

AWS CLOUD TASK

Prerequisites:

I created AWS Account

Login to AWS console

TASK:

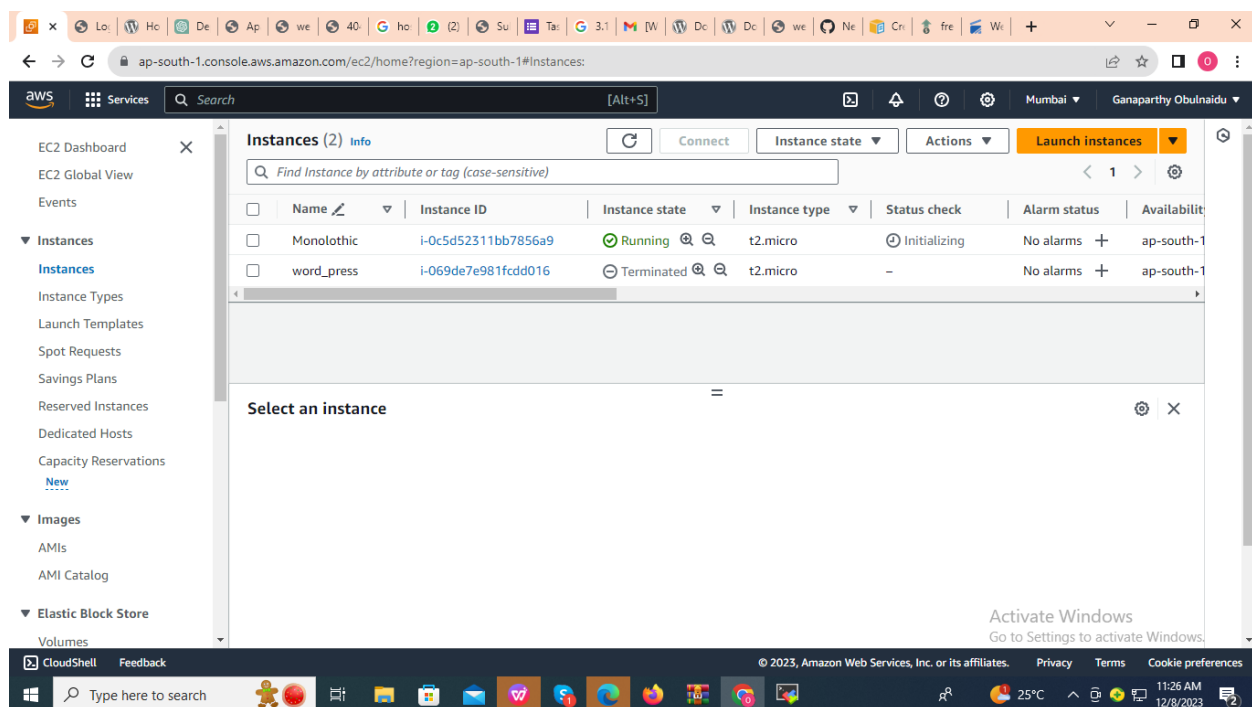
MONOLOTHIC ARCHITECTURE: DEPLOY WORDPRESS AND MYSQL ON SAME INSTANCE

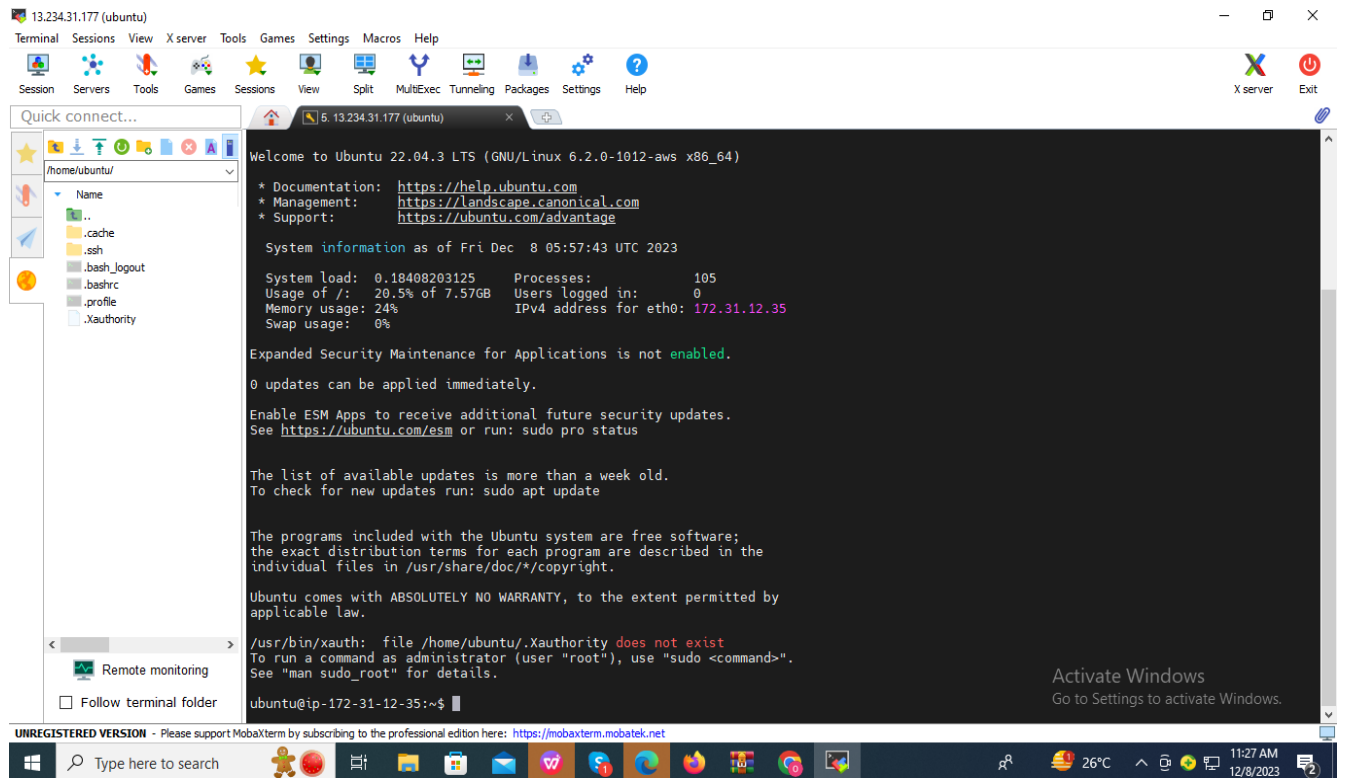
AMI-UBUNTU, EC2 INSTANCE TYPE;T2 MICRO (TASK REQUIREMENT I USED)

LAUNCHED Ec2 instance below

AMI-Ubuntu, t2 micro-ec2 instance type,

created key pair, configured the security groups HTTP, HTTPS, SSH





By using the public ip address of my launched ec2 instance connected by SSH for mobixterm.

#1. Install Apache server on Ubuntu

```
sudo apt install apache2
```

2. Install Php runtime and php mysql connector

```
sudo apt install php libapache2-mod-php php-mysql
```

3. Install MySQL server

```
sudo apt install mysql-server
```

4. Login to MySQL server

```
sudo mysql -u root
```

5. Change authentication plugin to mysql_native_password (change the password to something strong)

```
ALTER USER 'root'@localhost IDENTIFIED WITH mysql_native_password by  
'Testpassword@124';
```

6. Create a new database user for wordpress (change the password to something strong)

```
CREATE USER 'wp1_user'@localhost IDENTIFIED BY 'Testpassword@124';
```

