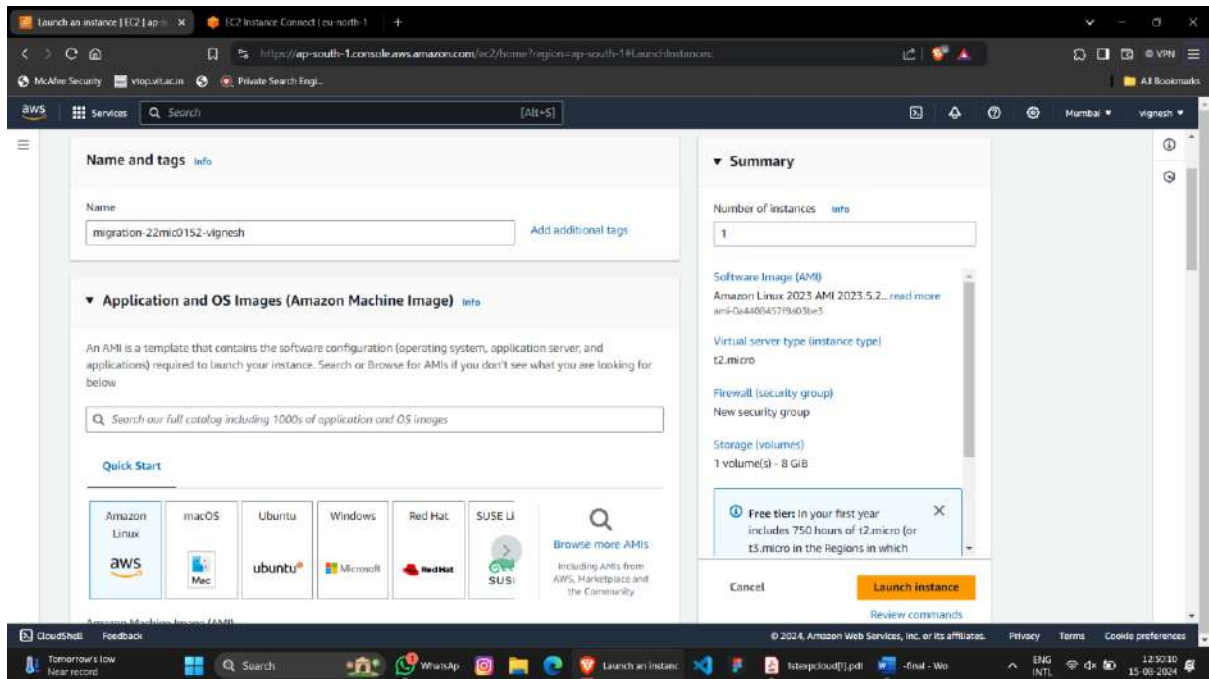
mysql>
```

24: Go to the **Instance window** in the **previous tab** and click on the **Location menu** available in the **Top-Right** of the page, and select the location to “**Asia Pacific (Mumbai)**” from “**Stockholm**”. Then click on “**Launch Instance**” to create new instance in the **Mumbai Server**:

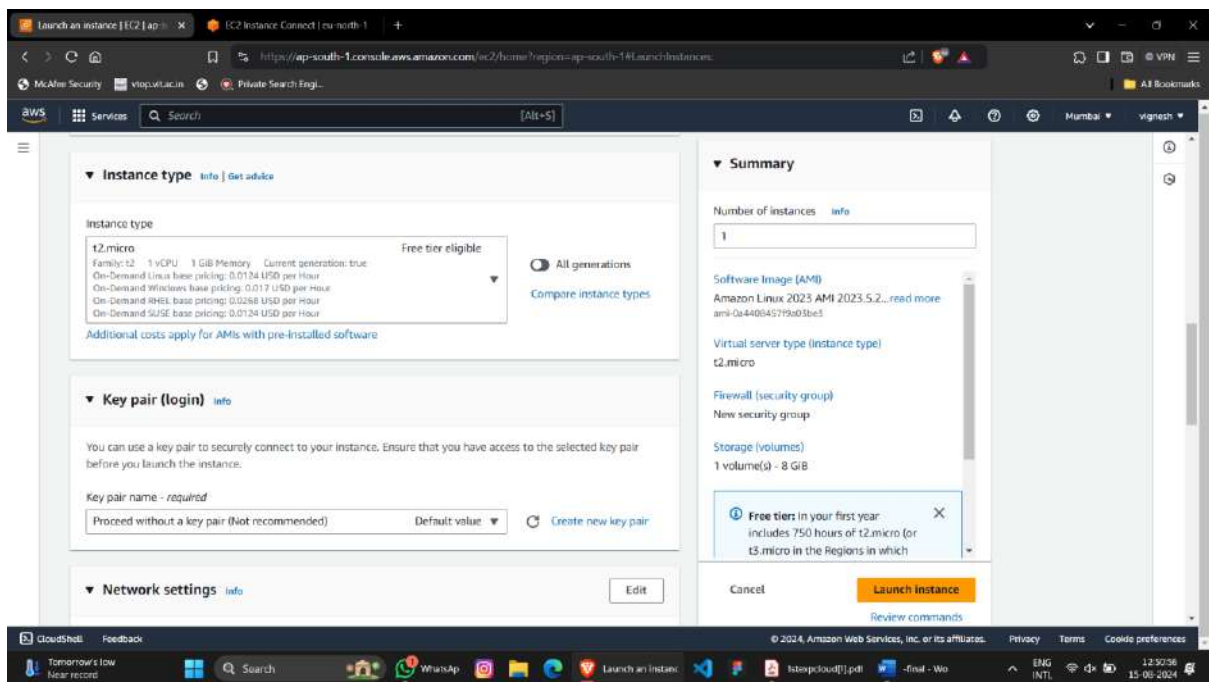


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25: Provide a Name (ie... “migration-22mic0152-vignesh”) for the instance you create and set the Quick Start available on Application and OS Images to “Amazon Linux”:

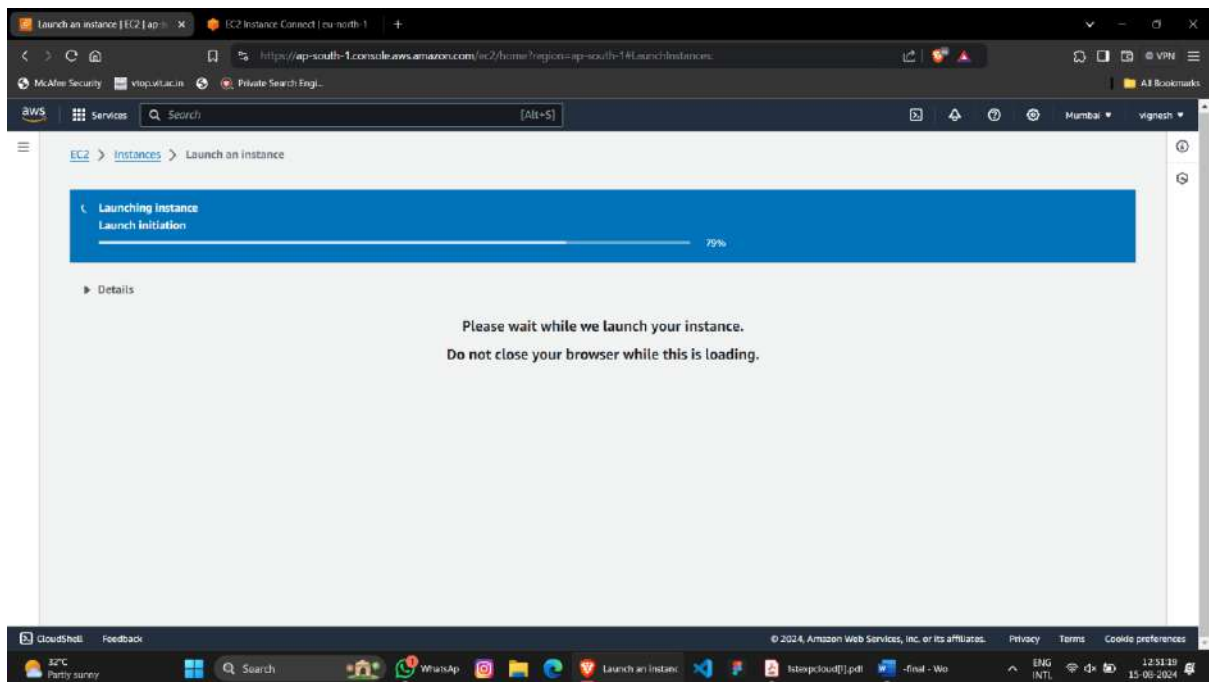


