Infotrix – Cloud AWS Internship

TASK 1

Name: Harini.P

PREREQUISITES:

To create a free-tier AWS account

TASK STATEMENT:

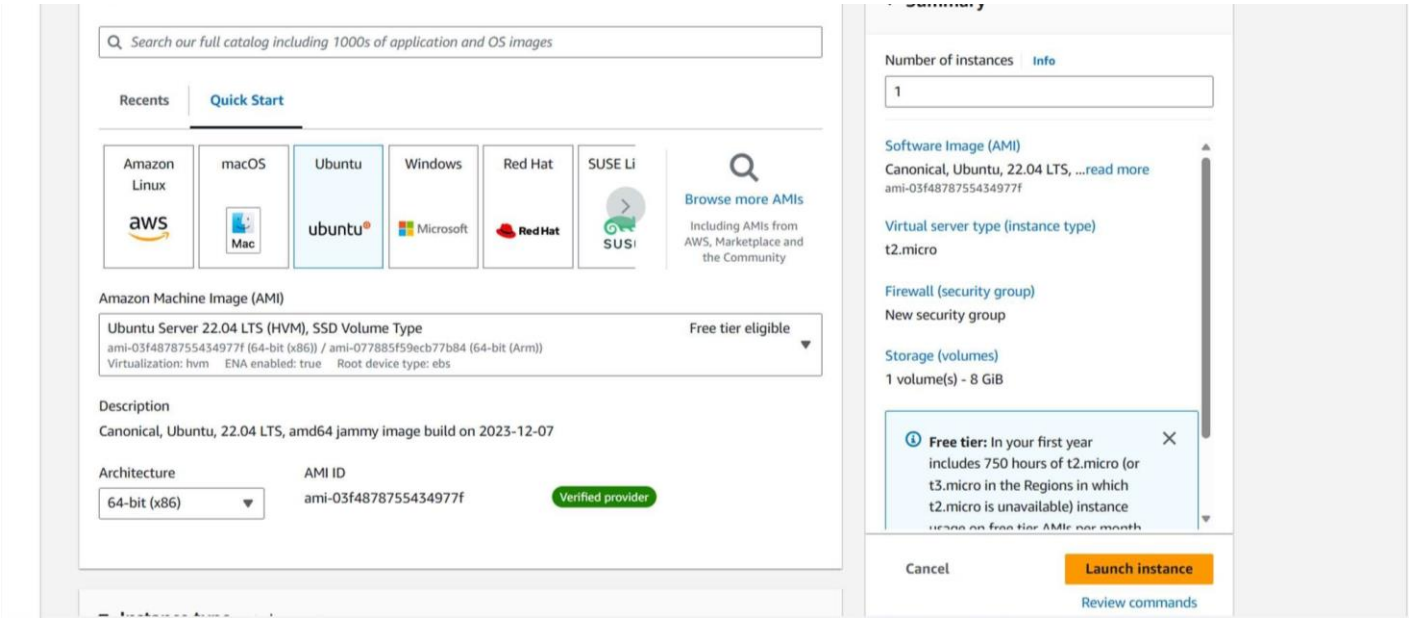
- Deploy application in monolithic and microservices architecture
- Description:
  - For monolithic: 1 EC2 instance, deploy wordpress and MYSQL on the same instances
  - For microservices: 2 EC2 instance, 1 for wordpress and 1 for MYSQL
  - Configure the necessary security group for the instances
  - EC2 instance type: t2-micro, AMI: ubuntu-*
- Create a welcome page in wordpress that will be the homepage

Monolithic Architecture:

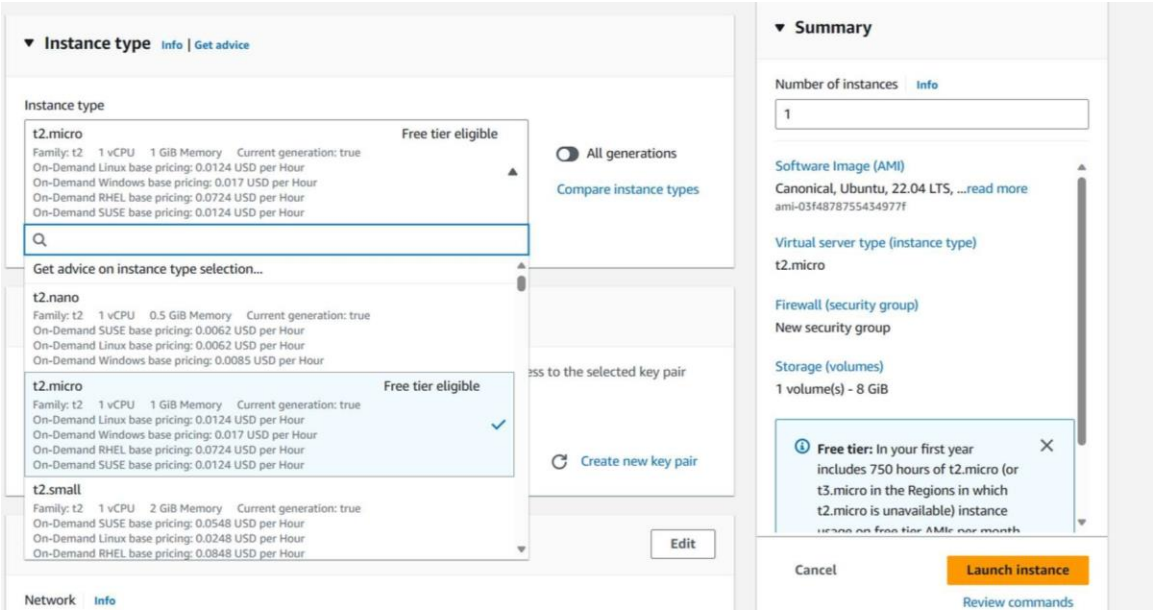
1. **Create 1 EC2 instance**

1.1 Assign instance name – Wordpress

1.2 Assign AMI – Ubuntu

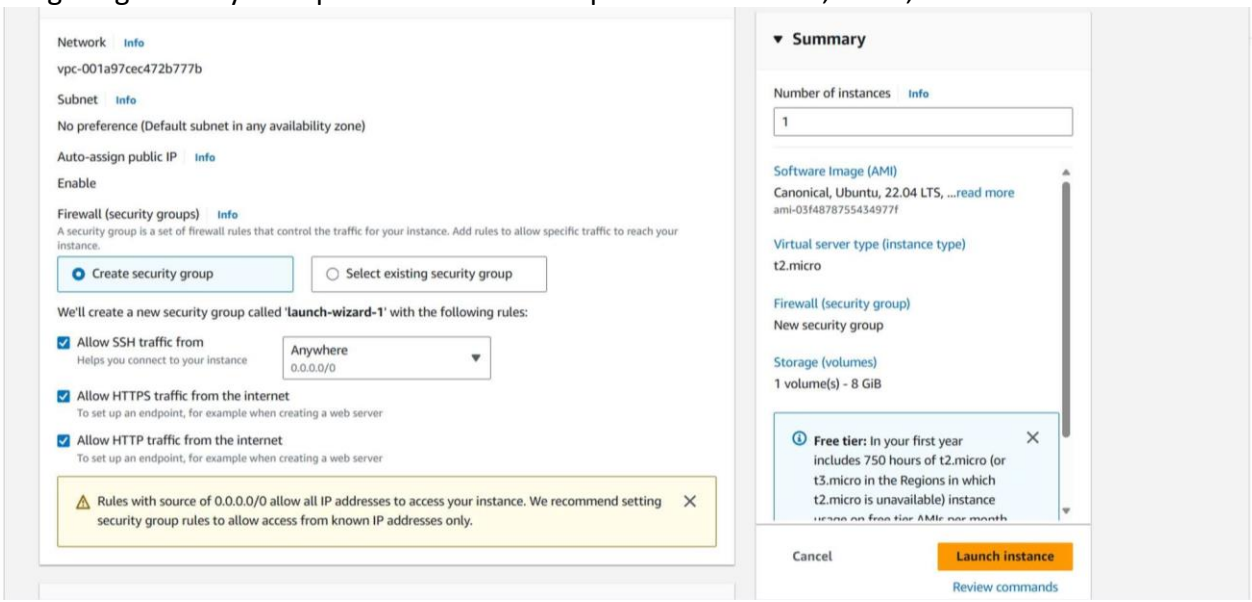


1.3 Assign EC2 instance type – t2.micro

