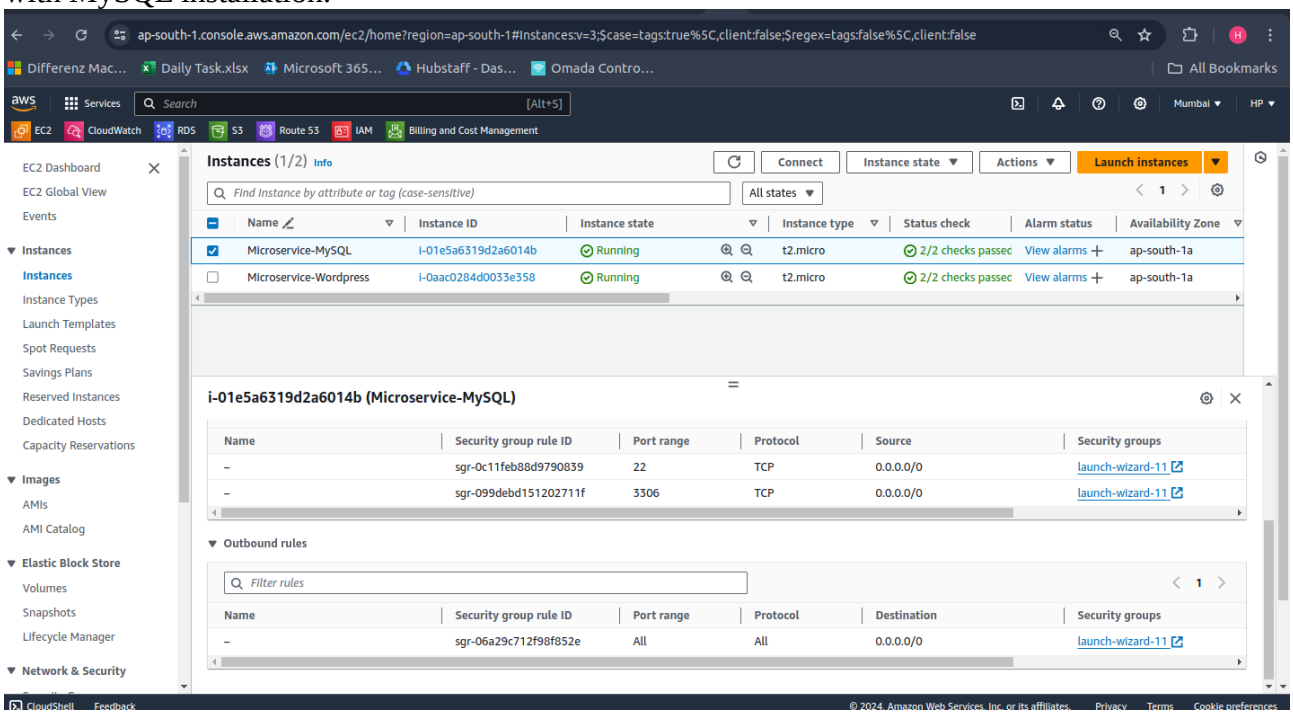
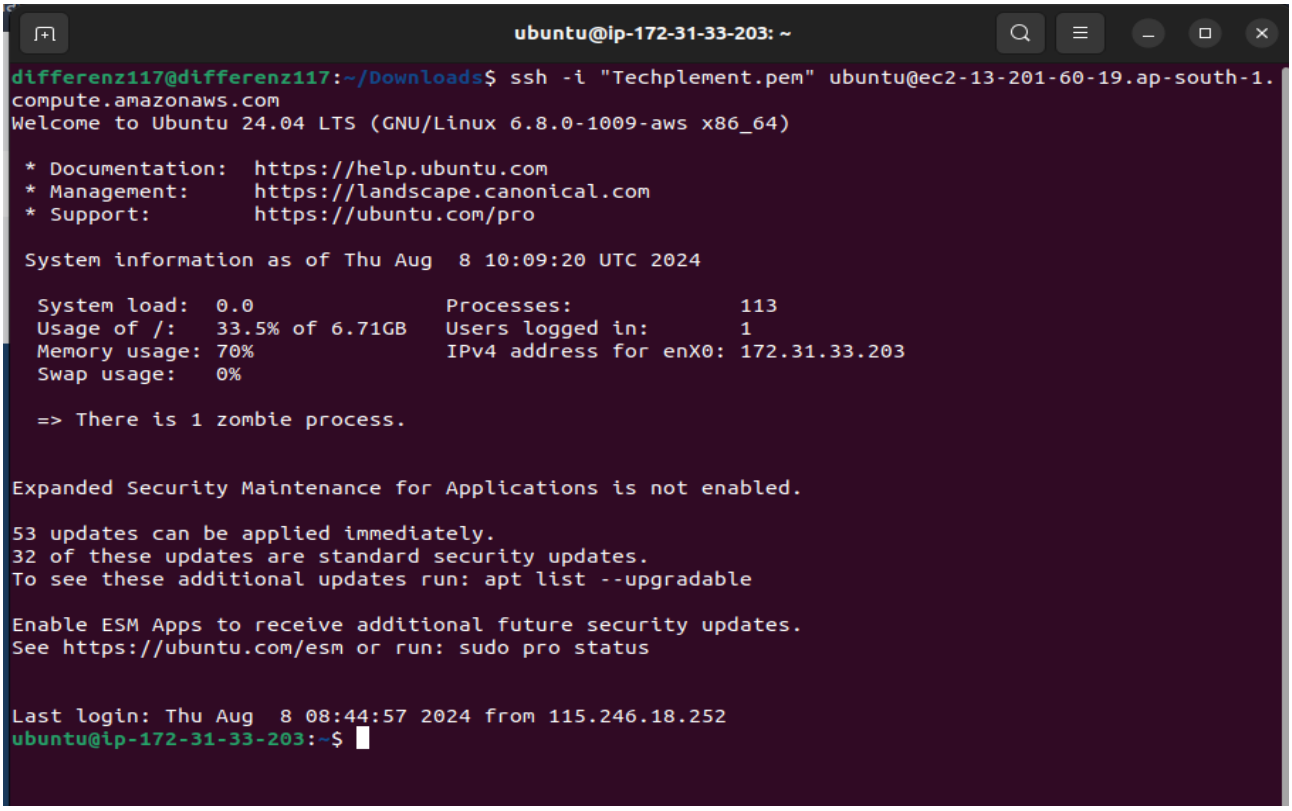
For Microservices
Launch 2 ubuntu instance (t2.micro free tier) individually for wordpress & MySQL.