26: Set the Instance type to “t2.micro” and select “Proceed without a key pair (Not Recommended)” in Key Pair (Login):

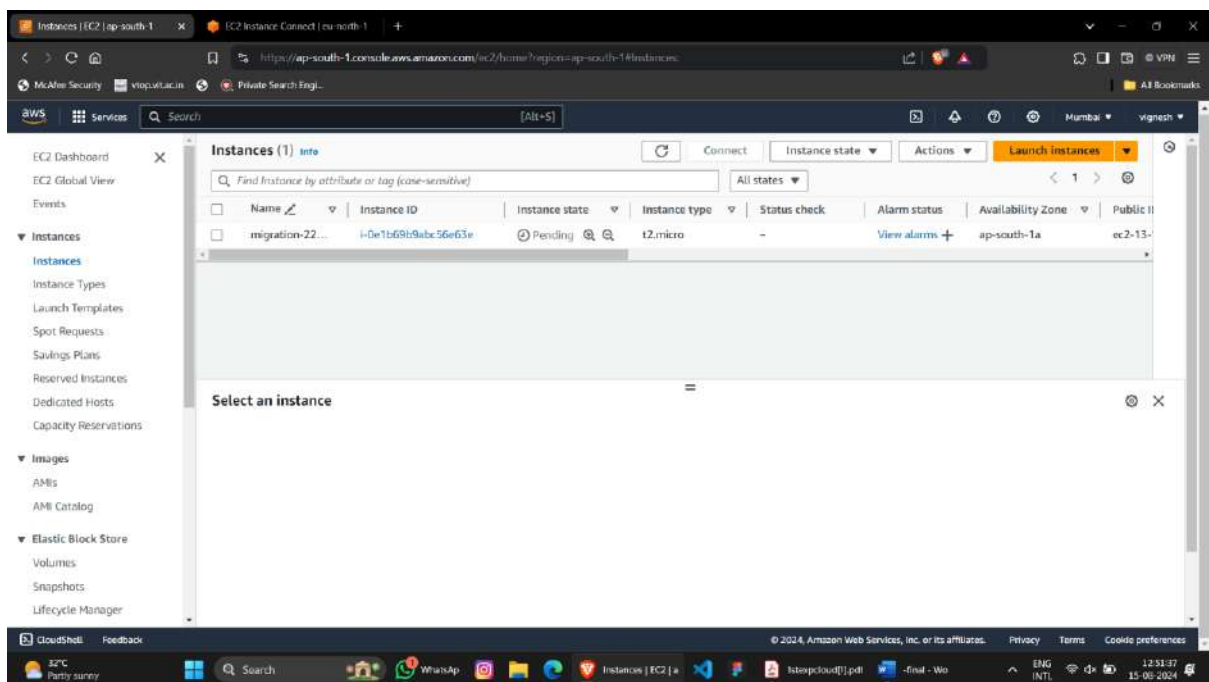


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27: Let the Launching instance initialization process complete, be patient till the process to complete:

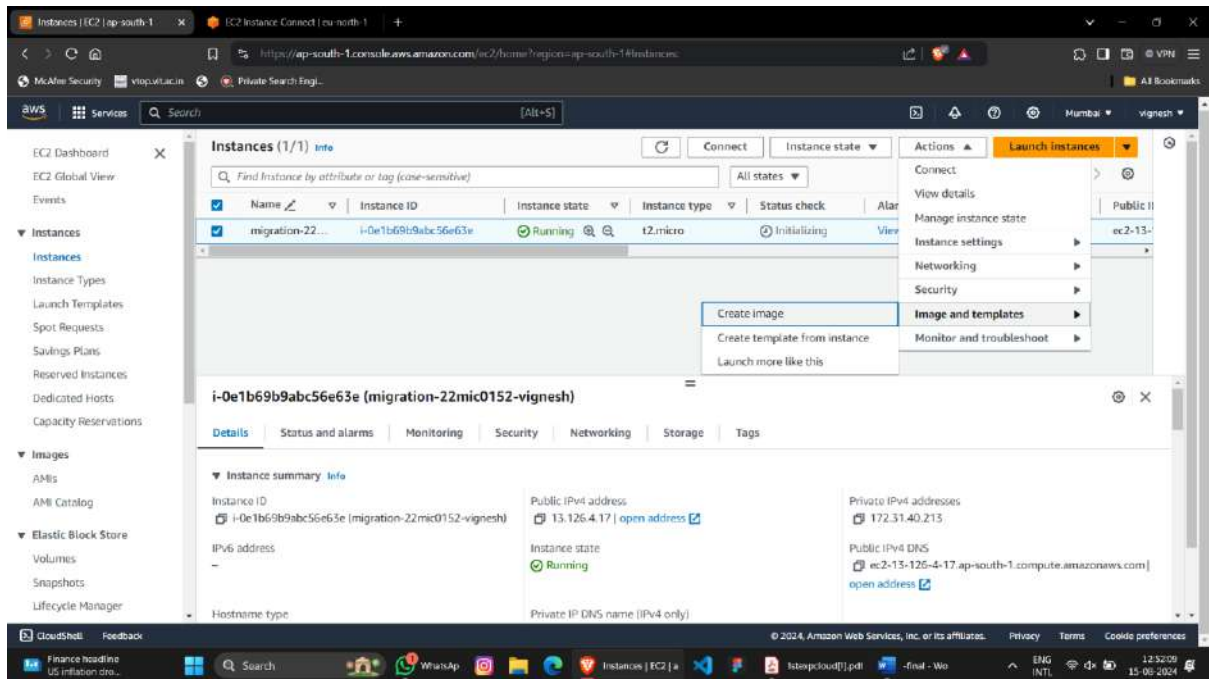


28: Select the created instance:

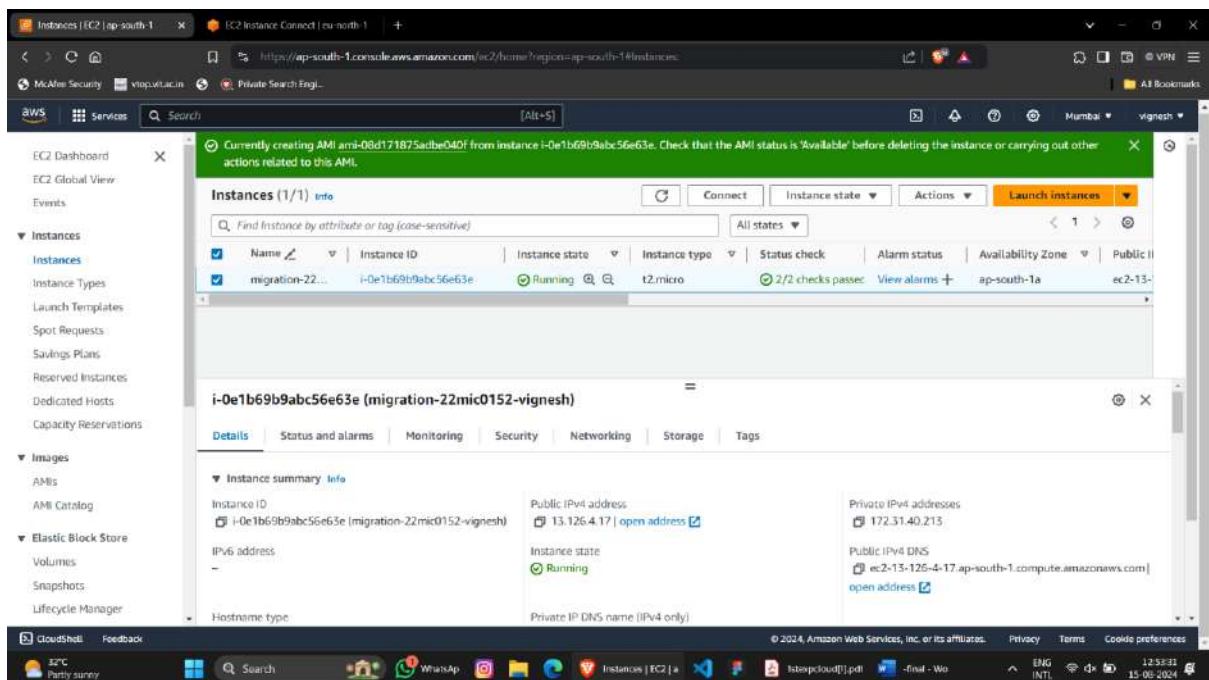


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29: Select the **Actions** available on the **Top-Right** corner of the Window and select the **“Create Image”** option available under **“Image and templates”**:

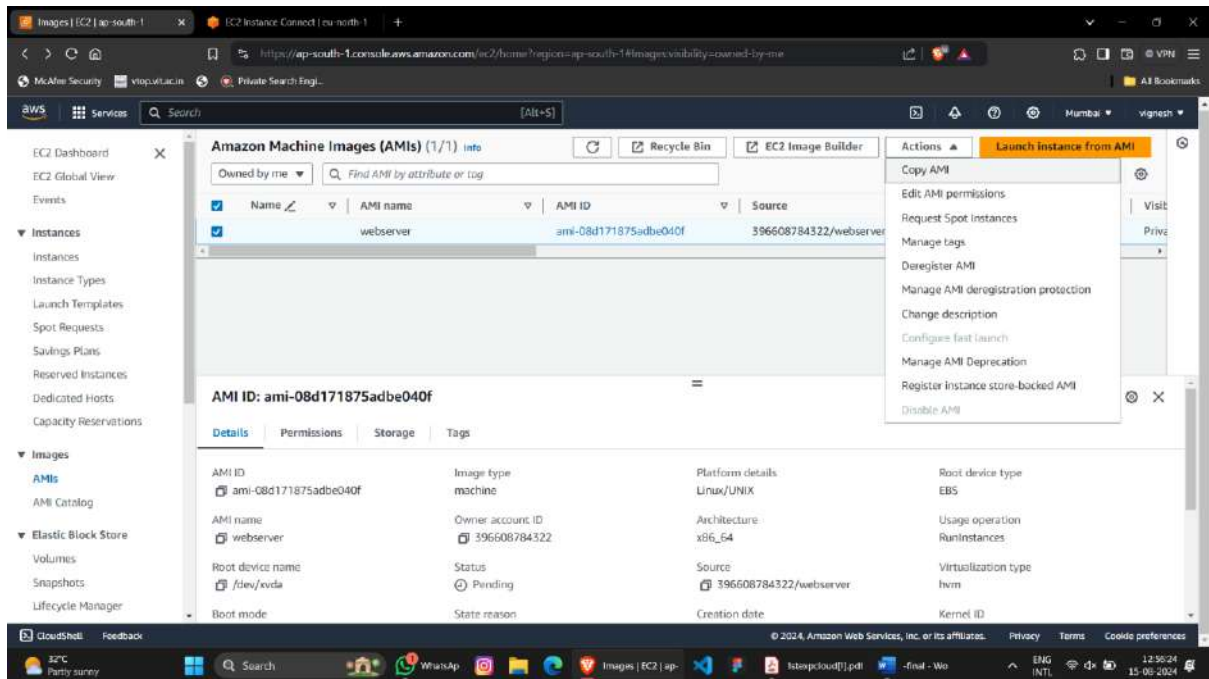


30: The previous Step opens a tab where you provide **Image name** and **Image Description** and click on the **“create image”** option available on the bottom of the menu:

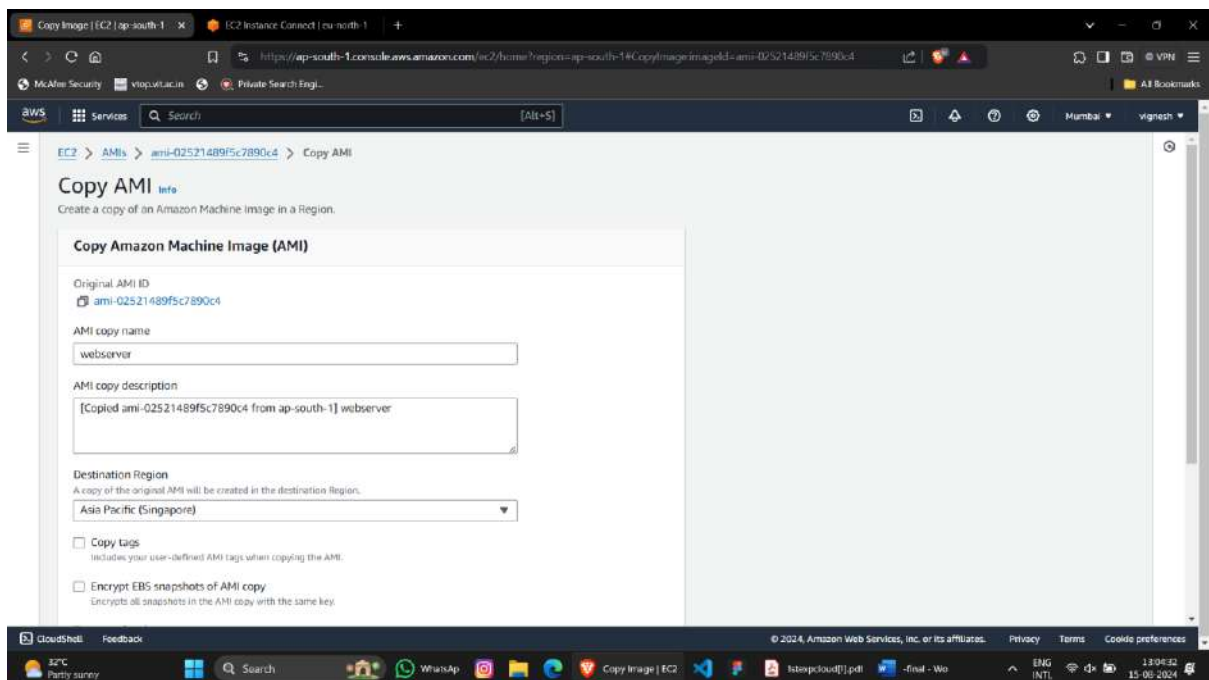


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31: Select