Deployment of Wordpress

Introduction

This project demonstrate the deployment of a Wordpress websites on Linux server using the LAMP stack(Linux, Apache, MariaDB, PHP). Wordpress is a popular CMS that allows users to build dynamic and customizable websites.

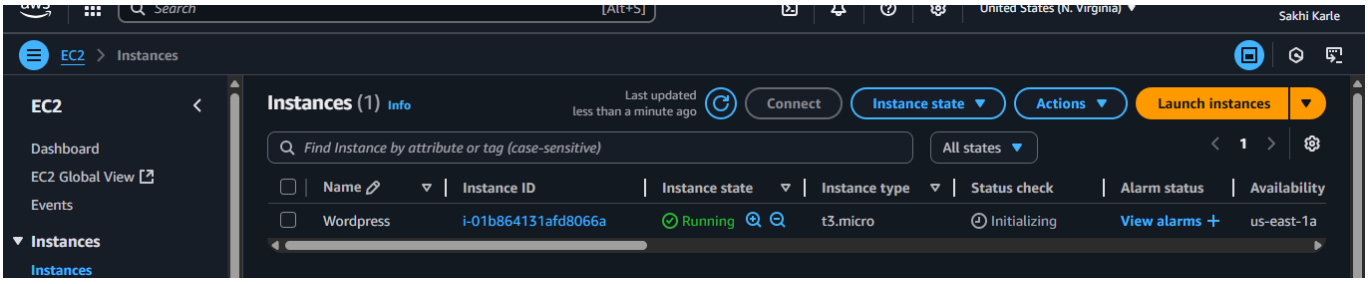
Prerequisites

Before deploying Wordpresss, ensure the following steps are installed and configured:

1. Linux Server- Amazon Linux/ Ubuntu (EC2 instance).
2. Web Server - Apache HTTP Server installed and running.
3. Database - Mariadb/MySQL for storing Wordpresss data.
4. PHP - With required extensions (php-mysql, php-fpm, etc).
5. Internet Access - To download Wordpress and dependencies.

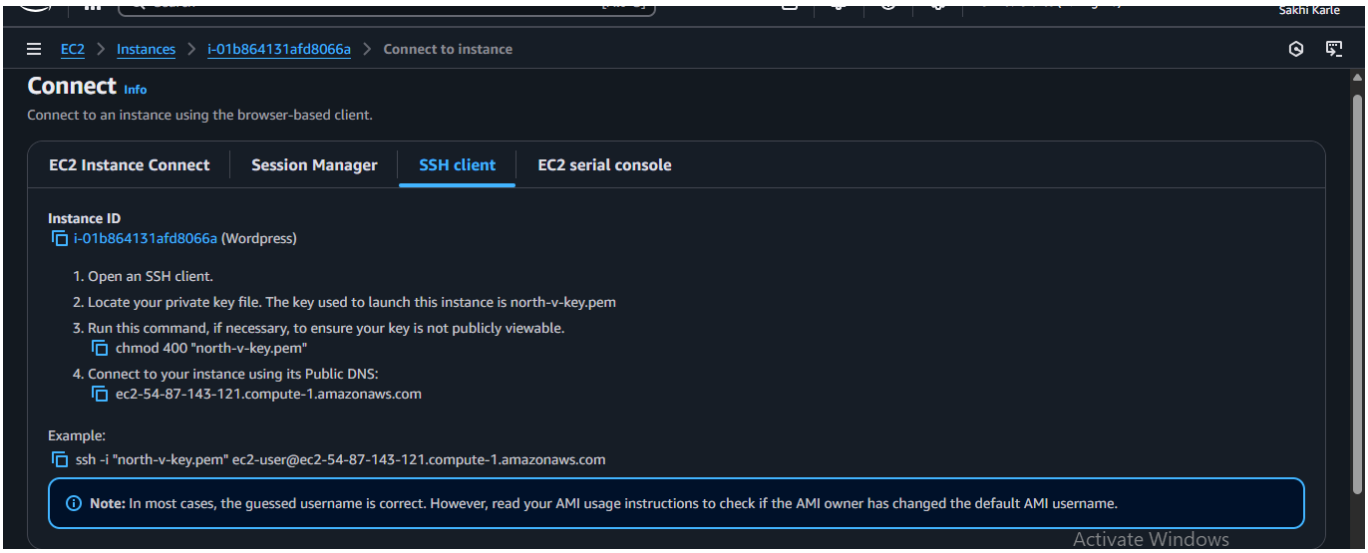
Deployment Steps

* Step 1: Launch EC2 Instance



* Step 2: Copy the ssh key and Connect to EC2 Instance

1.



2. 

