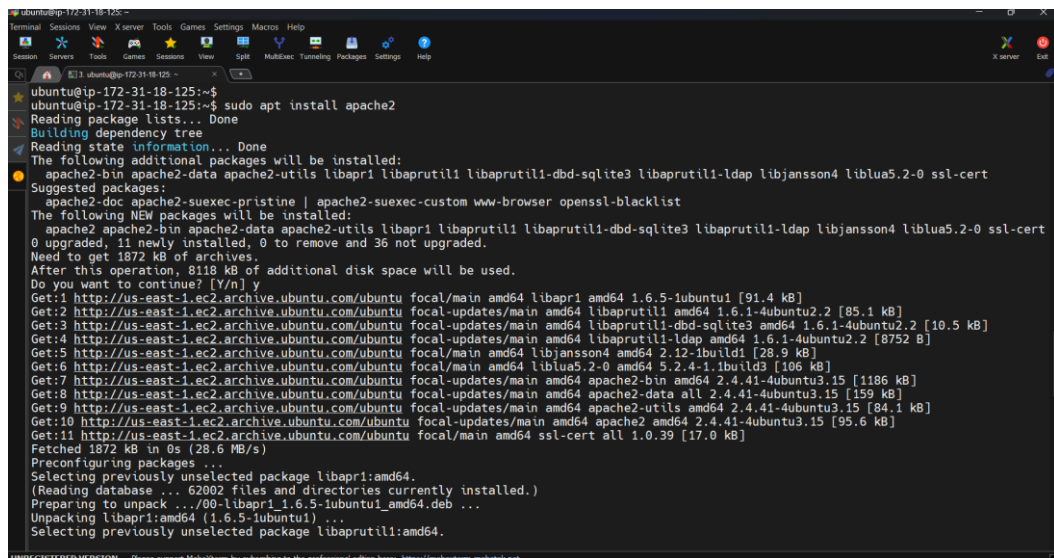


Task: Deploy application in monolithic and microservices architecture

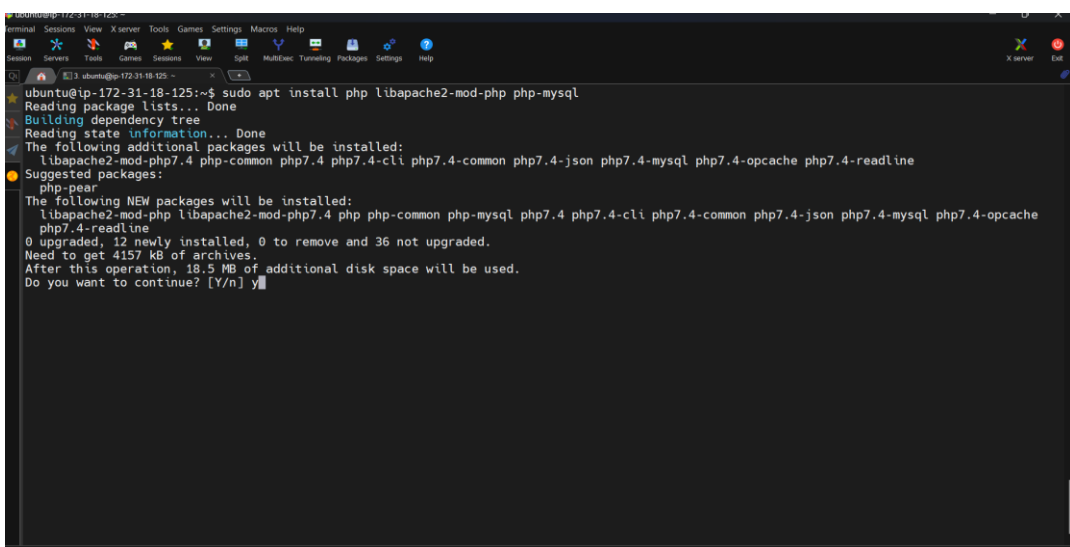
a. Deploy application in Monolithic Architecture