7. Create a database for wordpress

```
CREATE DATABASE wp;
```

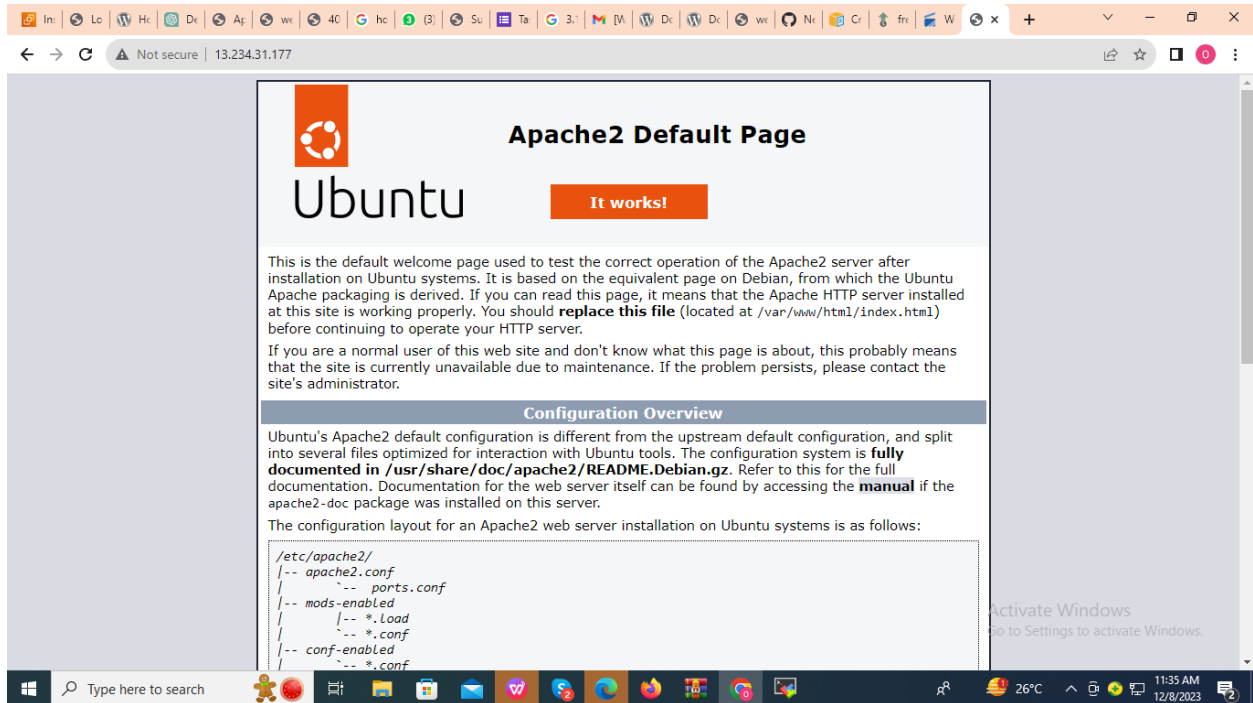
8. Grant all privileges on the database 'wp' to the newly created user

```
GRANT ALL PRIVILEGES ON wp.* TO 'wp1_user'@localhost;
```

9.exit

We can navigate apache2 server by using ip address active or not.

