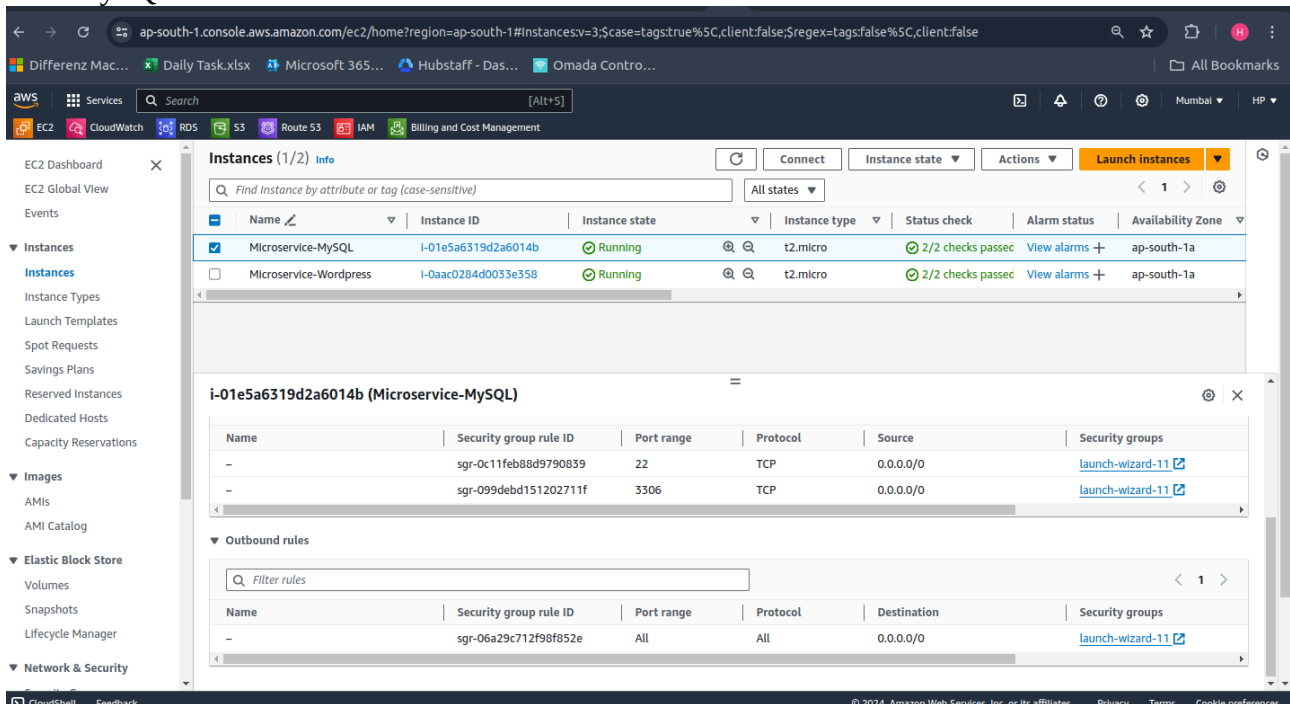


For Microservices

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.



Connect instance via terminal like below screenshot, through command.

`ssh -i "Techplement.pem" ubuntu@(instance public ip/DNS)`
like below.

`ssh -i "Techplement.pem" ubuntu@ec2-13-201-60-19.ap-south-1.compute.amazonaws.com`

```
ubuntu@ip-172-31-33-203: ~  
differenz117@differenz117:~/Downloads$ ssh -i "Techplement.pem" ubuntu@ec2-13-201-60-19.ap-south-1.compute.amazonaws.com  
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1009-aws x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:        https://ubuntu.com/pro  
  
System information as of Thu Aug  8 10:09:20 UTC 2024  
  
System load:  0.0      Processes:            113  
Usage of /:   33.5% of 6.71GB   Users logged in:      1  
Memory usage: 70%          IPv4 address for enX0: 172.31.33.203  
Swap usage:   0%  
  
=> There is 1 zombie process.  
  
Expanded Security Maintenance for Applications is not enabled.  
  
53 updates can be applied immediately.  
32 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  
  
Last login: Thu Aug  8 08:44:57 2024 from 115.246.18.252  
ubuntu@ip-172-31-33-203:~$
```

Then update ubuntu & install mysql server in it via below command.

