# Deploying a monolithic WordPress setup on a single EC2 instance involves installing both WordPress and MySQL on the same instance.

1. Launch an EC2 Instance

- Log in to your AWS Management Console.
- Navigate to the EC2 Dashboard and click "Launch Instance."
- Choose an Amazon Machine Image (AMI) with Ubuntu (e.g., Ubuntu Server 20.04 LTS).
- Select an instance type (e.g., t2.micro for the free tier).
- Configure instance details, add storage, and configure security groups to allow HTTP (port 80) and SSH (port 22) access.
- Launch the instance and connect to it via SSH.
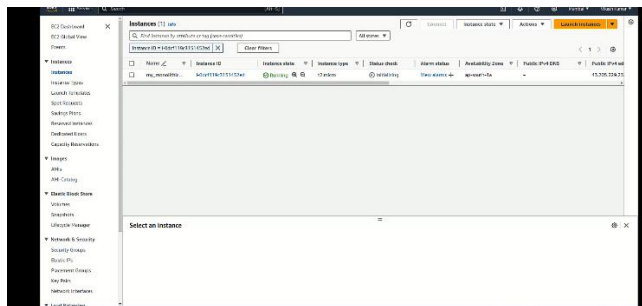
2. Connect to Your EC2 Instance:

Use SSH to connect to your EC2 instance. Replace `your_key.pem` with your key file and `ec2-user@your_ec2_ip` with your EC2 instance's public IP.
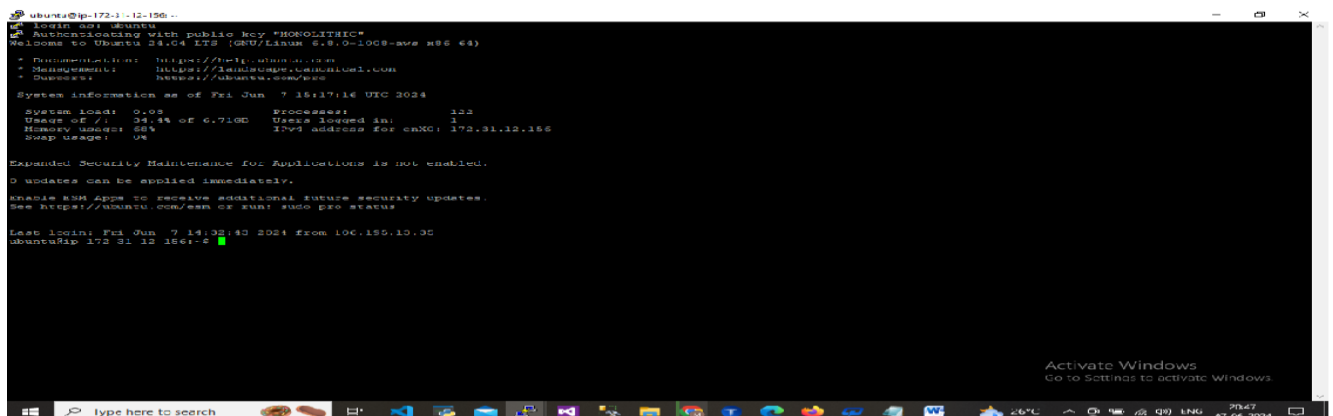
ssh -i your_key.pem ubuntu@your_ec2_ip

3. MySQL, and PHP :

Once connected to your EC2 instance, update the package lists and install the necessary software:

- 1)ubuntu
- 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)ALTER USER 'root'@localhost IDENTIFIED WITH mysql_native_password BY 'viikas@000';
- 7)CREATE USER 'wp_user'@localhost IDENTIFIED BY 'vikas@000';
- 8)CREATE DATABASE wp;
- 9)GRANT ALL PRIVILEGES ON wp.* TO 'wp_user'@localhost;