It shows this image if it is working



9. Download wordpress

```
cd /tmp
```

```
wget https://wordpress.org/latest.tar.gz
```

10. Unzip

```
tar -xvf latest.tar.gz
```

11. Move wordpress folder to apache document root

```
sudo mv wordpress/ /var/www/html
```

12. Change to that directory to check whether wordpress is moved to document root and the path for that directory is.

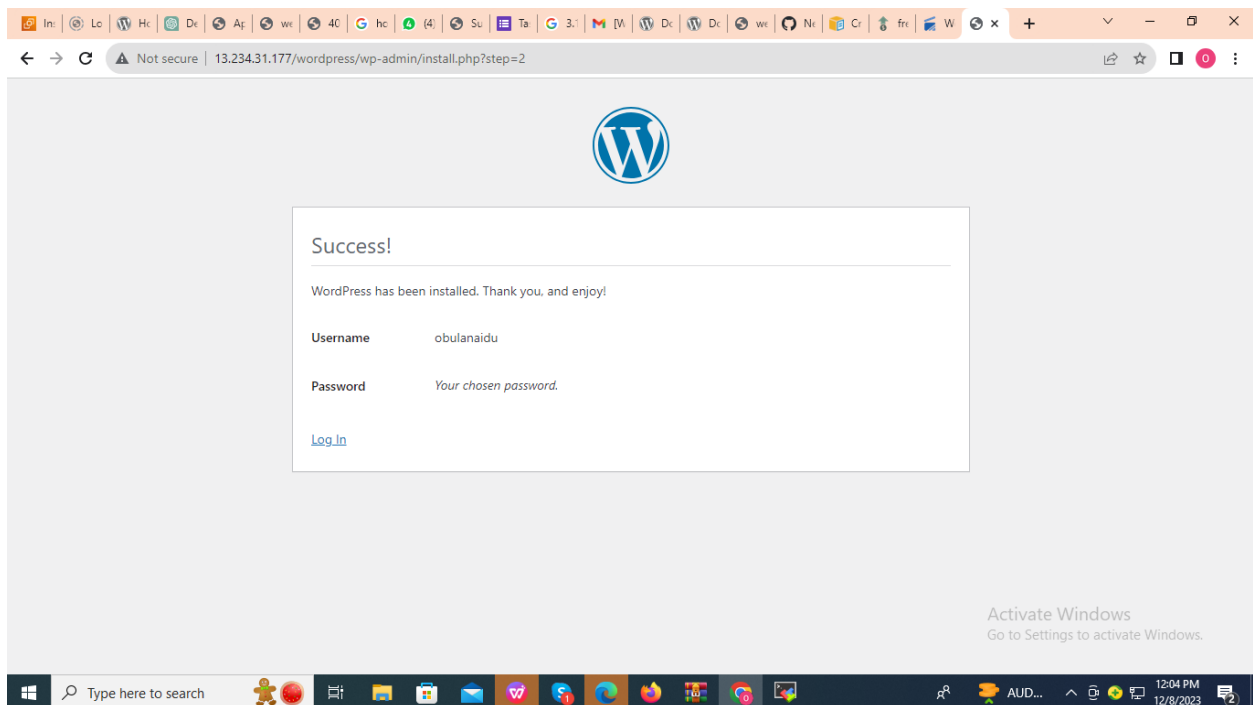
```
cd /var/www/html
```

13.To list the files

```
Ls
```

NOTE: here by navigating our ip /wordpress we can have wordpress installation screen.here by clicking on lets go,we give db name,user,password,db host,table-prefix and submits.

here it shows unable to write wp-config.php file.here copy the below text of php file and go back to terminal.