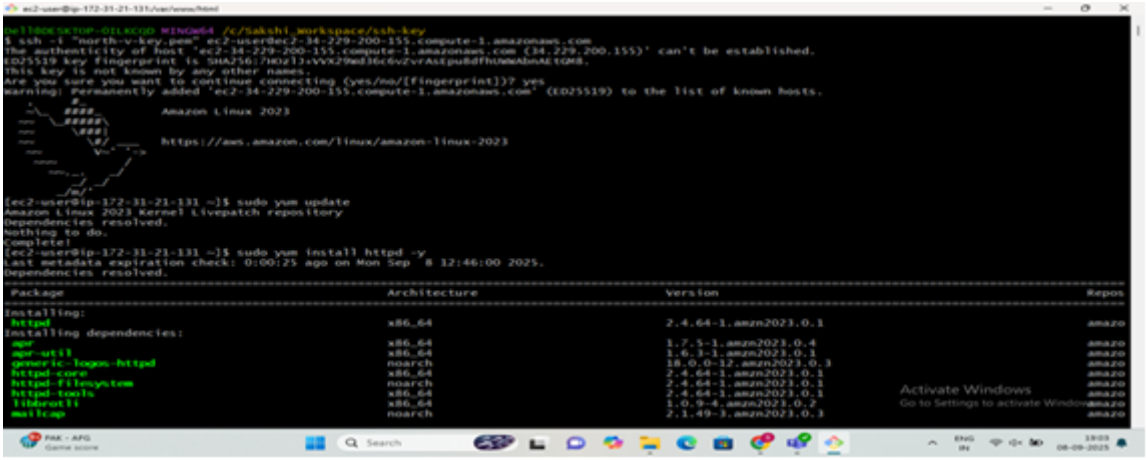
* Step 3: Install LAMP Stack with Shell Script

1. Create LAMP.sh file

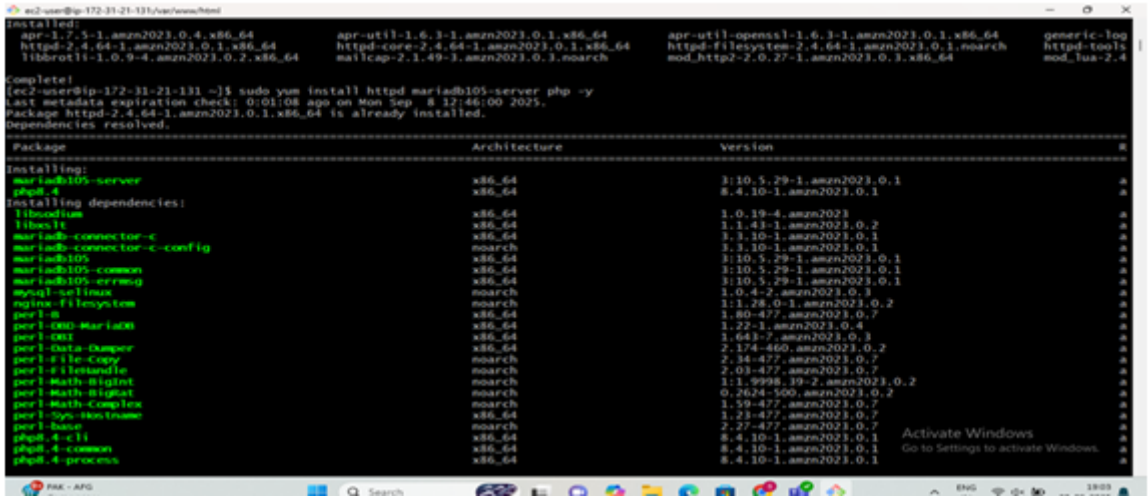
```
sudo vim LAMP.sh
```

2.Install LAMP

```
sudo yum update
```



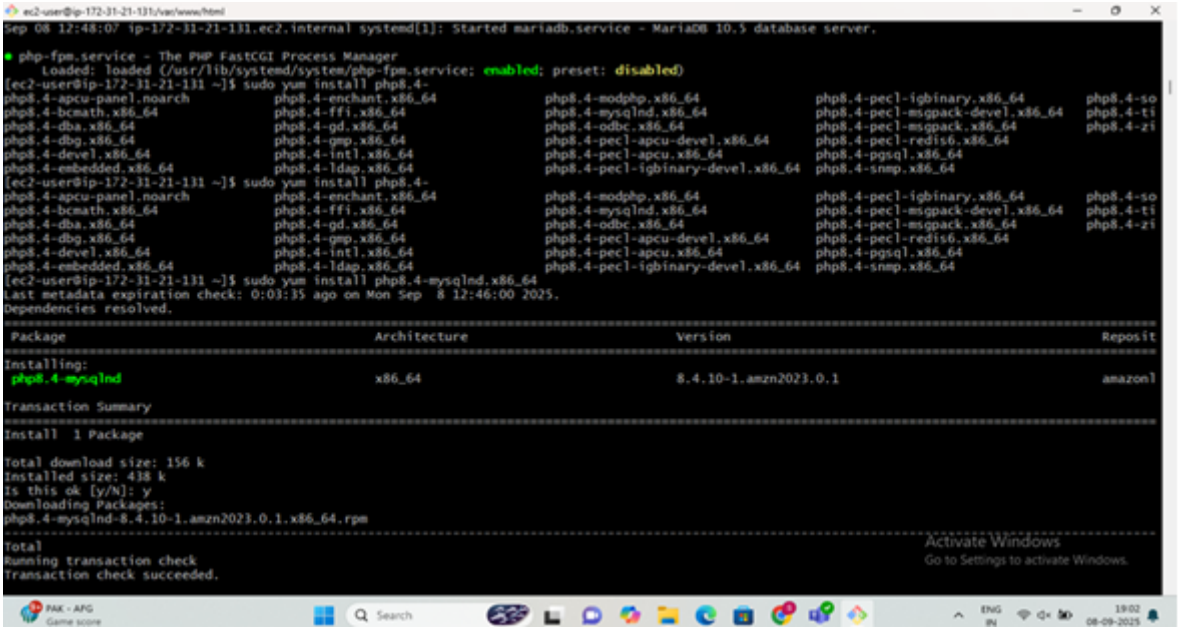

```
sudo yum install httpd mariadb105-server php -y
```




```
sudo systemctl start httpd mariadb php-fpm
sudo systemctl enable httpd mariadb php-fpm
sudo systemctl status httpd mariadb php-fpm
```

