

Infotrixxs - Cloud AWS Intern

Name : Chandana Yandapalli

GitHub : <https://github.com/Chandanayandapalli>

Task 1: Monolithic:- 1 EC2 instance, deploying Wordpress and MySQL on the same instance

Steps:

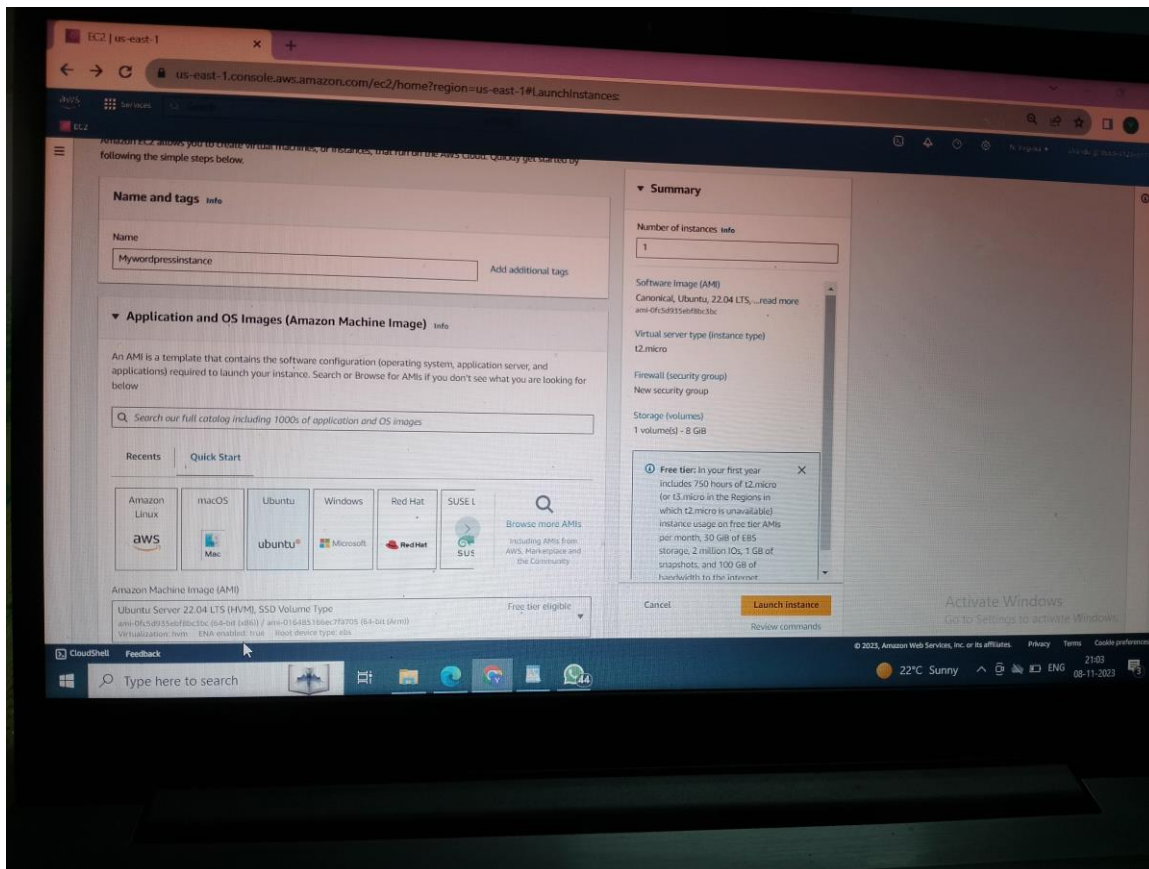
- **Creating an EC2**

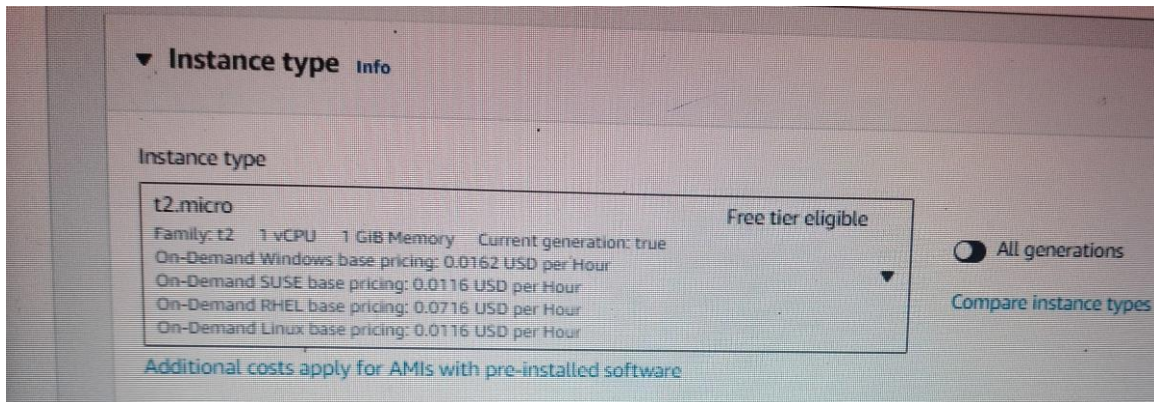
instance **Instance**
Specifications

Name: My Wordpress Server

OS: Ubuntu

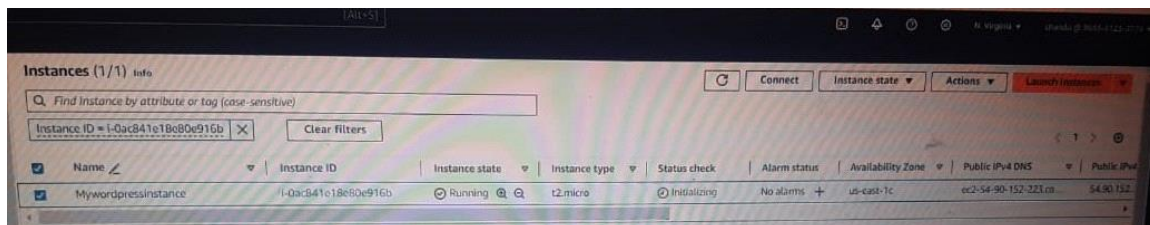