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

then 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

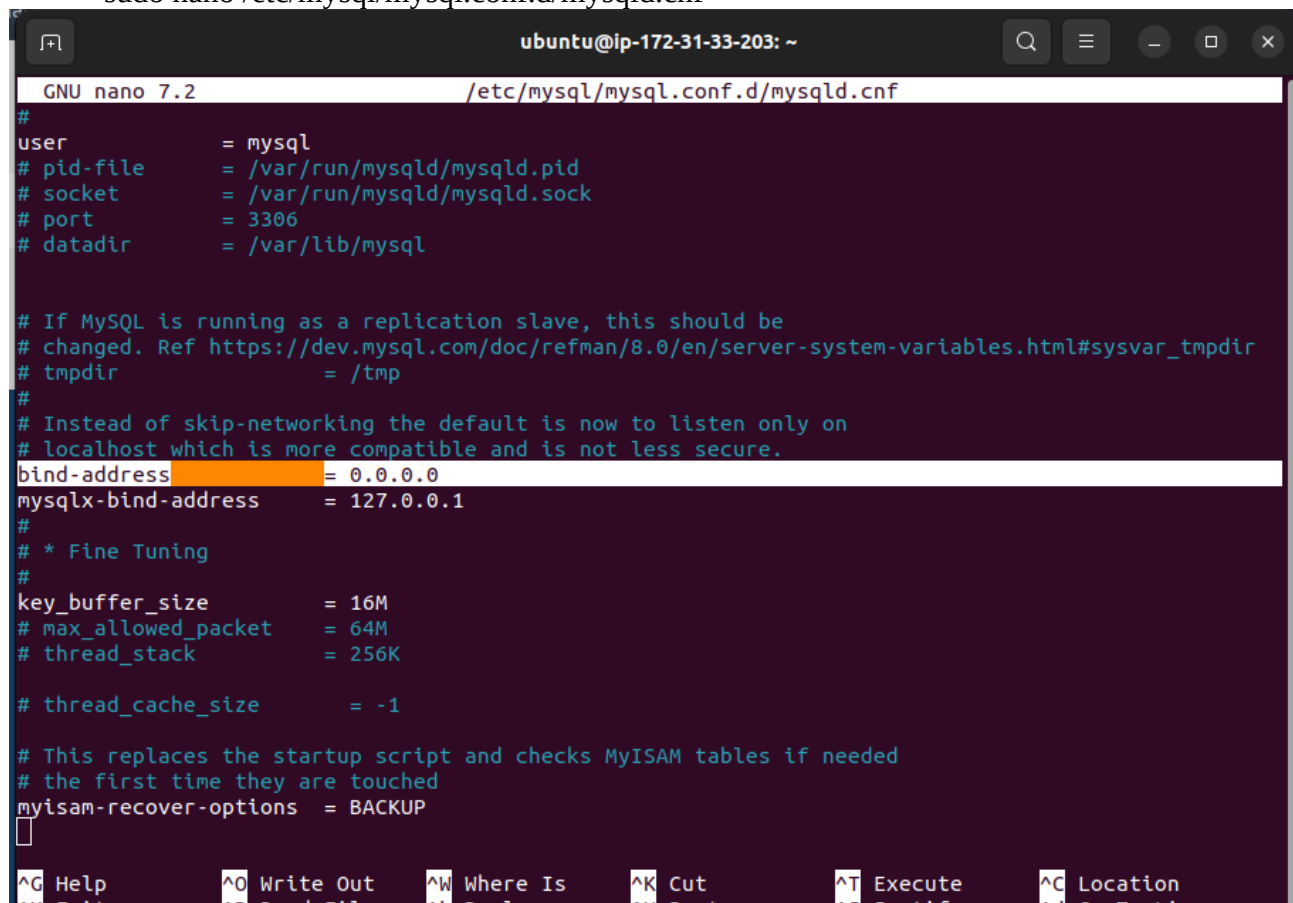
```
mysql -u root -p
```

After Database login create DB with all needed privileges

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

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

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



```
ubuntu@ip-172-31-33-203: ~
GNU nano 7.2 /etc/mysql/mysql.conf.d/mysqld.cnf
#
user            = mysql
# pid-file      = /var/run/mysqld/mysqld.pid
# socket        = /var/run/mysqld/mysqld.sock
# port          = 3306
# datadir       = /var/lib/mysql

# If MySQL is running as a replication slave, this should be
# changed. Ref https://dev.mysql.com/doc/refman/8.0/en/server-system-variables.html#sysvar_tmpdir
# tmpdir        = /tmp
#
# Instead of skip-networking the default is now to listen only on
# localhost which is more compatible and is not less secure.
bind-address     = 0.0.0.0
mysqlx-bind-address = 127.0.0.1
#
# * Fine Tuning
#
key_buffer_size  = 16M