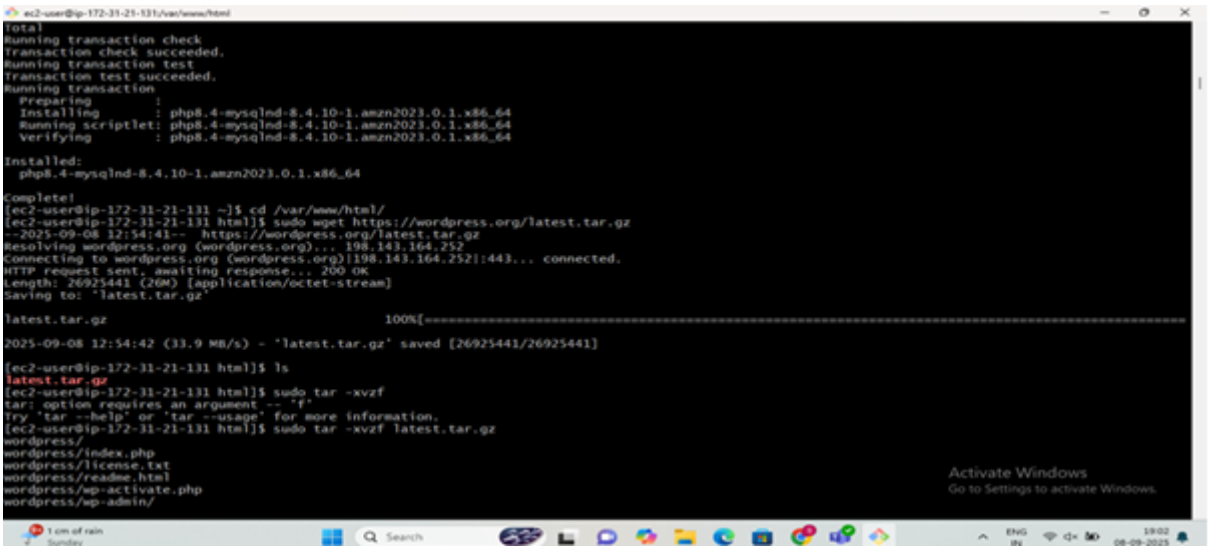
Step 4: Install PHP Connector

```
sudo yum install php8.4-mysqlnd.x86_64
```