Instance Type: t2.micro



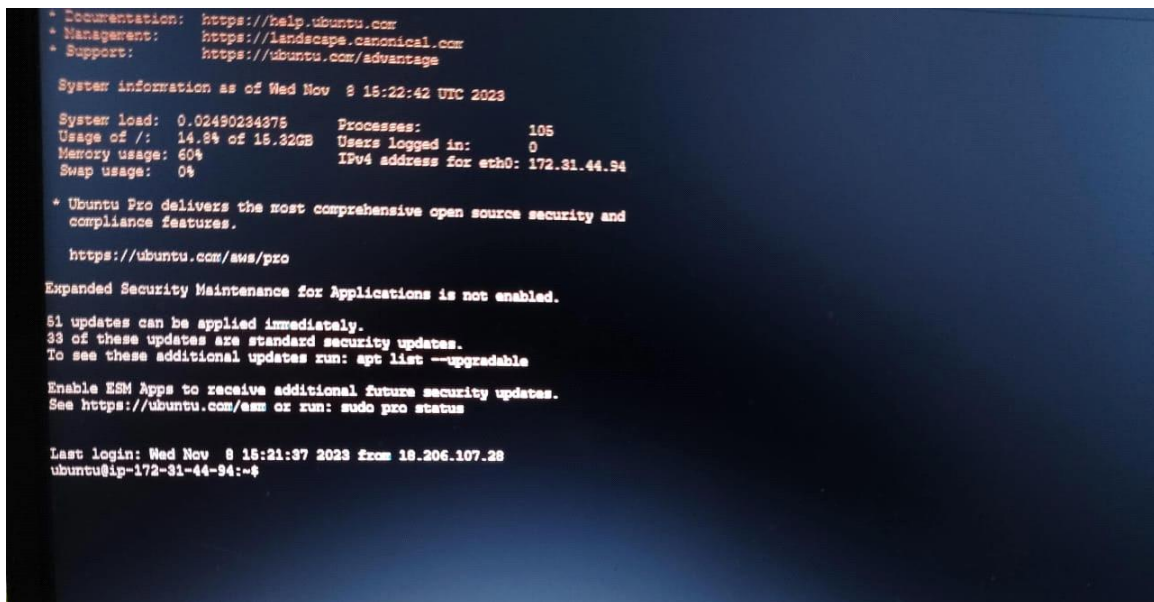


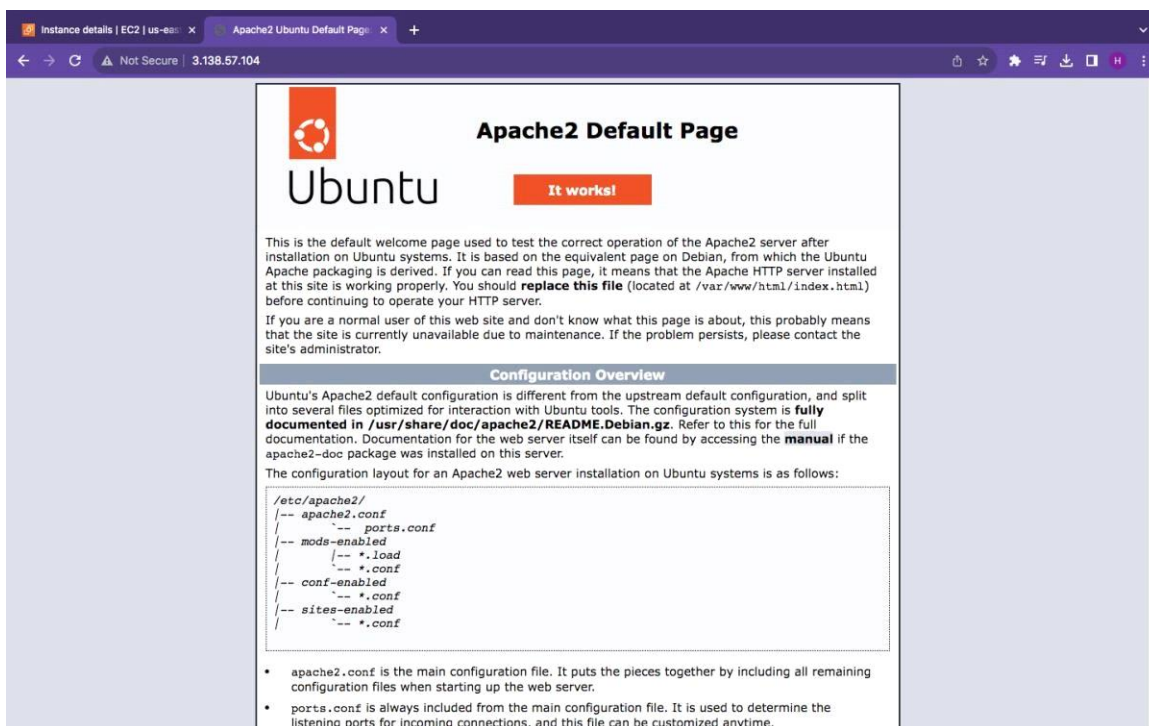
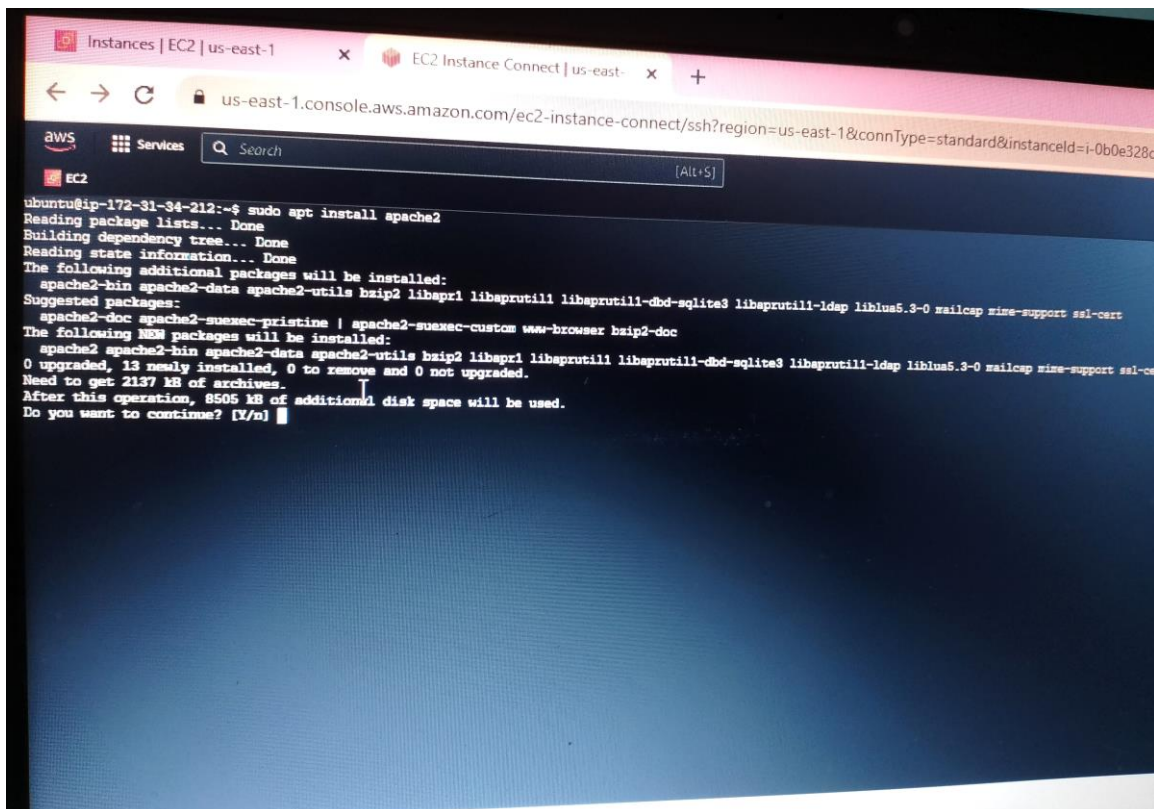
Storage: 16 GiB

Instance is up and running:

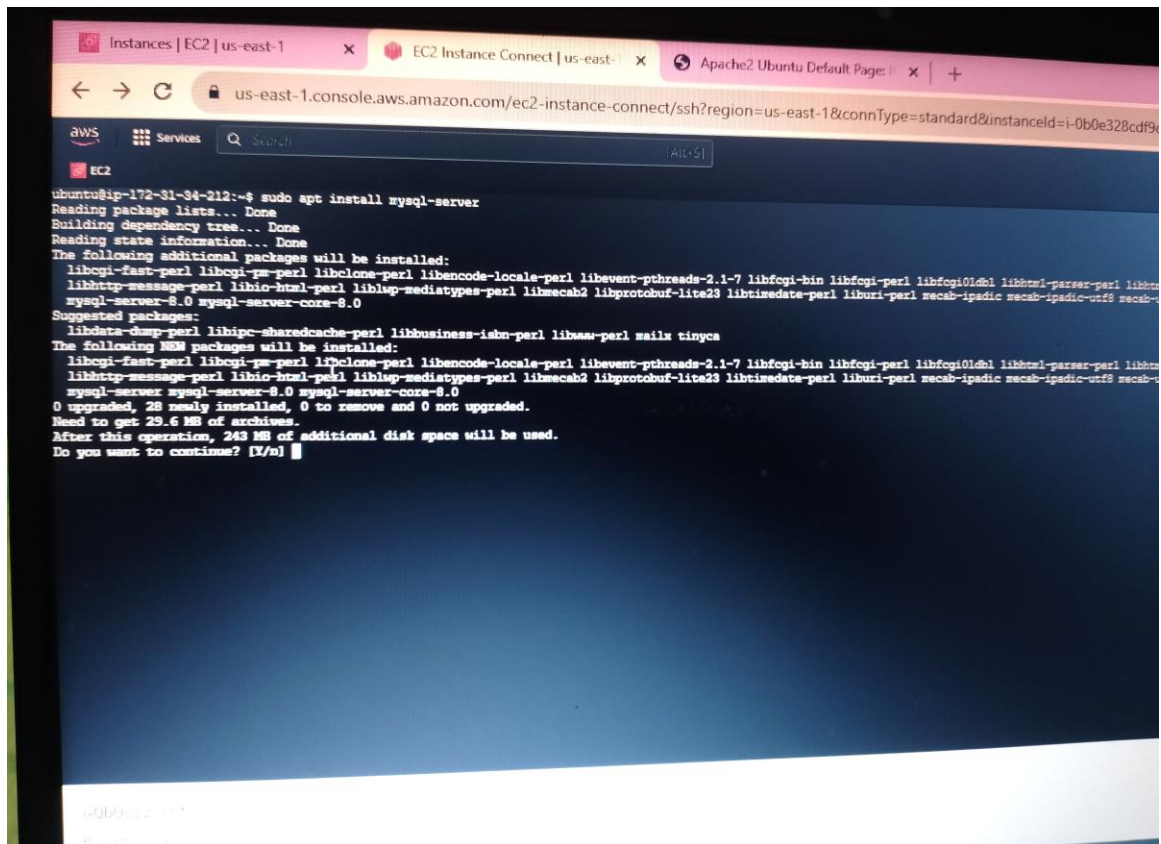


Connected to EC2 instance via SSH&Installing Apache Web Server





Installing MySQL



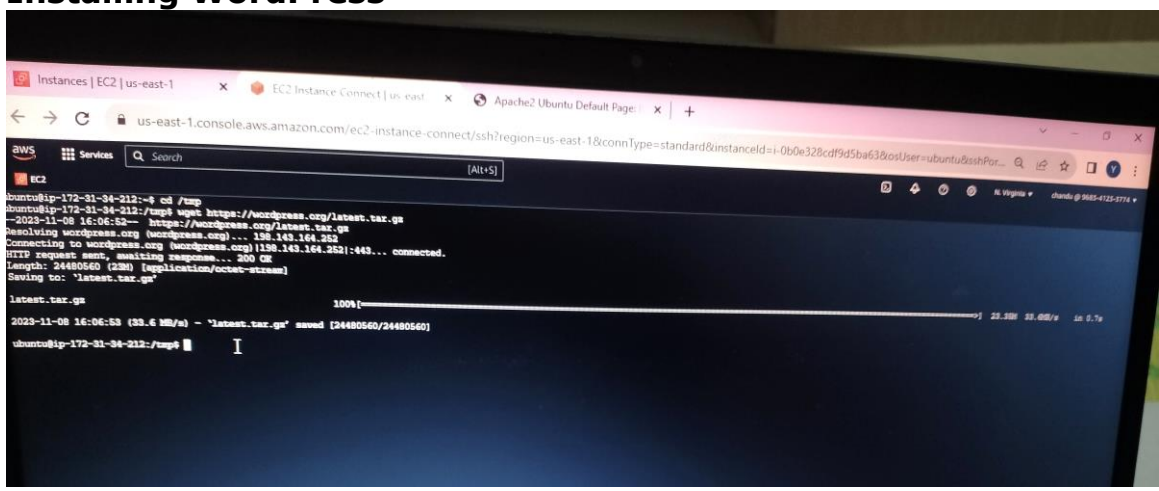
```
Instances | EC2 | us-east-1 x EC2 Instance Connect | us-east-1 x Apache2 Ubuntu Default Page | x +
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0b0e328cdf9...

aws
Services Search [Alt+S]

EC2

ubuntu@ip-172-31-34-212:~$ sudo apt install mysql-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libbgi-fast-perl libbgi-gs-perl libclone-perl libencode-locale-perl libevent-pthreads-2.1-7 libfcgi-bin libfcgi-perl libfcgi0ldbl libhtml-parser-perl libhtml-
  libhttp-message-perl libio-html-perl liblwp-mediatypes-perl libmecab2 libprotobuf-lite23 libtimedate-perl liburi-perl libwww-perl libwww-perl libwww-perl libwww-perl
  mysql-server-8.0 mysql-server-core-8.0
Suggested packages:
  libdata-dump-perl libipc-sharedcache-perl libbusiness-isbn-perl libwww-perl mailx tinyca
The following NEW packages will be installed:
  libbgi-fast-perl libbgi-gs-perl libclone-perl libencode-locale-perl libevent-pthreads-2.1-7 libfcgi-bin libfcgi-perl libfcgi0ldbl libhtml-parser-perl libhtml-
  libhttp-message-perl libio-html-perl liblwp-mediatypes-perl libmecab2 libprotobuf-lite23 libtimedate-perl liburi-perl libwww-perl libwww-perl libwww-perl libwww-perl
  mysql-server-8.0 mysql-server-core-8.0
0 upgraded, 28 newly installed, 0 to remove and 0 not upgraded.
Need to get 29.6 MB of archives.
After this operation, 243 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

Installing WordPress