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



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

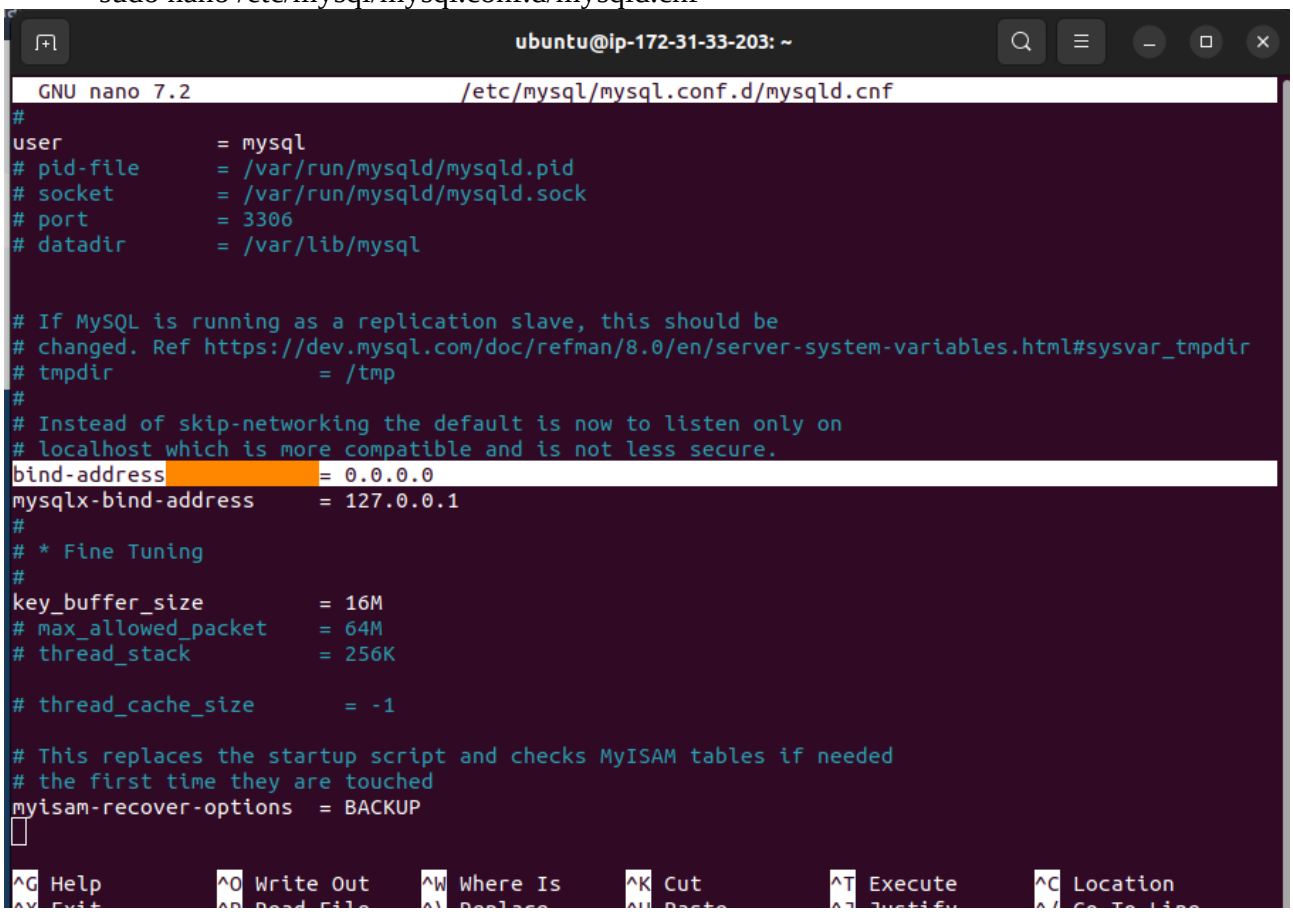
mysql –u root –p

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



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

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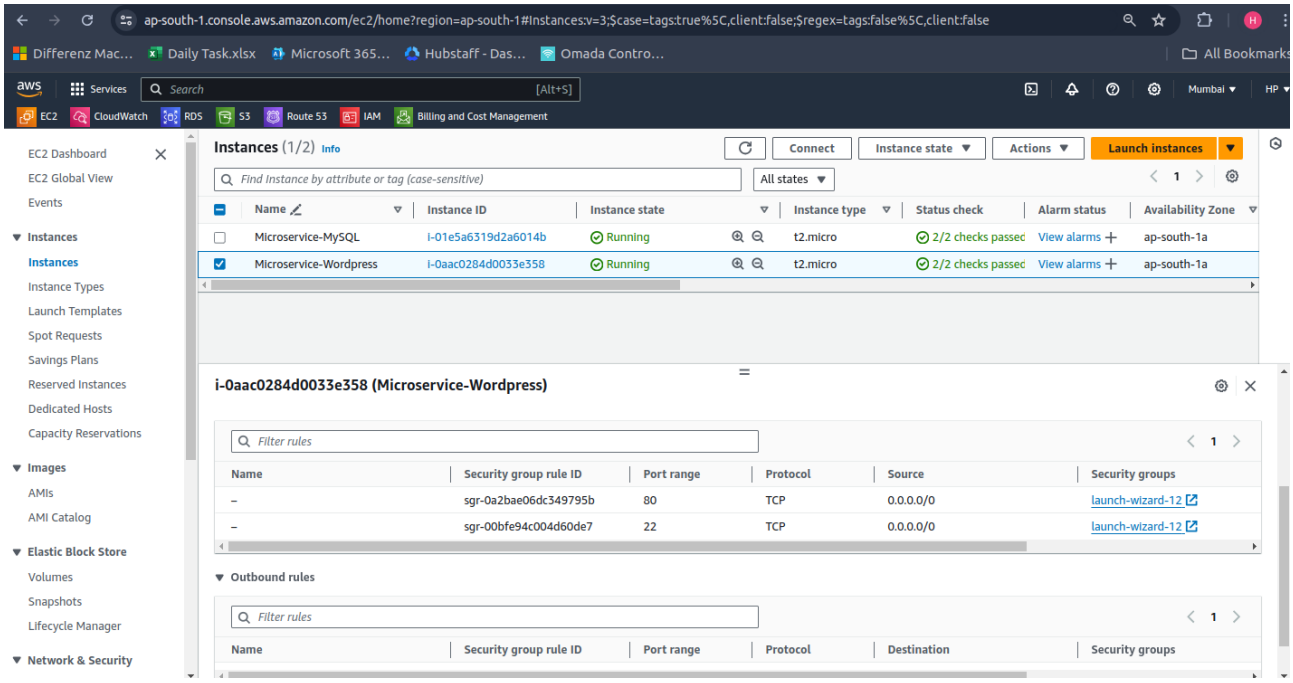
Then Launch wordpress instance & allow port no 80 via security group in inbound rule.



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 depandancy 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 -xzvf 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 Apcahe 2 service once