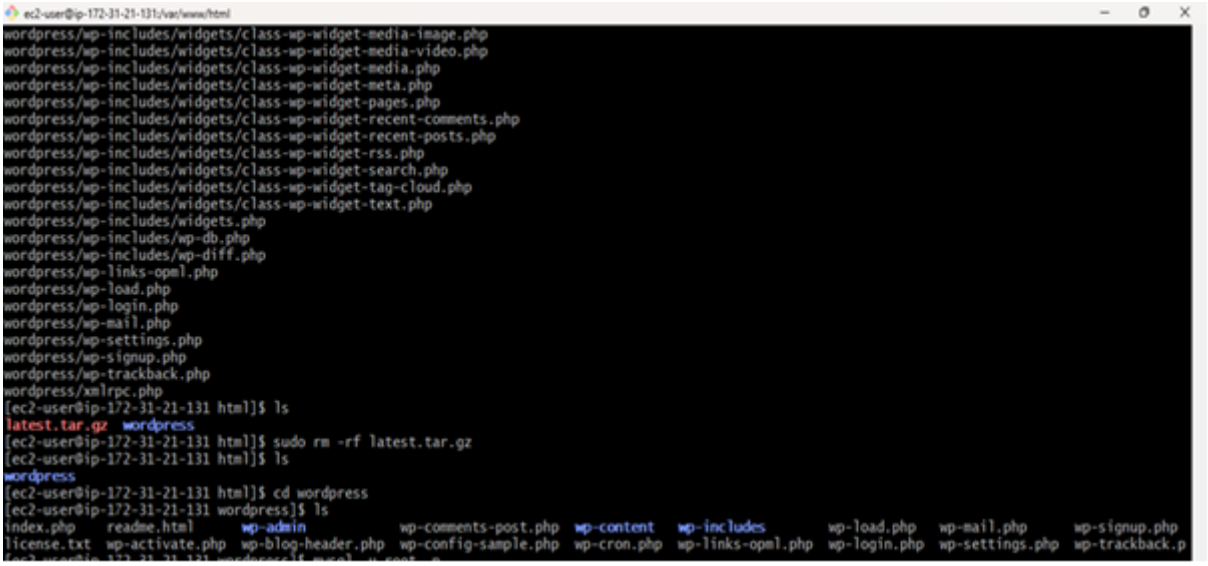


Step 5: Download and Extract Wordpress

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



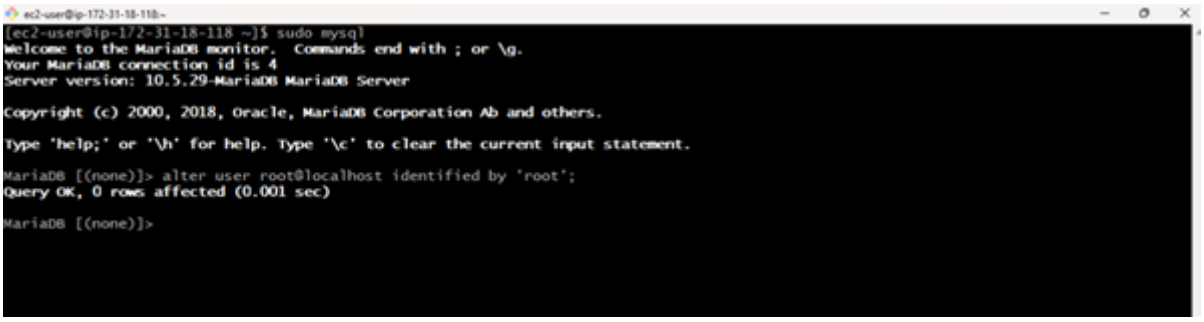

```
sudo get https://wordpress.org/latest.tar.gz
tar -xvzf <latest.tar.gz>
```



Step 6: Create Wordpress database

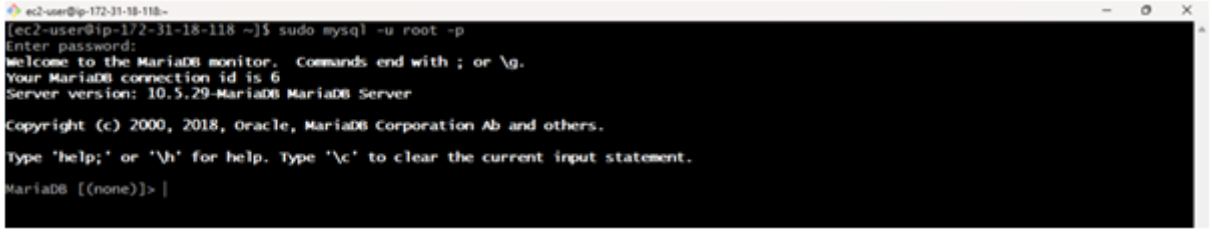
1.Generate username and password

```
sudo mysql
alter user@localhot identified by 'root';
```



2.Login to Mysql (mariadb105-server)

```
 sudo mysql -u root -p
```



Step 7: Create Database

```
create database wordpressdb;
show databases;
```

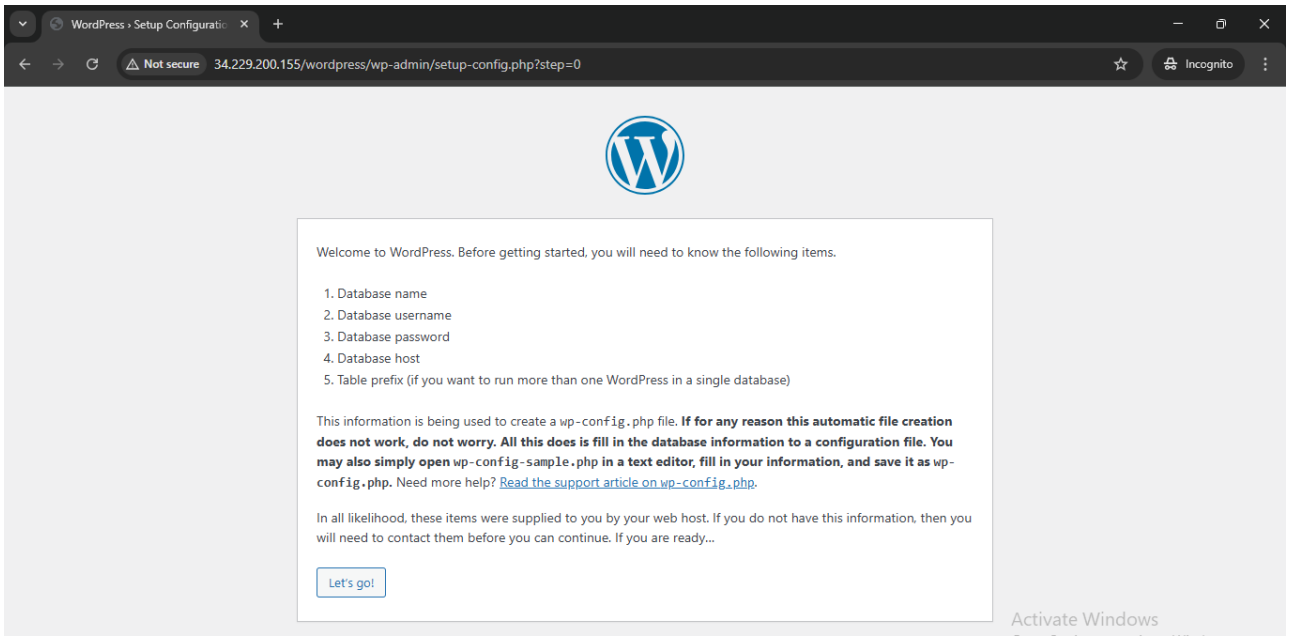
```
MariaDB [(none)]> create database wordpressdb;
Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| wordpressdb        |
+--------------------+
4 rows in set (0.002 sec)

MariaDB [(none)]>
```