```
Instances | EC2 | us-east-1 x EC2 Instance Connect | us-east-1 x Apache2 Ubuntu Default Page | x +
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0b0e328cdf9d5ba63&osUser=ubuntu@sshPor...

aws
Services Search [Alt+S]

EC2

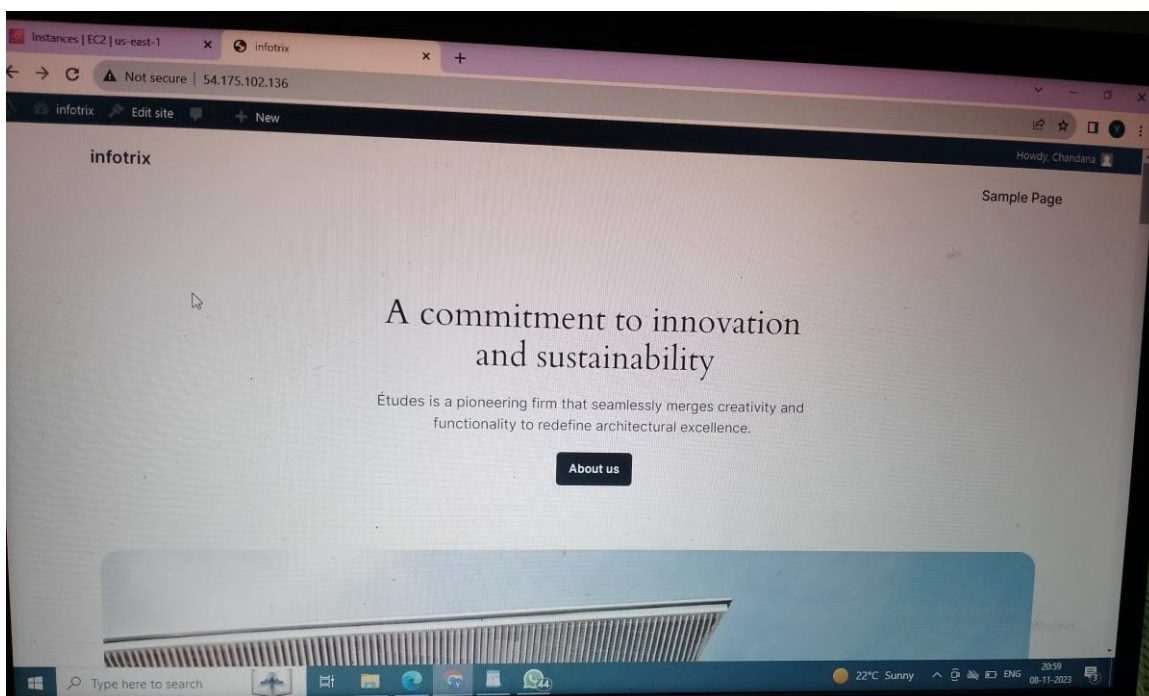
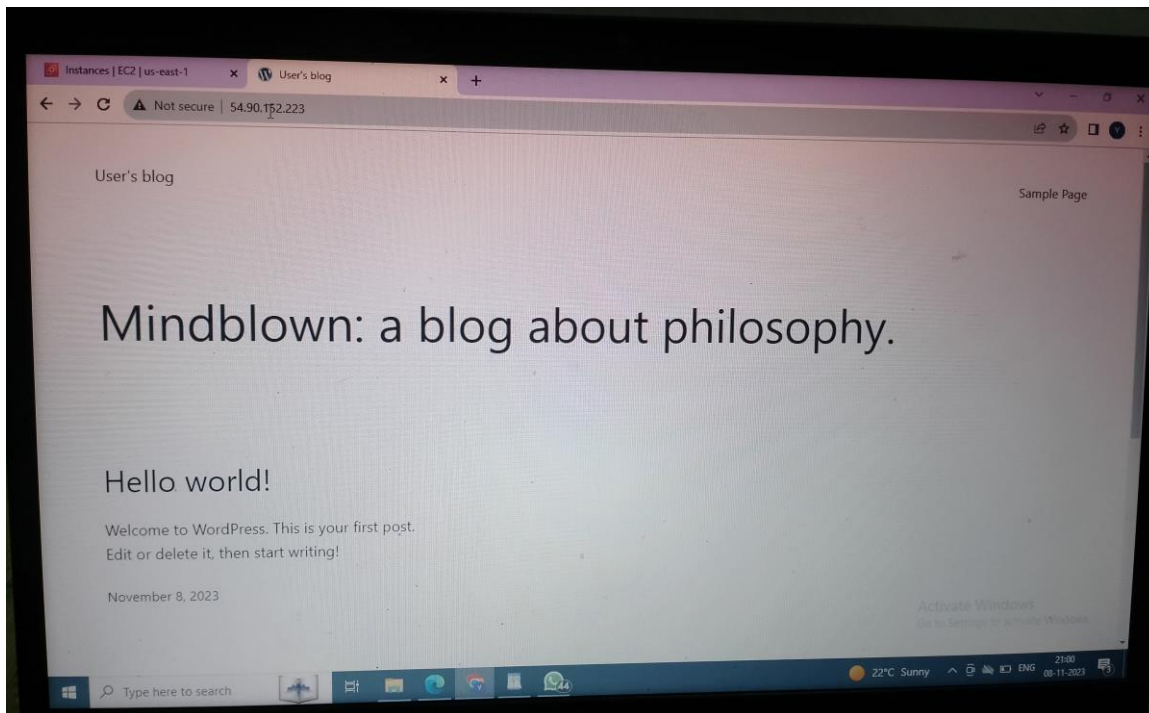
ubuntu@ip-172-31-34-212:~$ cd /tmp
ubuntu@ip-172-31-34-212:~$ curl -O https://wordpress.org/latest.tar.gz
--2023-11-08 16:06:52-- https://wordpress.org/latest.tar.gz
Resolving wordpress.org (wordpress.org)... 138.143.164.252
Connecting to wordpress.org (wordpress.org)|138.143.164.252|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 24480560 (23M) [application/octet-stream]
Saving to: 'latest.tar.gz'