1. Install Apache server on Ubuntu



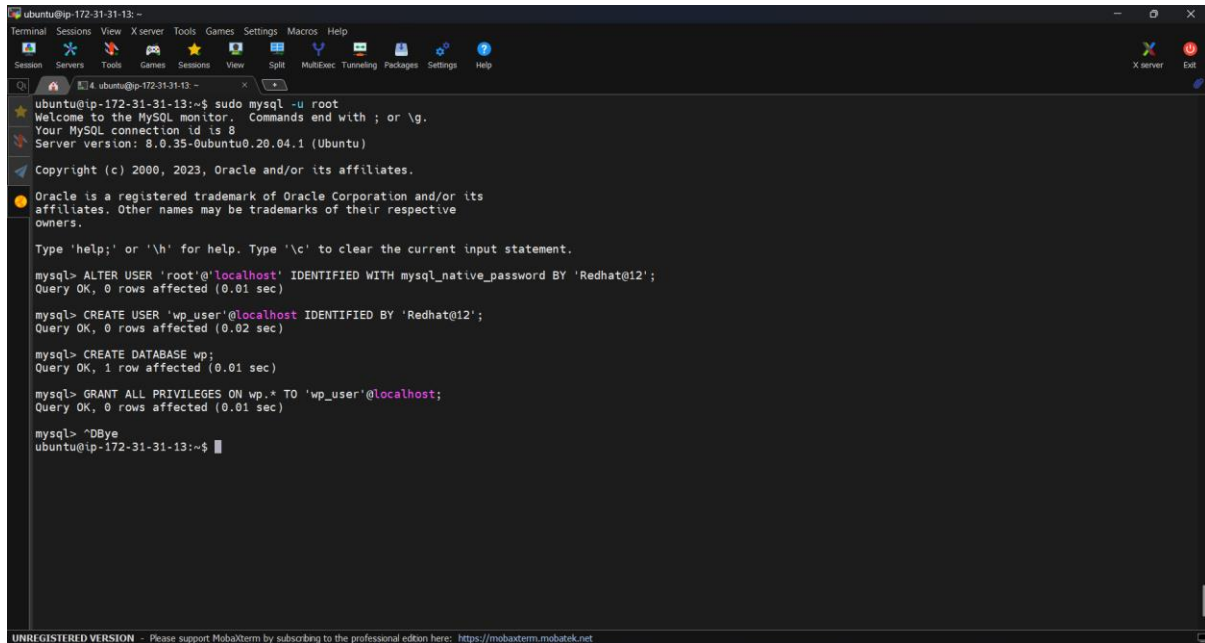
```
ubuntu@ip-172-31-18-125:~$ sudo apt install apache2
ubuntu@ip-172-31-18-125:~$ sudo apt install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap libjansson4 liblua5.2-0 ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser openssl-blacklist
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap libjansson4 liblua5.2-0 ssl-cert
0 upgraded, 11 newly installed, 0 to remove and 36 not upgraded.
Need to get 1872 kB of archives.
After this operation, 8118 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libapr1 amd64 1.6.5-1ubuntu1 [91.4 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libaprutil1 amd64 1.6.1-4ubuntu2.2 [85.1 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libaprutil1-dbd-sqlite3 amd64 1.6.1-4ubuntu2.2 [10.5 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libaprutil1-ldap amd64 1.6.1-4ubuntu2.2 [8752 B]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libjansson4 amd64 2.12-1build1 [28.9 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 liblua5.2-0 amd64 5.2.4-1.1build3 [106 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 apache2-bin amd64 2.4.41-4ubuntu3.15 [1186 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 apache2-data all 2.4.41-4ubuntu3.15 [159 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 apache2-utils amd64 2.4.41-4ubuntu3.15 [84.1 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 apache2 amd64 2.4.41-4ubuntu3.15 [95.6 kB]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 ssl-cert all 1.0.39 [17.0 kB]
Fetched 1872 kB in 0s (28.6 MB/s)
Preconfiguring packages ...
Selecting previously unselected package libapr1:amd64.
(Reading database ... 62002 files and directories currently installed.)
Preparing to unpack .../00-libapr1_1.6.5-1ubuntu1_amd64.deb ...
Unpacking libapr1:amd64 (1.6.5-1ubuntu1) ...
Selecting previously unselected package libaprutil1:amd64.
```

