

Cloud (AWS) Week 1 Task

Deploy Application in monolithic and Microservices Architecture

*Description:

Task 1: For Microservices: 2 EC2 instances , 1 for Wordpress and EC2 instances, 1 for MYSQL.

-Configure the necessary security group for the instances

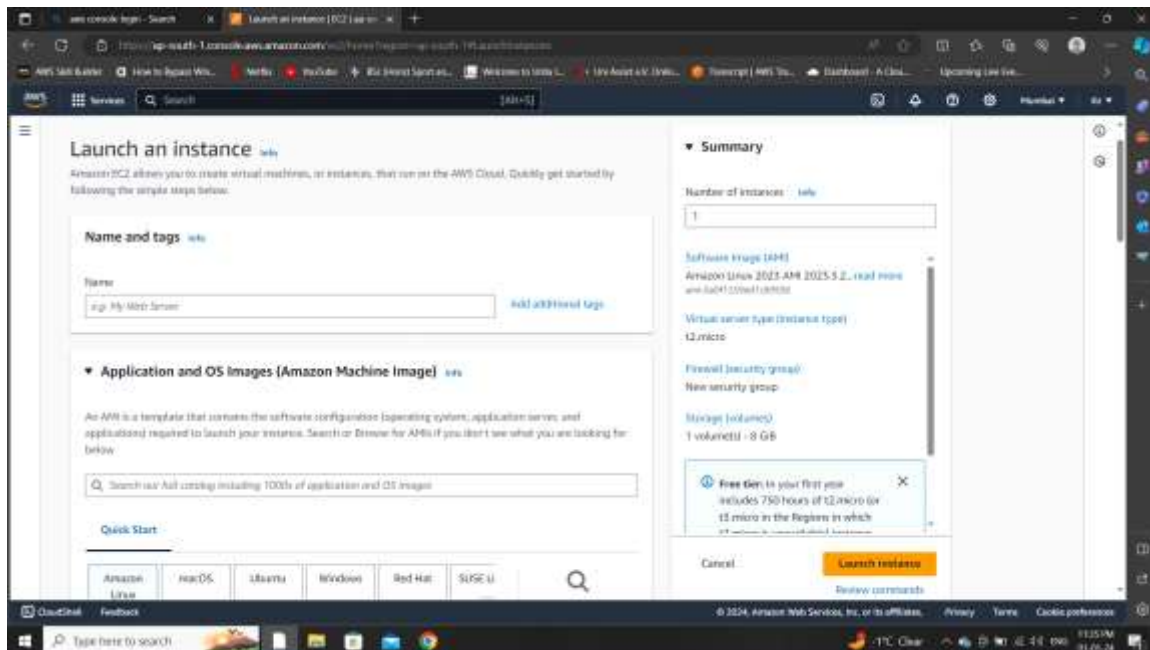
-EC2 instance type:t2 micro, AMI-Ubuntu-*

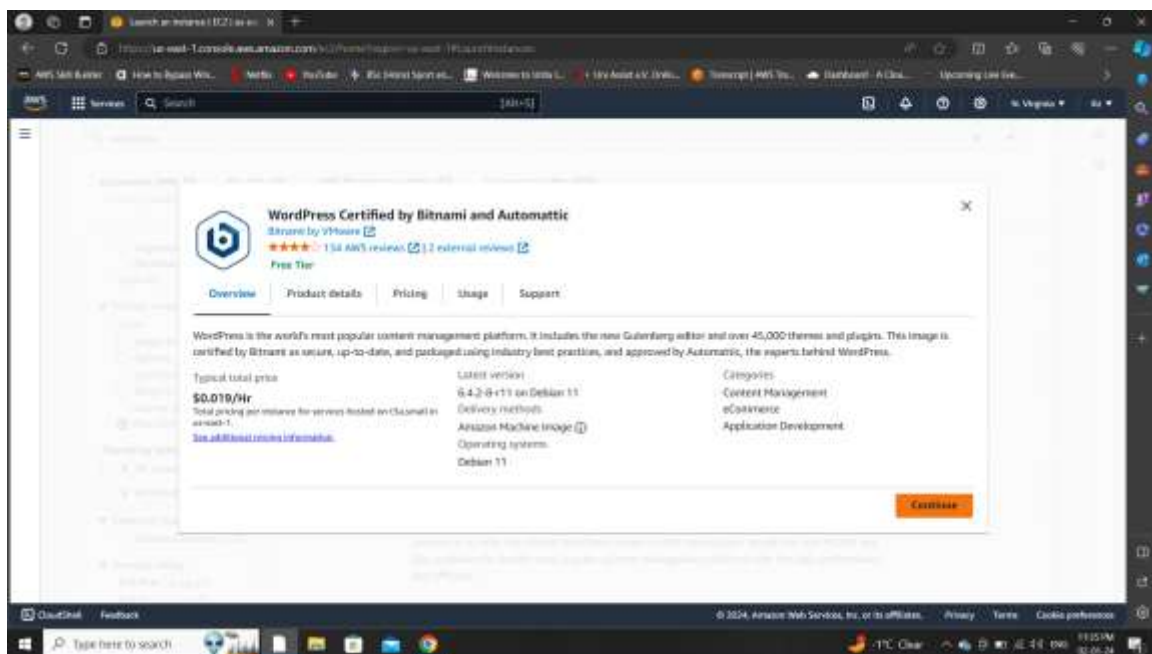
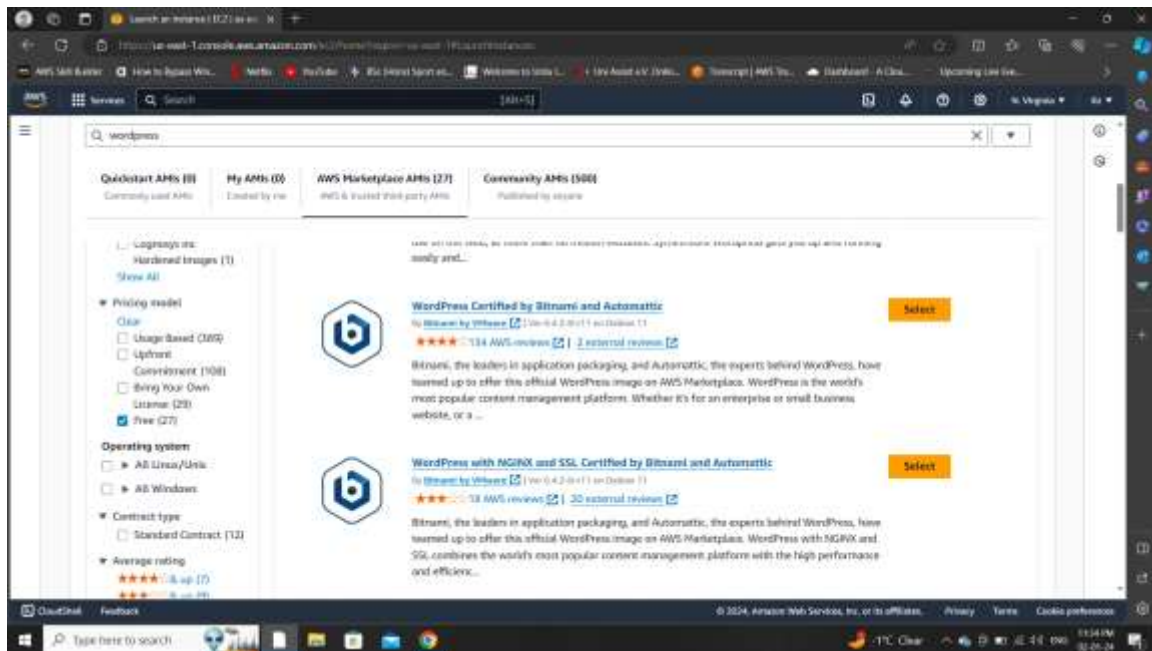
Task 1