latest.tar.gz                               100%[-----] 23.38M  21.6MB/s   in 5.7s

2023-11-08 16:06:53 (23.6 MB/s) - 'latest.tar.gz' saved [24480560/24480560]

ubuntu@ip-172-31-34-212:~$
```

Wordpress installed successfully

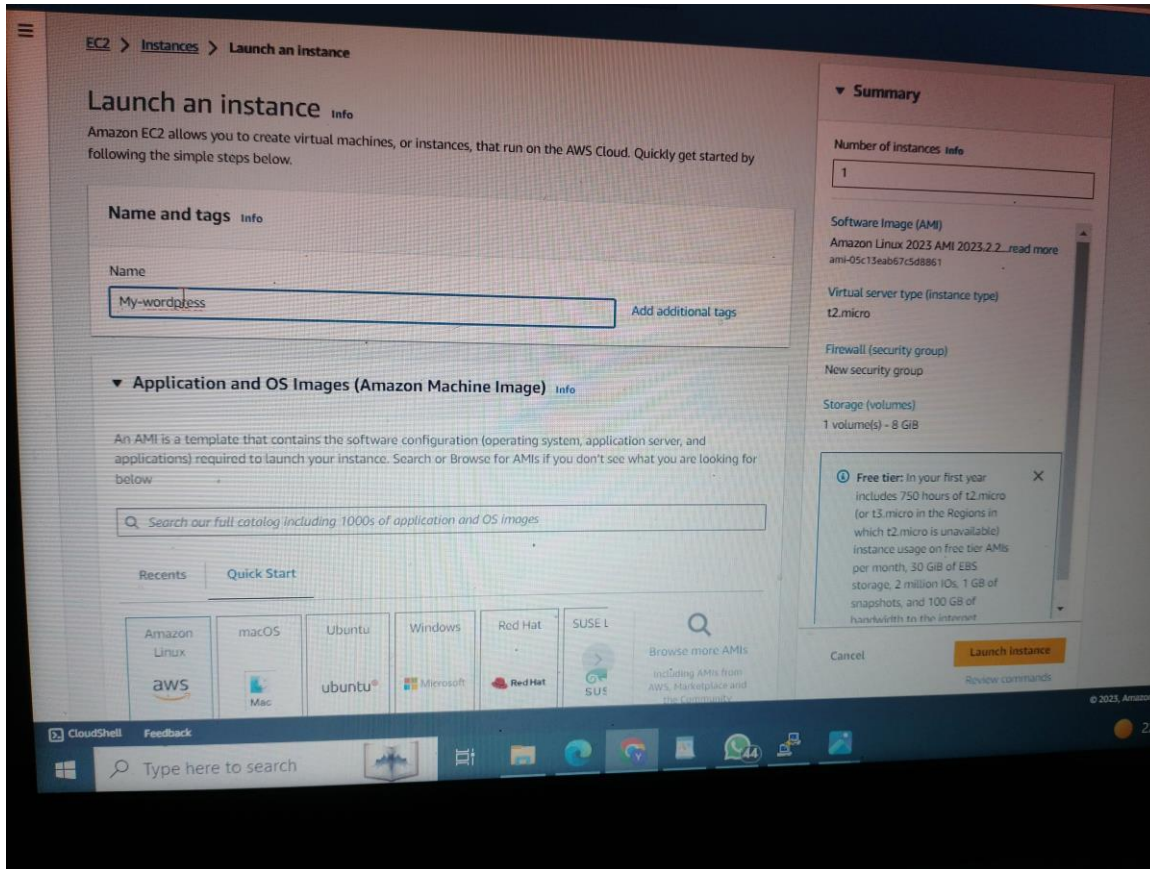


Task 2: Microservice:- 2 EC2 instances, one for Wordpress and one for MySQL

Steps:

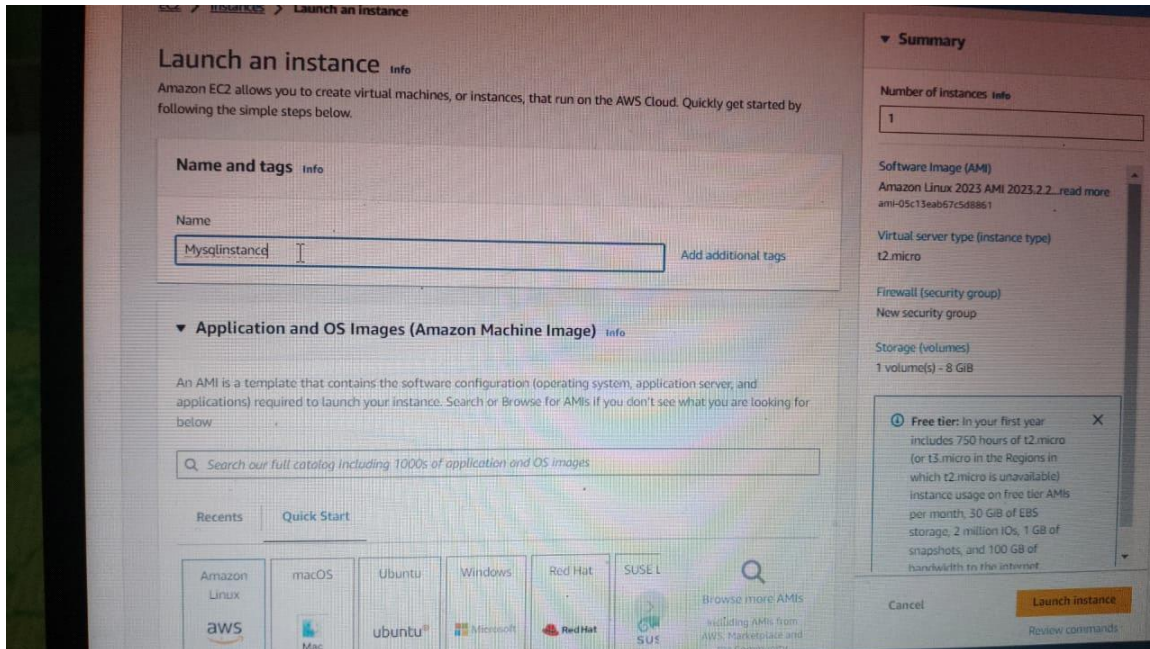