Step 8: Grant permission to wordpress directory

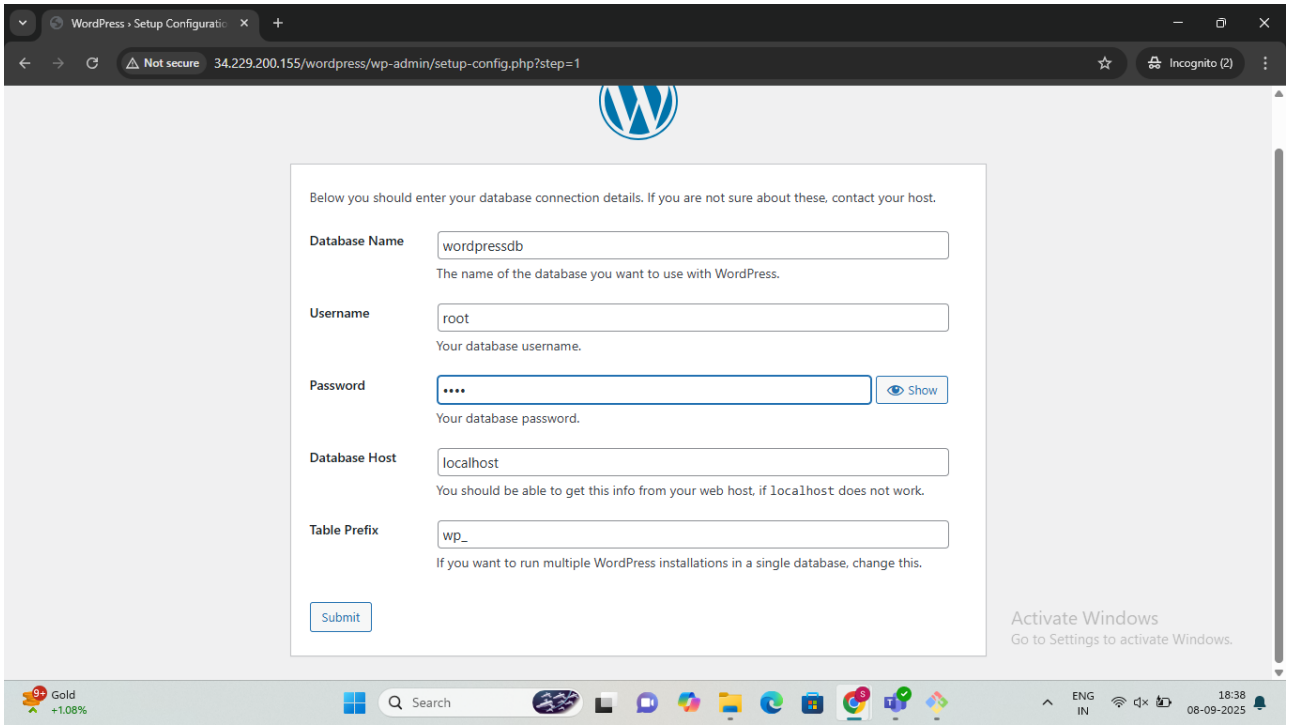
```
sudo chown -R apache:apache wordpress/
```