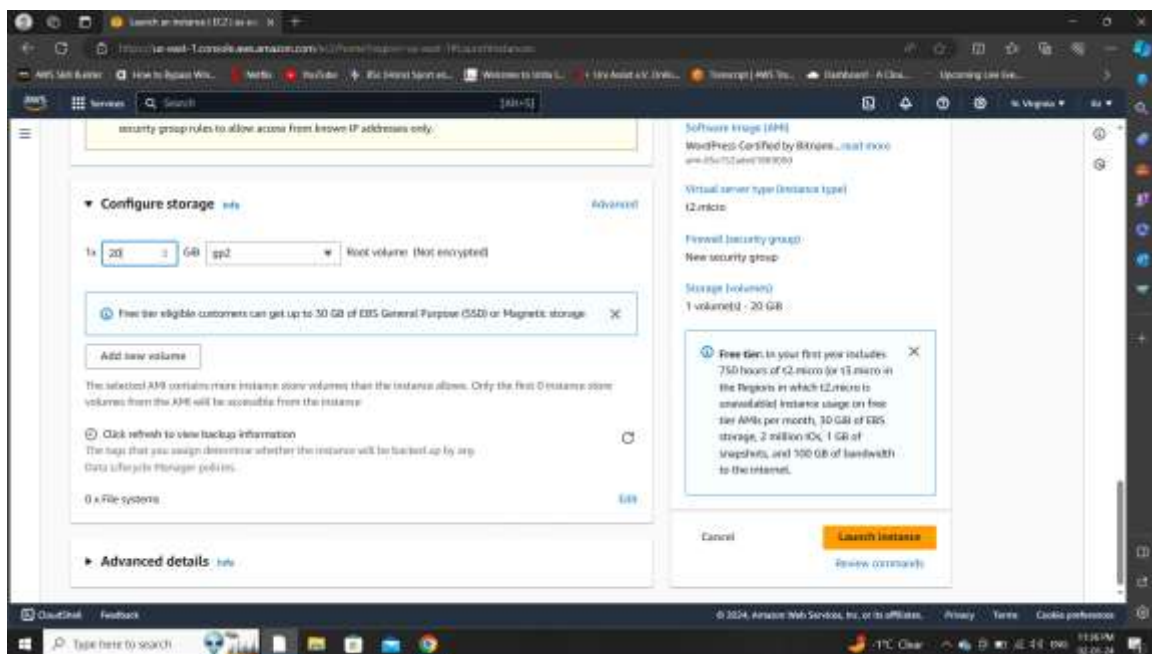
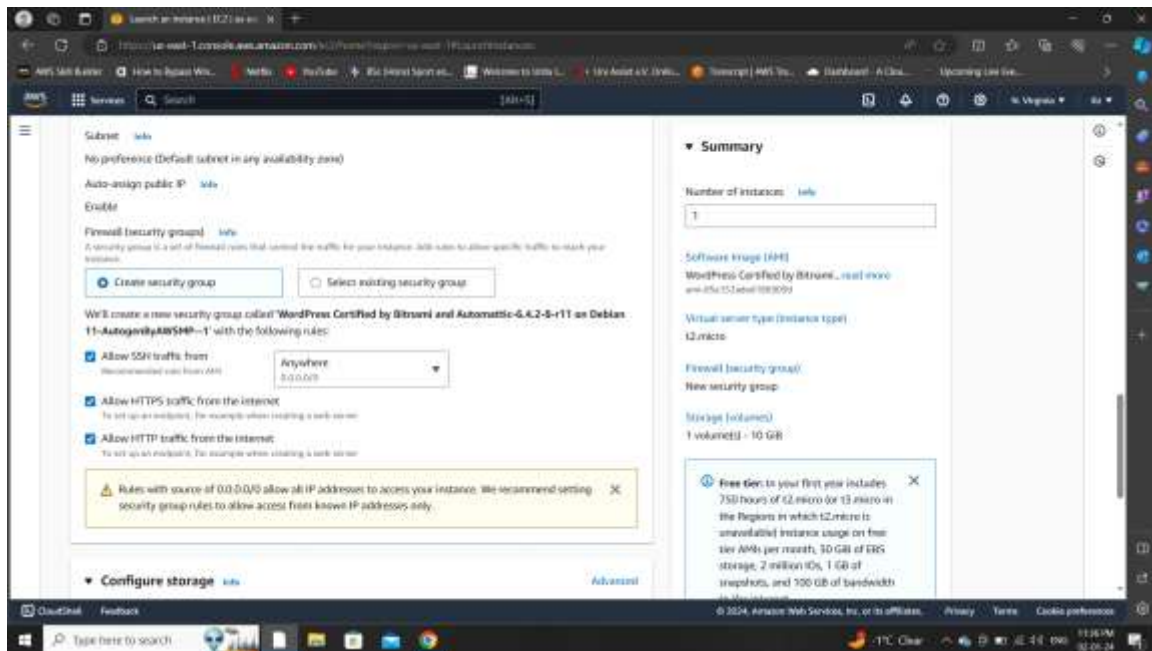
For Microservices: 2 EC2 instances , 1 for Wordpress and 1 EC2 instances, 1 for MYSQL.