- **Creating two EC2 instances Instance 1**
Specifications

Name: Wordpress Instance
OS: Ubuntu
Instance Type: t2.micro
Storage: 8 GiB

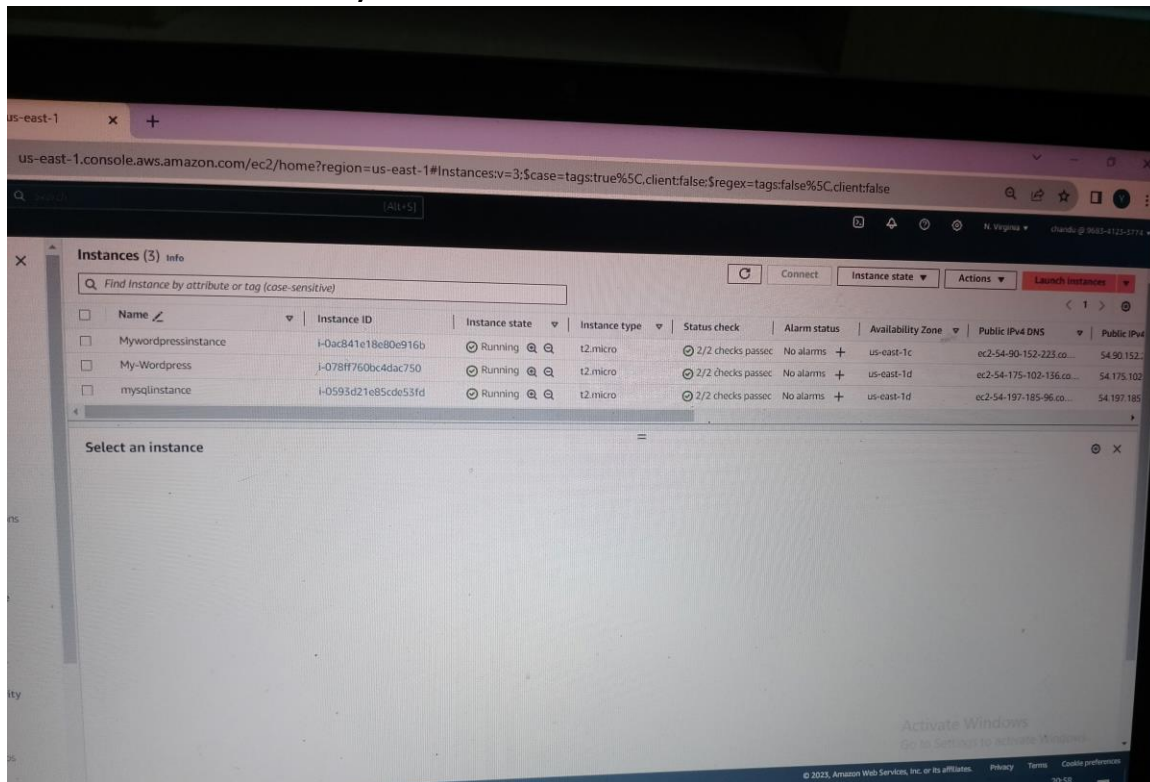


Instance 2 Specifications

Name: MySQL Instance
OS: Ubuntu
Instance Type: t2.micro
Storage: 8 GiB



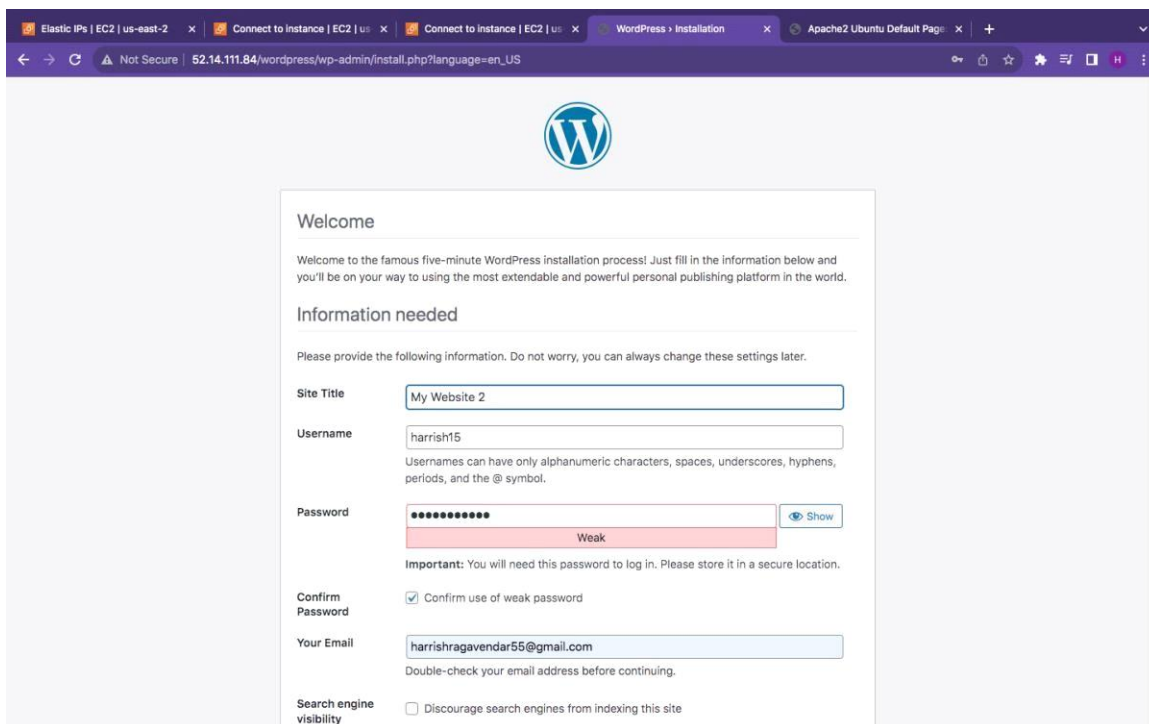
Total - 3 instances, one for task 1 and two for task 2



Installing MySQL on first instance

