

## For Microservices

Launch 2 ubuntu instance (t2.micro free tier) individually for wordpress & MySQL.

On MySQL instance **Allow 3306 port** via security group in **inbound rule**. Then install & configure it with MySQL installation.

```
sudo apt update
sudo apt install mysql-server -y
```

Check it's service status & then configure MySQL via below command,

```
sudo mysql
mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY
'Techplement';
mysql> exit;
```

Then again login with user root & password

```
mysql -u root -p
```

After Database login create DB with all needed privileges

```
CREATE DATABASE wordpress;
CREATE USER 'wordpress'@'localhost' IDENTIFIED BY 'wordpress';
GRANT ALL PRIVILEGES ON wordpress.* TO 'wordpress'@'localhost';
FLUSH PRIVILEGES;
EXIT;
```

Then Edit the MySQL configuration file (mysqld.cnf) to allow remote access

```
sudo nano /etc/mysql/mysql.conf.d/mysqld.cnf
```

Change bind-address with localhost to 0.0.0.0

```
bind-address = 0.0.0.0
```

Then restart MySQL service & check it's status.

```
sudo systemctl restart mysql
```

Then Launch wordpress instance & **allow port no 80** via security group in **inbound rule**.

Then install & configure Apache2, php 8.2 & wordpress

```
sudo apt update
sudo apt install apache2
```

For PHP 8.2 installation we need to follow it's required dependency via below command

```
apt-get install python-software-properties
sudo add-apt-repository ppa:ondrej/php
```

& then install php8.2 with below command & check php version

```
sudo apt-get install php8.2
php -v
```

After installation of PHP & Apache download & install wordpress

```
wget -c http://wordpress.org/latest.tar.gz
tar -xzf latest.tar.gz
sudo cp wordpress/ /var/www/html/wordpress
sudo chown -R www-data:www-data /var/www/html/wordpress
sudo chmod -R 755 /var/www/html/wordpress
```

Then configure WordPress to connect to the MySQL database by updating the wp-config.php file:  
1st from wordpress directory copy wp-config-sample.php & rename it with wp-config.php & then edit it with nano editor.

```
sudo nano /var/www/html/wp-config.php
```

& do change in below line,

```
define('DB_NAME', 'wordpress');
define('DB_USER', 'wordpress');
define('DB_PASSWORD', 'wordpress');
define('DB_HOST', '172.31.1.253');      It's Private ip of MySQL instance.
```

save it & restart Apache 2 service once

```
systemctl restart apache2
```

That's it.now access wordpress instance with public ip in host system browser.

for apache webpage <http://13.235.69.76/>

for wordpress webpage <http://13.235.69.76/wordpress>