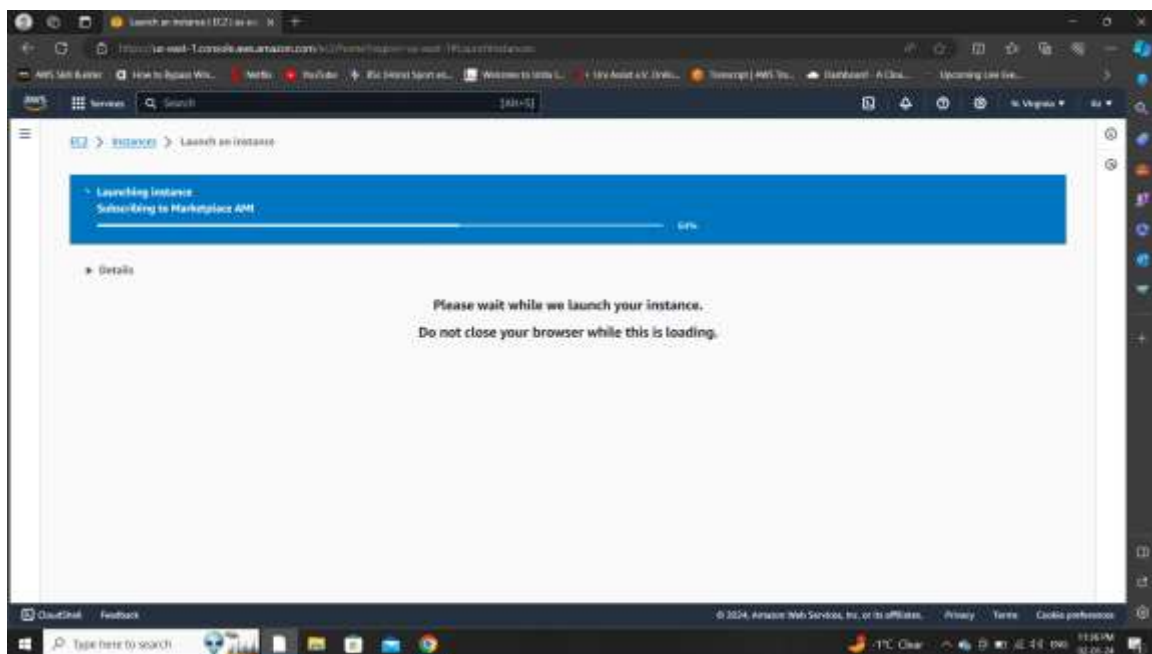
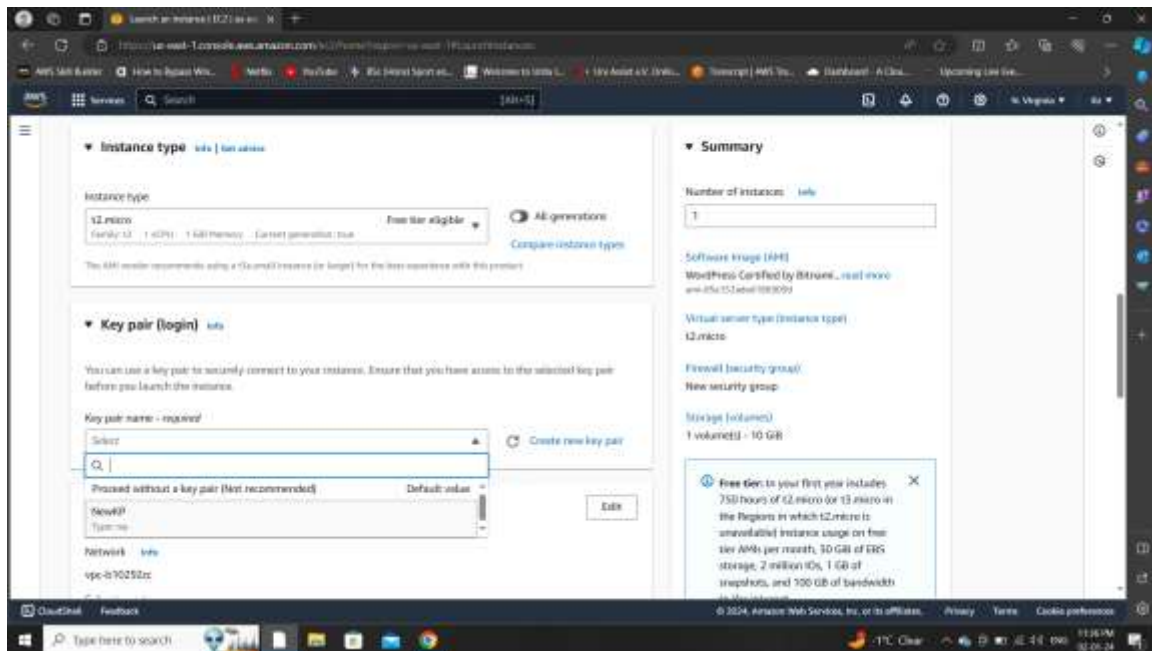
a) 1 EC2 instance for Wordpress

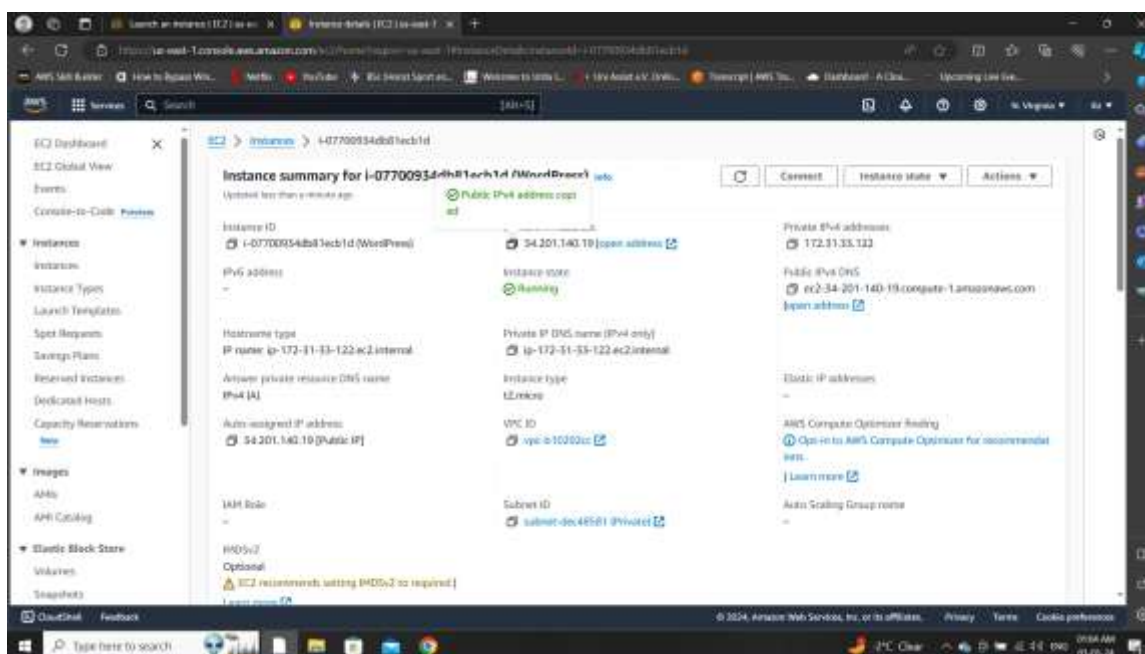
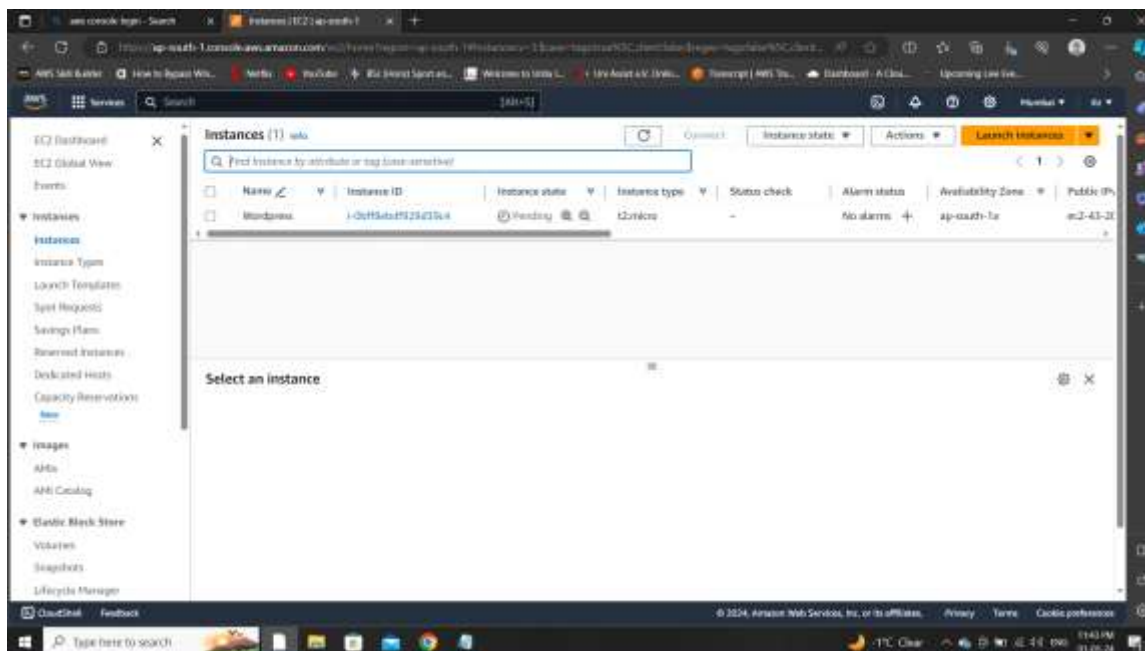
Create a Wordpress instance launch

