Step to setup wordpress and mysql by microservices architecture

Creating Instances for Wordpress As well AS MySQL

- Choose an AMI in the classic instance wizard: I chose the ubuntu
- Instance details: Select the Instance Type you want to use. Here I am using t2.micro.
- Create a security group allowing all traffic for now.
- Create a new key or choose already existing key (If any).
- Launch your instance.

Setting Up MySQL first:

Step-1: ssh login to ec2

Step-2: Switch to root user

Sudo su - root

Step-3: Install mysql-server

Your WordPress installation needs to store information, such as blog posts and user comments, in a database. This procedure helps you create your blog's database and a user that is authorized to read and save information to it. To install it.

Step-4: Secure Database server

Run mysql_secure_installation to secure the database using following command:

mysql_secure_installation

When prompted, type a password for the root account.

- 1. Type Y to set a password, and type a secure password twice.
- 2. Type Y to remove the anonymous user accounts.
- 3. Type N to enable the remote root login.
- 4. Type Y to remove the test database.
- 5. Type Y to reload the privilege tables and save your changes.

Step-6: Create an User and Database for Wordpress

#login to mysql first

>> mysql -u root

>> CREATE USER 'wordpress-user'@'localhost' IDENTIFIED BY 'abc@123';

Note: "abc@123" is a password I set for wordpress-user. You can set your own.

>> CREATE DATABASE `wordpress-db`;

>> GRANT ALL PRIVILEGES ON *.* TO 'wordpress-user'@'%' IDENTIFIED BY 'abc@123' WITH GRANT OPTION;

>> FLUSH PRIVILEGES;

The above three commands will create a database with name **wordpress-db** and will grant the privileges for database to wordpress-user even if we login remotely.

Setting Up Wordpress:

Step-1: SSH login to Wordpress's ec2:

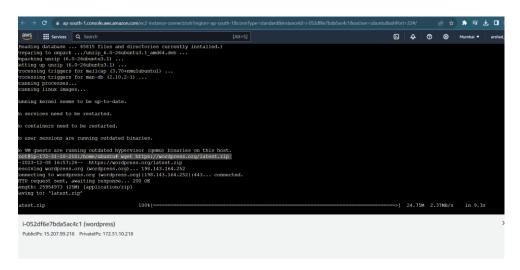
Step-2: Switch user to root:

sudo su - root

Step-3: Download and Extract wordpress package:

Download the latest WordPress installation package with the wget command and Unzip and unarchive the installation package. The installation folder is unzipped to a folder called wordpress.

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



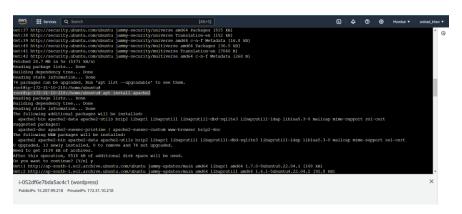
Step-4: Install Apache server and Php:

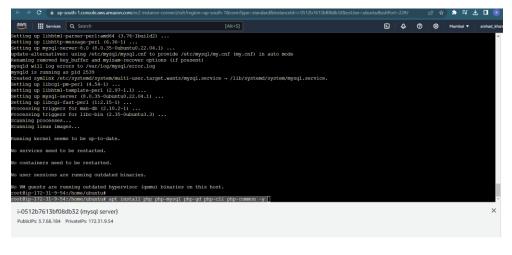
Apt install apache2

Check if apache service is running or not by public ip of ec2

Now install php by below command

Apt install php php-mysql php-gd php-cli php-common –y







Step-5: Copy website files to /var/www/html:

Run below command for copy wordpress to apache server location cp -r wordpress/* /var/www/html/

Run below command to remove index.html file

rm -rf index.html

```
| Prof. | Prof. | Tool | Tool
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Step-6: Edit wp-config.php file:

Copy the wp-config-sample.php file to a file called wp-config.php. This creates a new configuration file and keeps the original sample file intact as a backup. And edit the same using vim command;

cd /var/www/html cp wp-config-sample.php wp-config.php vim wp-config.php

Edit the host, database name, user and password as shown in the following picture:

```
define( 'DB_NAME', 'wordpress-db' ); // Wordpress database name

/** MySQL database username */
define( 'DB_USER', 'wordpress-user' ); //Wordpress user name

/** MySQL database password */
define( 'DB_PASSWORD', 'abc@123' ); //wordpress-user's password

/** MySQL hostname */
define( 'DB_HOST', '172.31.35.149' ); //private Ip of mysql instance

/** Database Charset to use in creating database tables. */
define( 'DB_CHARSET', 'utf8' );

/** The Database Collate type. Don't change this if in doubt. */
define( 'DB_COLLATE', '' );
```

Step-7 Fill the details of database and logging

