Report On

Deploy applications in monolithic and microservices architecture

Deployment of Monolithic Architecture

Prerequisites: Created free-tier Aws account

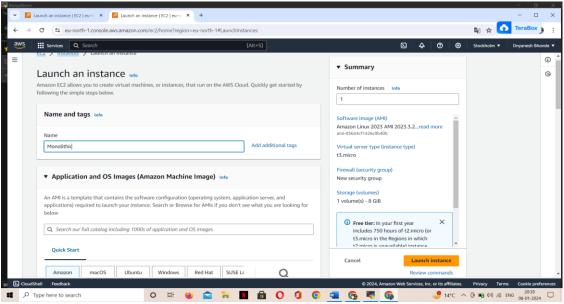
EC2 instance type: t3-micro, AMI: ubuntu-*

Step 1: Create an EC2 instance

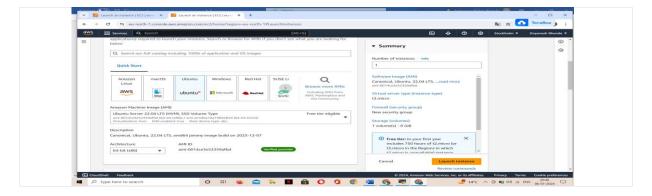
➤ Launch EC2 Instances:

Go to the Aws Management Console.

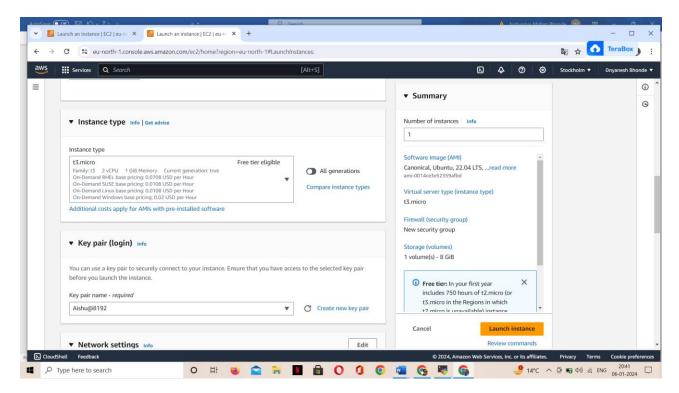
Launch one instance



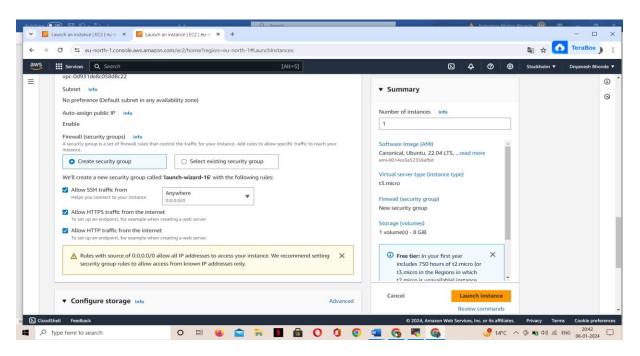
Select Ami: ubuntu



Select instance type:



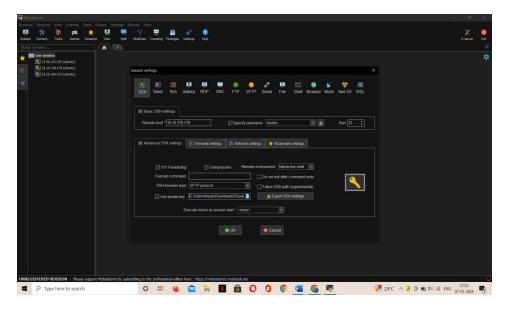
Configure Security Group:



Then Launch instances.

Step2: Connect to your EC2 instance

Connect to your EC2 instance using SSH.



Step3: Install and Configure MySql:

Update the system: sudo apt update

Install Mysql: sudo apt install mysql-server

Secure MySQL installation: sudo mysql_secure_installation

Create a MySQL database and user for WordPress.