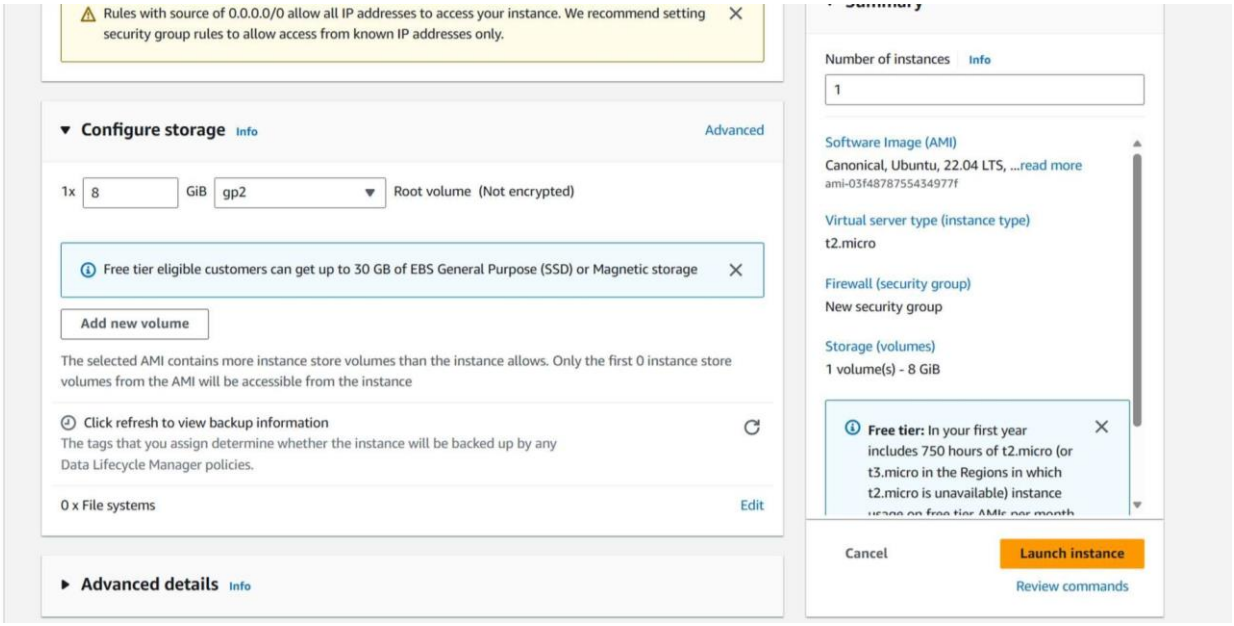


1.4 Configure Security Group

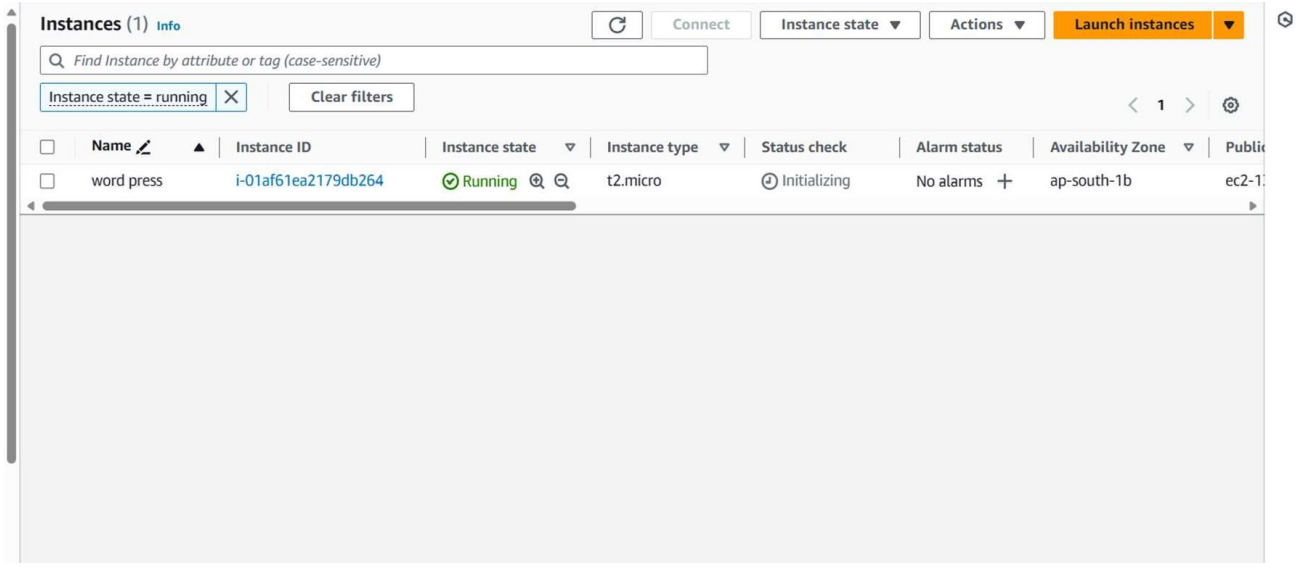
Configuring Security Group which allows basic protocols like SSH, HTTP, HTTPS.