14.command to change in to the word press directory

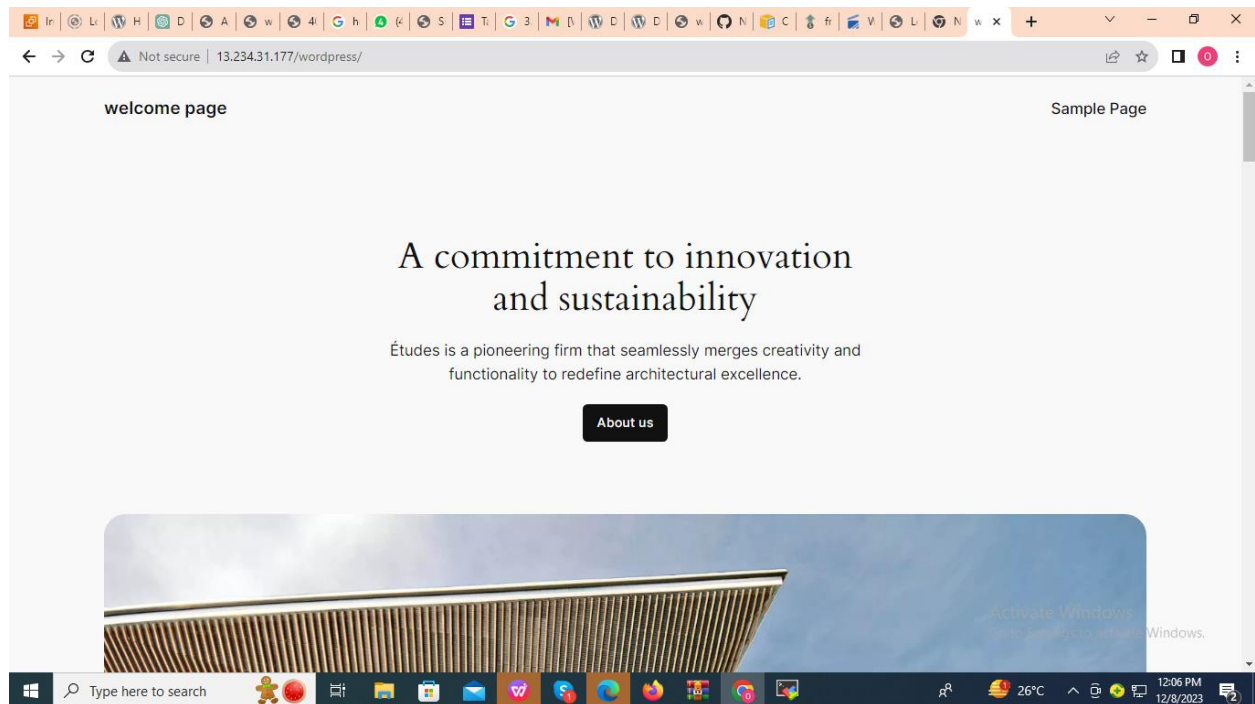
```
cd wordpress/
```

15.created a new file with wp-config.php and paste the text of php file here and save it.

```
nano wp-config.php
```

Now installed wordpress by giving site title:WELCOME PAGE,username,password,email here and click on install wordpress.it will take to wordpress login page.

Finally here by navigating browser ip address/wordpress it shows the wordpress website that is deployed.



THIS IS THE OUTPUT OF MONOLOTHIC ARCHITECHTURE OF MY WEBSITE WITH URL
<http://13.234.31.177/wordpress/>

The screenshot shows a MobaXterm terminal window with the following components:

- Top Bar:** Displays the host address 13.234.31.177 (ubuntu) and various menu options like Terminal, Sessions, View, X server, Tools, Games, Settings, Macros, and Help.
- Left Panel:** A file explorer showing the directory structure of the remote host, including .cache, .local, .ssh, .bash_history, .bash_logout, .bashrc, .profile, .sudo_as_admin_successful, and .xauthority.
- Terminal Window:** Contains the following text and commands:

```
Usage of /: 31.6% of 7.57GB    Users logged in: 0
Memory usage: 65%          IPv4 address for eth0: 172.31.12.35
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

75 updates can be applied immediately.
49 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

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

Last login: Fri Dec 8 05:57:44 2023 from 183.82.106.28
ubuntu@ip-172-31-12-35:~$ ls
ubuntu@ip-172-31-12-35:~$ cd /var/www/html
ubuntu@ip-172-31-12-35:/var/www/html$ sudo nano wp-config.php
ubuntu@ip-172-31-12-35:/var/www/html$ history
1 sudo apt update
2 sudo apt install apache2
3 sudo apt install php libapache2-mod-php php-mysql
4 sudo apt install mysql-server
5 sudo mysql -u root
6 cd /tmp
7 wget https://wordpress.org/latest.tar.gz
8 ls
9 tar -xvf latest.tar.gz
10 sudo mv wordpress/ /var/www/html
11 cd /var/www/html
12 ls
13 nano wp-config.php
14 ls
15 cd /var/www/html
16 sudo nano wp-config.php
17 history
ubuntu@ip-172-31-12-35:/var/www/html$
```
- Bottom Bar:** Includes a status message "UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net", a search bar, and a taskbar with various application icons.

THESE ARE THE STEPS I FOLLOWED TO DEPLOY WORDPRESS AND MYSQL IN MONOLOTHIC ARCHITECTURE.