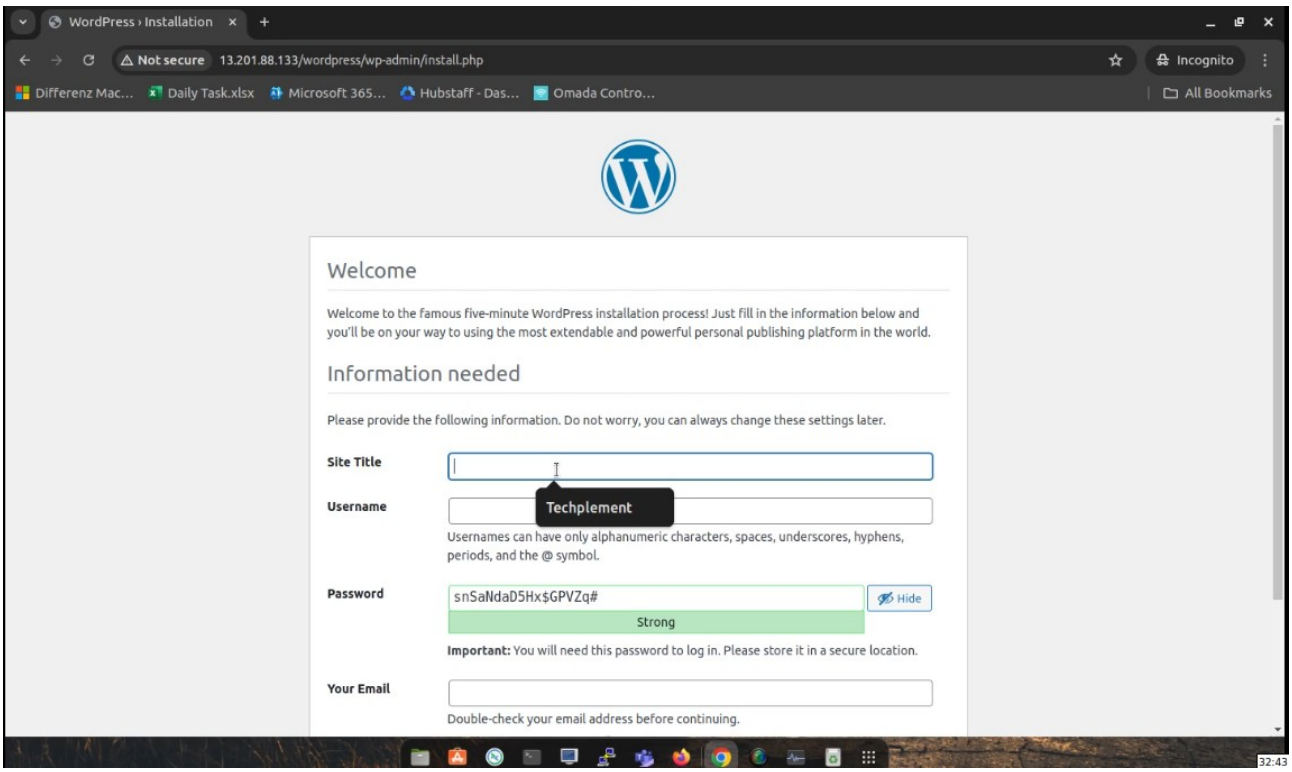
```
systemctl restart apache2
```

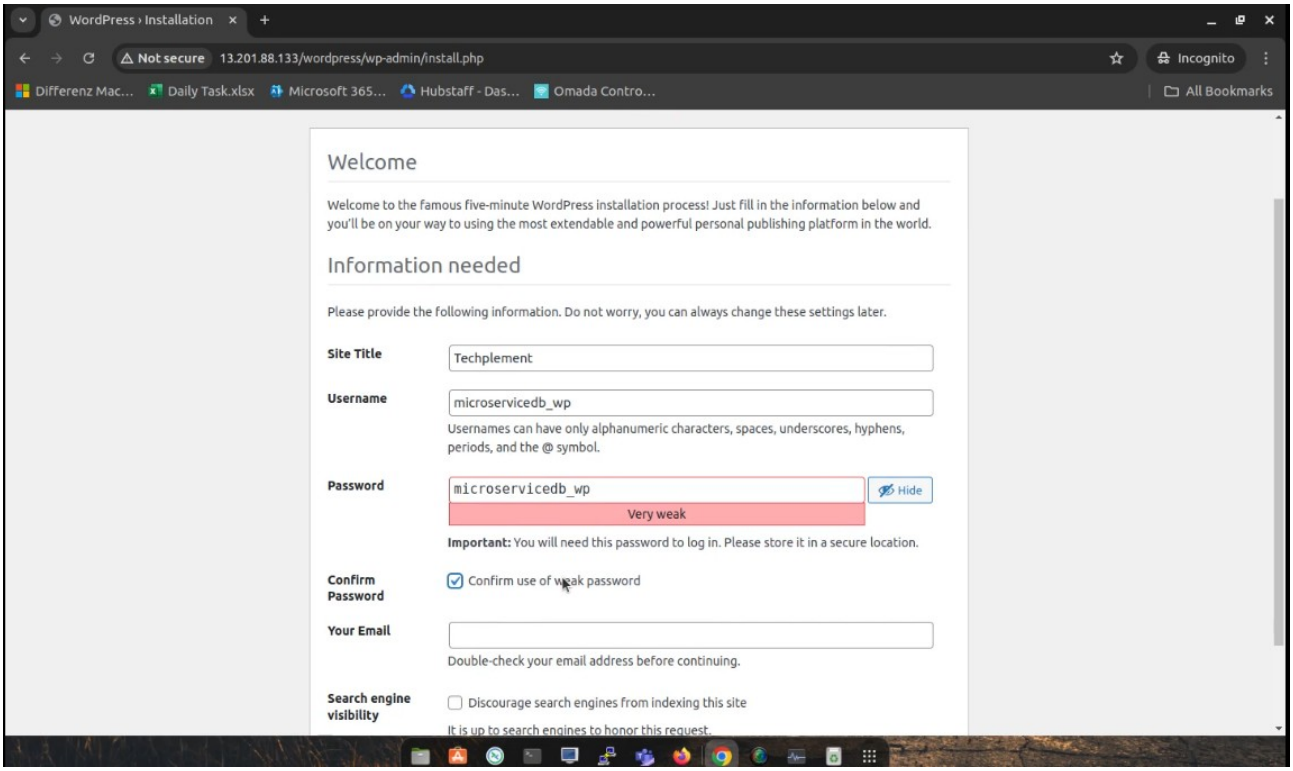
That's it.now access wordpress instance with public ip in host system browser.