1.5 Configure Network setting and Storage as default

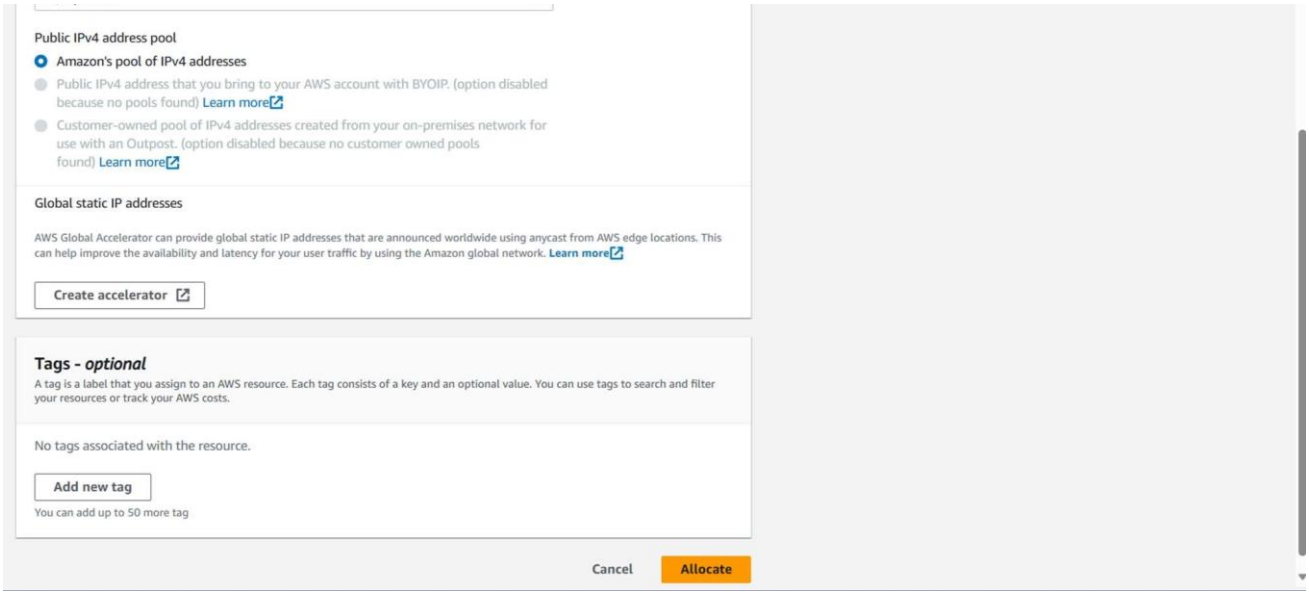


1.6 Launch Instance



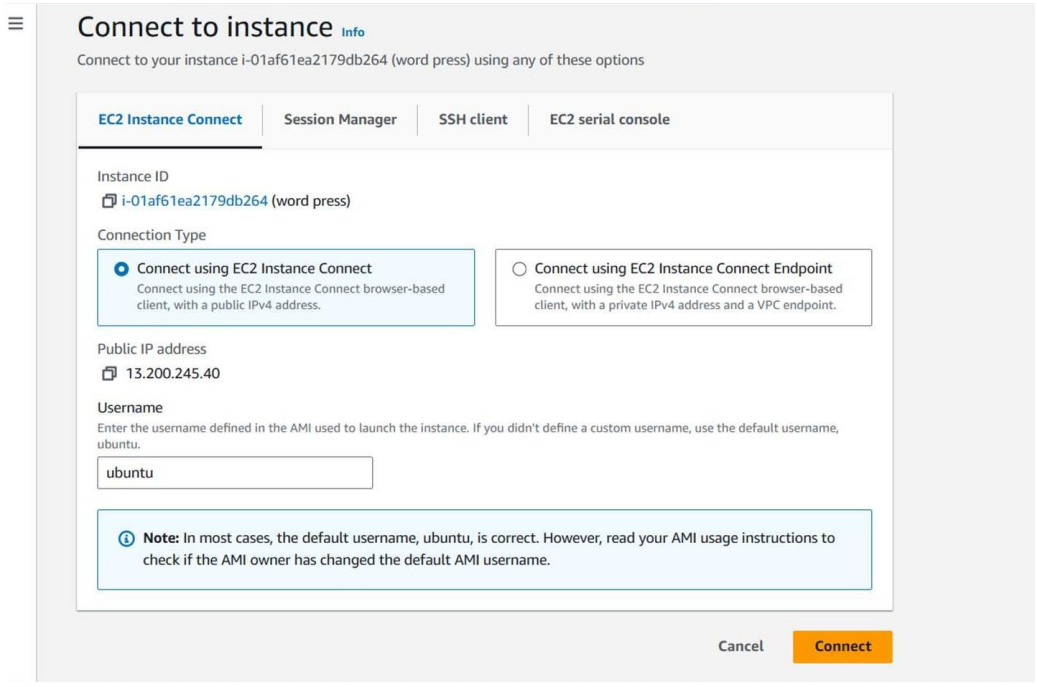
2. Create and assign Elastic IP to Wordpress instance

By using an Elastic IP address, you can mask the failure of an instance or software by rapidly remapping



the address to another instance in your account.

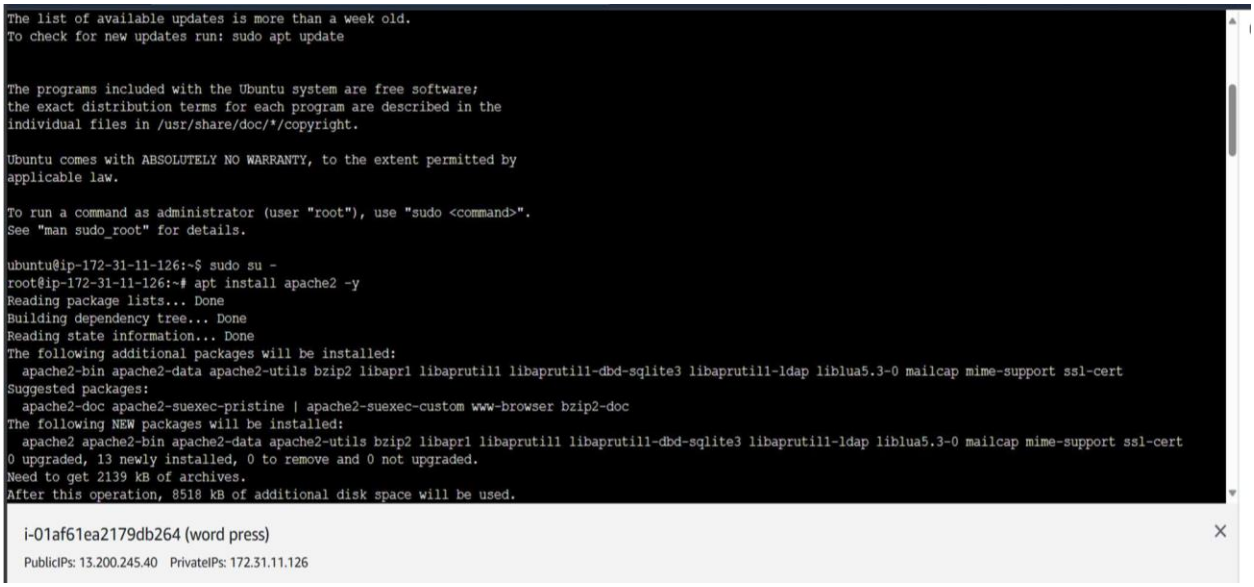
3. Connect to the instance:



4. **Install Apache:**

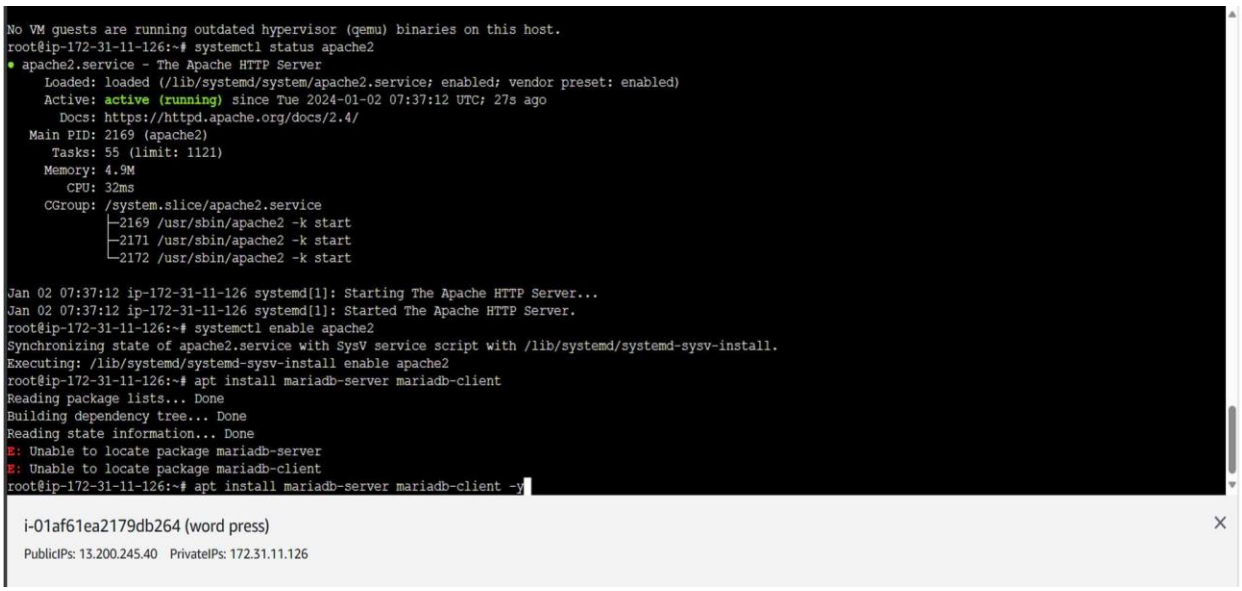
   Code: apt install apache2 -y

   Systemctl status apache2



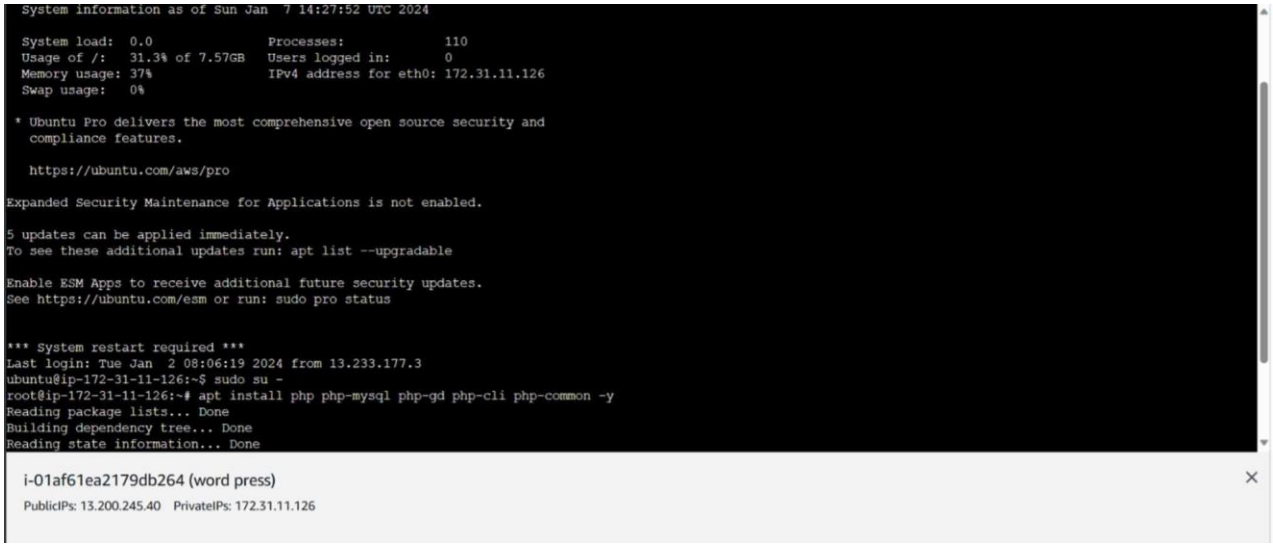
5. **Install MySQL**

Code: apt install mariadb-server mariadb-client -y



6. Install PHP extension:

Code: apt install php php-mysql php-gd php-cli php-common -y