```
ubuntu@ip-172-31-42-180:~$ sudo apt install mysql-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libbcbi-fast-perl libbcbi-pm-perl libclone-perl libencode-locale-perl libevent-pthreads-2.1-7 libfcgi-bin
  libfcgi-perl libfcgi0ldbl libhtml-parser-perl libhtml-tagset-perl libhtml-template-perl libhttp-date-perl
  libhttp-message-perl libio-html-perl liblwp-mediatypes-perl libmecab2 libprotobuf-lite23 libtimedate-perl
  liburi-perl mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0 mysql-client-core-8.0 mysql-common
  mysql-server-8.0 mysql-server-core-8.0
Suggested packages:
  libdata-dump-perl libipc-sharedcache-perl libbusiness-isbn-perl libwww-perl mailx tinyca
The following NEW packages will be installed:
  libbcbi-fast-perl libbcbi-pm-perl libclone-perl libencode-locale-perl libevent-pthreads-2.1-7 libfcgi-bin
  libfcgi-perl libfcgi0ldbl libhtml-parser-perl libhtml-tagset-perl libhtml-template-perl libhttp-date-perl
  libhttp-message-perl libio-html-perl liblwp-mediatypes-perl libmecab2 libprotobuf-lite23 libtimedate-perl
  liburi-perl mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0 mysql-client-core-8.0 mysql-common
  mysql-server-8.0 mysql-server-core-8.0
```

Installing Apache Web Server and Wordpress on the second instance



Website deployed:

