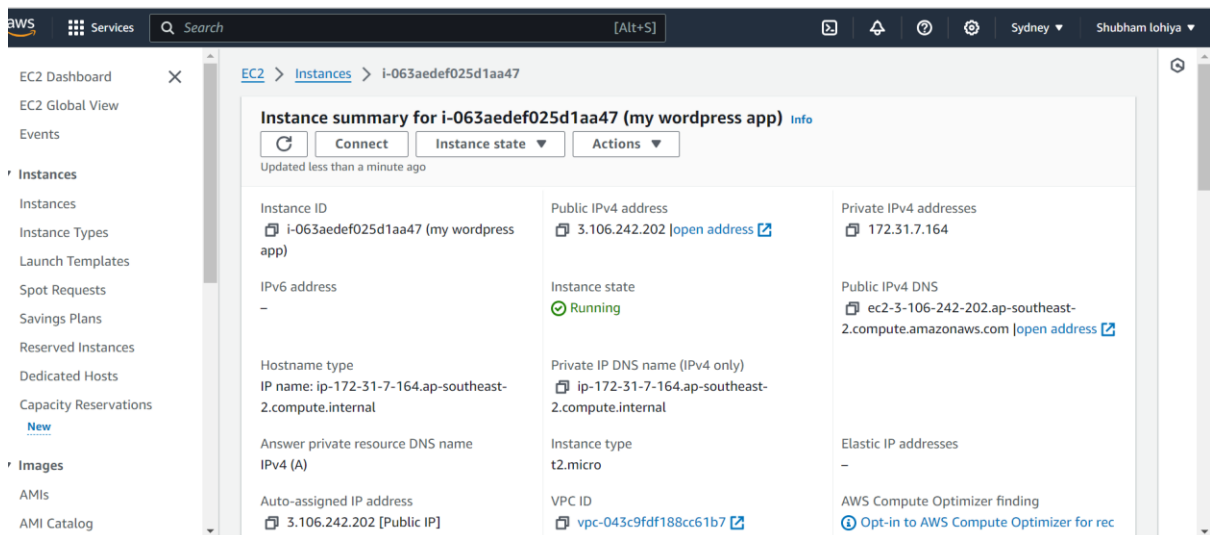
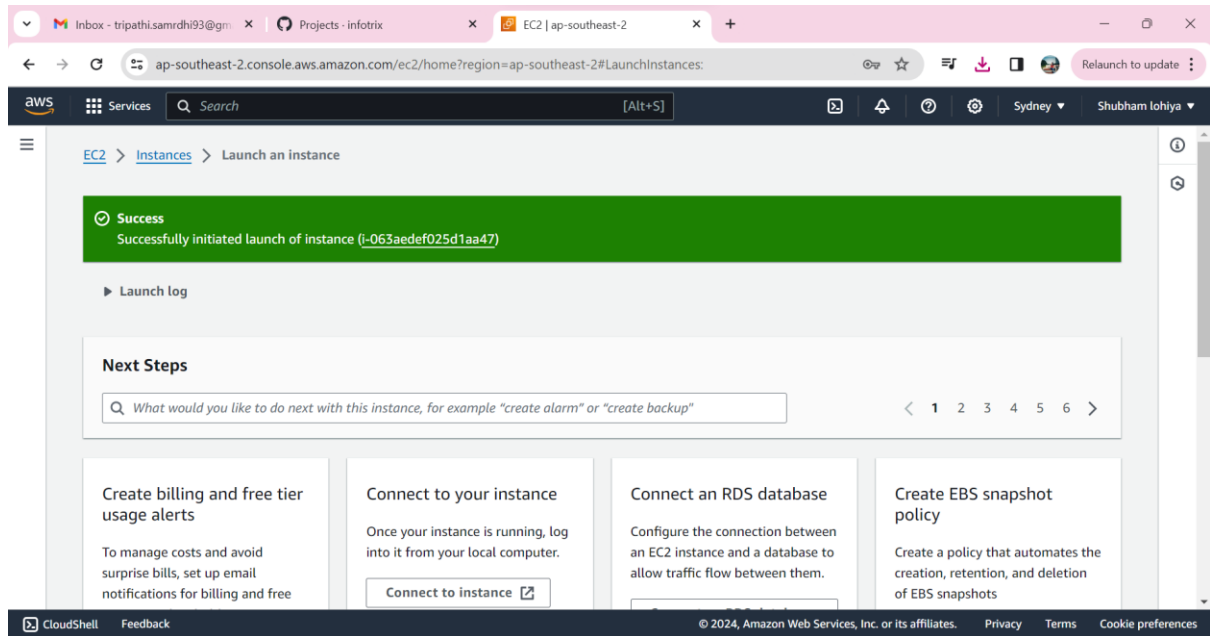