Step 9: Paste the public IP in any browser

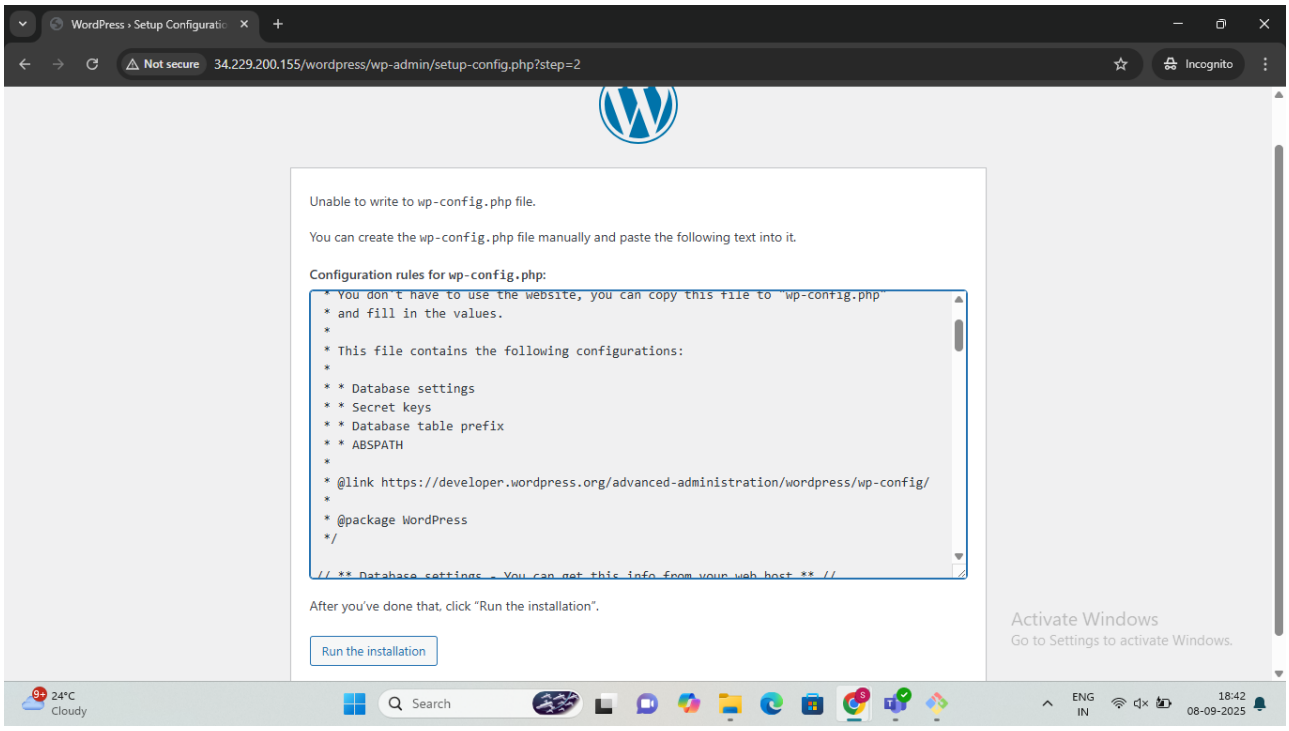
1. Click on let's go



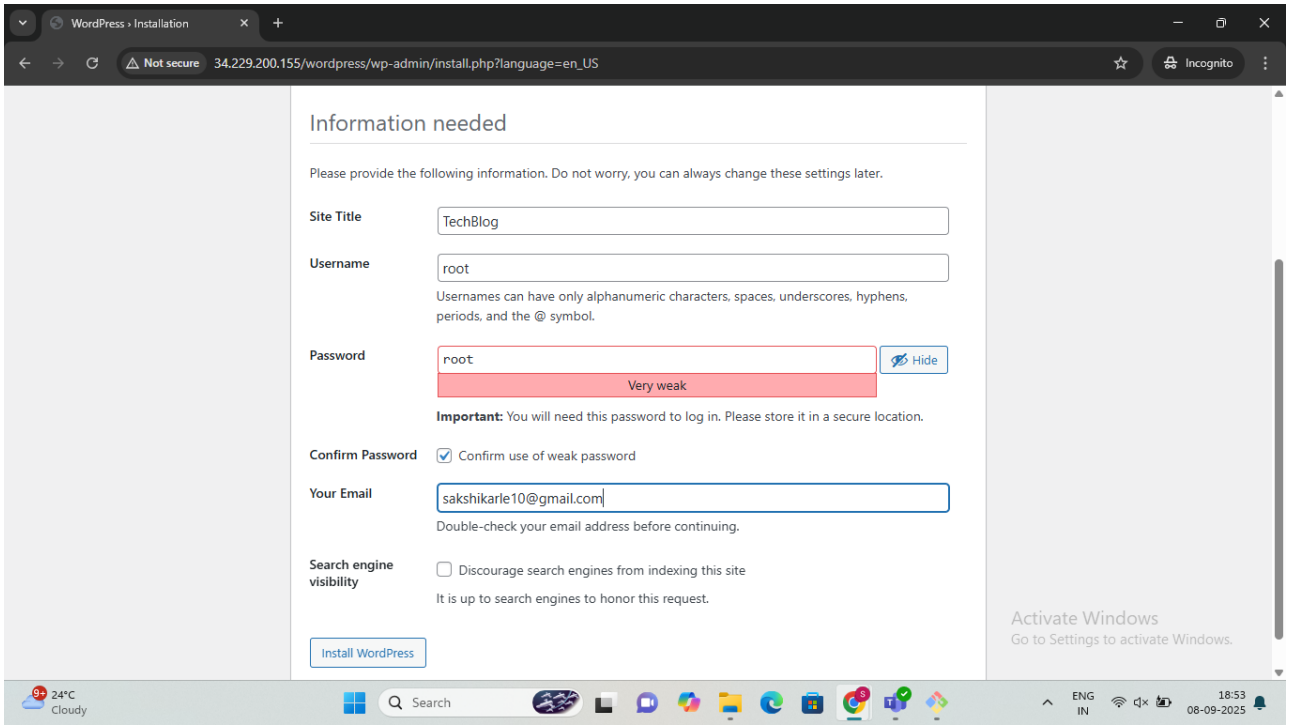
2. Fill the information and click on submit



