Cloud (AWS) Week 1 Task

Deploy Application in monolithic and Microservices Architecture

*Description:

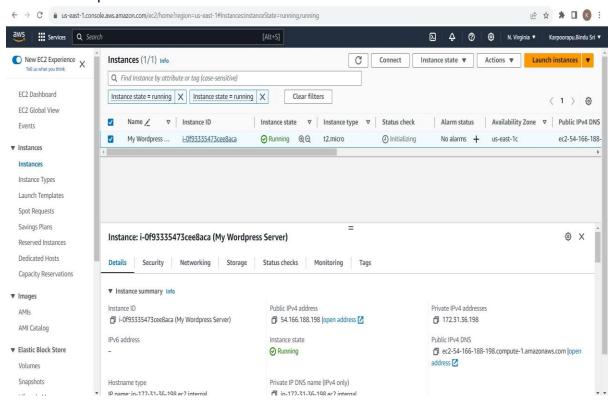
- Task 1: For Microservices: 2 EC2 instances, 1 for Wordpress and EC2 instances, 1 for MYSQL.
- Task 2: For Monolithic: 1 EC2 instance, deploy Wordpress and MYSQL on the same instance.
- -Configure the necessary security group for the instances
- -EC2 instance type:t2 micro, AMI-Ubuntu-*

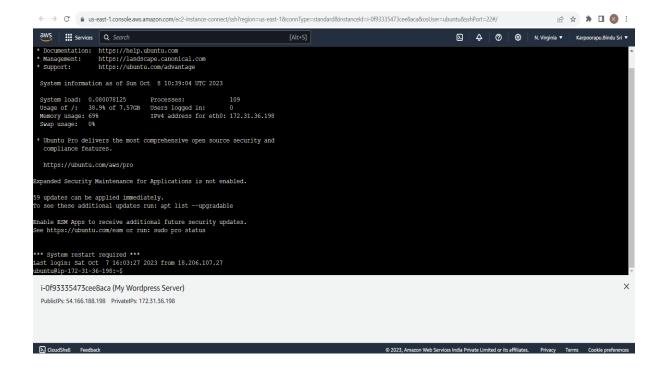
Task 1

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

a) 1 EC2 instance for wordpress

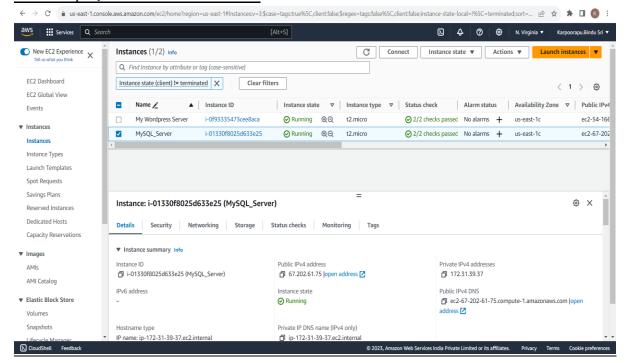
Create a wordpress instance launch





b) 1 EC2 instance for MYSQL

Create MySQL Server instance launch



Commands:

sudo apt update

sudo apt install mysql-server

sudo systemctl status mysql

sudo mysql

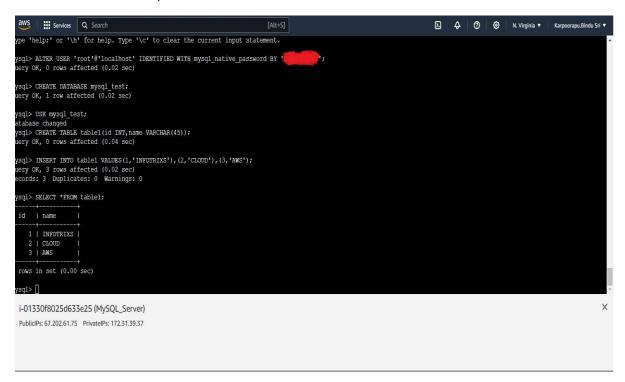
ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password B Y '

CREATE DATABASE mysql_test;

USE mysql_test;

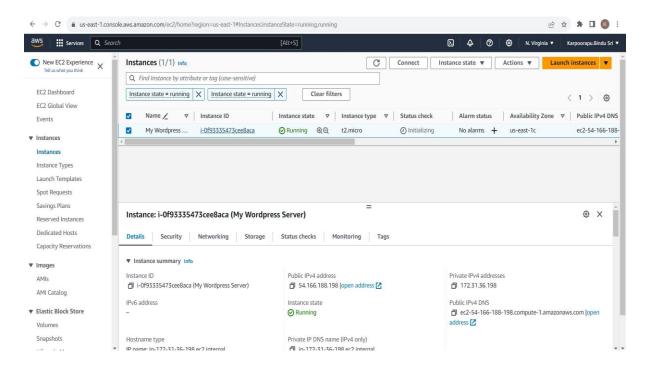
CREATE TABLE table1 (id INT, name VARCHAR(45)); INSERT INTO table1 VALUES(1, 'INFOTRIXS'), (2,'CLOUD'), (3,'AWS');