DEPLOY APPLICATION IN MONOLITHIC

TASK- For monolithic create EC2 instance and deploy wordpress and MYSQL on the same instances

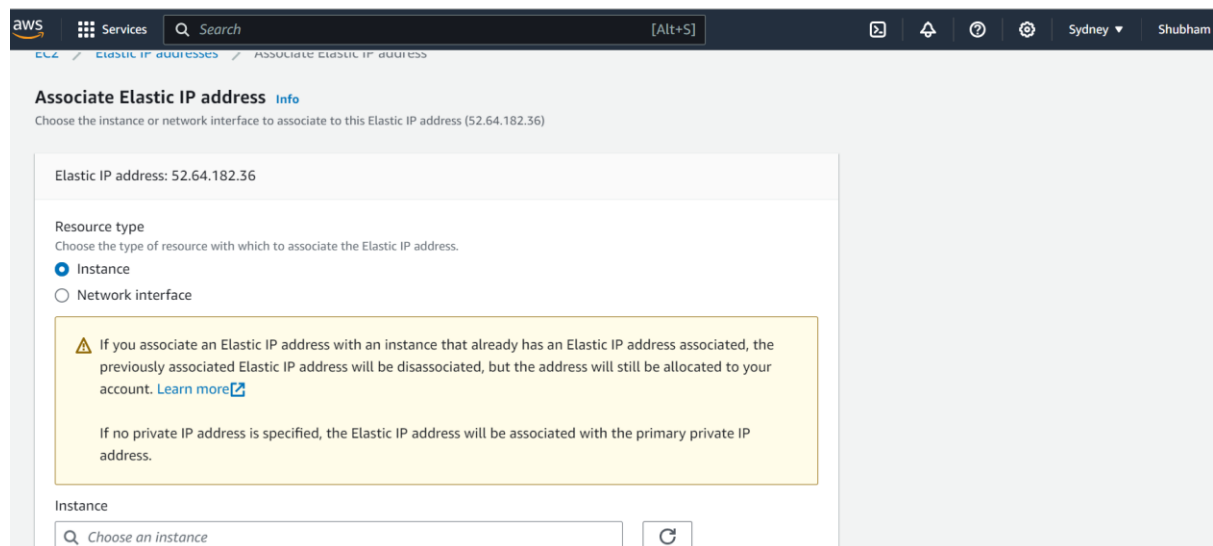
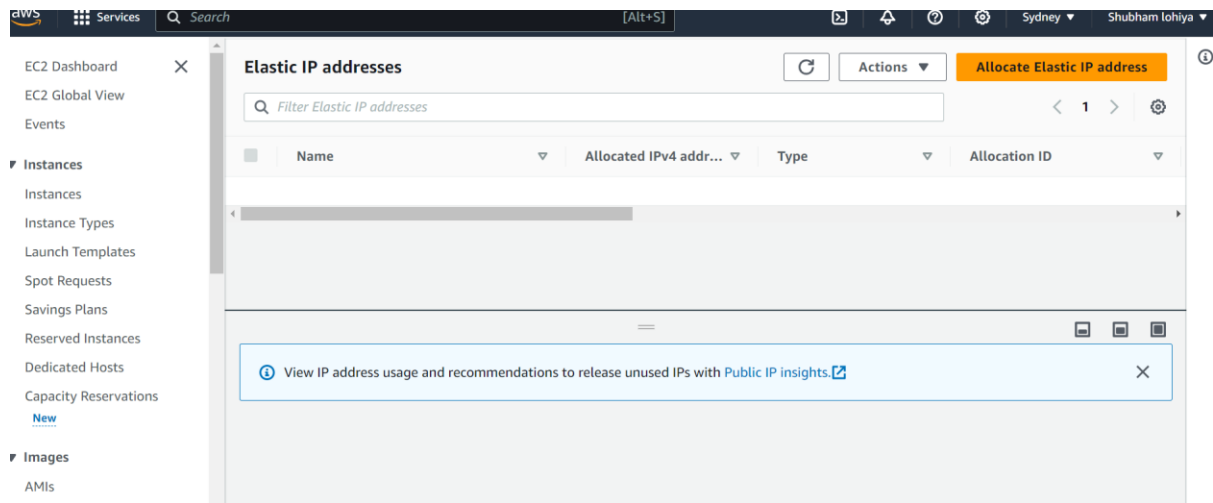
1.Create new instances