4. Install and Configure WordPress:

WORDPRESS INSTALLATION

- cd /tmp
- wget https://wordpress.org/wordpress-6.5.4.tar.gz
- tar -xvf wordpress-6.5.4.tar.gz
- sudo mv wordpress/ /var/www/html/
- cd /var/www/html/
- ls
- go to chrome and paste public ip address and add/wordpress
- click on lets go then but database name : wp
    - o username :vikash_user
    - o password: vikas@1234
    - o database host:localhost
- come back to terminal and copy paste the code that they have give in the file or create new file by following command
- cd wordpress/
- nano wp-config.php
- paste that code and save it and run that installation
- come back to browser and fill the necessary fields and you will find login page
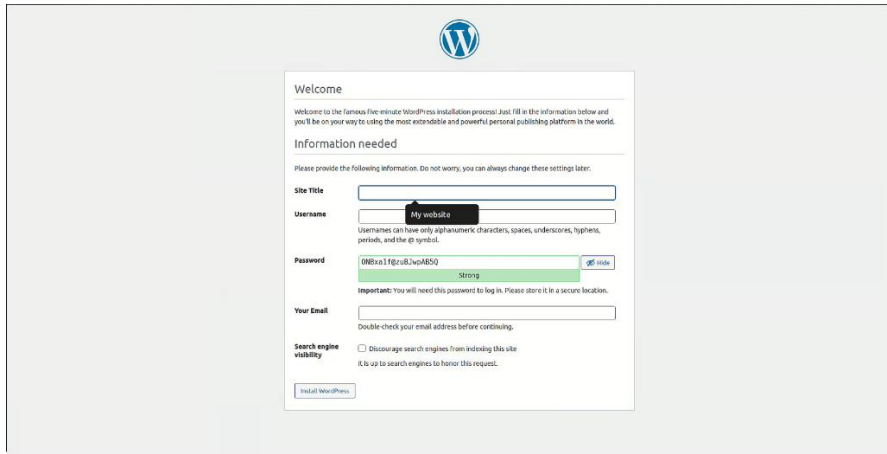
-
- login and you can see wordpress
- create the welcome page on that by clicking on new page
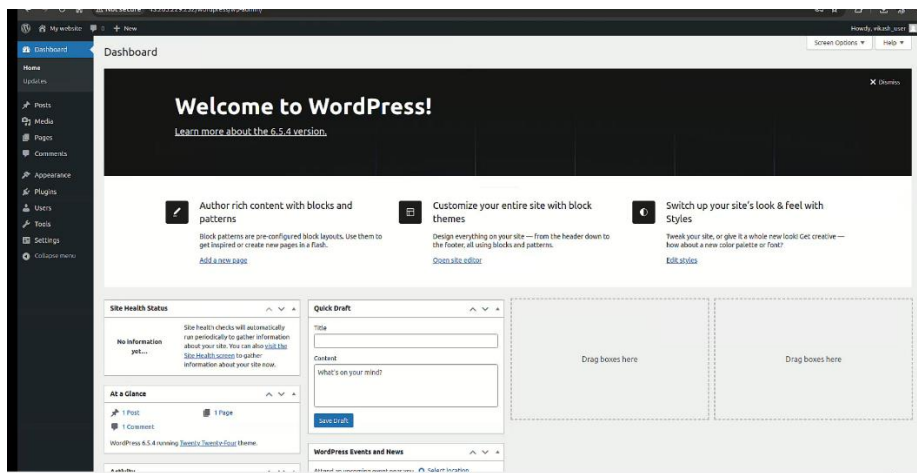
6. Create a Welcome Page in WordPress:

1. Log in to the WordPress Dashboard:

- Navigate to `http://your_ec2_instance_ip/wp-admin` and log in with the credentials you set up during the installation.
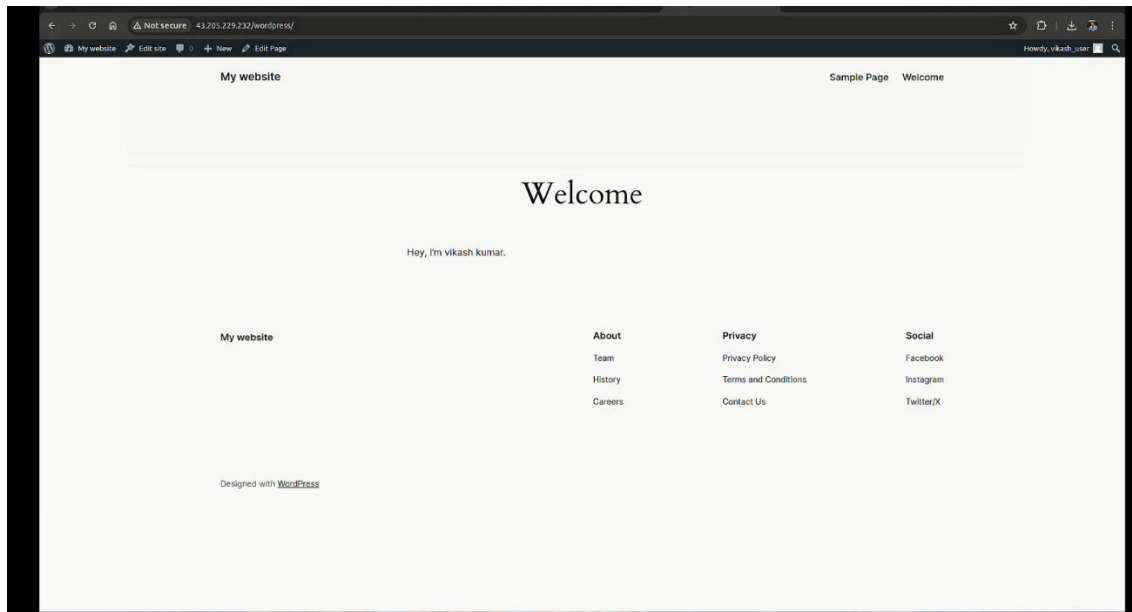
2. Create a New Page:

- Go to "Pages" > "Add New."

- Title your page "Welcome" and add your desired content.

- Click "Publish" to publish the page.

3. Set the Welcome Page as the Front Page:

- Go to "Settings" > "Reading."

- Under "Your homepage displays," select "A static page."

- Choose your newly created "Welcome" page from the dropdown menu.

- Save your changes.

Deploying a microservices WordPress setup on a two EC2 instance involves installing both WordPress and MySQL on two different instance.

- It same procedure as above just have to create two different ec2 instance 1 for my sql and 2nd for wordpress
- In wordpress ec2 instance install wordpress as per above commands
- In mysql ec2 instance install mysql as above installation
- The only difference is you have to connect these two instance
- You have to paste private ip of mysql in wordpress localhost db name