2. Install php runtime and php mysql connect



```
ubuntu@ip-172-31-18-125:~$ sudo apt install php libapache2-mod-php php-mysql
ubuntu@ip-172-31-18-125:~$ sudo apt install php libapache2-mod-php php-mysql
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libapache2-mod-php7.4 php-common php7.4-cli php7.4-common php7.4-json php7.4-mysql php7.4-opcache php7.4-readline
Suggested packages:
  php-pear
The following NEW packages will be installed:
  libapache2-mod-php libapache2-mod-php7.4 php php-common php-mysql php7.4 php7.4-cli php7.4-common php7.4-json php7.4-mysql php7.4-opcache
  php7.4-readline
0 upgraded, 12 newly installed, 0 to remove and 36 not upgraded.
Need to get 4157 kB of archives.
After this operation, 18.5 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

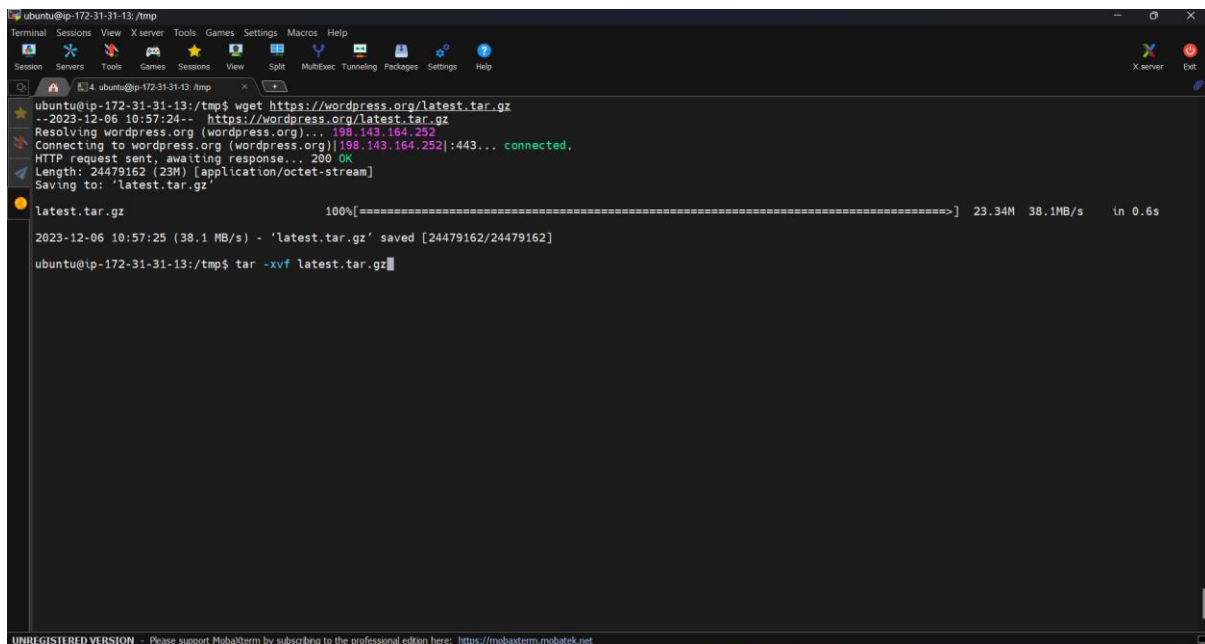
3. Login to mysql Server & Change authentication plugin to mysql_native_password & Create a database for wordpress