OS – ubuntu

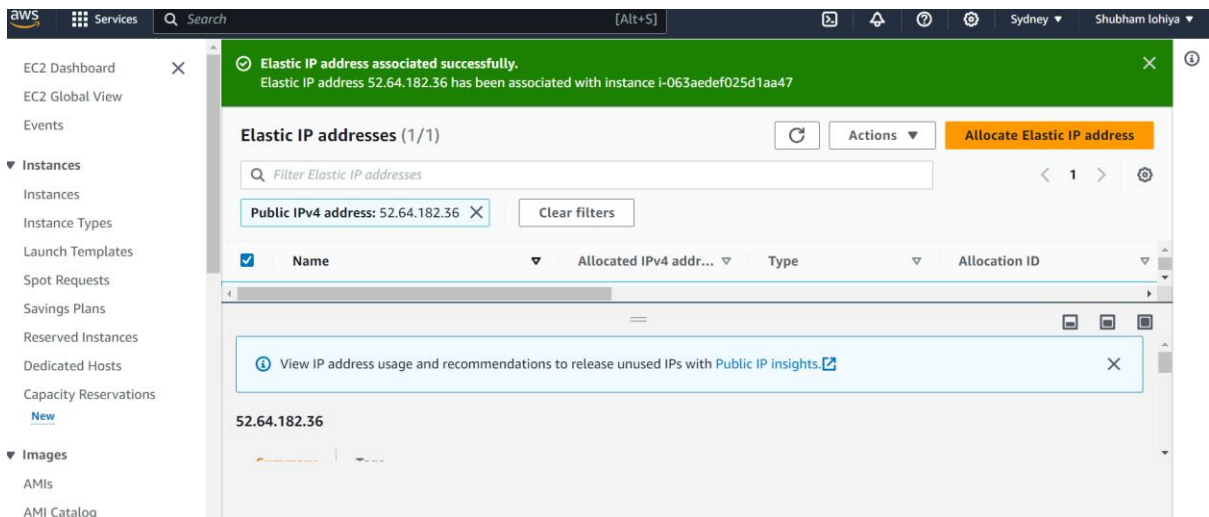


2.-Need to create Elastic IP for static ID address

52.64.182.36



Elastic IP address 52.64.182.36 has been associated with instance i-063aedef025d1aa47