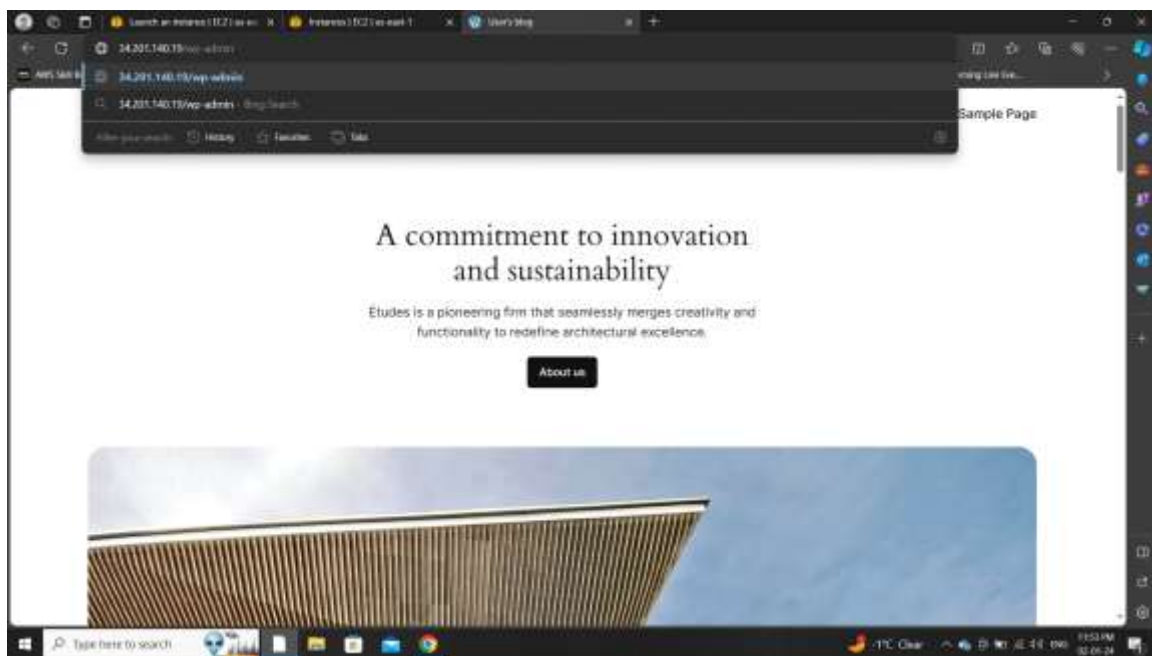
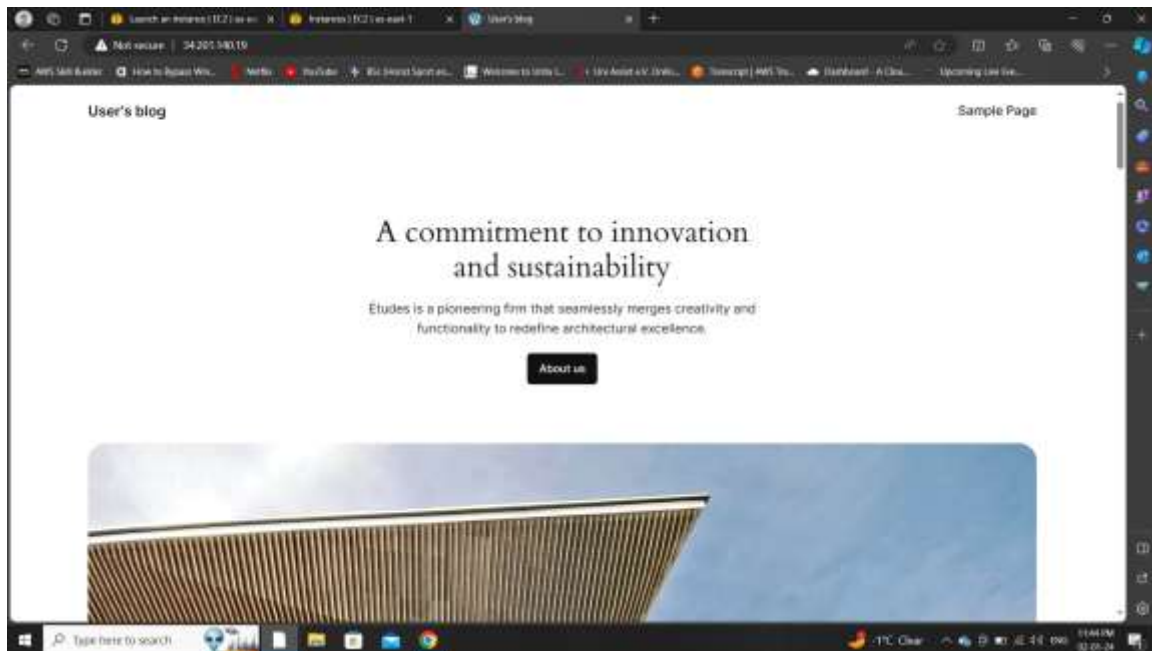


