#### Cloud (AWS) Week 1 Task

# TASK 1: DEPLOY APPLICATION IN MONOLITHIC AND MICROSERVICES ARCHITECTURE.

For Monolithic: 1 EC2 instance, deploy WordPress and MySQL on the same instance. Create a welcome page in WordPress that will be the homepage.

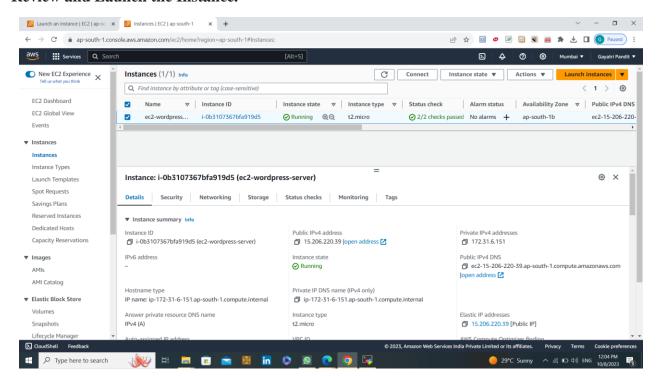
#### **STEP 1: Create an EC2 Instance on AWS**

Navigate to the Amazon EC2 Instance service in the AWS Management Console and click on Launch. Enter a unique name for your EC2 Instance (EC2 Instance name must be globally unique across all AWS accounts).

### STEP 2: Enabling and Configuring the EC2 Instance

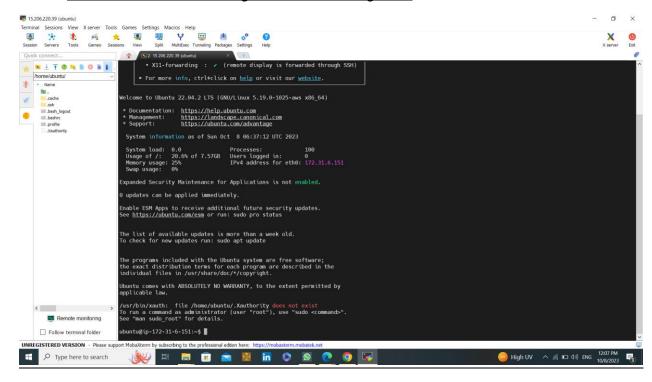
- Choose the "Ubuntu" AMI.
- Select the "t2.micro" instance type for both instances.
- In the security group settings, create a new security group or use an existing one.

#### Review and Launch the Instance.



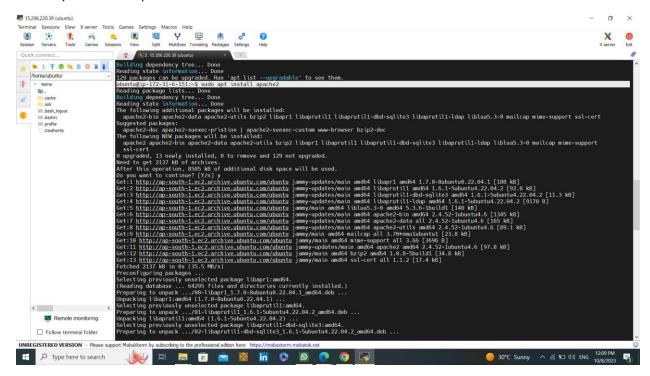
#### **STEP 3: Access the EC2 Instance:**

Once the instance is running, connect to it using SSH.



# STEP 4: Install Apache web server on my instance:

#sudo apt install apache2



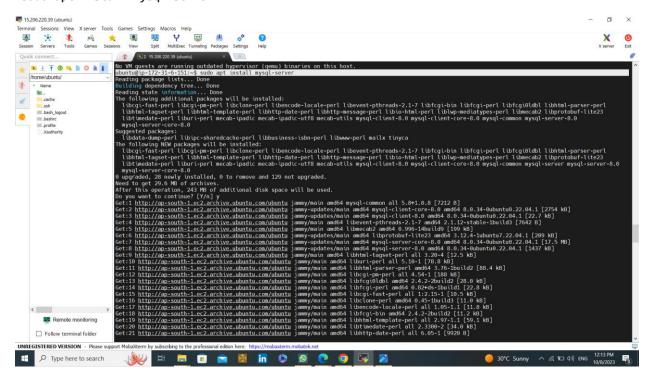
If you have to cross check your web server is running or not do http://YourIPV4 in a new tab and enter:



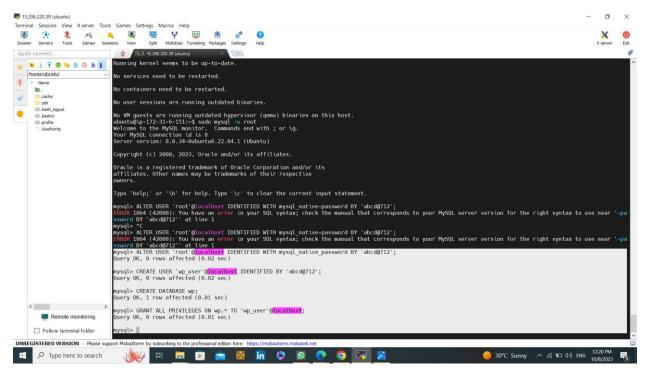
If you see a page like this its means your apache is running and install successfully.

# **STEP 5: Installing MySQL:**

#sudo apt install mysql-server



During installation, you'll be prompted to set a MySQL root password, Change the authentication plugin to following commands:

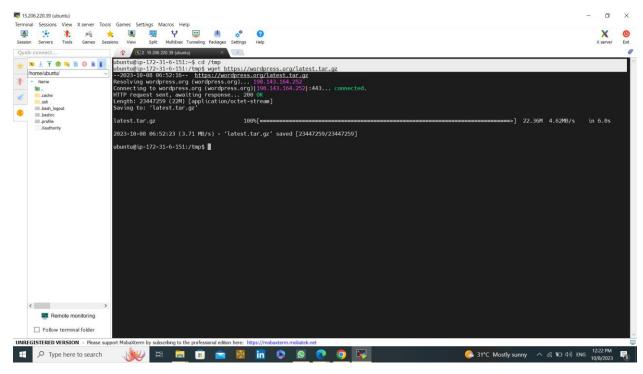


- ✓ Now configuration of MySQL server to login : #sudo mysql -u root
- ✓ #ALTER USER 'root'@localhost IDENTIFIED WITH

  mysql\_native\_password BY 'YourPassword; (Use a strong Password that harder to guess)
- √ #After that create a new user : CREATE USER 'wp\_user'@localhost
  IDENTIFIED BY 'YourPassword';
- ✓ Create a database : #CREATE DATABASE wp;
- ✓ Assign all the privileges, use : #GRANT ALL PRIVILEGES ON wp.\* TO 'wp\_user'@localhost;

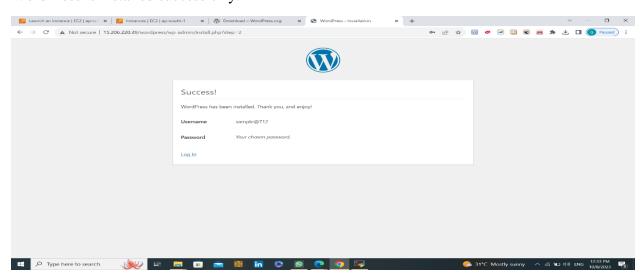
### **STEP 6: Installing WordPress:**

- ✓ Copy the download link from:
  [wordpress.org](https://wordpress.org/download/)
- ✓ Come to the tmp directory: #cd /tmp
- ✓ Download the WordPress file, use #wget(https://wordpress.org/latest.tar.gz)



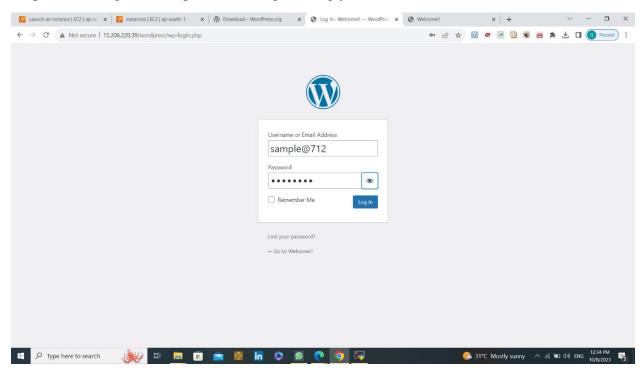
✓ unzip the folder use command: #tar -xvf latest.tar.gz