Now connect with the putty

3. Now install apache2

Install Apache server on

Ubuntu

Sudo apt install apache2

```
ubuntu@ip-172-31-7-164: ~
Setting up apache2-data (2.4.52-lubuntu4.7) ...
Setting up mailcap (3.70+nmulubuntu1) ...
Setting up libaprutil1:amd64 (1.6.1-5ubuntu4.22.04.2) ...
Setting up mime-support (3.66) ...
Setting up libaprutil1-ldap:amd64 (1.6.1-5ubuntu4.22.04.2) ...
Setting up libaprutil1-dbd-sqlite3:amd64 (1.6.1-5ubuntu4.22.04.2) ...
Setting up apache2-utils (2.4.52-lubuntu4.7) ...
Setting up apache2-bin (2.4.52-lubuntu4.7) ...
Setting up apache2 (2.4.52-lubuntu4.7) ...
Enabling module mpm_event.
Enabling module authz_core.
Enabling module authz_host.
Enabling module authn_core.
Enabling module auth_basic.
Enabling module access_compat.
Enabling module authn_file.
Enabling module authz_user.
Enabling module alias.
Enabling module dir.
Enabling module autoindex.
Enabling module env.
Enabling module mime.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vmhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.
Processing triggers for ufw (0.36.1-4ubuntu0.1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.4) ...
Canning processes... [=====]
```



```
ubuntu@ip-172-31-7-164: ~  
Creating config file /etc/php/8.1/mods-available/mysqlnd.ini with new version  
Creating config file /etc/php/8.1/mods-available/mysql.ini with new version  
Creating config file /etc/php/8.1/mods-available/pdo_mysql.ini with new version  
Setting up php8.1-readline (8.1.2-1ubuntu2.14) ...  
Creating config file /etc/php/8.1/mods-available/readline.ini with new version  
Setting up php8.1-opcache (8.1.2-1ubuntu2.14) ...  
Creating config file /etc/php/8.1/mods-available/opcache.ini with new version  
Setting up php-mysql (2:8.1+92ubuntu1) ...  
Setting up php8.1-cli (8.1.2-1ubuntu2.14) ...  
update-alternatives: using /usr/bin/php8.1 to provide /usr/bin/php (php) in auto mode  
update-alternatives: using /usr/bin/phar8.1 to provide /usr/bin/phar (phar) in auto mode  
update-alternatives: using /usr/bin/phar.phar8.1 to provide /usr/bin/phar.phar (phar.phar) in auto mode  
Creating config file /etc/php/8.1/cli/php.ini with new version  
Setting up libapache2-mod-php8.1 (8.1.2-1ubuntu2.14) ...  
Creating config file /etc/php/8.1/apache2/php.ini with new version  
Module mpm_event disabled.  
Enabling module mpm_prefork.  
apache2_switch_mpm Switch to prefork  
apache2_invoke: Enable module php8.1  
Setting up php8.1 (8.1.2-1ubuntu2.14) ...  
Setting up libapache2-mod-php (2:8.1+92ubuntu1) ...  
Setting up php (2:8.1+92ubuntu1) ...  
Processing triggers for man-db (2.10.2-1) ...  
Processing triggers for php8.1-cli (8.1.2-1ubuntu2.14) ...  
Processing triggers for libapache2-mod-php8.1 (8.1.2-1ubuntu2.14) ...  
Scanning processes...  
Scanning linux images...  
  
Running kernel seems to be up-to-date.  
  
No services need to be restarted.  
  
No containers need to be restarted.  
  
No user sessions are running outdated binaries.  
  
No VM guests are running outdated hypervisor (qemu) binaries on this host.  
ubuntu@ip-172-31-7-164:~$
```