```
ubuntu@ip-172-31-31-13: ~  
Terminal Sessions View X server Tools Games Settings Macros Help  
Session Servers Tools Games Sessions View Split MultExec Tunneling Packages Settings Help  
4. ubuntu@ip-172-31-31-13: ~  
ubuntu@ip-172-31-31-13:~$ sudo mysql -u root  
Welcome to the MySQL monitor. Commands end with ; or \g.  
Your MySQL connection id is 8  
Server version: 8.0.35-0ubuntu0.20.04.1 (Ubuntu)  
Copyright (c) 2000, 2023, Oracle and/or its affiliates.  
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Redhat@12';  
Query OK, 0 rows affected (0.01 sec)  
mysql> CREATE USER 'wp_user'@'localhost' IDENTIFIED BY 'Redhat@12';  
Query OK, 0 rows affected (0.02 sec)  
mysql> CREATE DATABASE wp;  
Query OK, 1 row affected (0.01 sec)  
mysql> GRANT ALL PRIVILEGES ON wp.* TO 'wp_user'@'localhost';  
Query OK, 0 rows affected (0.01 sec)  
mysql> ^D  
bye  
ubuntu@ip-172-31-31-13:~$
```

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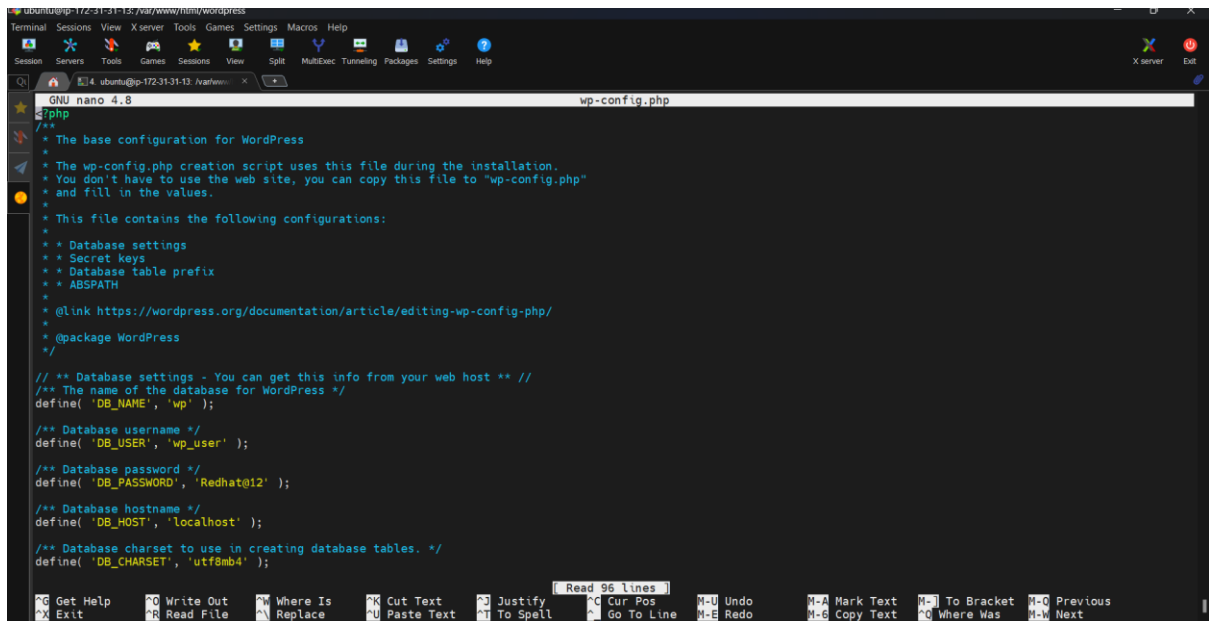
4. Download wordpress & Unzip the File



```
ubuntu@ip-172-31-31-13: /tmp  
Terminal Sessions View X server Tools Games Settings Macros Help  
Session Servers Tools Games Sessions View Split MultExec Tunneling Packages Settings Help  
4. ubuntu@ip-172-31-31-13: /tmp  
ubuntu@ip-172-31-31-13:/tmp$ wget https://wordpress.org/latest.tar.gz  
--2023-12-06 10:57:24-- https://wordpress.org/latest.tar.gz  
Resolving wordpress.org (wordpress.org)... 198.143.164.252  
Connecting to wordpress.org (wordpress.org)|198.143.164.252|:443... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 24479162 (23M) [application/octet-stream]  
Saving to: 'latest.tar.gz'  
latest.tar.gz 100%[=====] 23.34M 38.1MB/s in 0.6s  
2023-12-06 10:57:25 (38.1 MB/s) - 'latest.tar.gz' saved [24479162/24479162]  
ubuntu@ip-172-31-31-13:/tmp$ tar -xvf latest.tar.gz
```

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5. Nano File Config setup:



```
GNU nano 4.8 wp-config.php
<?php
/**
 * The base configuration for WordPress
 *
 * The wp-config.php creation script uses this file during the installation.
 * You don't have to use the web site, you can copy this file to "wp-config.php"
 * and fill in the values.
 *
 * This file contains the following configurations:
 *
 * * Database settings
 * * Secret keys
 * * Database table prefix
 * * ABSPATH
 *
 * @link https://wordpress.org/documentation/article/editing-wp-config-php/
 *
 * @package WordPress
 */

