Task: Deploy application in monolithic and microservices architecture

Description:

For monolithic : 1 EC2 instance, deploy wordpress and MYSQL on the same instances

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For microservices: 2 EC2 instance, 1 for wordpress and 1 for MYSQL

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Configure the necessary security group for the instances

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EC2 instance type: t2-micro, AMI: ubuntu-*

For Monolithic :-

Launched one instance using AWS EC2 Service with Ubuntu-22.04 image and instance type t2.micro.

Deployment of WordPress and database will be in same instance.

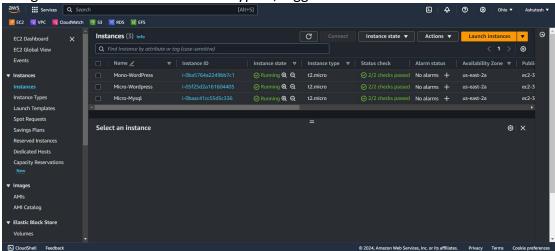
Using SSH Client MobaXterm and Keypair, logged-in in the machine.

For Microservice :-

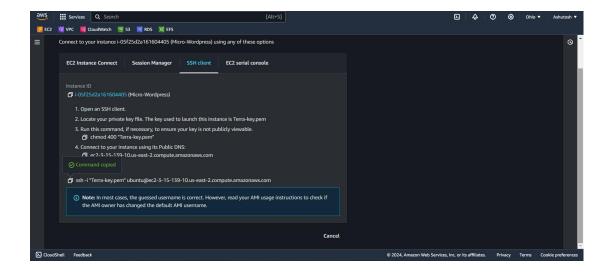
Launched two instances using AWS EC2 Service with Ubuntu-22.04 image and instance type t2.micro.

One for WordPress deployment and other for mysql database.

Using SSH Client MobaXterm and Keypair, logged-in in the machine





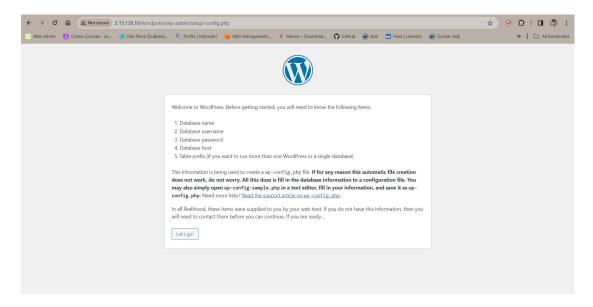


- Commands for Setup of Apache2 and PHP:-
- Install Apache server on Ubuntu sudo apt install apache2
- Install php runtime and php mysql connector sudo apt install php libapache2-mod-php php-mysql

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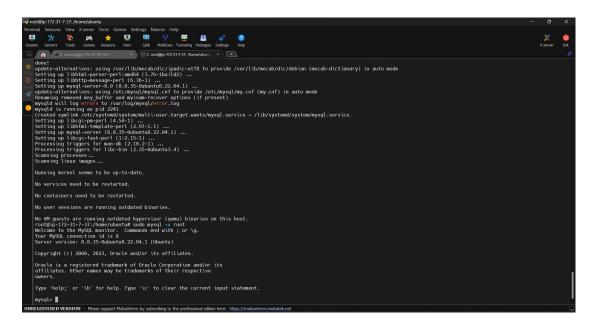
- ◆ Commands to download and move wordpress file in apache:-
- Download wordpress wget https://wordpress.org/latest.tar.gz
- Unzip tar -xvf latest.tar.gz
- Move wordpress folder to apache document root sudo mv wordpress//var/www/html
- Command to restart/reload apache server sudo systemctl restart apache2



- Commands to install and configure Mysql:-
- Install MySQL server

sudo apt install mysql-server

• Login to MySQL server sudo mysql -u root



 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';

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

CREATE USER 'wp_user'@localhost IDENTIFIED BY 'Testpassword@123';

- Create a database for wordpress CREATE DATABASE wp;
- Grant all privilges on the database 'wp' to the newly created user GRANT ALL PRIVILEGES ON wp.* TO 'wp_user'@localhost;
- Change the Username, Password and Database name accordingly.