# max_allowed_packet = 64M
# thread_stack    = 256K
#
# thread_cache_size      = -1

# This replaces the startup script and checks MyISAM tables if needed
# the first time they are touched
myisam-recover-options = BACKUP

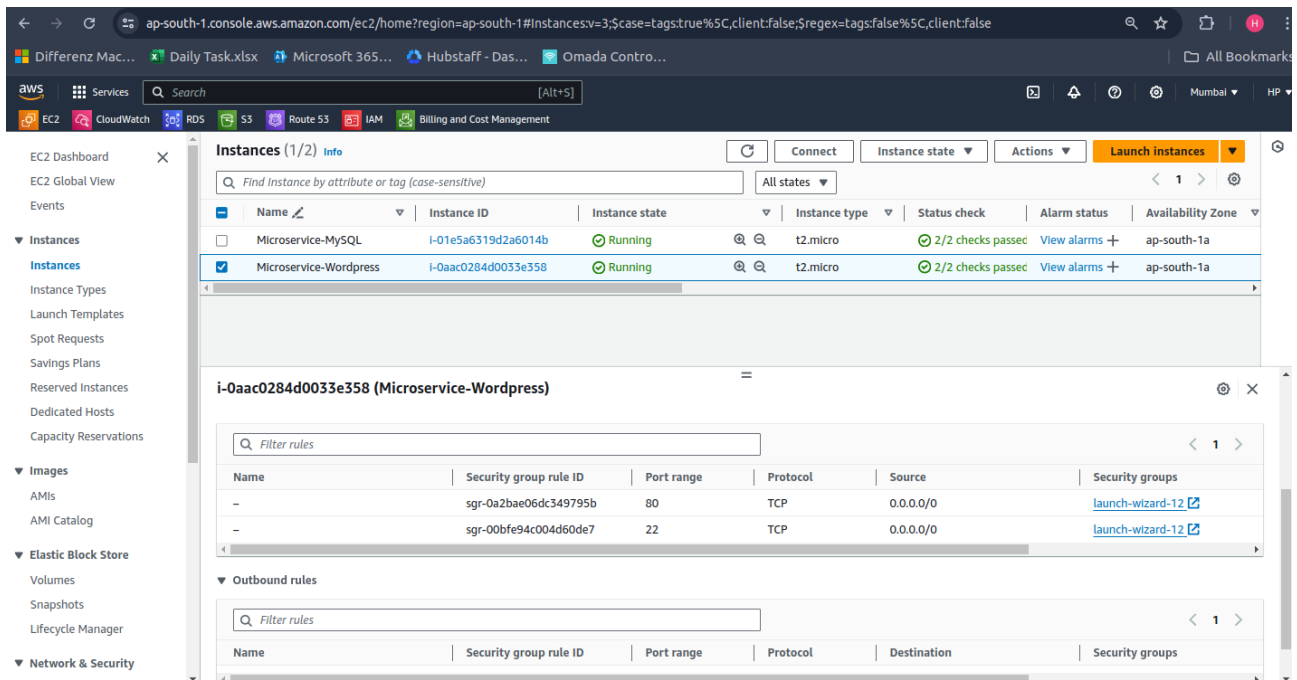
```

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.



Connect instance via terminal with below command,
ssh -i "Techplement.pem" ubuntu@(instance public ip/DNS)
like below.

```
ssh -i "Techplement.pem" ubuntu@ec2-13-201-88-133.ap-south-1.compute.amazonaws.com
```

Then install & configure Apache2,php 8.2 & wordpress

```
sudo apt update  
sudo apt install apache2 -y
```

For PHP 8.3 installation we need to follow it's required dependancy via below command

```
apt-get install ca-certificates apt-transport-https software-properties-common  
sudo add-apt-repository ppa:ondrej/php
```

& then install php8.3 with below command & check php version

```
sudo apt-get install php8.3  
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

```
cd /var/www/html/wordpress
sudo cp wp-config-sample.php 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.