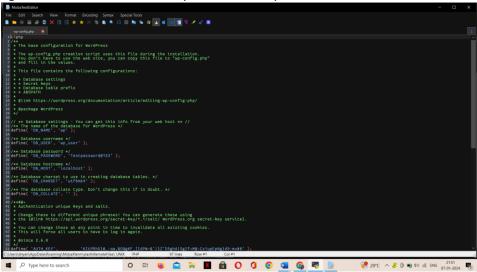
Step4:Install and configure wordpress:

Install Apache web server: sudo apt install apache2

Install PHP and required modules: sudo apt install php libapache2-mod-php php-mysql

Download and extract WordPress: wget https://wordpress.org/latest.tar.gz && tar -zxvf latest.tar.gz -C /var/www/html/

Configure WordPress to use the MySQL database you created.



Step5: Configure Apache for WordPress:

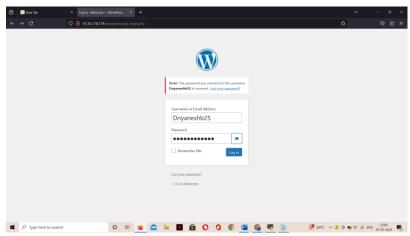
Enable Apache rewrite module: sudo a2enmod rewrite Configure Apache to allow .htaccess overrides: Edit the Apache config file: sudo nano /etc/apache2/sites-available/000-default.conf

Add the following inside the <VirtualHost> block:

Restart Apache: sudo service apache2 restart.

Step6: Create a Welcome Page:

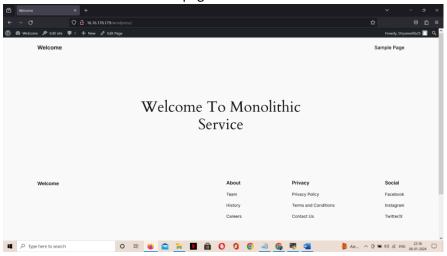
➤ Log in to the WordPress admin panel and create a new page that will serve as your homepage.



> Set this page as the homepage in WordPress settings

Step7: Access WordPress:

> Open your web browser and navigate to the public IP of your EC2 instance. You should see your WordPress site with the welcome page.



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EC2 instance type: t3-micro, AMI: ubuntu-*

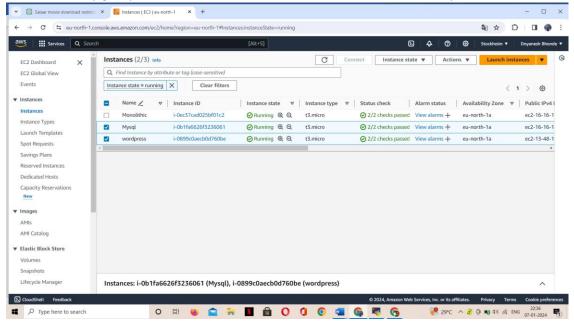
Step1: EC2 Instance Setup:

Launch two EC2 instances using the t3-micro instance type with the Ubuntu AMI.

One for Wordpress and other for Mysql

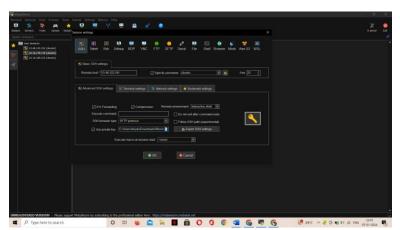
Step2: Security Groups:

> Create two security groups, one for the WordPress instance and one for the MySQL instance.



Step3: WordPress Instance:

Connect to the WordPress Instance using SSH:



Install Apache, PHP, and WordPress using the command: sudo apt update sudo apt install apache2 php php-mysql mysql-client sudo systemctl enable apache2 sudo systemctl start apache2 Download and configure WordPress wget https://wordpress.org/latest.tar.gz tar -zxvf latest.tar.gz sudo mv wordpress/* /var/www/html

Create a MySQL Database for WordPress:

CREATE DATABASE wordpress;

