### **Install Wordpress on EC2 instance**

#### Step 1: Launch EC2 Instance

Sign-in into your AWS account and go to the EC2 service console.

Select **Launch Instance** option, provide name for your instance and select the machine image you want. I am using an Ubuntu image for this task.

Next select the Key-Pair that you will use to connect to your instance. While adding the security group to your instance make sure that it allows the inbound traffic on port 22 for SSH.

Click on **Launch Instance** to launch your instance. Once the instance is in running state, use any terminal to SSH into your EC2 Instance.

```
System load: 0.080078125 Processes: 121
Usage of /: 24.8% of 7.57GB Users logged in: 1
Memory usage: 28% IPv4 address for eth0: 172.31.45.50
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

7 updates can be applied immediately.
7 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

**** System restart required ***
Last login: Thu Feb 29 12:49:25 2024 from 219.91.170.6
ubuntu@ip-172-31-45-50:~$ _______
```

Run following commands to update and upgrade your Ubuntu EC2 instance.

sudo apt-get update sudo apt-get upgrade

## Step2: Install Apache2 server, mysql server and related libraries.

To install and host a wordpress website, we need to install Apache2 server and mysql server. We can use following command to install apache2 server.

#### apt-get install apache2

```
os root@ip-172-31-43-40: ~
                                                                                                                                                 П
root@ip-172-31-43-40:~# apt-get install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap
  liblua5.3-0 mailcap mime-support ssl-cert
Suggested packages:
 apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser bzip2-doc
The following NEW packages will be installed:
apache2 apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap
liblua5.3-0 mailcap mime-support ssl-cert
0 upgraded, 13 newly installed, 0 to remove and 3 not upgraded.
Need to get 2139 kB of archives.
After this operation, 8518 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 jammy-updates/main amd64 libapr1 amd64 1.7.0-8ubuntu0.22.04.1 [108
kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutil1 amd64 1.6.1-5ubuntu4.22.04.2
92.8 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutil1-dbd-sqlite3 amd64 1.<u>6</u>.1-5ubunt
u4.22.04.2 [11.3 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutil1-ldap amd64 1.6.1-5ubuntu4.22.0
4.2 [9170 B]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 liblua5.3-0 amd64 5.3.6-1build1 [140 kB]
 et:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 apache2-bin amd64 2.4.52-1ubuntu4.7 [1346
```

Use following command to install mysql.

#### apt-get install mysql\*

```
root@ip-172-31-43-40:~# apt-get install mysql*
Reading package lists... Done
Reading state information... Done
Reading state information... Done
Note, selecting 'mysql-testsuite' for glob 'mysql*'
Note, selecting 'mysql-server-5.5' for glob 'mysql*'
Note, selecting 'mysql-server-5.6' for glob 'mysql*'
Note, selecting 'mysql-server-5.7' for glob 'mysql*'
Note, selecting 'mysql-server-8.0' for glob 'mysql*'
Note, selecting 'mysql-client-5.5' for glob 'mysql*'
Note, selecting 'mysql-client-5.6' for glob 'mysql*'
Note, selecting 'mysql-client-5.7' for glob 'mysql*'
Note, selecting 'mysql-client-8.0' for glob 'mysql*'
Note, selecting 'mysql-colmon' for glob 'mysql*'
Note, selecting 'mysql-colmon' for glob 'mysql*'
Note, selecting 'mysql-testsuite-5.5' for glob 'mysql*'
Note, selecting 'mysql-testsuite-5.6' for glob 'mysql*'
Note, selecting 'mysql-testsuite-5.7' for glob 'mysql*'
Note, selecting 'mysql-client' for glob 'mysql*'
Note, selecting 'mysql-client' for glob 'mysql*'
Note, selecting 'mysql-sendow' for glob 'mysql*'
Note, selecting 'mysql-sendow' for glob 'mysql*'
Note, selecting 'mysql-server' for glob 'mysql*'
Note, selecting 'mysql-server-core-5.6' for glob 'mysql*'
Note, selecting 'mysql-server-core-5.6' for glob 'mysql*'
```

We require php, libapache2-mod-php, php-mysql packages. We can install this packages using following command.