the AMIs available on the Navigation panel. And select the instance available and Go to Actions, click on the “Copy AMI”:

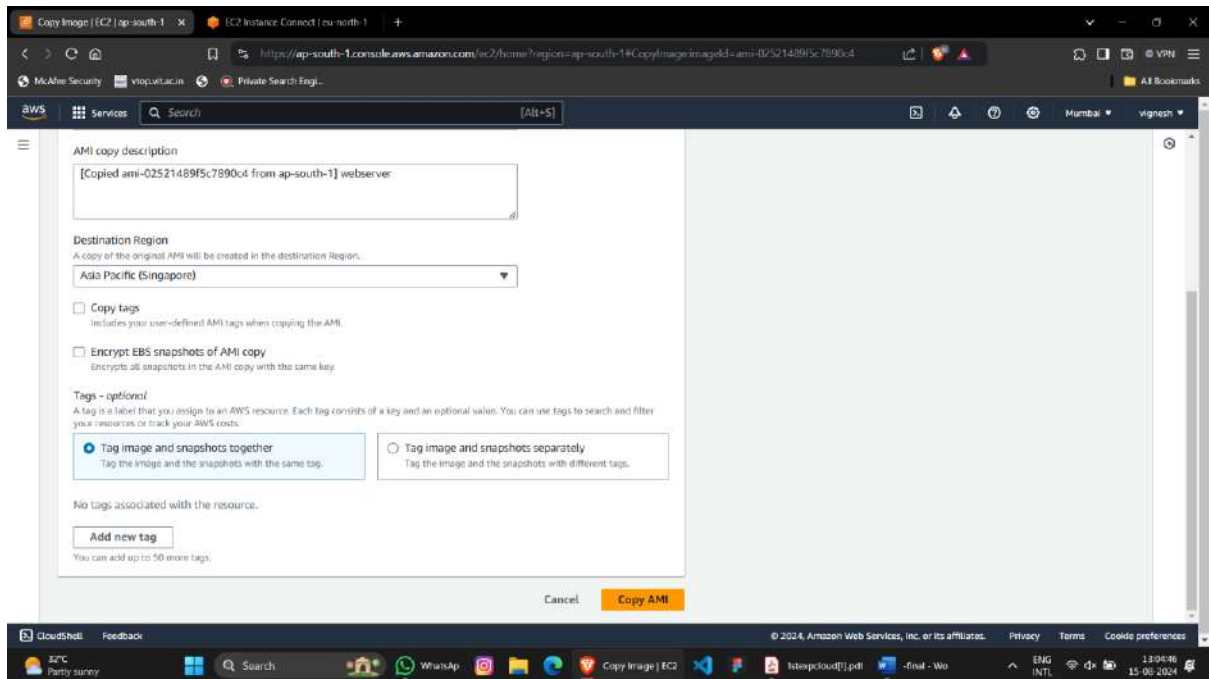


32: A Copy AMI tab opens and give the AMI copy name and select the Destination Region as “Asia Pacific (Singapore)”:

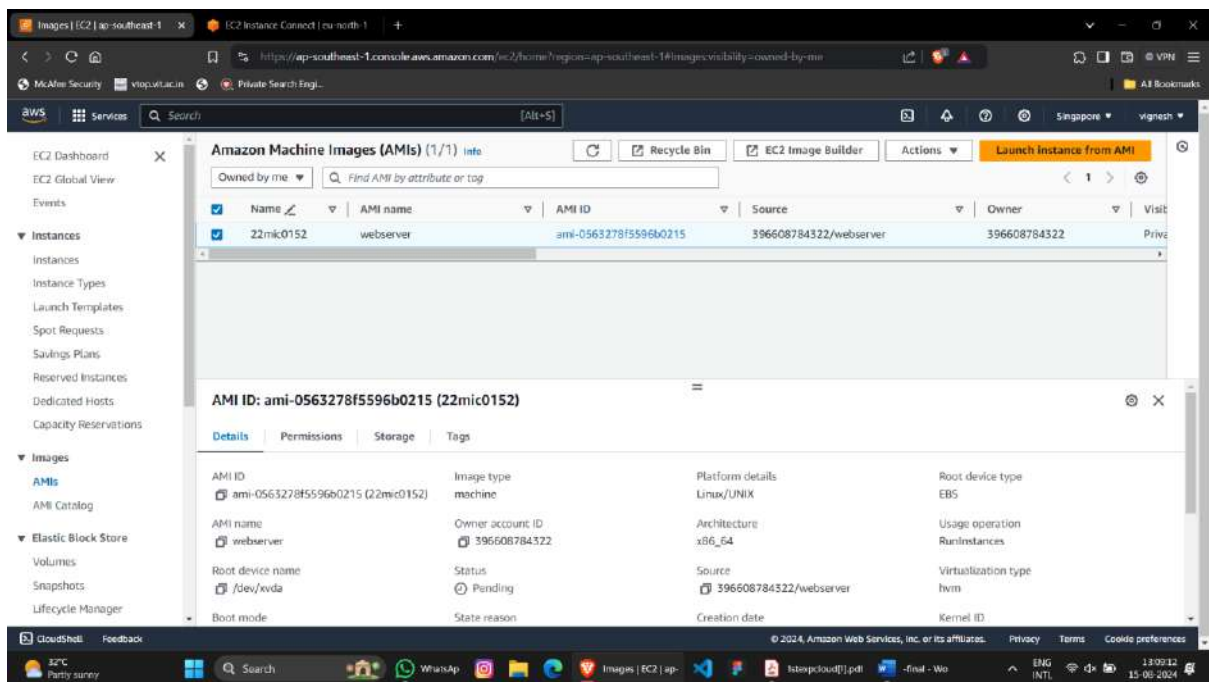