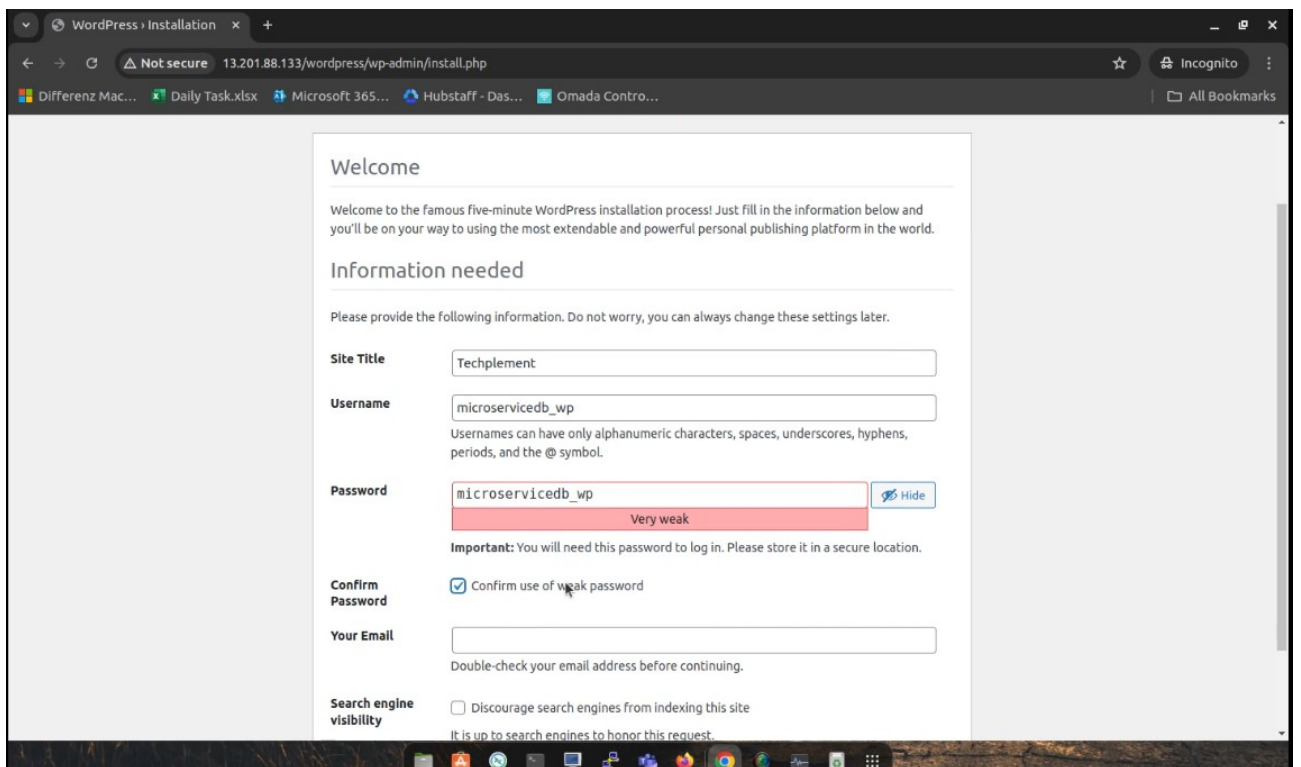
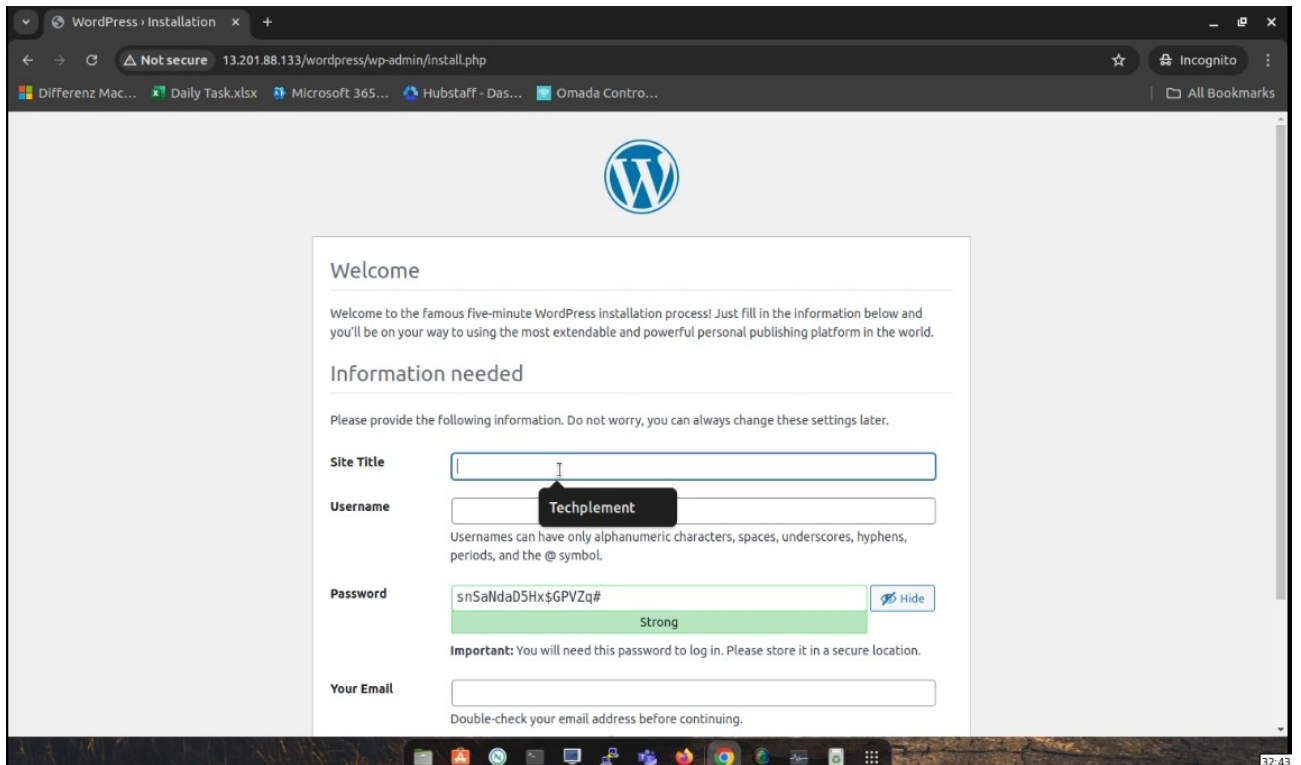
save it & restart Apache 2 service once
systemctl restart apache2