for apache webpage http://13.235.69.76/

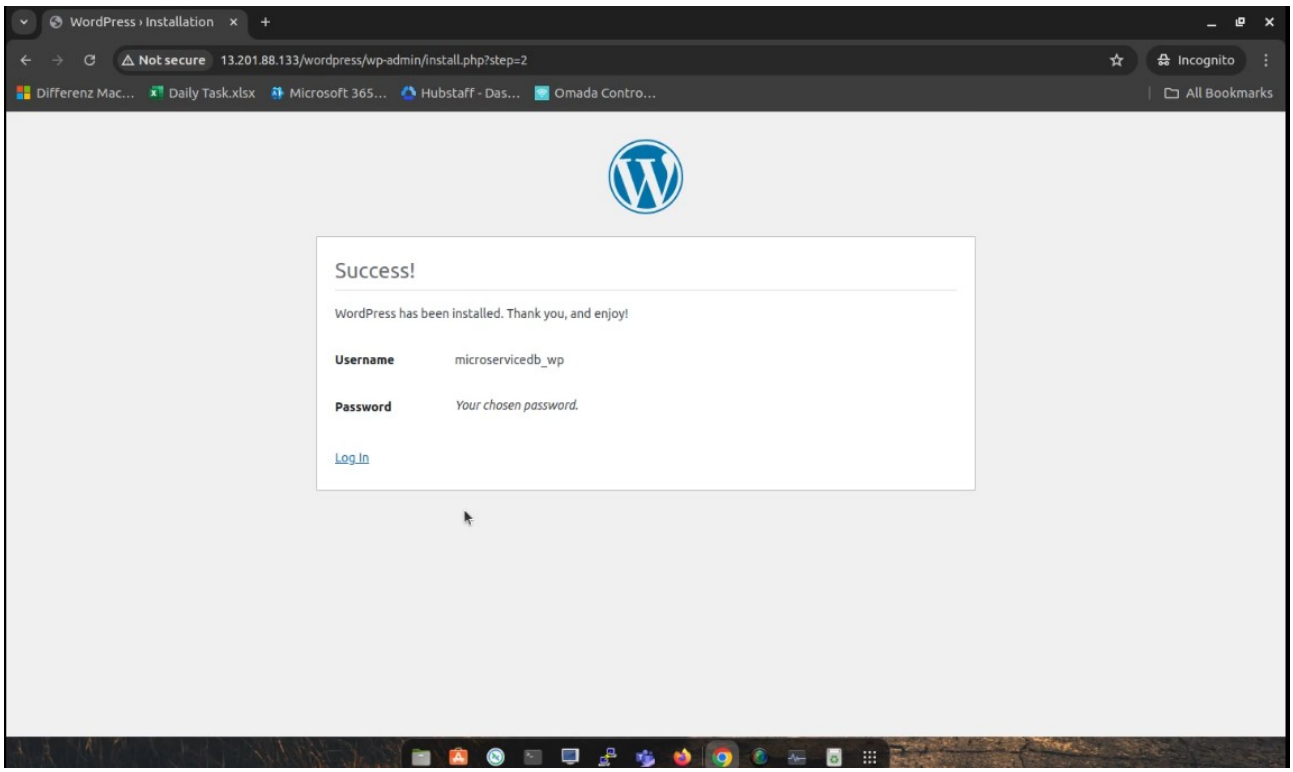
for wordpress webpage http://13.235.69.76/wordpress

After that you can configure wordpress.