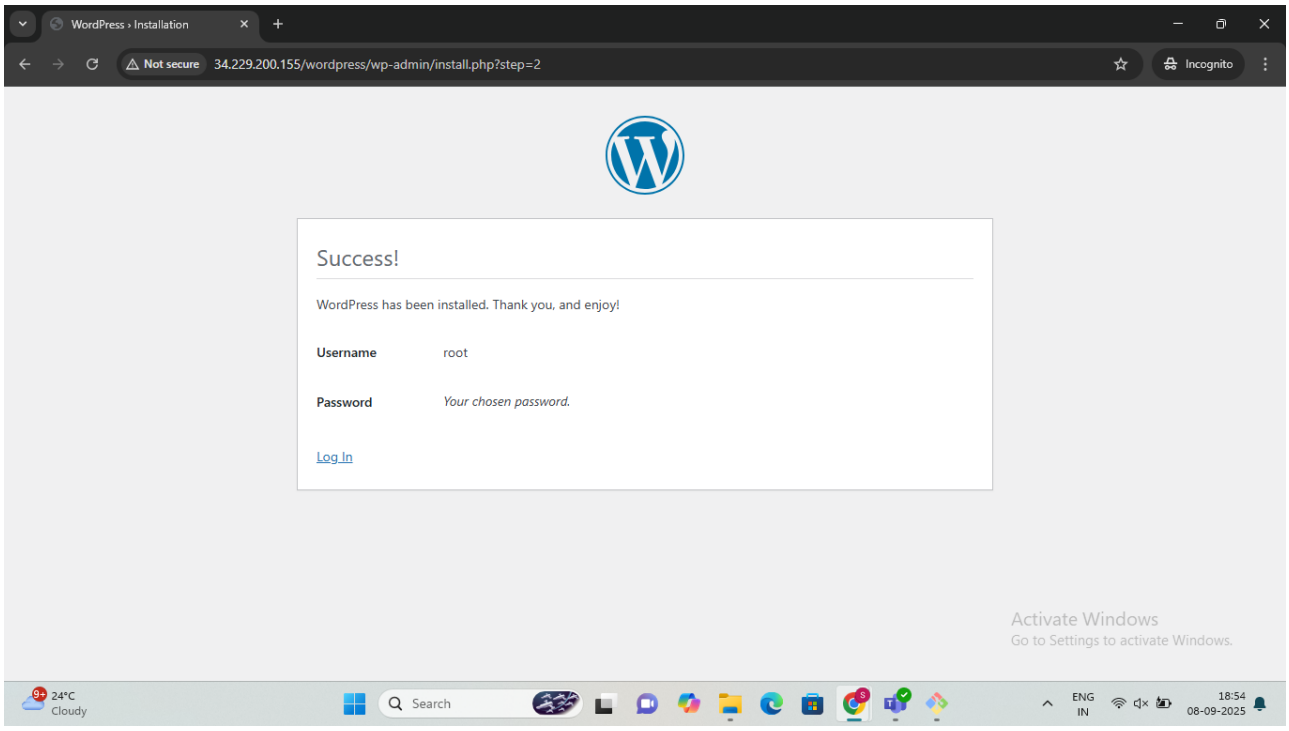
3. Run and Installation

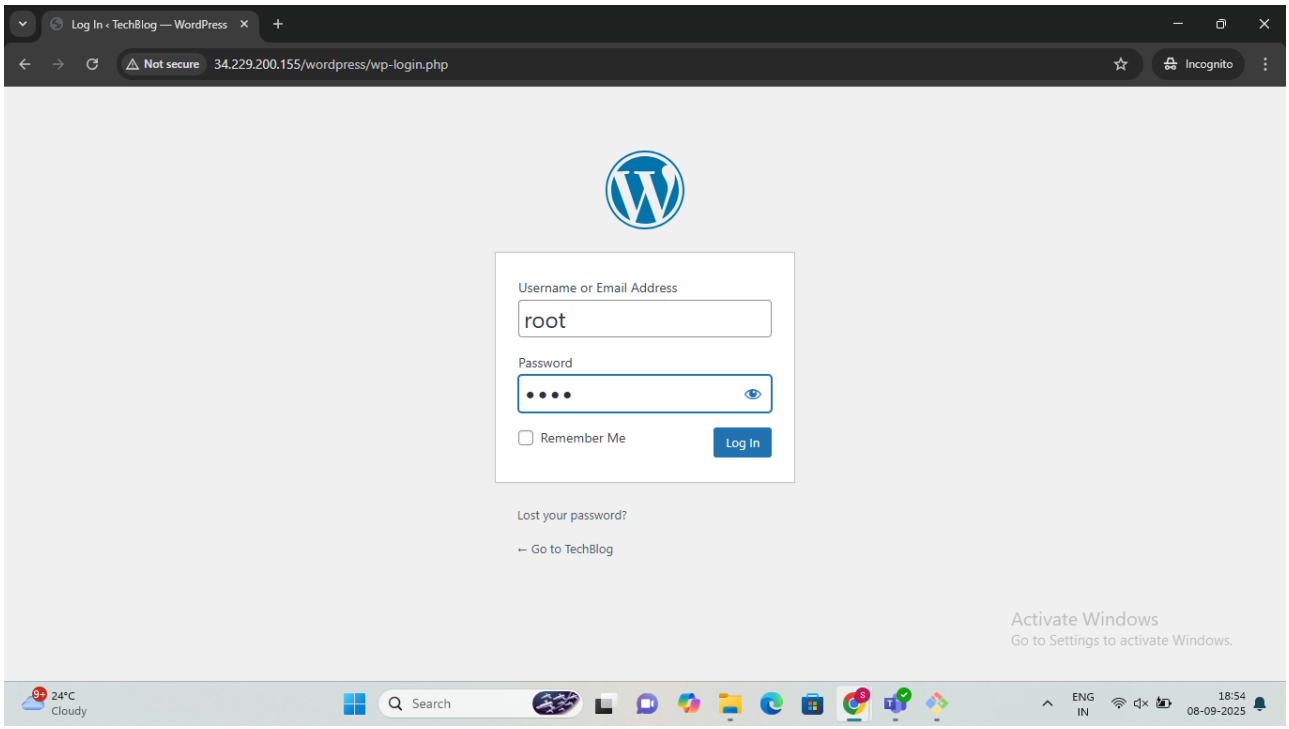


4. Fill the information and click on install wordpress

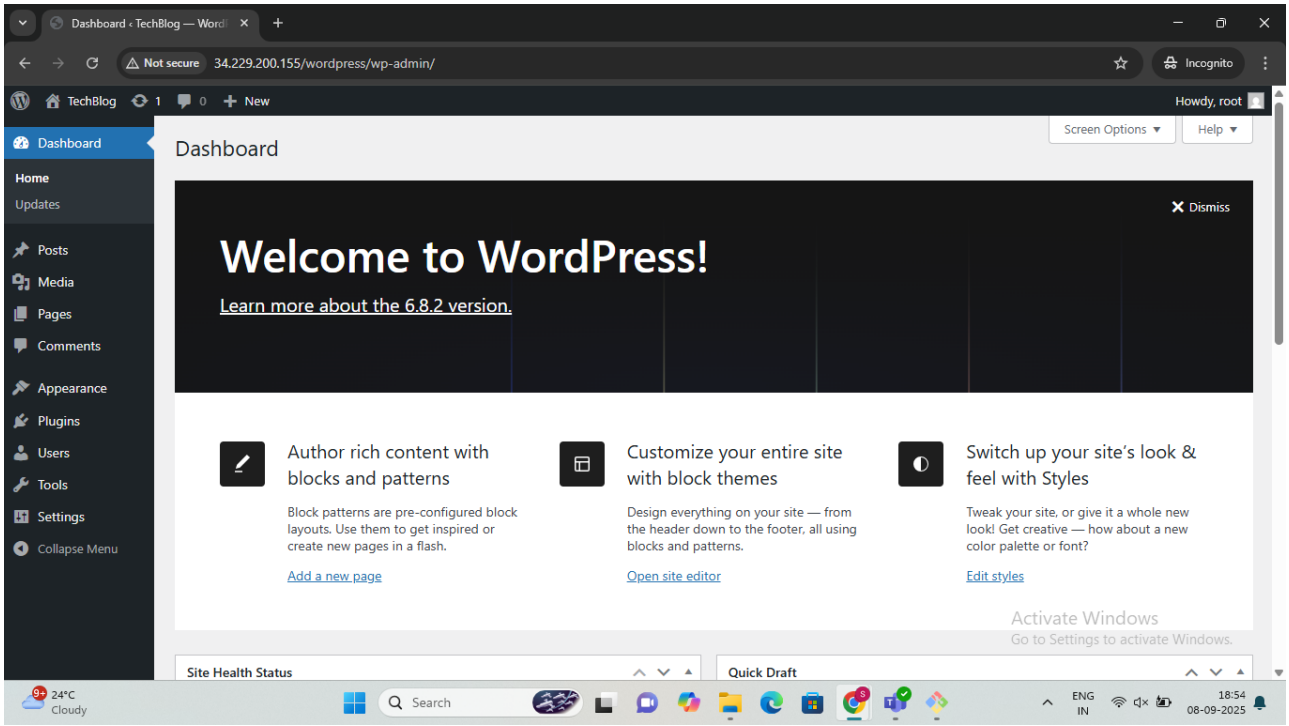


5. Login to wordpress





6. Deployed Wordpress Successfully



Summary

This project explains how to deploy a wordpress website on an Amazon Linux EC2 instance using the LAMP stack.It walks through installing Apache, PHP, and MariaDB, downloading and configuring wordpress, setting up the database , and adjusting file permissions. The result is a secure, production-ready wordpress site.