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

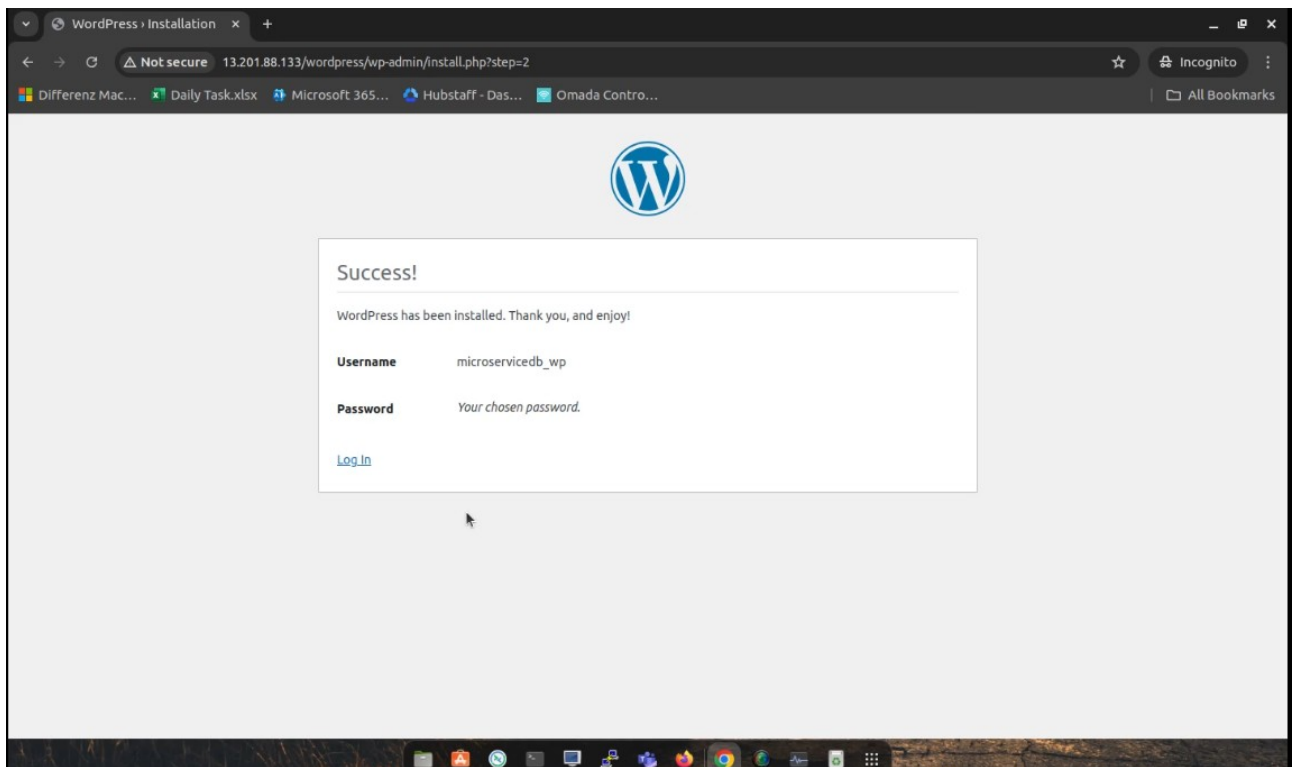
for apache webpage <http://13.235.69.76/>