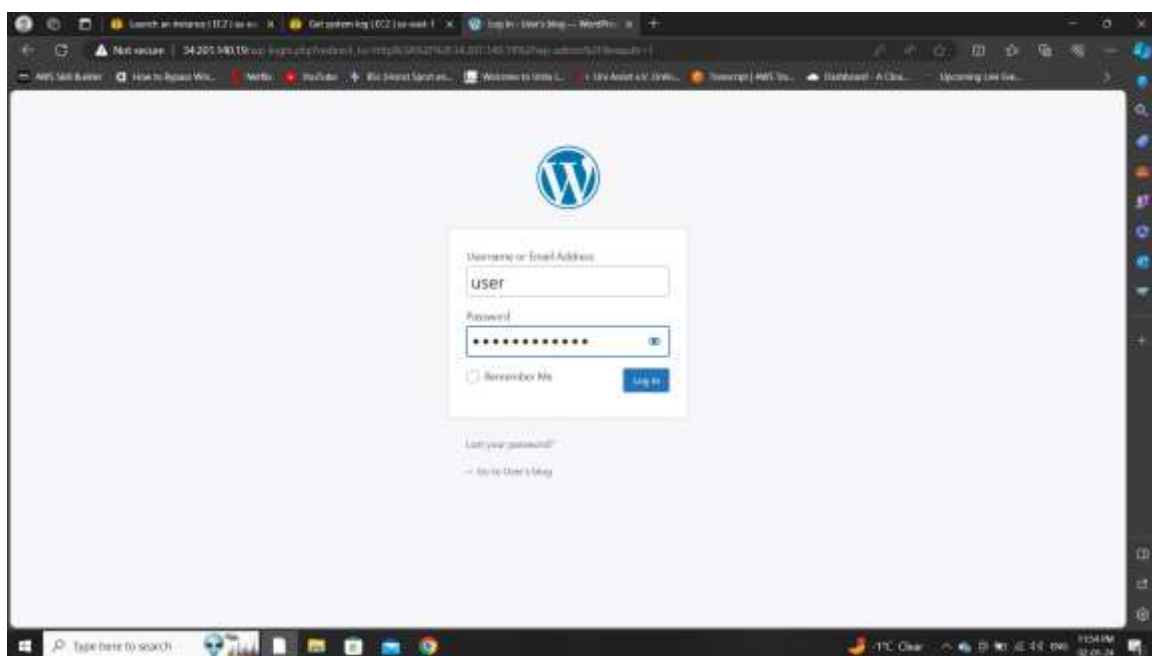
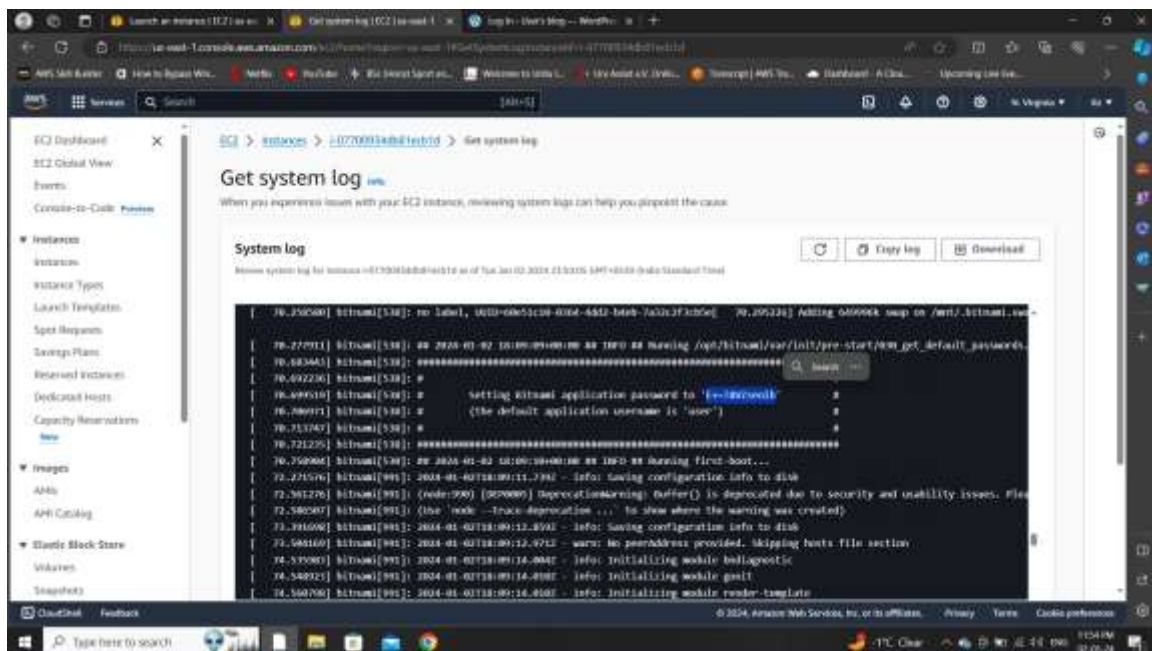


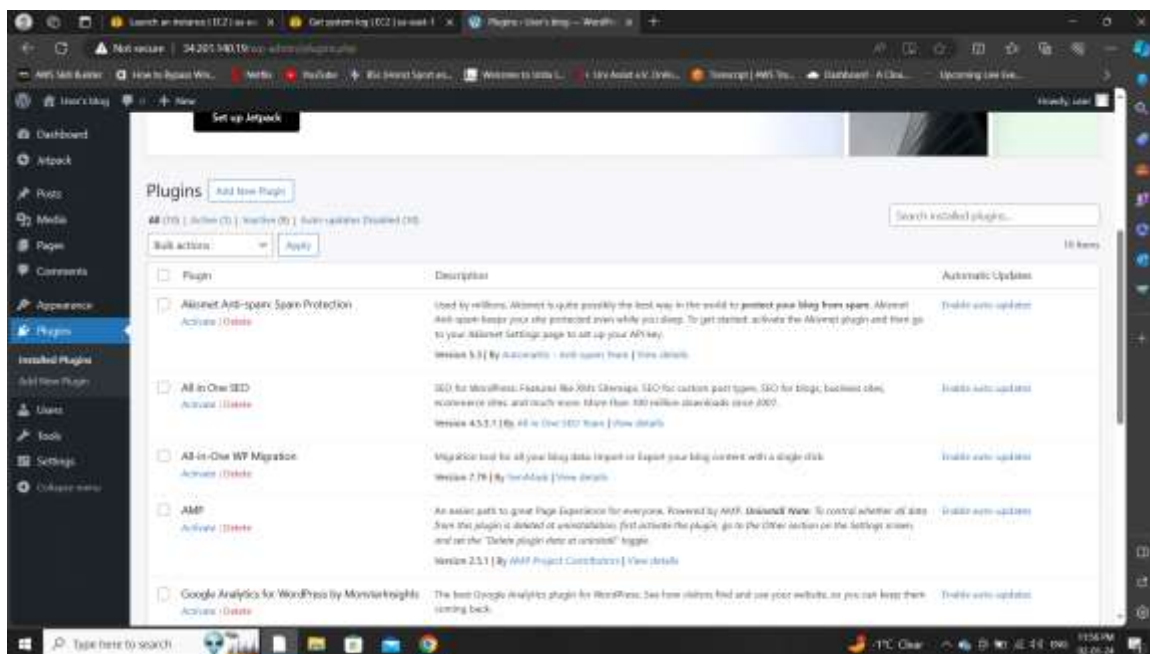
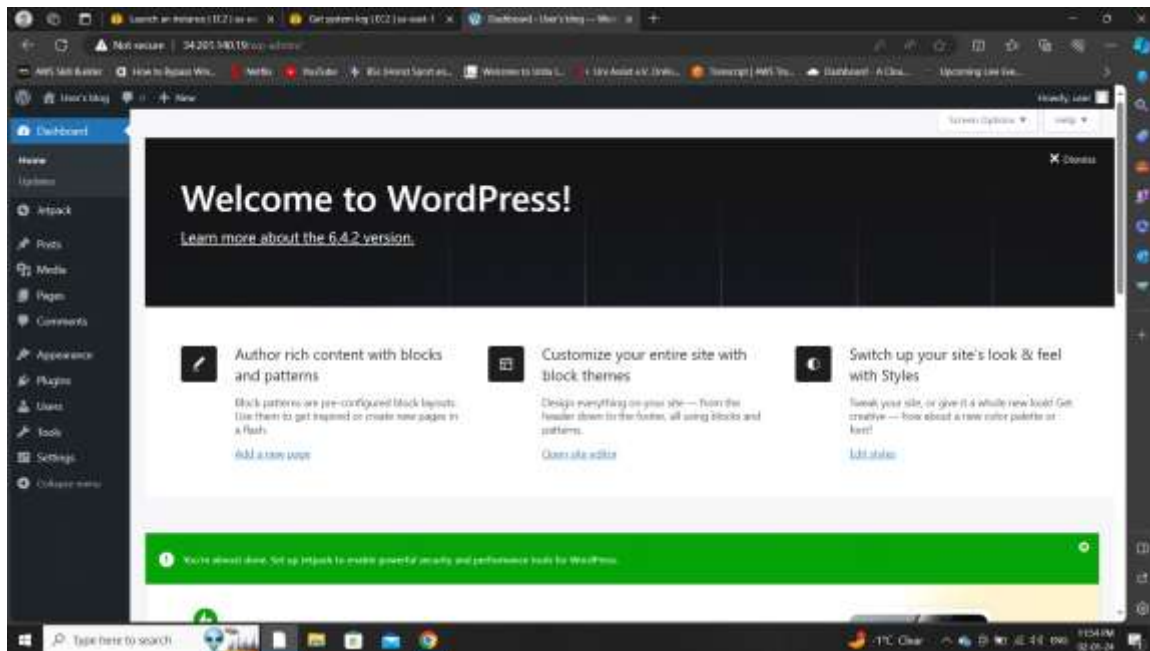