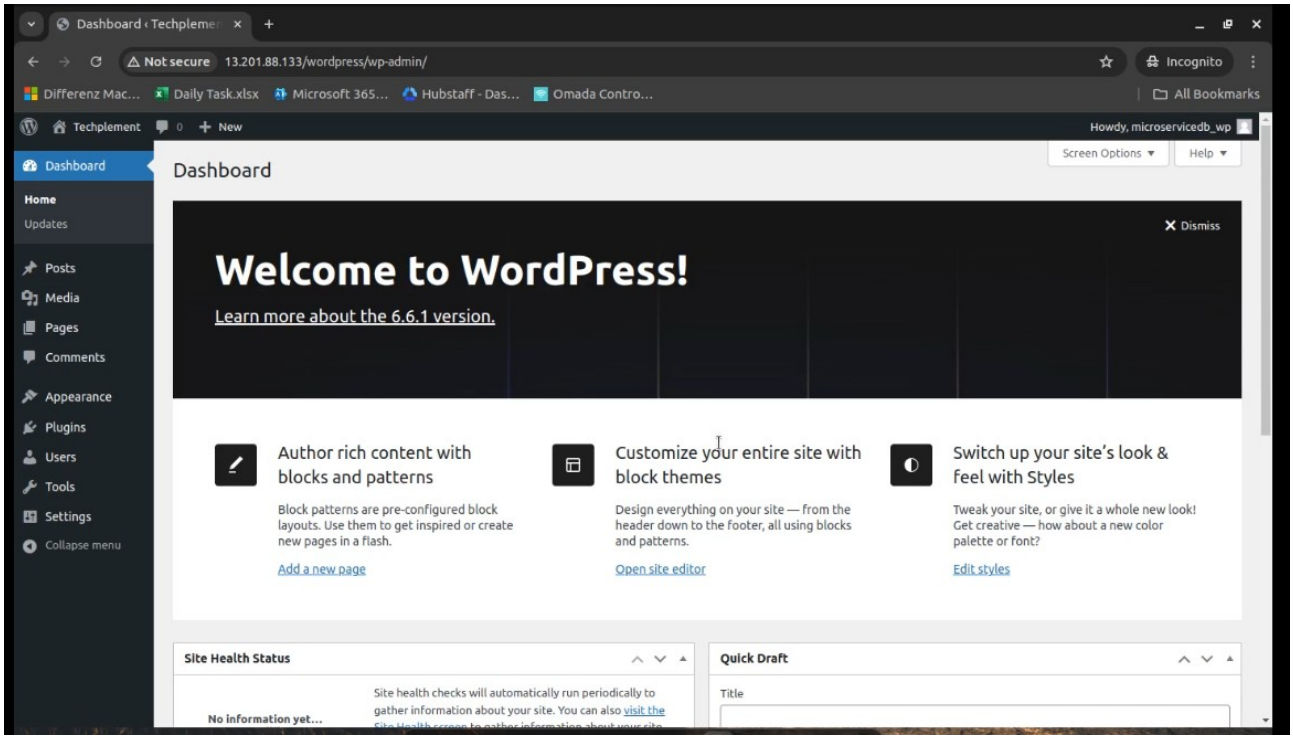


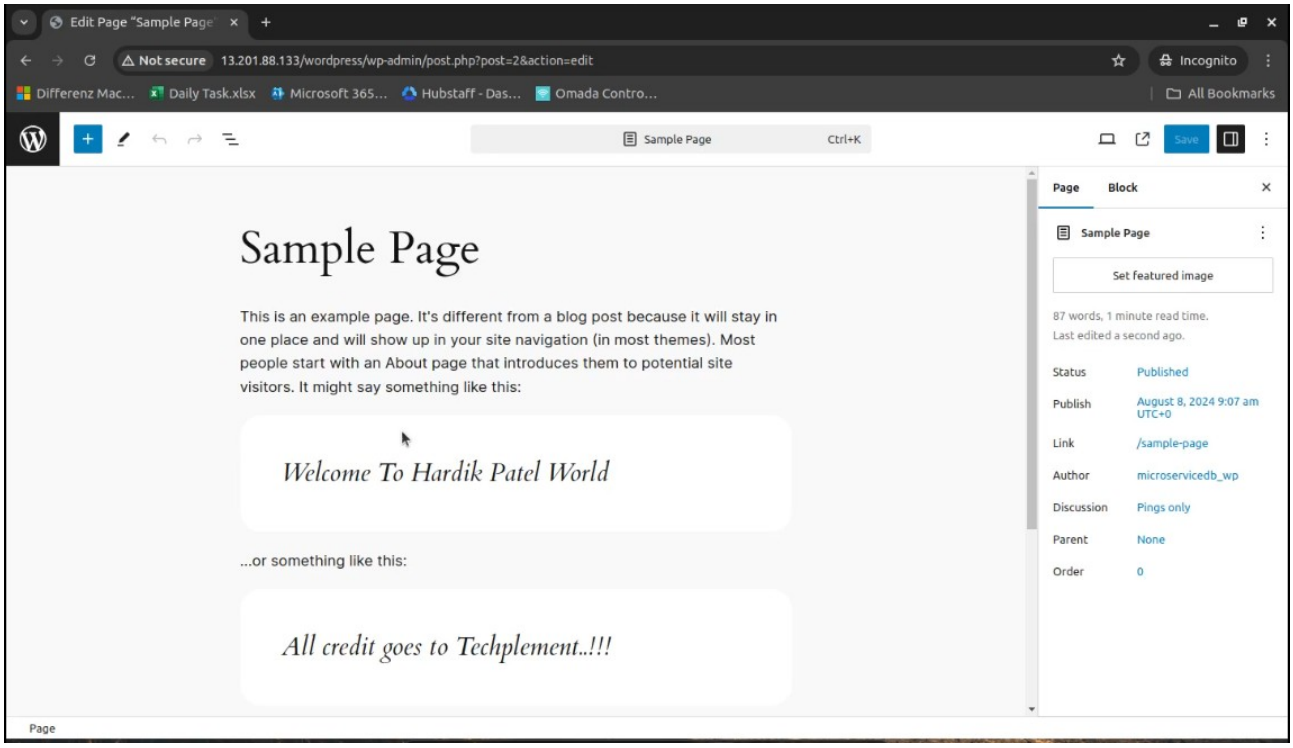


Here please enter database details which is needed.



Now login with username & password.





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