#### WordPress is installed successfully:

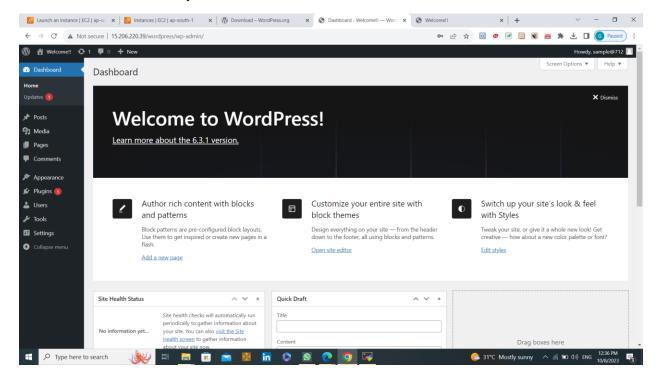


#### **STEP 6: Log into WordPress Admin:**

Access your WordPress dashboard by going to your website's URL followed by "/wp-admin" (e.g., IPV4/wp- admin). Log in using your credentials.



# WordPress is installed on your EC2 instance:



#### **STEP 7: Create a New Page:**

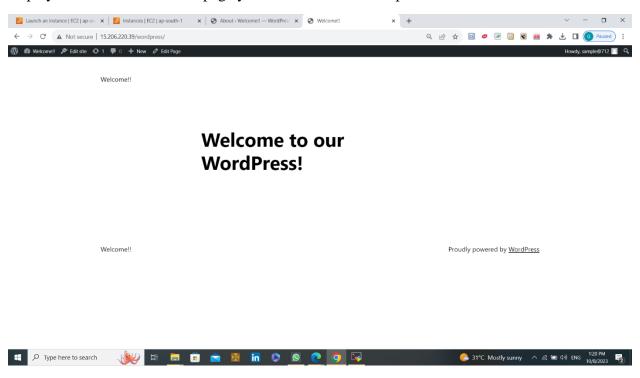
- In the WordPress dashboard, go to "Pages" and click on "Add New" to create a new page.-
- Add a Title: Enter a title for your welcome page. For example, you can use "Welcome to Our Website."

#### **STEP 8: Publish the Page:**

 Click the "Publish" button on the right side of the page editor to make your welcome page live.

#### **STEP 9: Set as Homepage:**

To do this, go to "Settings" > Reading" and choose "A static page" under "Front page displays." Select the welcome page you created from the drop-down menu.

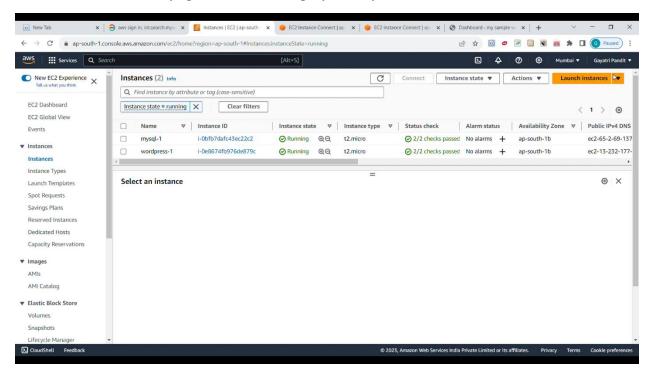


That's it! I am deploying a simple welcome page in WordPress on AWS EC2 instance successfully. You can further enhance and customize it by exploring various plugins and themes to meet your website's specific needs.