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

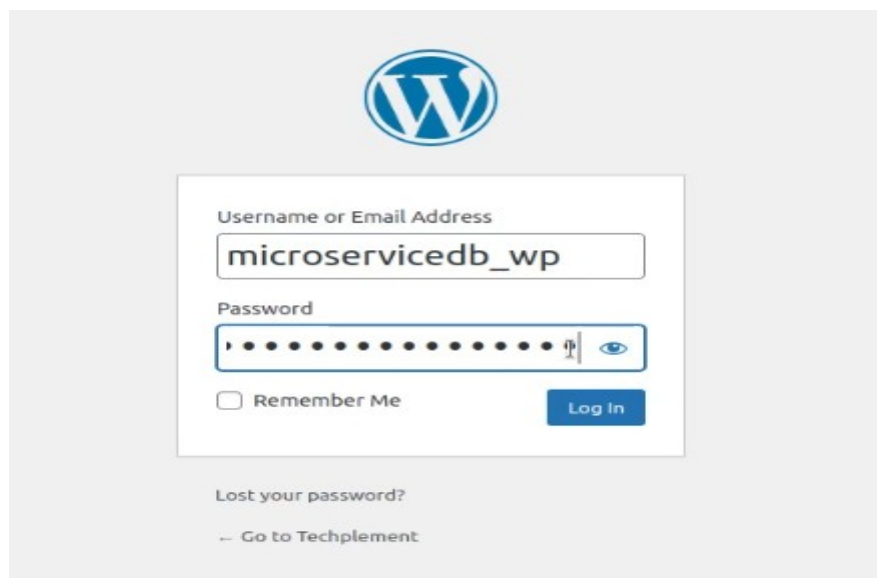
After that you can configure wordpress.