1 EC2 Instance for MYSQL

Create a MYSQL Server instance Launch

Command:

Step 1: Update the system

sudo apt update

Step 2: Install MySql

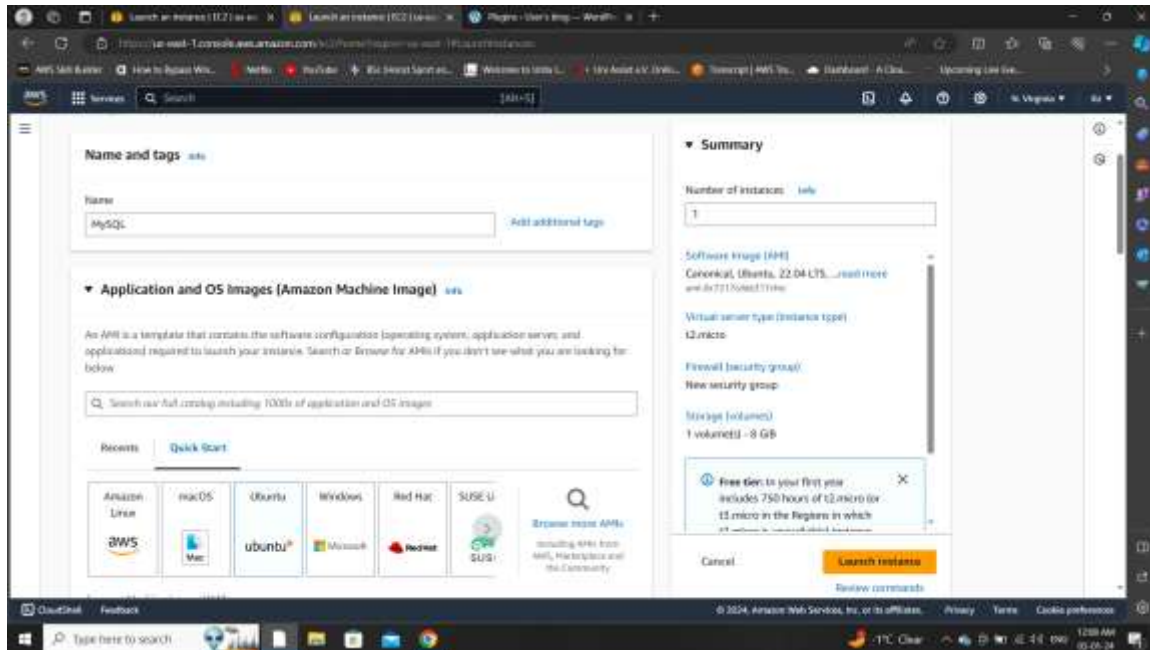
sudo apt install mysql-server

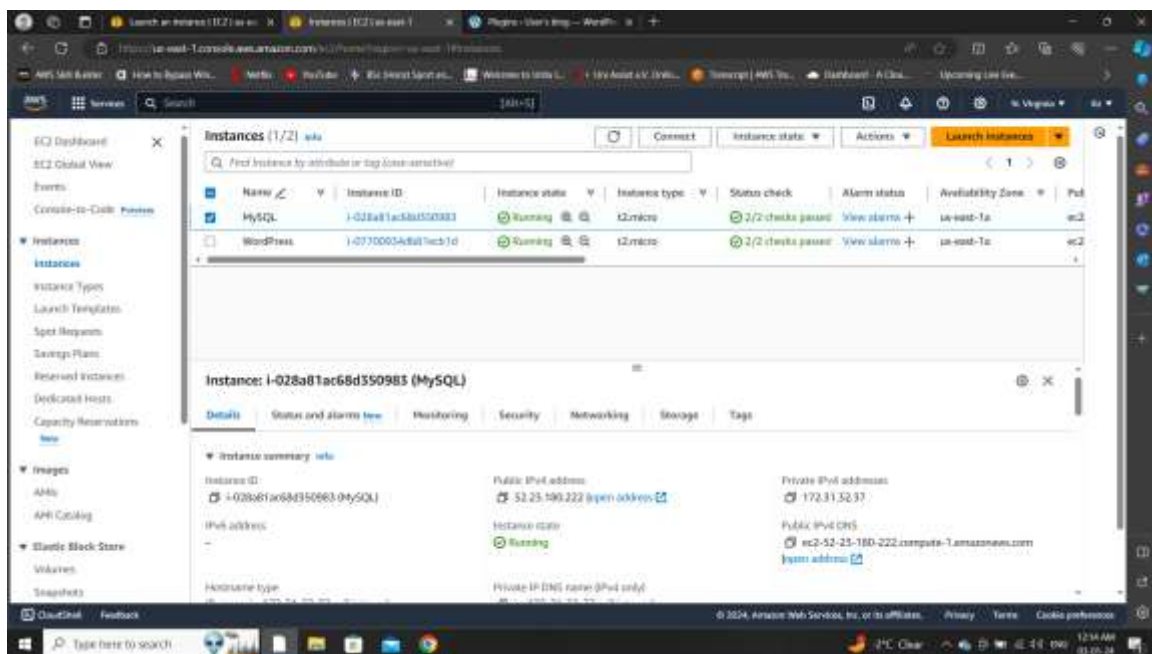
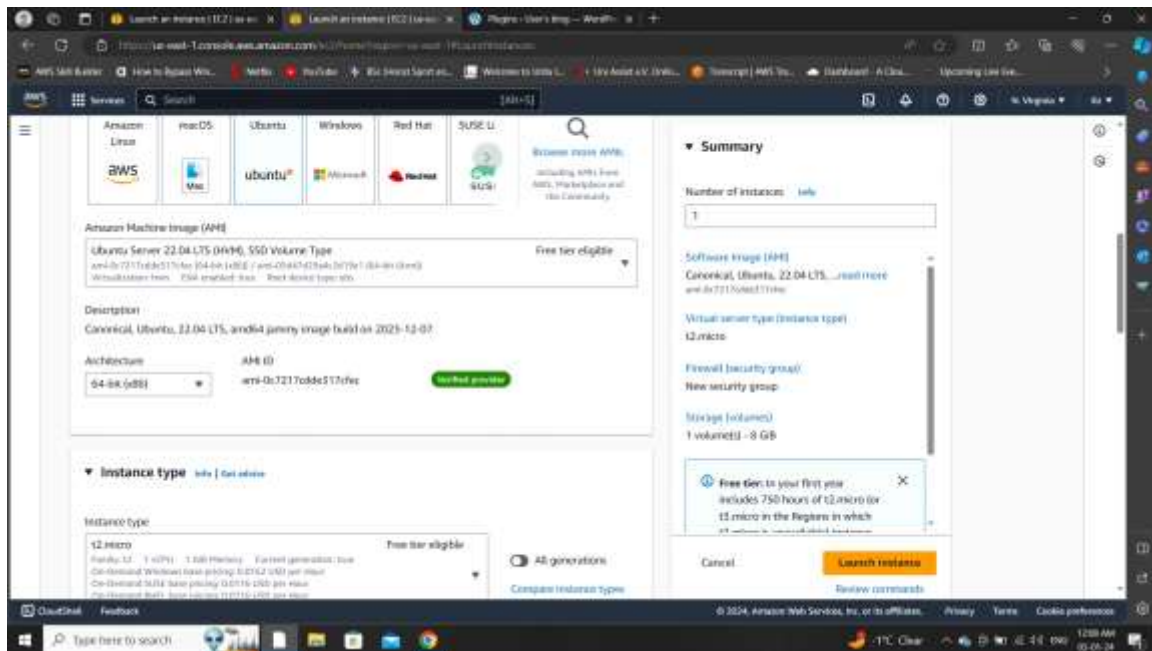
Step 3: Check the Status of MySql (Active or Inactive)

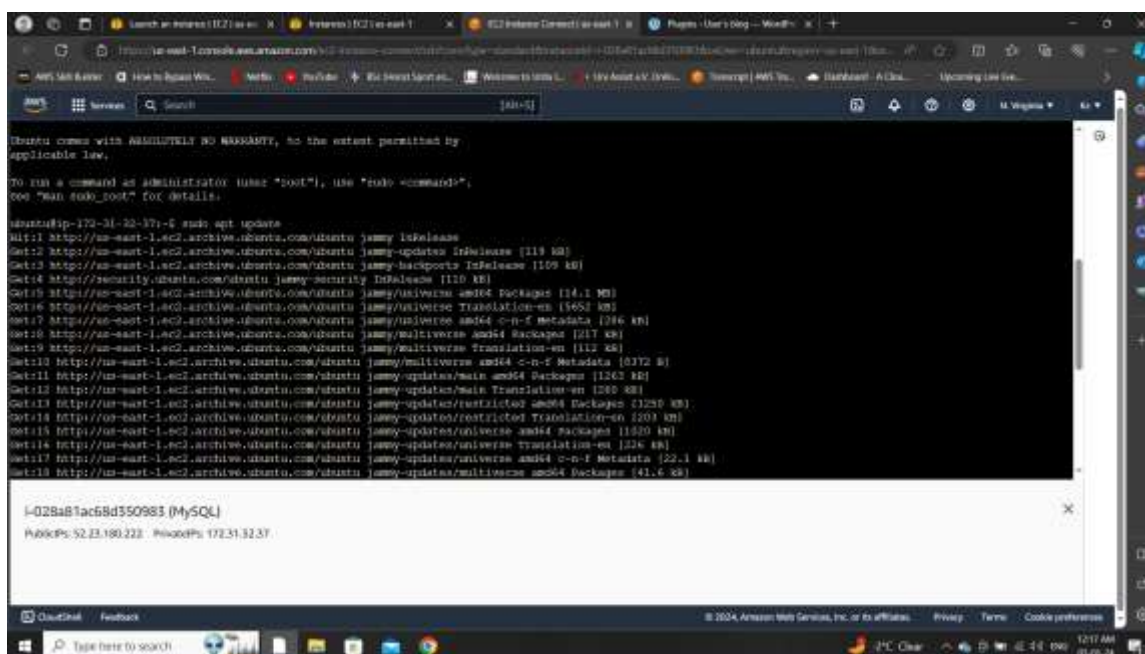
sudo systemctl status mysql

Step 4: Login to MySql as a root

sudo mysql







```
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [9748 B]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [472 B]
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [41.7 kB]
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [10.5 kB]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [185 B]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [24.1 kB]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [34.5 kB]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [444 B]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:29 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1051 kB]
Get:30 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [200 kB]
Get:31 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [1226 kB]
Get:32 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [1280 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [823 kB]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [164 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [14.8 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [36.5 kB]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [7560 B]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [1265 B]
Fetched 23.8 MB in 5s (4546 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
24 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-180-223:~$ sudo apt-get install mysql-server
```

[-028a81ac58d350983 (MySQL)]