// ** Database settings - You can get this info from your web host ** //
/** The name of the database for WordPress */
define( 'DB_NAME', 'wp' );

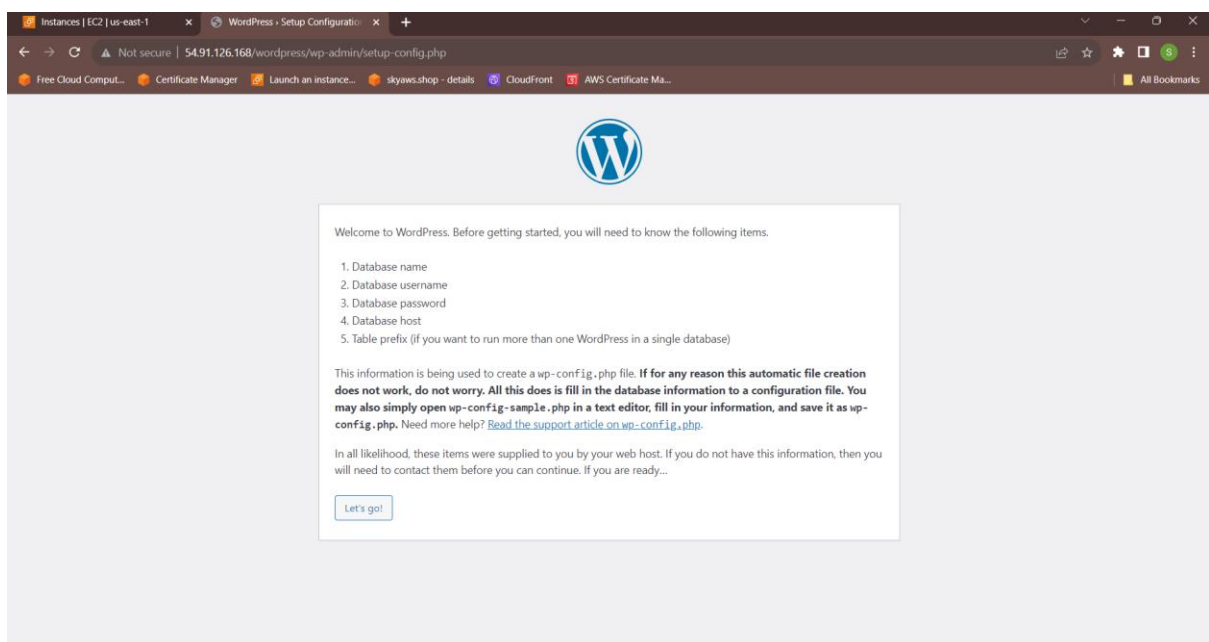
/** Database username */
define( 'DB_USER', 'wp_user' );

/** Database password */
define( 'DB_PASSWORD', 'Redhat@12' );

/** Database hostname */
define( 'DB_HOST', 'localhost' );


/** Database charset to use in creating database tables. */
define( 'DB_CHARSET', 'utf8mb4' );
```

6. SetUp The Database In Wordpress and Login Credentials



← → ↻ Not secure | 54.91.126.168/wordpress/wp-login.php 🔍 📄 ☆ 🗖 6 📌 All Bookmarks

Free Cloud Comput... Certificate Manager Launch an instance... skyaws.shop - details Cloudfront AWS Certificate Ma...



Username or Email Address

Password

☐ Remember Me


Log in

[Lost your password?](#)

→ [Go to MONOLITHIC_WEBSITE](#)

← → ↻ Not secure | 54.91.126.168/wordpress/wp-admin/install.php?language=en_US 🔍 📄 ☆ 🗖 6 📌 All Bookmarks

Free Cloud Comput... Certificate Manager Launch an instance... skyaws.shop - details Cloudfront AWS Certificate Ma...



Welcome

Welcome to the famous five-minute WordPress installation process! Just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.

Information needed

Please provide the following information. Do not worry, you can always change these settings later.

Site Title

MONOLITHIC_WEBSITE

Username

Monolithic_wordpress

Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.

Password

Hide

Important: You will need this password to log in. Please store it in a secure location.

Your Email

saravana09052002aws@gmail.com

Double-check your email address before continuing.

Search engine visibility

☐ Discourage search engines from indexing this site

It is up to search engines to honor this request.

6.Final Output: Sample WelcomePage