That's it :-)

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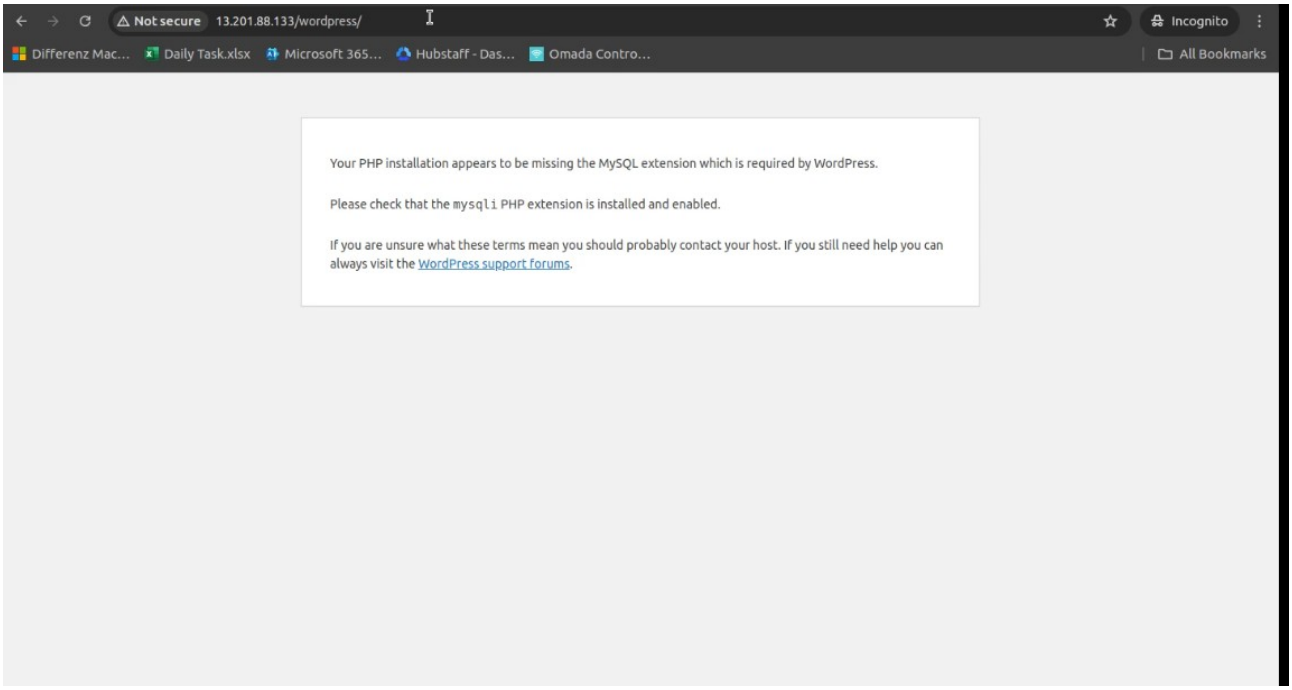
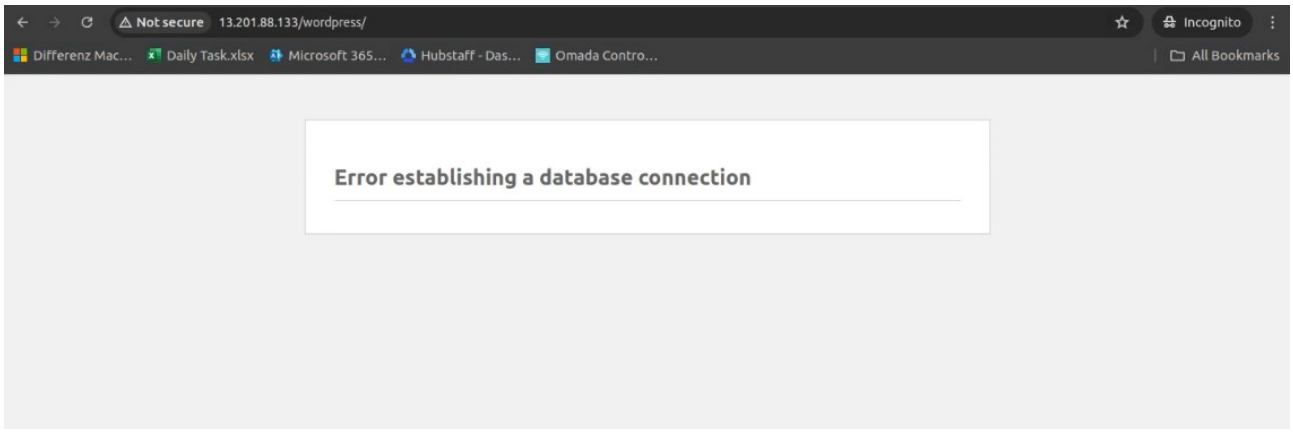
Here I faced issue in access wordpress page due to MySQL extension was missing.



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

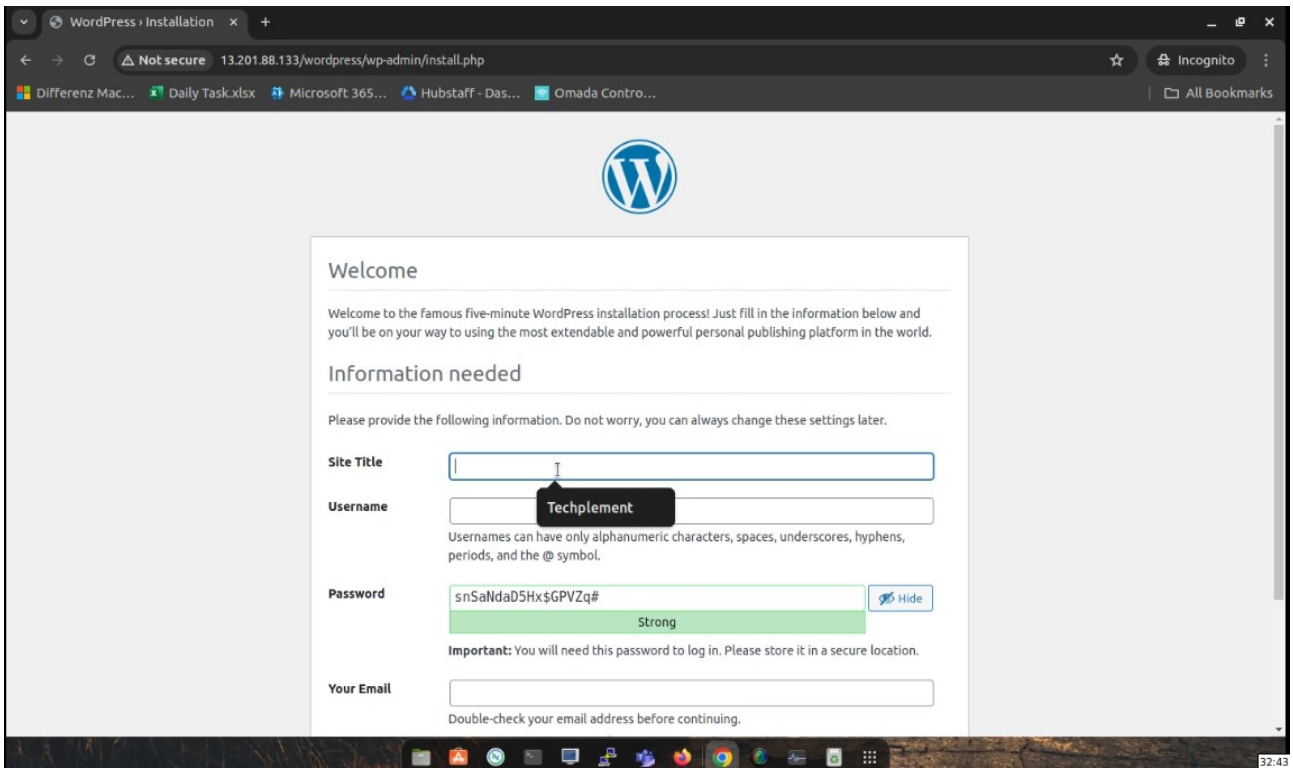
```
sudo apt-get install php8.3-mysql
sudo apt-get install php8.3-mbstring
sudo systemctl restart apache2
```

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 deatils 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
Techplement
Username
Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.
Password
snSaNdaD5Hx$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