5.- Now install mysql for database

Sudo apt install mysql-server

```
ubuntu@ip-172-31-7-164:~$  
Reading /usr/share/mecab/dic/ipadic/Conjunction.csv ... 171  
Reading /usr/share/mecab/dic/ipadic/Filler.csv ... 19  
Reading /usr/share/mecab/dic/ipadic/Auxil.csv ... 199  
Reading /usr/share/mecab/dic/ipadic/Postp-col.csv ... 91  
Reading /usr/share/mecab/dic/ipadic/Symbol.csv ... 208  
Reading /usr/share/mecab/dic/ipadic/Adj.csv ... 27210  
Reading /usr/share/mecab/dic/ipadic/Noun.others.csv ... 151  
Reading /usr/share/mecab/dic/ipadic/Noun.name.csv ... 34202  
Reading /usr/share/mecab/dic/ipadic/Noun.org.csv ... 16668  
Reading /usr/share/mecab/dic/ipadic/Noun.proper.csv ... 27328  
Reading /usr/share/mecab/dic/ipadic/Noun.adverbial.csv ... 795  
emitting double-array: 100% |#####|  
Reading /usr/share/mecab/dic/ipadic/matrix.def ... 1316x1316  
emitting matrix : 100% |#####|  
  
done!  
update-alternatives: using /var/lib/mecab/dic/ipadic-utf8 to provide /var/lib/mecab/dic/debian (mecab-dictionary) in auto mode  
Setting up libhtml-parser-perl:amd64 (3.76-lbuild2) ...  
Setting up libhttp-message-perl (6.36-1) ...  
Setting up mysql-server-8.0 (8.0.35-0ubuntu0.22.04.1) ...  
update-alternatives: using /etc/mysql/mysql.cnf to provide /etc/mysql/my.cnf (my.cnf) in auto mode  
Renaming removed key buffer and myisam-recover options (if present)  
mysqld will log errors to /var/log/mysql/error.log  
mysqld is running as pid 10162  
Created symlink /etc/systemd/system/multi-user.target.wants/mysql.service → /lib/systemd/system/mysql.service.  
Setting up libcgl-pm-perl (4.54-1) ...  
Setting up libhtml-template-perl (2.97-1.1) ...  
Setting up mysql-server (8.0.35-0ubuntu0.22.04.1) ...  
Setting up libcgl-fast-perl (1:2.15-1) ...  
Processing triggers for man-db (2.10.2-1) ...  
Processing triggers for libc-bin (2.35-0ubuntu3.4) ...  
Scanning processes...  
Scanning linux images...  
  
Running kernel seems to be up-to-date.  
  
No services need to be restarted.  
  
No containers need to be restarted.  
  
No user sessions are running outdated binaries.  
  
No VM guests are running outdated hypervisor (qemu) binaries on this host.  
ubuntu@ip-172-31-7-164:~$
```

6.- Now logging mysql for changing the password

Sudo mysql -u root

7. Change authentication plugin to mysql_native_password (change the password to something strong)

8. Create a new database user for wordpress (change the password to something strong)

9.CREATE USER user@localhost IDENTIFIED BY password Create a database for wordpress

10.CREATE DATABASE for wordpress

11. Grant all privileges on the database 'name' to the newly created user

```
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-7-164:~$ ^C
ubuntu@ip-172-31-7-164:~$ sudo mysql -u root
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.35-0ubuntu0.22.04.1 (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'
->
-> \c
mysql> ALTER USER 'root'@localhost IDENTIFIED WITH mysql_native_password By 'sam@12345';
Query OK, 0 rows affected (0.01 sec)

mysql> CREATE USER 'wordpress12'@localhost IDENTIFIED BY 'sam@12345';
-> /c
-> '\c'
-> \c
-> \c
-> mysql
-> \c
-> \h
-> ^C
mysql> CREATE USER 'wordpress12'@localhost IDENTIFIED BY 'sam@12345';
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE DATABASE wordpress12;
Query OK, 1 row affected (0.01 sec)

mysql> GRANT ALL PRIVILEGES ON wordpress12.* TO 'wordpress12'@localhost;
Query OK, 0 rows affected (0.00 sec)

mysql>
```

12- Now moving the wordpress to html dic

13. Download wordpress

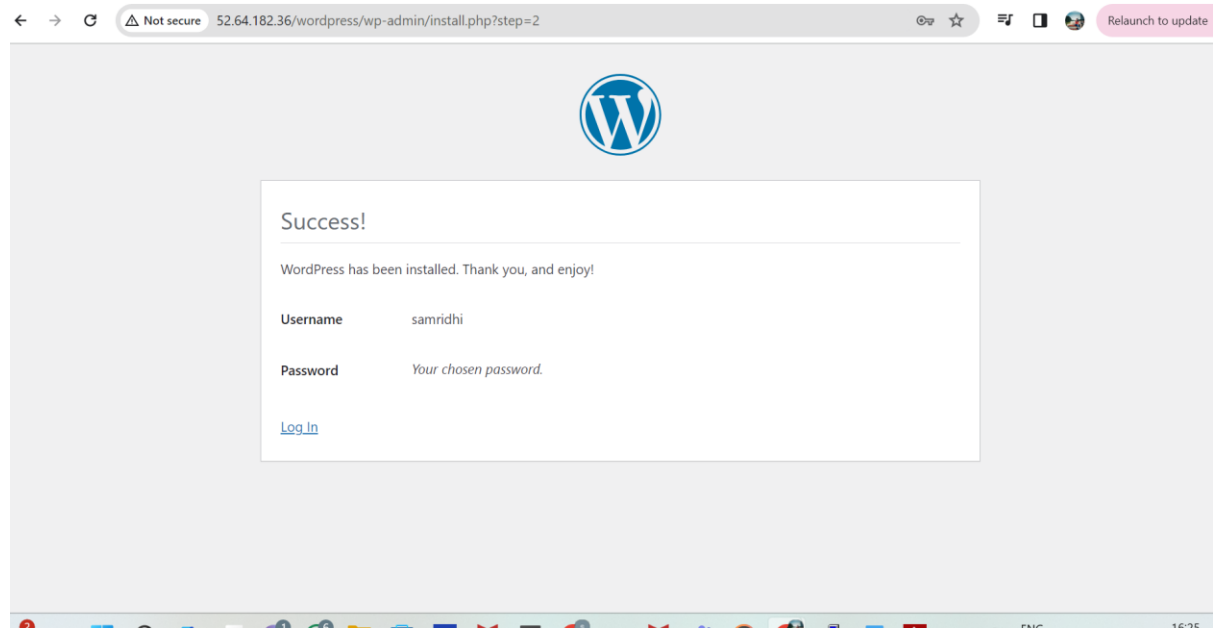
cd /tmp

wget https://wordpress.org/latest.tar.gz

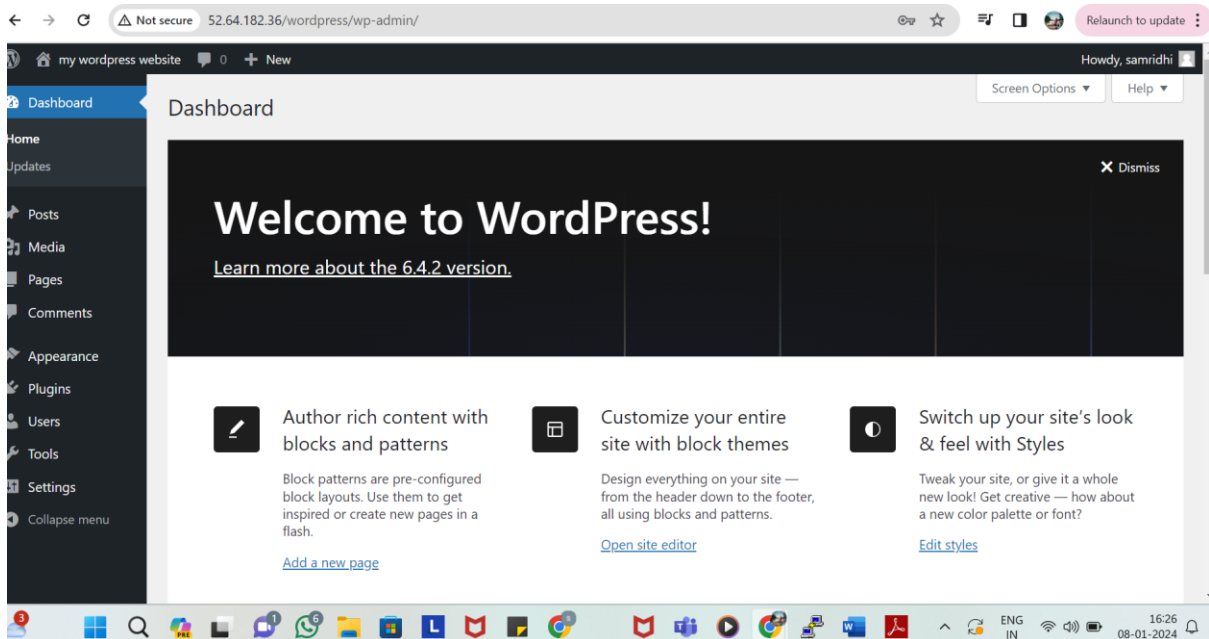
```
wordpress/wp-admin/js/gallery.js
wordpress/wp-admin/js/word-count.js
wordpress/wp-admin/js/accordion.min.js
wordpress/wp-admin/js/inline-edit-post.min.js
wordpress/wp-admin/js/customize-widgets.min.js
wordpress/wp-admin/js/inline-edit-post.js
wordpress/wp-admin/js/updates.js
wordpress/wp-admin/js/media-upload.js
wordpress/wp-admin/js/media.js
wordpress/wp-admin/js/editor-expand.min.js
wordpress/wp-admin/js/media-gallery.min.js
wordpress/wp-admin/js/common.min.js
wordpress/wp-admin/js/tags-box.min.js
wordpress/wp-admin/js/svg-painter.min.js
wordpress/wp-admin/js/custom-background.js
wordpress/wp-admin/js/color-picker.min.js
wordpress/wp-admin/js/auth-app.js
wordpress/wp-admin/js/code-editor.js
wordpress/wp-admin/js/common.js
wordpress/wp-admin/js/set-post-thumbnail.min.js
wordpress/wp-admin/js/postbox.min.js
wordpress/wp-admin/js/color-picker.js
wordpress/wp-admin/js/password-strength-meter.js
wordpress/wp-admin/js/customize-nav-menus.js
wordpress/wp-admin/js/editor-expand.js
wordpress/wp-admin/js/code-editor.min.js
wordpress/wp-admin/js/set-post-thumbnail.js
wordpress/wp-admin/options-permalink.php
wordpress/wp-admin/widgets.php
wordpress/wp-admin/setup-config.php
wordpress/wp-admin/install.php
wordpress/wp-admin/admin-header.php
wordpress/wp-admin/post-new.php
wordpress/wp-admin/themes.php
wordpress/wp-admin/options-reading.php
wordpress/wp-trackback.php
wordpress/wp-comments-post.php
ubuntu@ip-172-31-7-164:/tmp$ sudo mv wordpress/ /var/www/html
ubuntu@ip-172-31-7-164:/tmp$ cd /wordpress
-bash: cd: /wordpress: No such file or directory
ubuntu@ip-172-31-7-164:/tmp$ cd /var/www/html/
ubuntu@ip-172-31-7-164:/var/www/html$ ls
index.html  wordpress
ubuntu@ip-172-31-7-164:/var/www/html$
```