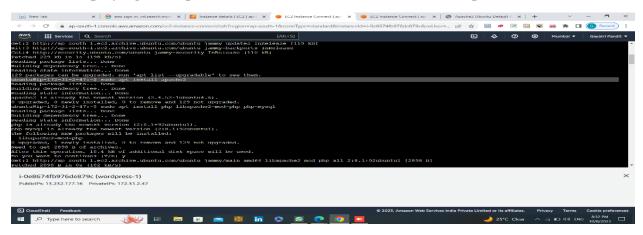
# > MICROSERVICE:- 2 EC2 INSTANCES, ONE FOR WORDPRESS AND ONE FOR MYSQL

#### STEP 1: Create an 2 EC2 Instance on AWS

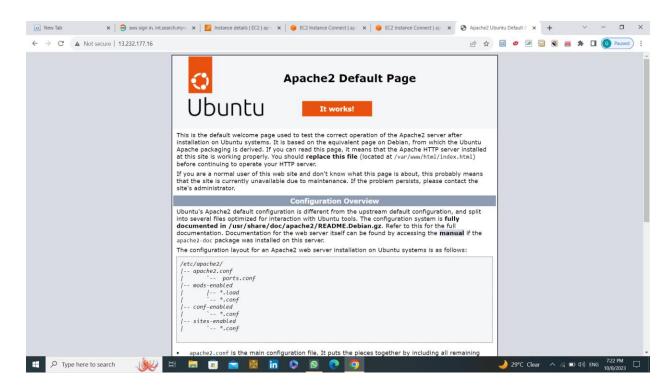
- 1 instance For WordPress and 1 instance for MySQL.
- Choose the "Ubuntu" AMI.
- Select the "t2.micro" instance type for both instances.
- 1. I have created wordpress-1 to deploy the WordPress application.
- 2. I have created mysql-1 instance to deploy the MySQL server.



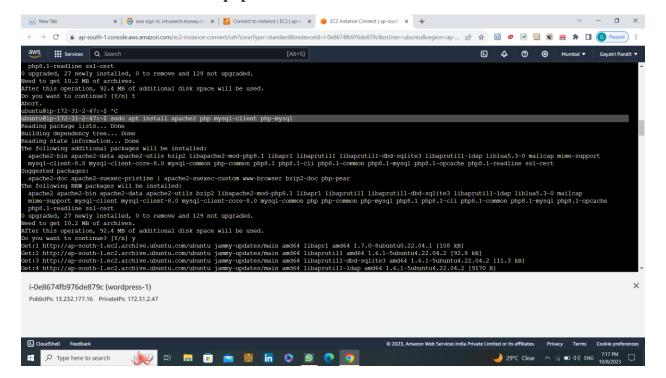
STEP 2: Deploying Wordpress in the created EC2 instance i.e wordpress-1



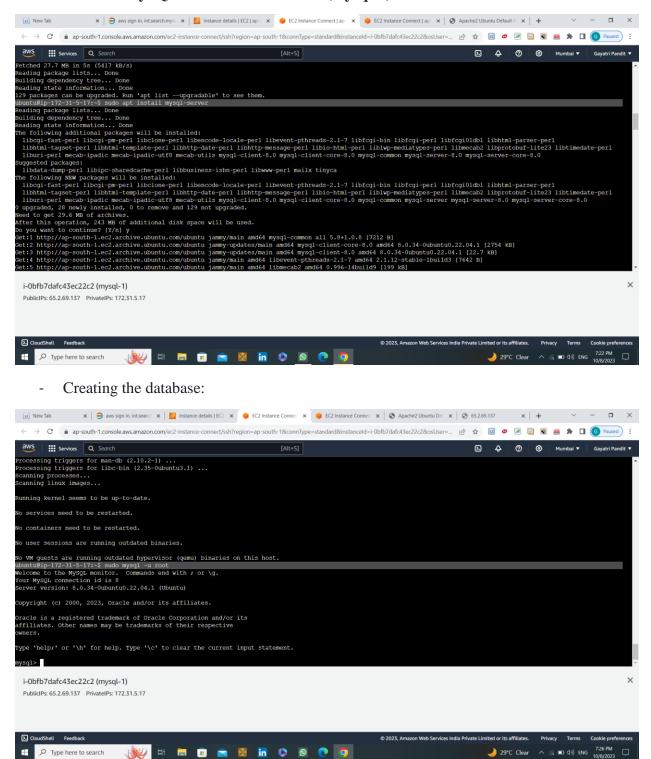
- By browsing the Public IP we can load the web page of the apache2:



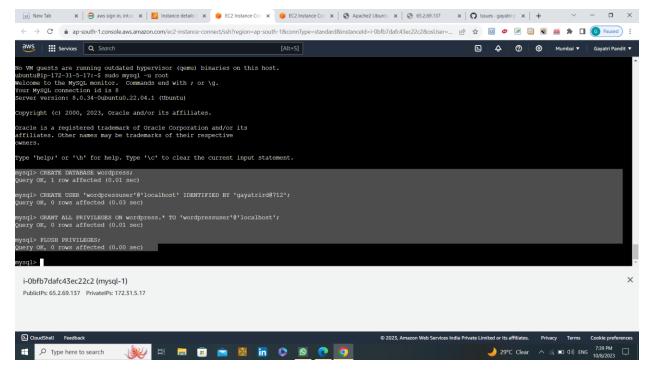
- Now we have to **install php**:



#### STEP 3: Install MySQL in EC2- Instance: i.e (mysql-1)

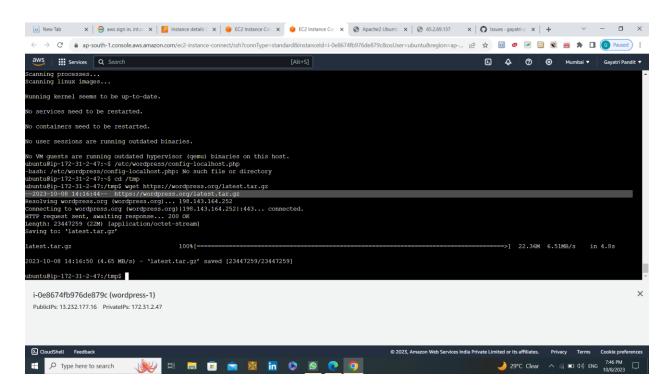


#### Use commands:

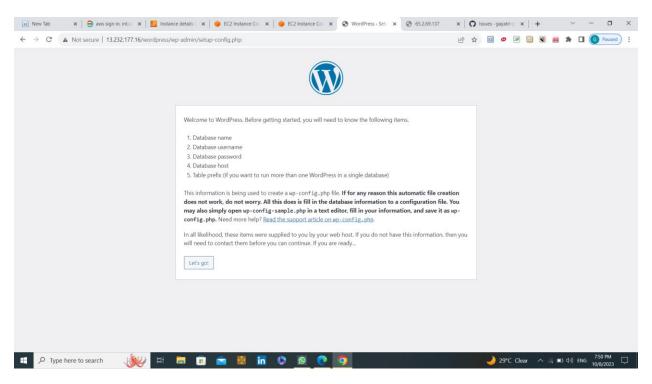


# STEP 4: Open the terminal of wordpress-1

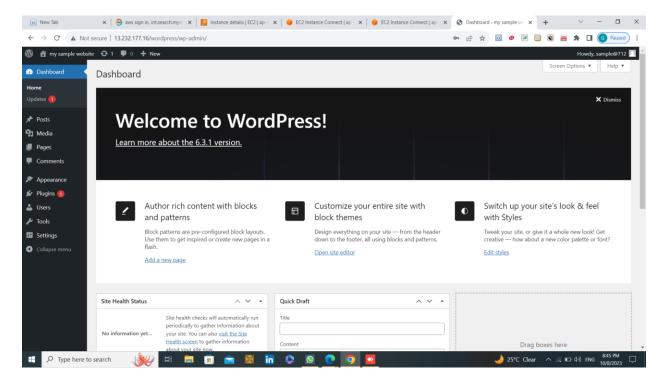
- Install WordPress:



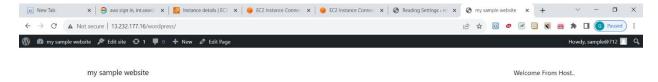
- Change the permissions of the file:
- Now copy the public IP and browse it. To load the wordPress web page.



- Click on submit and run it.
- Now WordPress is successfully installed.



- Successfully creating a welcome page in WordPress that will be the homepage.



# Welcome From Host..

my sample website Proudly powered by <u>WordPress</u>

Type here to search

#### THANK YOU!