Cloud (AWS) Week 1 Task

Deploy Application in monolithic and Microservices Architecture

*Description:

Task 1: For Microservices: 2 EC2 instances, 1 for Wordpress and EC2 instances, 1 for MYSQL.

Task 2: For Monolithic: 1 EC2 instance ,deploy Wordpressand MYSQL on the same instance.

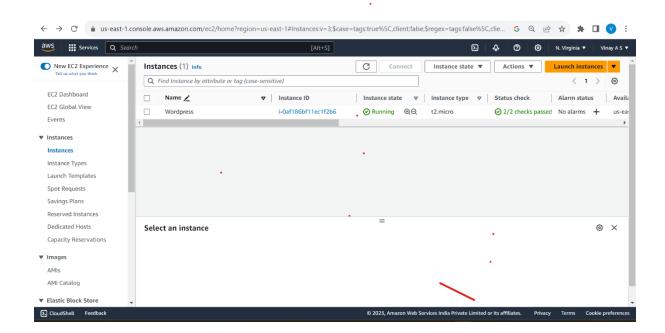
- -Configure the necessarysecurity group for the instances
- -EC2 instance type:t2 micro,AMI-Ubuntu-*

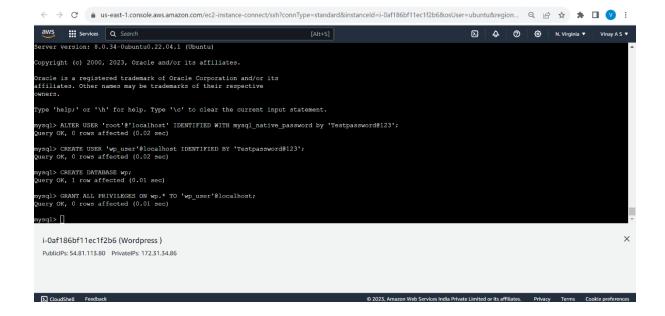
Task 1

For Microservices: 2 EC2 instances, 1 for Wordpress and 1 EC2 instances, 1 for MYSQL.

a) <u>1 EC2 instance for Wordpress</u>

Create a Wordpress instance launch





1 EC2 Instance for MYSQL

Create a MYSQL Server instance Launch

Command:

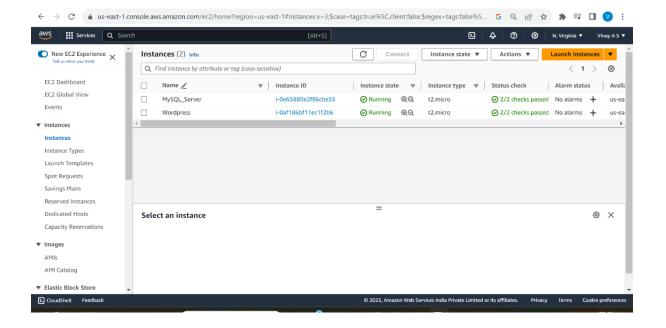
sudo apt update sudo apt install mysql-server sudo systemctl status mysql sudo mysq ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password B Y 'Vinay@123';

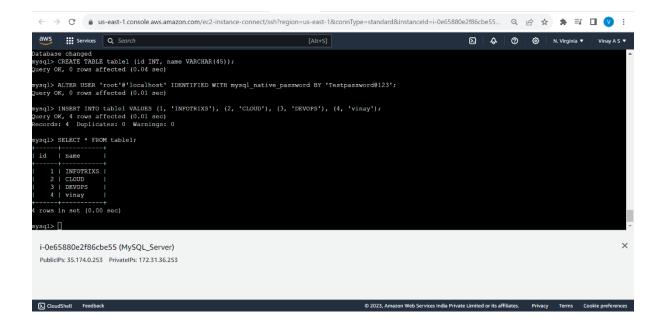
CREATE DATABASE mysql_test;

USE mysql_test;

CREATE TABLE table1 (id INT, name VARCHAR(45));

INSERT INTO table1 VALUES(1, 'INFOTRIX'), (2,'CLOUD'), (3,'DEVOPS'), (4,'VINAY'); SELECT *FROM table1;

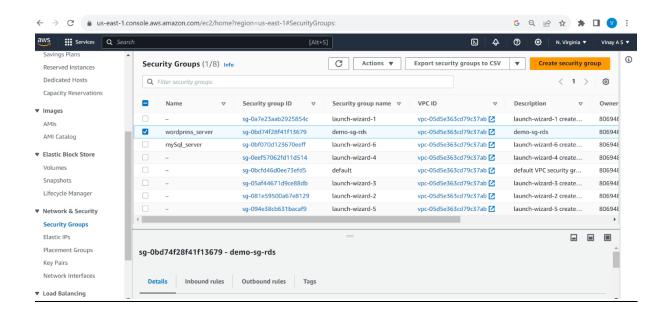


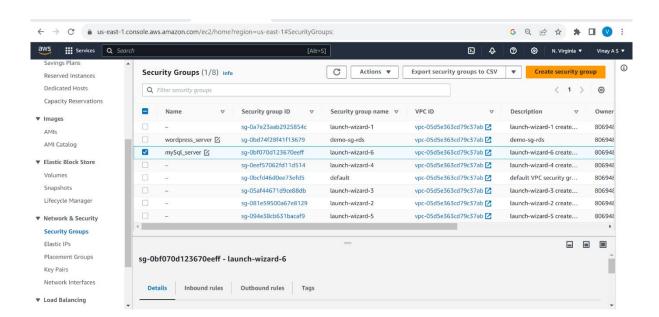


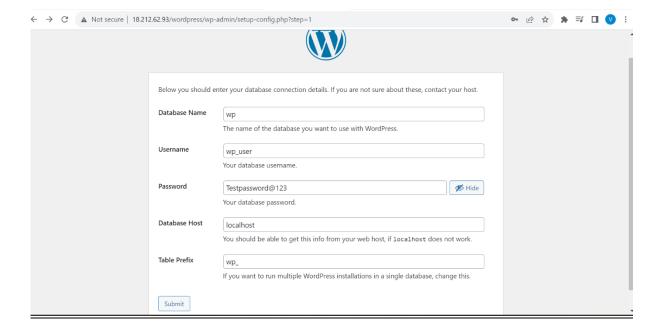
Task -2

1) For Monolithic : 1 EC2 instances, deploy wordpress and MYSQL, on the same instance.

Create 2 Security Groups RDS Security Group







Commands:

- Install Apache server on Ubuntu sudo apt install apache2
- 2. Install php runtime and php mysql connector sudo apt install php libapache2-mod-php php-mysql
- Install MySQL server sudo apt install mysql-server
- 4. Login to MySQL server sudo mysql -u root
- 5. Change authentication plugin to mysql_native_password (change the password to something strong)

ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password by 'Testpassword@123';

6. Create a new database user for wordpress (change the password to something strong)



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October 6, 2023