WhatsApp

14. Now my WordPress Logging page showing



15. Welcome to my WordPress page



This is the IP for direct login the page.

<http://52.64.182.36/>

16. Move wordpress folder to apache document root-

```
sudo mv wordpress/ /var/www/html
```

```
ubuntu@ip-172-31-7-164: /etc/apache2/sites-available
# You may want to identity virtual host is used when operating
# configuration (VHost). In the context of virtual hosts, the ServerName
# specifies what hostname must appear in the request's Host: header to
# select this virtual host. For the default virtual host (this file) this
# value is not desirable as it is used as a last resort host regardless.
# However, you must set it for any further virtual host explicitly.
#ServerName www.example.com

ServerAdmin webmaster@localhost
DocumentRoot /var/www/html/wordpress

# Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
# error, crit, alert, emerg.
# It is also possible to configure the loglevel for particular
# modules, e.g.
#LogLevel info ssl:warn

ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined

# For most configuration files from conf-available, which are
# enabled or disabled at a global level, it is possible to
# include a line for only one particular virtual host. For example the
# following line enables the ssl configuration for this host only
# (it has been globally disabled with "sslmodule").
#Include conf-available/ssl.conf

/VirtualHost>

Site: syntax=apache target env=4 status=4 ok used

- INSERT --
```

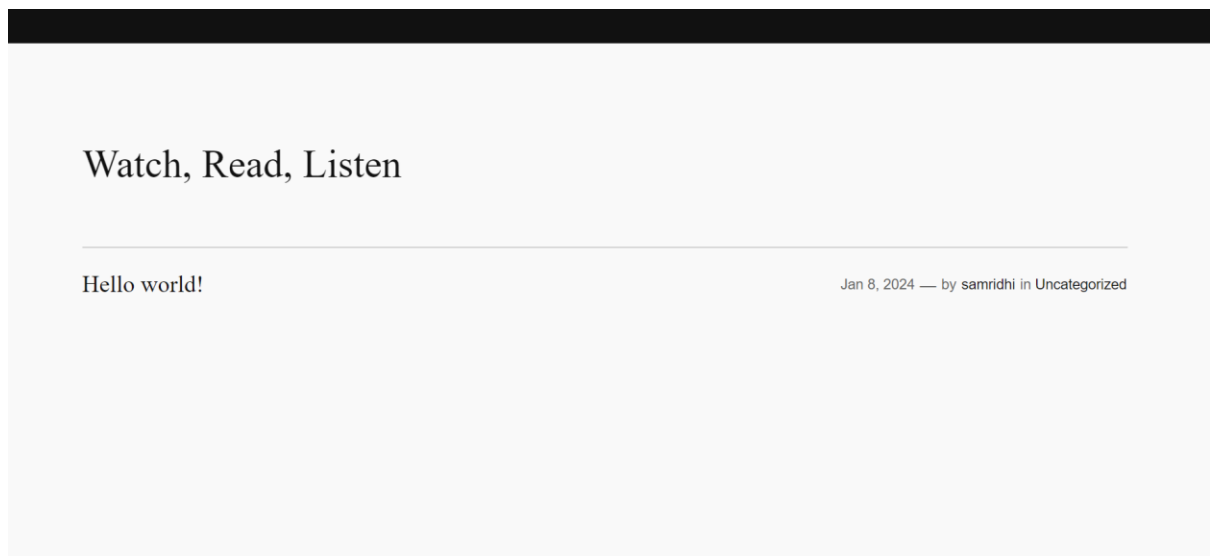
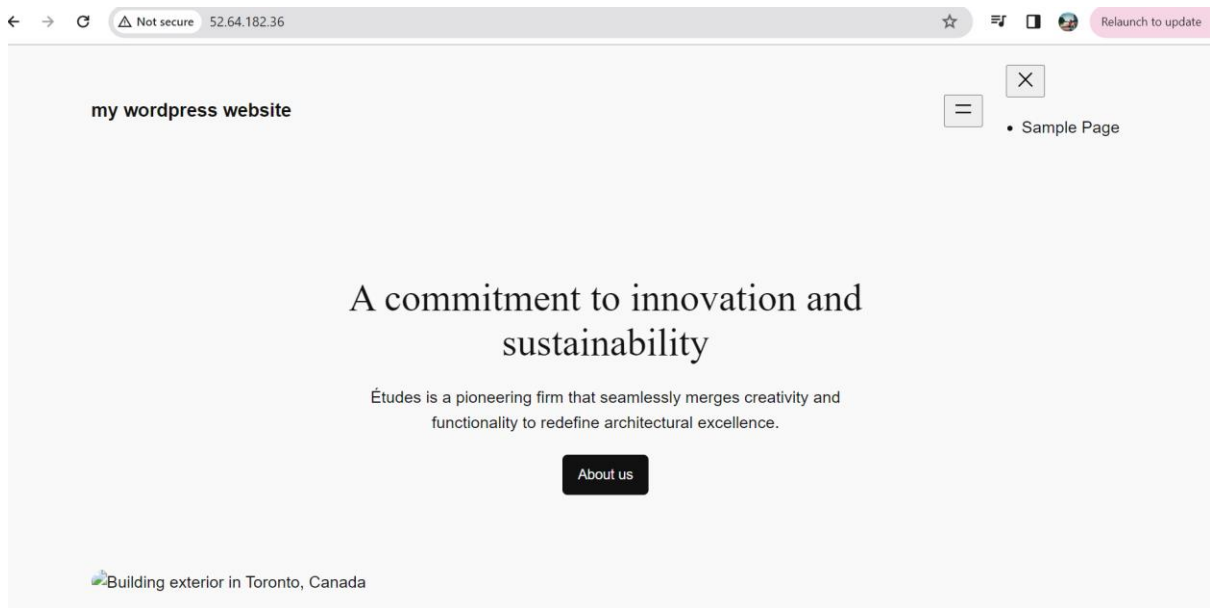

Command to
restart/reload
apache server

- `sudo systemctl restart apache2`

OR

`sudo systemctl reload apache2`

IP address with website-



IP address- 52.64.182.36

Thank you

From samridhi tripathi