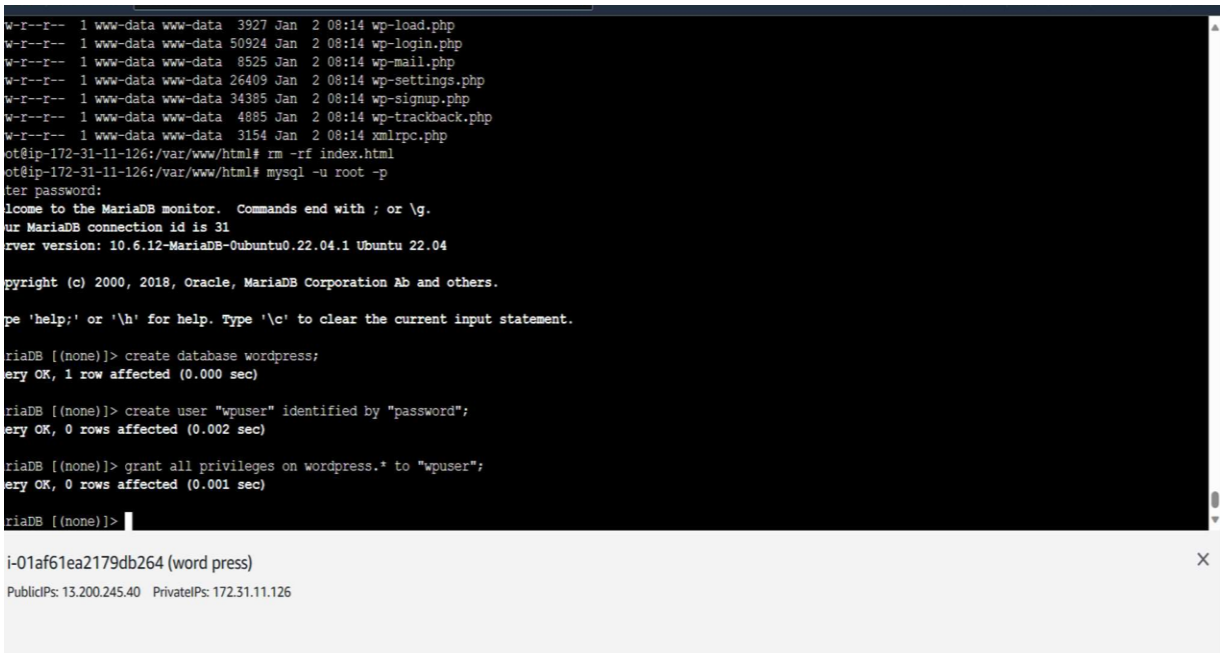
7. Download wordpress:

Code: wget https://wordpress.org/latest.zip

8. Move the wordpress files

Code: cp -r wordpress/* /var/www/html/

9. Create Database:

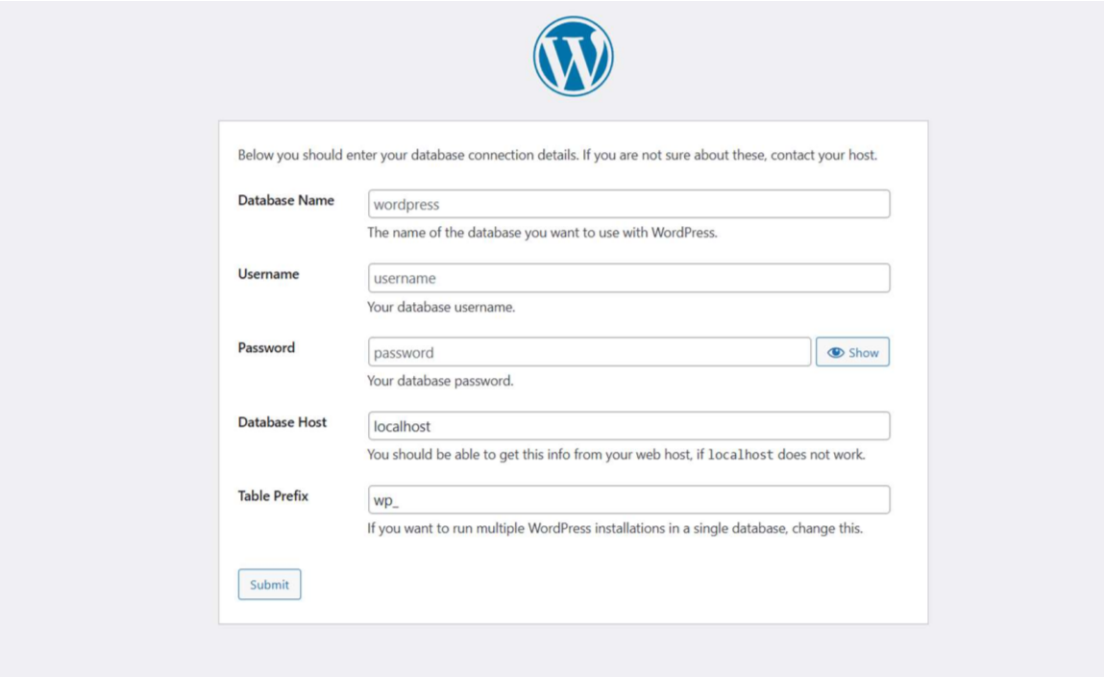


Code: Create database wordpress;