#### apt-get install php libapache2 php-mysql

```
m root@ip-172-31-43-40: ~
                                                                                                                                                 П
root@ip-172-31-43-40:~# apt-get install php libapache2-mod-php php-mysql
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libapache2-mod-php8.1 php-common php8.1 php8.1-cli php8.1-common php8.1-mysql php8.1-opcache php8.1-readline
Suggested packages:
php-pear
The following NEW packages will be installed:
  libapache2-mod-php libapache2-mod-php8.1 php php-common php-mysql php8.1 php8.1-cli php8.1-common php8.1-mysql php8.1-opcache php8.1-readline
0 upgraded, 11 newly installed, 0 to remove and 3 not upgraded.
Need to get 5265 kB of archives.
Need to get 5265 kB of archives.
After this operation, 21.8 MB 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 jammy/main amd64 php-common all 2:92ubuntu1 [12.4 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-common amd64 8.1.2-1ubuntu2.14 [112
7 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-opcache amd64 8.1.2-1ubuntu2.14 [36
5 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-readline amd64 8.1.2-1ubuntu2.14 [1
3.6 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-cli amd64 8.1.2-1ubuntu2.14 [1834 |
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libapache2-mod-php8.1 amd64 8.1.2-1ubuntu2
.14 [1766 kB]
 Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libapache2-mod-php all 2:8.1+92ubuntu1 [2898 B]
```

#### **Step 3: Install wordpress**

Now to install wordpress, we first download latest.tar.gz file from <a href="https://www.wordpress.com">www.wordpress.com</a> using following command. We download this file in /var/www/html/ directory.

#### wget <a href="http://wordpress.com/latest.tar.gz">http://wordpress.com/latest.tar.gz</a>

After downloading the file, we will extract it using tar command, use following command to extract the file.

#### tar -xvzf latest.tar.gz

```
m root@ip-172-31-43-40; /var/www/html
oot@ip-172-31-43-40:/var/www/html# tar -xvzf latest.tar.gz
wordpress/
wordpress/xmlrpc.php
ordpress/wp-blog-header.php
ordpress/readme.html
ordpress/wp-signup.php
ordpress/index.php
ordpress/wp-cron.php
ordpress/wp-config-sample.php
wordpress/wp-login.php
wordpress/wp-settings.php
wordpress/license.txt
wordpress/wp-content/
vordpress/wp-content/themes/
wordpress/wp-content/themes/twentytwentythree/
wordpress/wp-content/themes/twentytwentythree/theme.json
wordpress/wp-content/themes/twentytwentythree/parts/
wordpress/wp-content/themes/twentytwentythree/parts/footer.html
wordpress/wp-content/themes/twentytwentythree/parts/comments.html
wordpress/wp-content/themes/twentytwentythree/parts/header.html
wordpress/wp-content/themes/twentytwentythree/parts/post-meta.html
ordpress/wp-content/themes/twentytwentythree/patterns/
wordpress/wp-content/themes/twentytwentythree/patterns/hidden-404.php
wordpress/wp\text{-}content/themes/twentytwentythree/patterns/post\text{-}meta\text{-}php
wordpress/wp-content/themes/twentytwentythree/patterns/hidden-no-results.php
ordpress/wp-content/themes/twentytwentythree/patterns/call-to-action.php
ordpress/wp-content/themes/twentytwentythree/patterns/footer-default.php
```

#### Step 4: Create database and database user for Wordpress.

We have to create a database for wordpress, so we login to mysql server and create a database for wordpress and alter some user settings of mysql database.

ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql\_native\_password by 'Testpassword@123'; [change the password of root user]

# CREATE USER 'wp\_user'@localhost IDENTIFIED BY 'Testpassword@123';

[Create database user 'wp\_user' and assign password to user]

#### CREATE DATABASE wp;

[Create database named 'wp']

#### **EXIT**

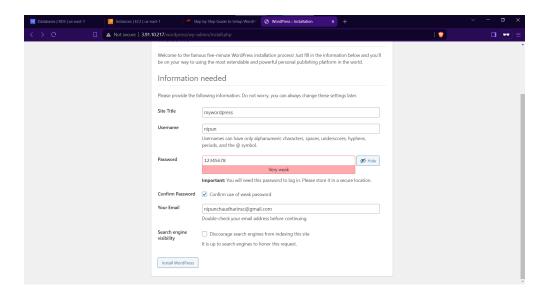
#### [Exit from mysql]

#### Step 5 : Changing the php configuration file for wordpress.

Navigate to /var/www/html/wordpress/ directory, and create a file named wp-config.php and add following content in that file.

#### Step 6: Hit the wordpress site

Now as we have completed all configuration, we can copy Public IP of our instance and paste it in browser. We will get following page.



Here we provide basic information and then click 'Install Wordpress' button.

Then we hit our Public IP again to see following page.