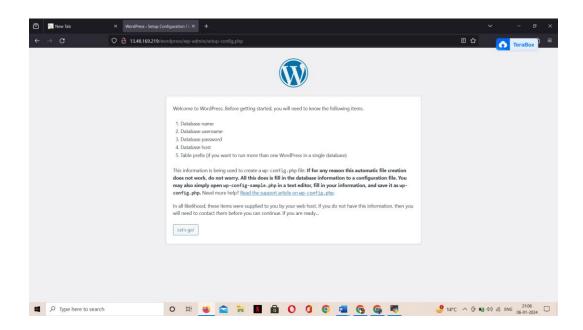
CREATE USER 'Dnyanesh'@'%' IDENTIFIED BY 'DnyaneshBhonde';

GRANT ALL PRIVILEGES ON wordpress.* TO 'Dnyanesh'@'%';

Configure WordPress:

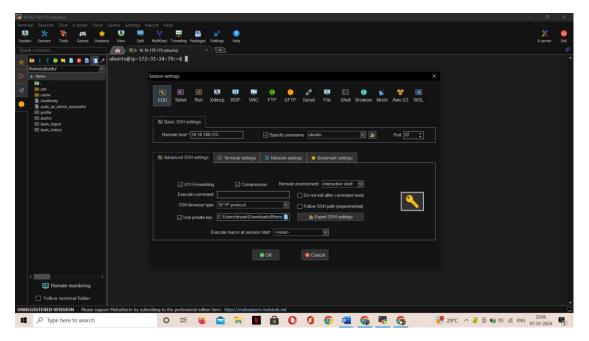
Open a web browser and navigate to the public IP of your WordPress.

Follow the WordPress installation process, providing the database information created in the Previous step.



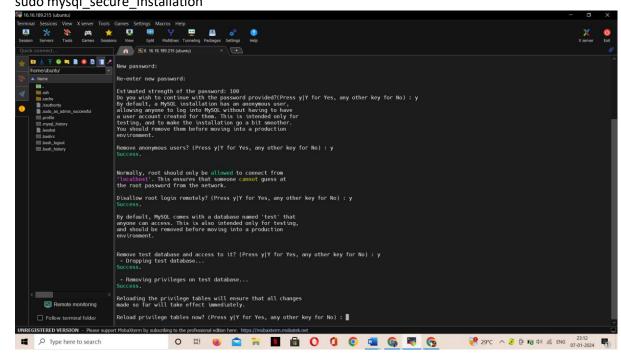
Step3: MySQL Instance:

Connect to the MySQL Instance:

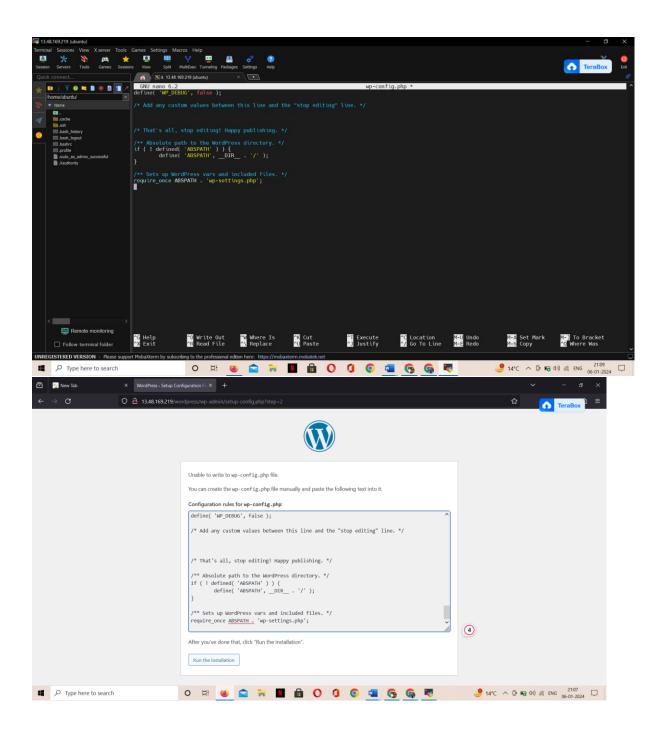


Install MySQL Server using command: sudo apt update sudo apt install mysql-server sudo systemctl enable mysql sudo systemctl start mysql

Configure MySQL Security using command: sudo mysql_secure_installation



Edit the wp-config.php file in wordpress then Run the installation



> Open your web browser and navigate to the public IP of your wordpress EC2 instance.