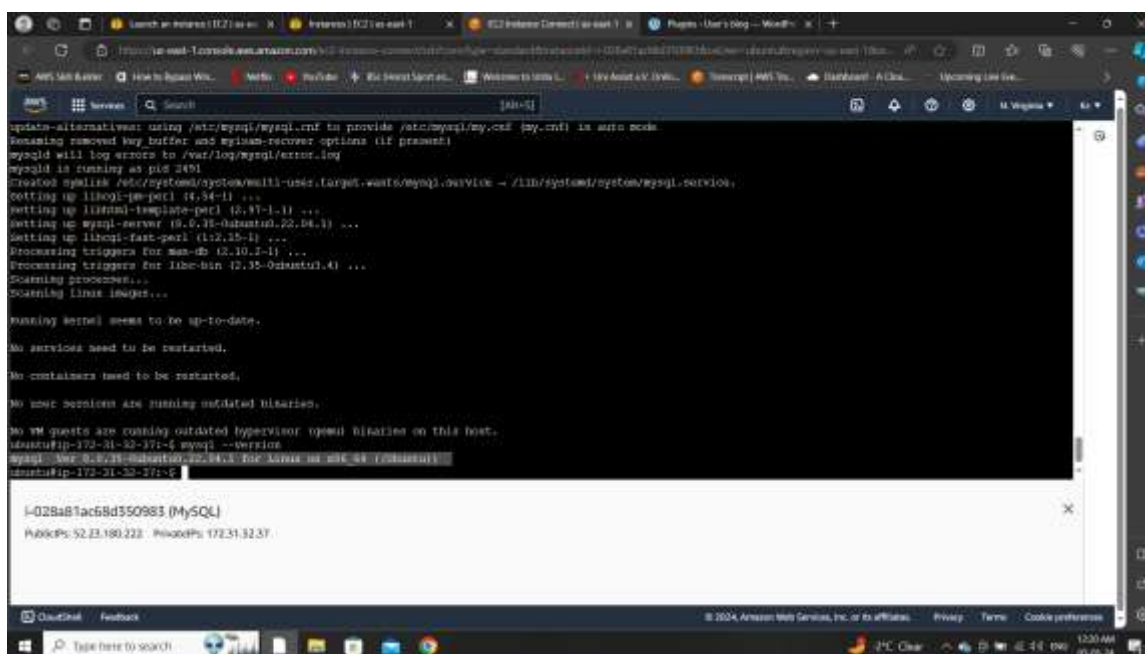
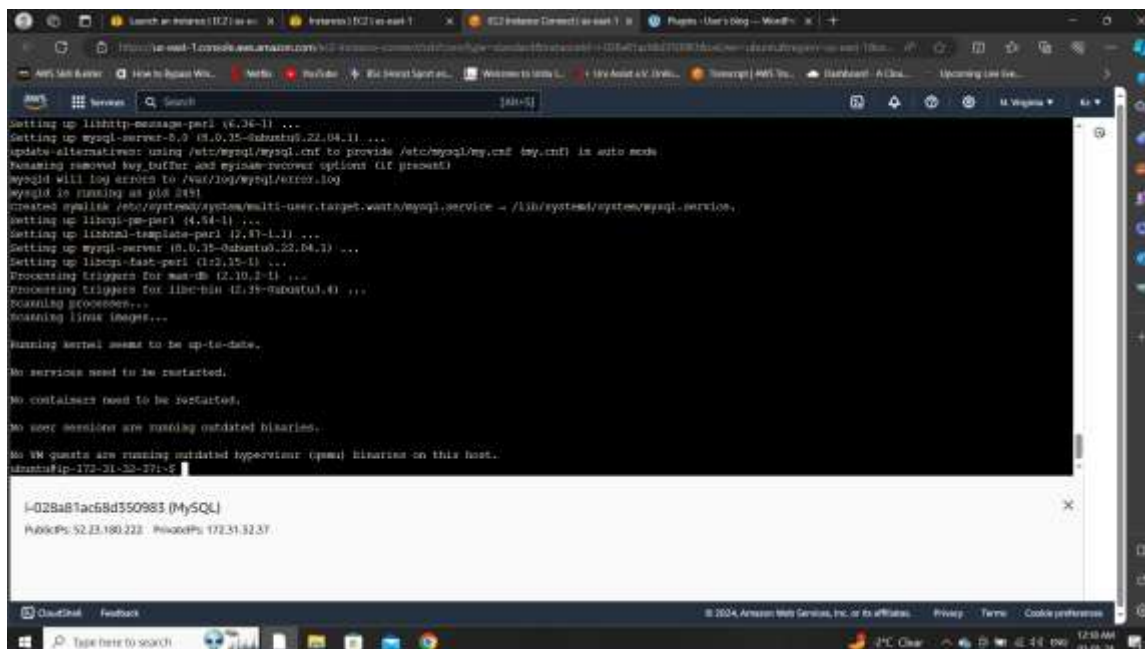
PublicIP: 52.23.180.223 - PrivateIP: 172.31.32.37

```
reading /usr/share/mecab/dic/ipadic/geom.csv ... 60473
reading /usr/share/mecab/dic/ipadic/Adnominal.csv ... 120
reading /usr/share/mecab/dic/ipadic/Num.csv ... 22393
reading /usr/share/mecab/dic/ipadic/Conjaction.csv ... 171
reading /usr/share/mecab/dic/ipadic/Pillag.csv ... 19
reading /usr/share/mecab/dic/ipadic/Num1.csv ... 399
reading /usr/share/mecab/dic/ipadic/Postp-obj.csv ... 81
reading /usr/share/mecab/dic/ipadic/symbol.csv ... 208
reading /usr/share/mecab/dic/ipadic/Adj.csv ... 22210
reading /usr/share/mecab/dic/ipadic/Num.others.csv ... 151
reading /usr/share/mecab/dic/ipadic/Num.nnm.csv ... 34200
reading /usr/share/mecab/dic/ipadic/Num.ong.csv ... 16684
reading /usr/share/mecab/dic/ipadic/Num.proper.csv ... 21381
reading /usr/share/mecab/dic/ipadic/Num.adnom.csv ... 795
emitting double-array: 100% (#####)
reading /usr/share/mecab/dic/ipadic/matrix.def ... 1216K1116
emitting matrix: 100% (#####)

done!
update-alternatives: using /usr/lib/mecab/dic/ipadic-utf8 to provide /usr/lib/mecab/dic/debian (mecab-dictionary) in auto mode
Getting up libintl-parser-perl:amd64 (3.76-1)libintl1 ...
Getting up libintl-message-perl (6.34-1) ...
Getting up mysql-server-8.0 (8.0.35-0ubuntu0.22.04.1) ...
update-alternatives: using /etc/mysql/mysql.conf to provide /etc/mysql/my.cnf (my.cnf) in auto mode
Removing removed key buffer and myisam-recover options (if present)
```

[-028a81ac58d350983 (MySQL)]

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owners.

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

mysql>
[2]# Stopped          sudo mysql
ubuntu@ip-172-31-32-37:~$ sudo systemctl status mysql
• mysql.service - MySQL Community Server
   loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset: enabled)
   active: active (running) since Tue 2024-01-02 18:48:18 UTC; 30min ago
   process: 2676 startx@ip-172-31-32-37:/usr/share/mysql/mysql-systemd-start pre code=edited, status=0/SUCCESS
   Main PID: 2684 mysqld
   status: "Server is operational"
   Tasks: 39 (limit: 1121)
   Memory: 209.7M
   CPU: 1.862s
   CGroup: /system.slice/mysql.service
           └─2684 /usr/sbin/mysqld

Jan 02 18:48:17 ip-172-31-32-37 systemd[1]: Starting MySQL Community server...
Jan 02 18:48:18 ip-172-31-32-37 systemd[1]: Started MySQL Community server.
ubuntu@ip-172-31-32-37:~$

[-028a8Tac58d350983 (MySQL)]
PublicIP: 52.23.180.223 - PrivateIP: 172.31.32.37
```

Thank you