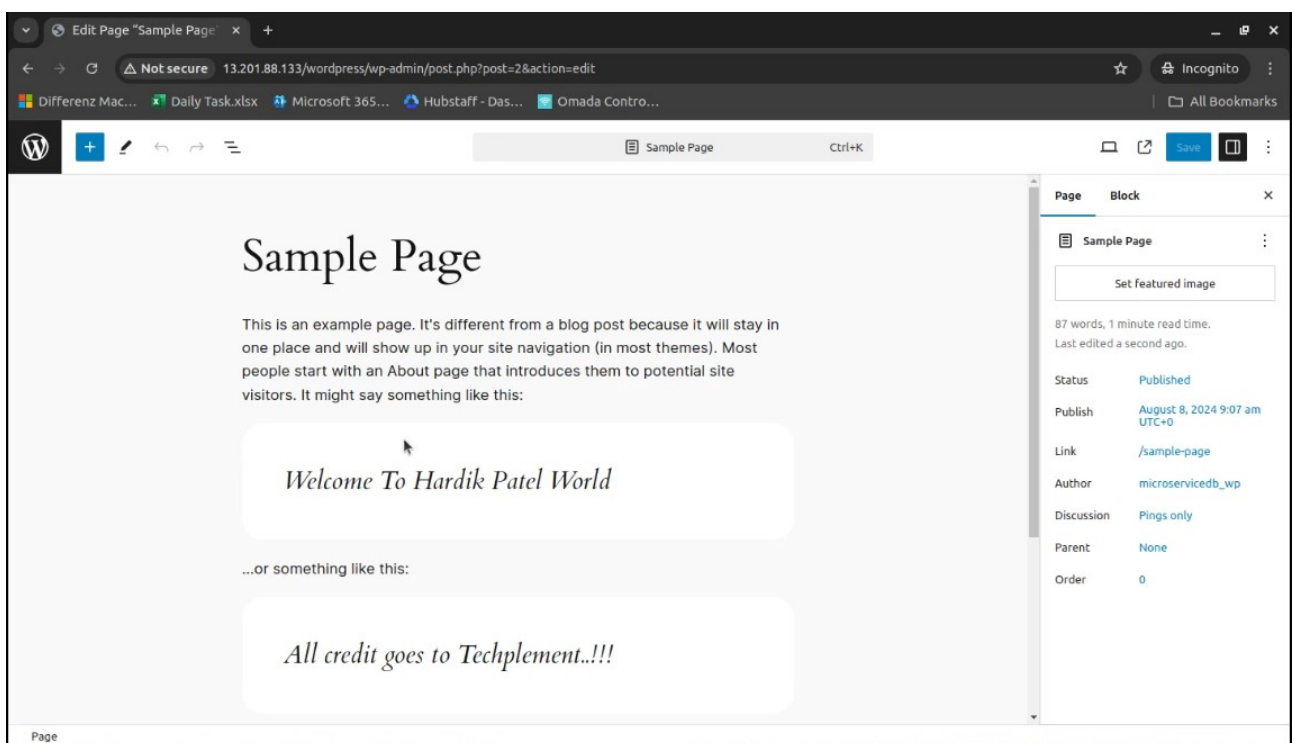
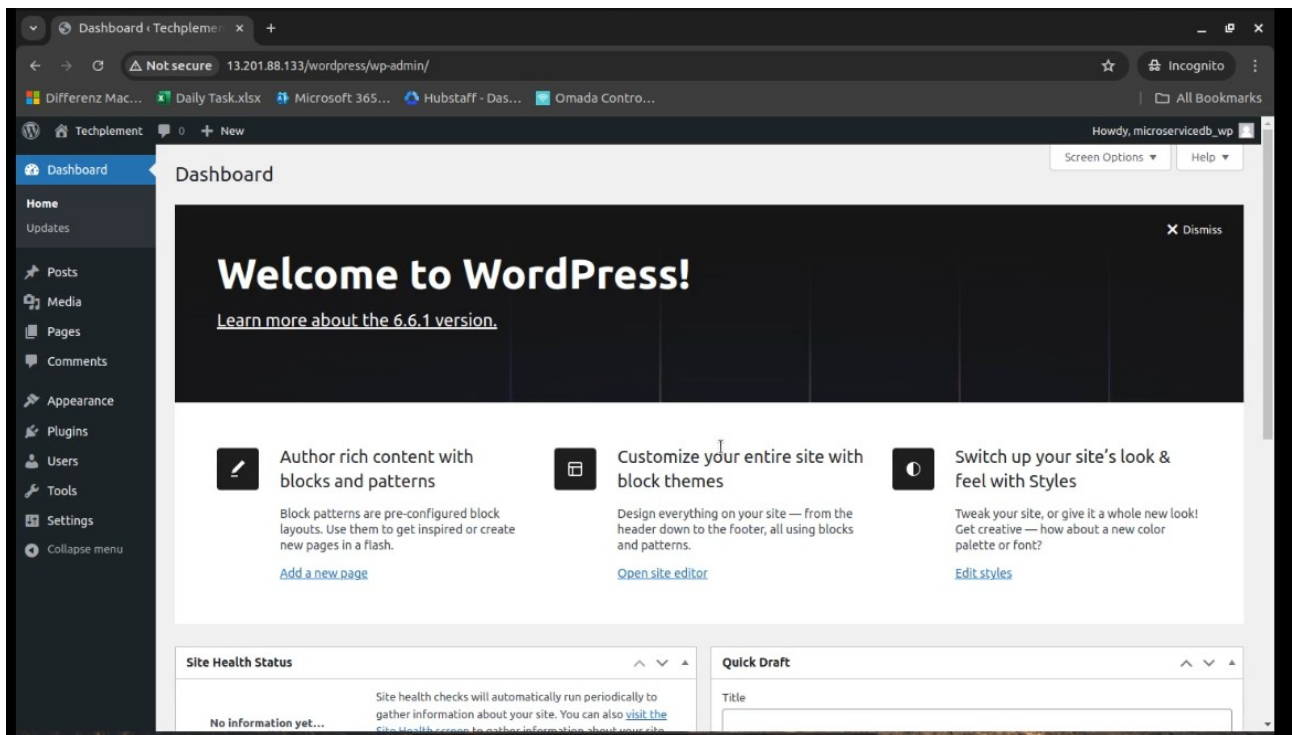


Here please enter database details which is needed.



Now login with username & password.



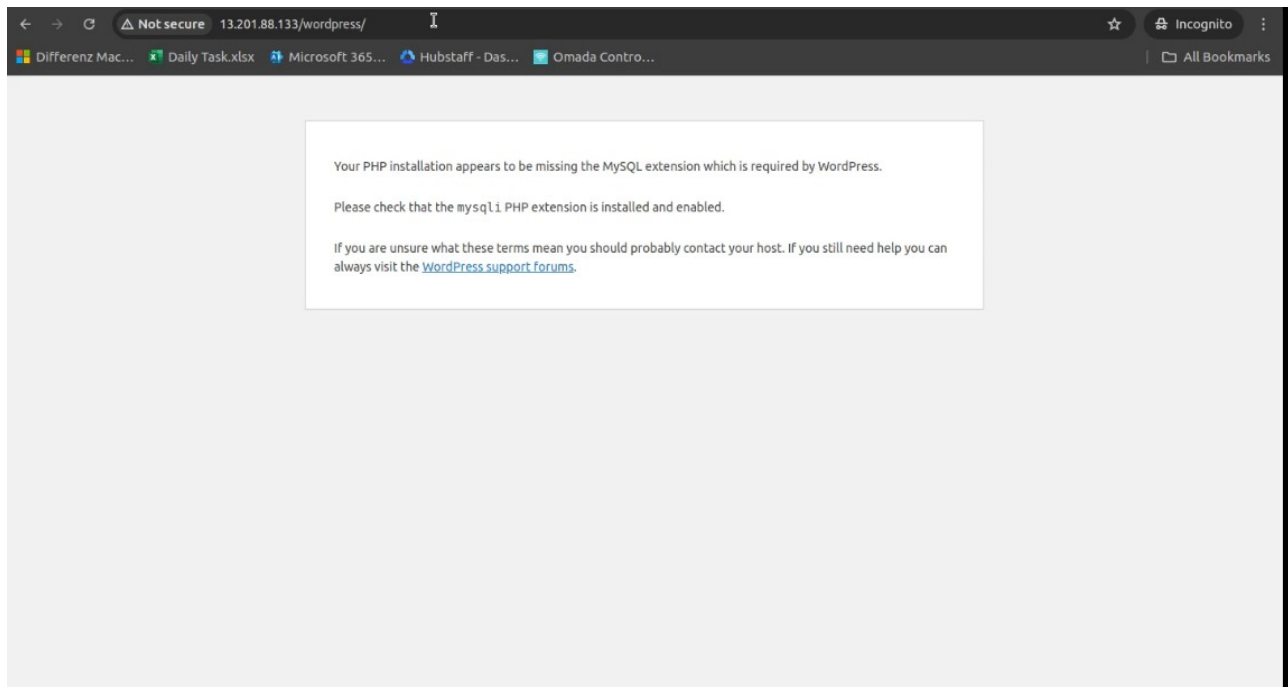


You can set pages as per your requirement from pages. Like below page.

That's it :-)

=====

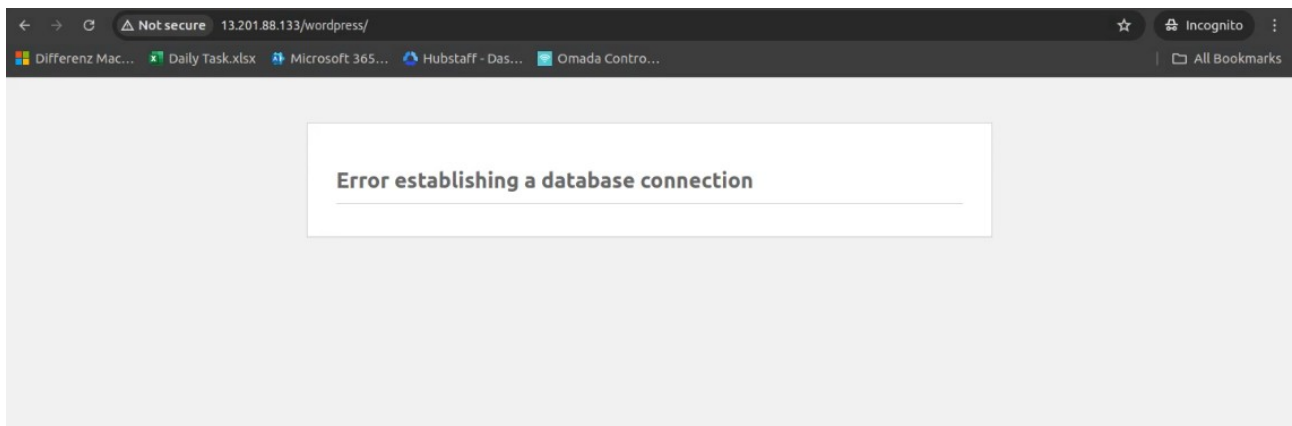
Here I faced issue in access wordpress page due to MySQL extension was missing.



If you face this issue you can solve it like below process,
you have to install MySQL extension for php8.3 & restart Apache2.

```
sudo apt-get install php8.3-mysql  
sudo apt-get install php8.3-mbstring  
sudo systemctl restart apache2
```

After that I got this error due to Database misconfiguration issue.



I tried to solve it with existing database but I can't then i create new Database with new database with proper configuration & changed DB details in wp-config.php file.


Then I got below screen,

WordPress › Installation

Not secure 13.201.88.133/wordpress/wp-admin/install.php

Incognito

Differenz Mac... Daily Task.xlsx Microsoft 365... Hubstaff - Das... Omada Contro... All Bookmarks



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

Username

Techplement

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

Password

snSa1ldaD5Hx\$GPVZq#

Hide

Strong

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

Your Email

Double-check your email address before continuing.

32:43