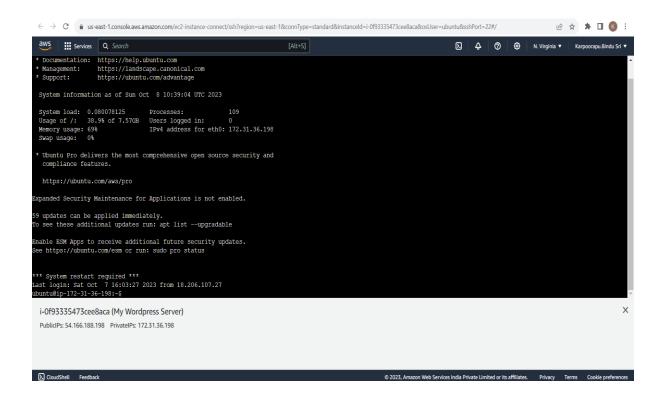
SELECT *FROM table1;



Task -2

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





Commands:

1. 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

3. 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

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

CREATE USER 'wp_user'@localhost IDENTIFIED BY

7. Create a database for wordpress

CREATE DATABASE wp;

8. Grant all privilges on the database 'wp' to the newly created user

GRANT ALL PRIVILEGES ON wp.* TO 'wp_user'@localhost;

| ← → C 🛦 Not secure 54.166.188.198/wordpress/wp-admin/setup-config.php?step=1 | | ⊶ 🖻 🖈 🗖 🔞 🗄 |
|--|---|-------------|
| | | |
| Below you : | should enter your database connection details. If you are not sure about these, contact your ho | st. |
| Database N | (ii) | |
| | The name of the database you want to use with WordPress. | |
| Username | wp_user Your database username. | |
| Password | ••••••• • Shu | OW |
| | Your database password. | |
| Database H | localhost You should be able to get this info from your web host, if localhost does not work. | |
| Table Prefi | | |
| | If you want to run multiple WordPress installations in a single database, change this. | |
| Submit | | |
| | | |

9. Download wordpress

cd /tmp

wget https://wordpress.org/latest.tar.gz

10. Unzip

tar -xvf latest.tar.gz

11. Move wordpress folder to apache document root

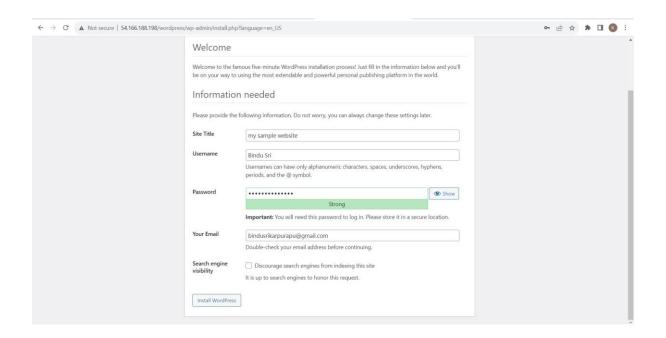
sudo mv wordpress/ /var/www/html

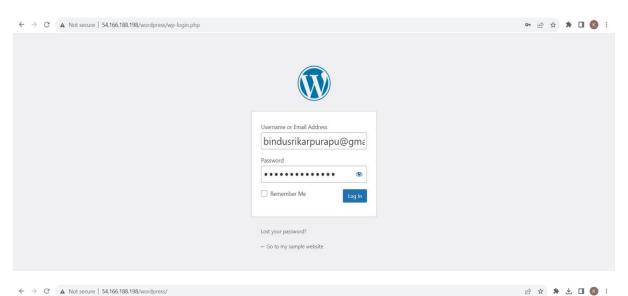
cd /var/www/html/

ls

cd wordpress

nano wp-config.php



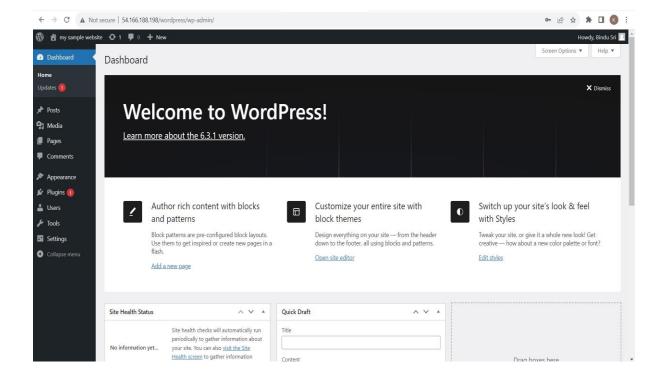




Hello world!

Welcome to WordPress. This is your first post. Edit or delete it, then start writing!

October 7, 2023



Adding Security groups to instances