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33: Select the **Tags** as “**Tag image and snapshots together**” and click on the “**Copy AMI**” option available on the **Bottom-Right** corner of the page:

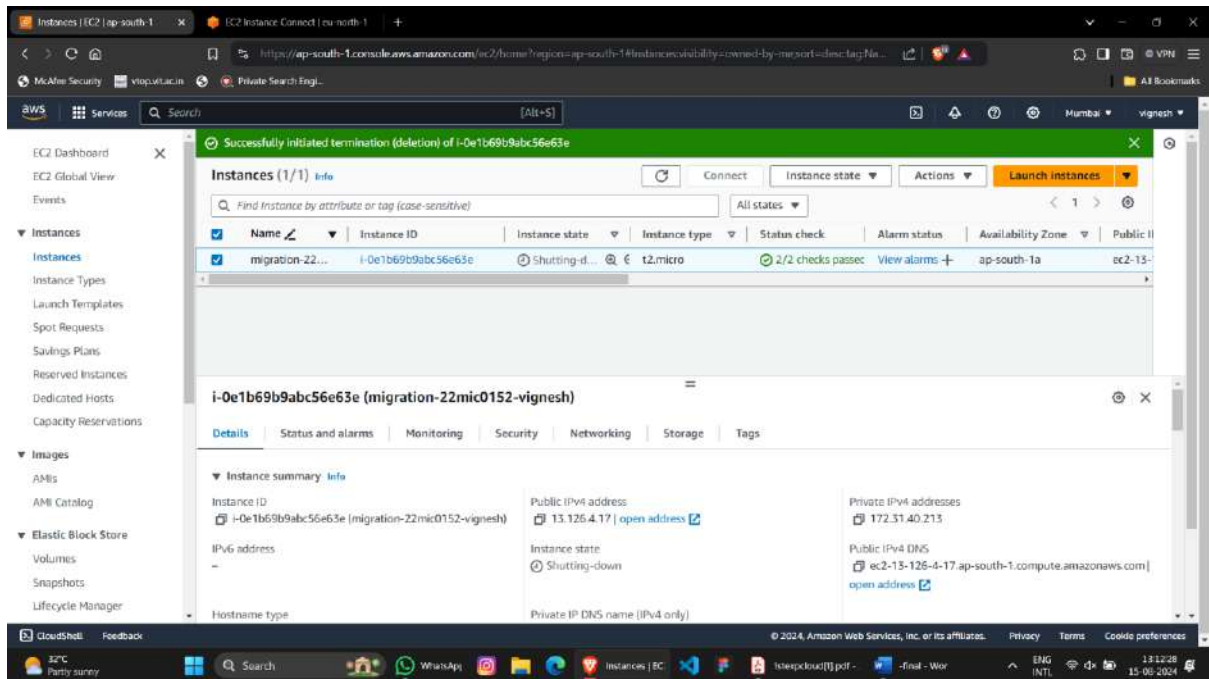


34: Make sure You are in **Singapore server** and then you will be available with the copy of an AMI you have copied in the **Mumbai server**:



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35: Terminate the instances created using the “**Terminate instance**” option available on the **Instance state**:



(NOTE: Terminate all instances created in *(Stockholm, Mumbai and Singapore)* locations)