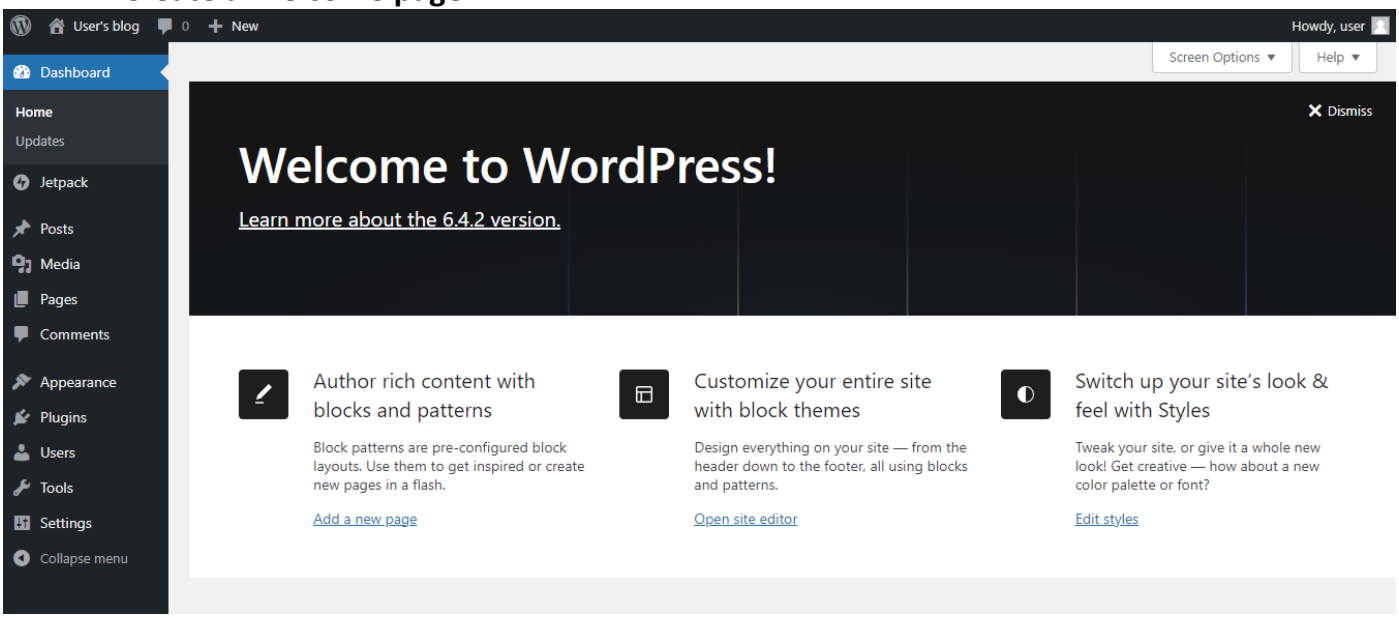
Create user “wpuser” identified by “password”;

Grant all privilages on wordpress.* to “wpuser”;

10. Deploy Wordpress:



11.Create a Welcome page:

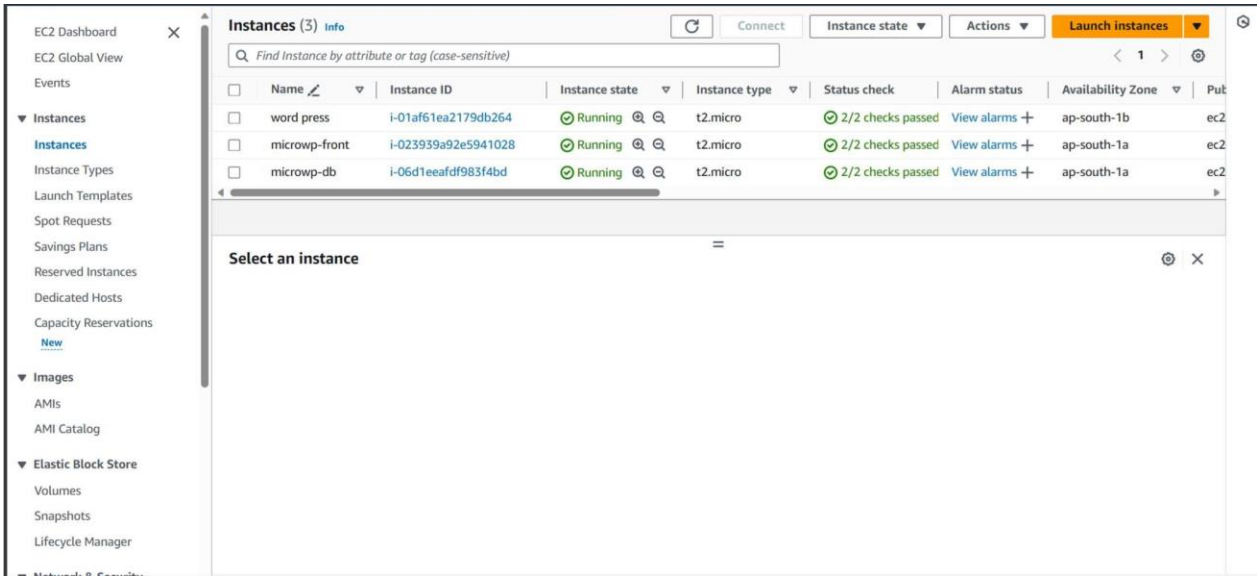


MICROSERVICES:

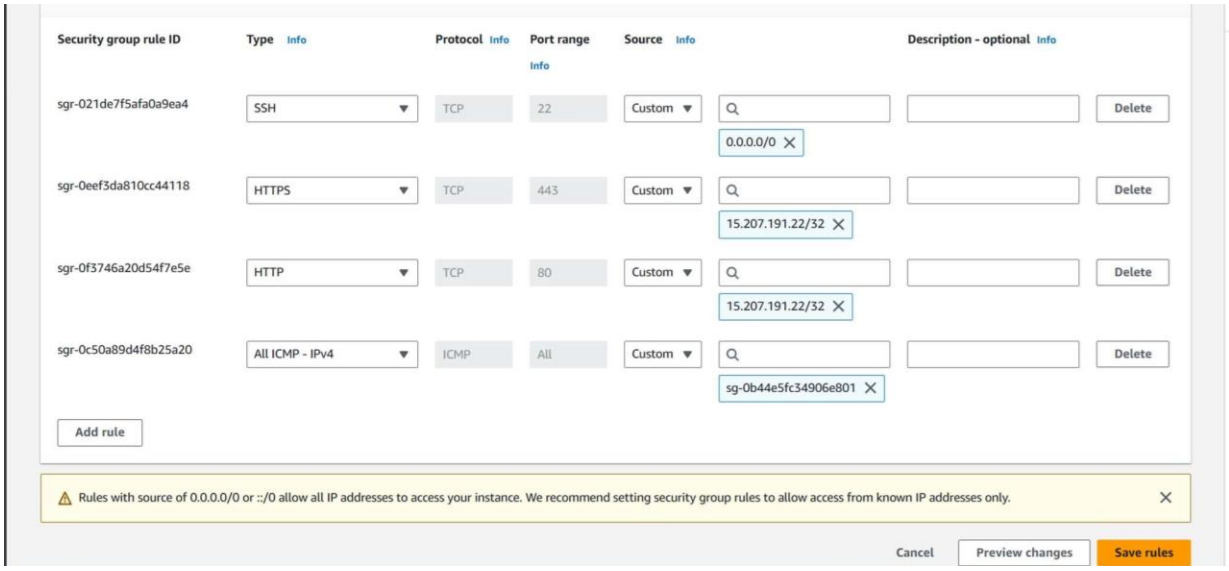
1. **Create 2 EC 2 instances**

   Instance 1: microwp-front

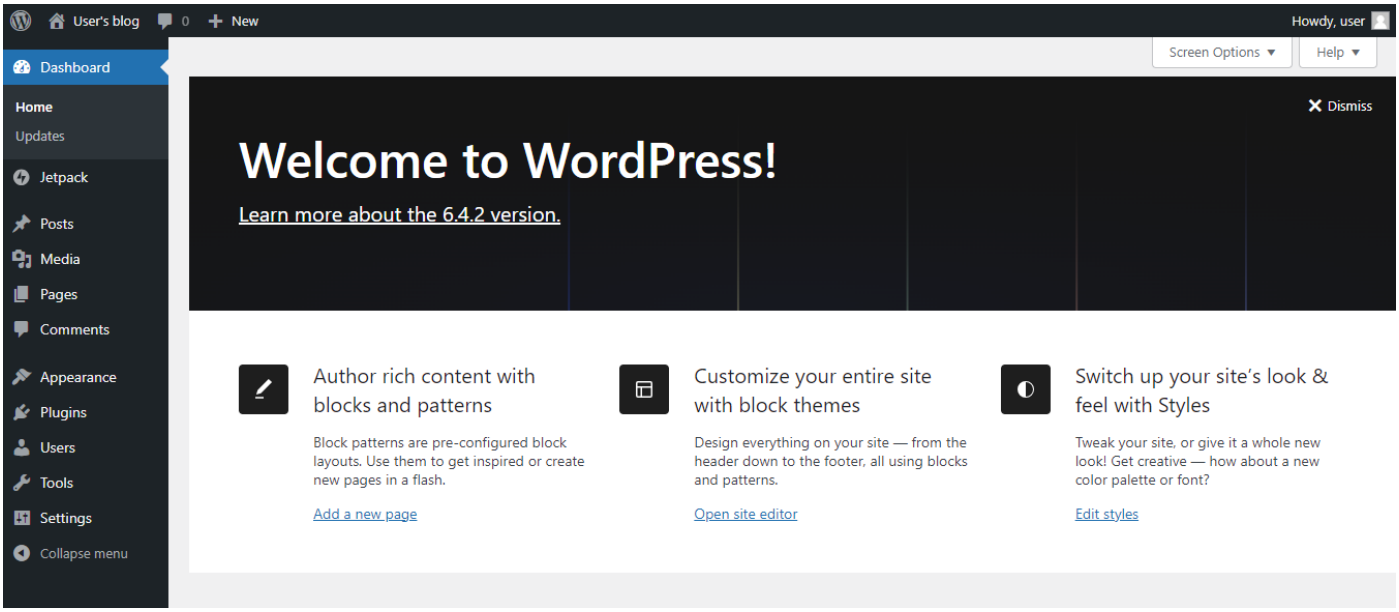
   Instance 2: microwp-db



2. **Configure security Group:**
   We configure the security group of both the instances allowing the respective security group by changing the inbound rules.



3. We deploy wordpress on microwp-front instance.
4. We deploy mysql on microwp-db instance.
5. The Wordpress welcome page is deployed in microservices architecture successfully



Website: 51.20.189.122