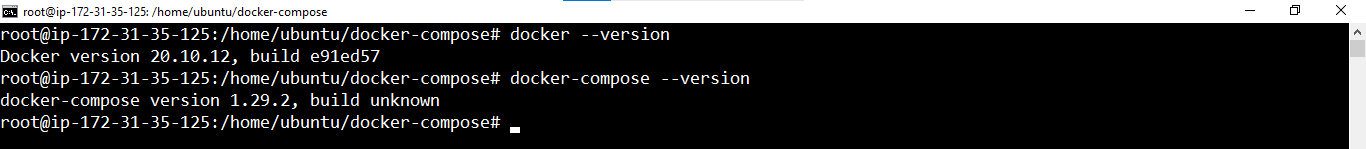
Creating Docker Compose Yml:

Objective : To configure and launch container infrastructure using docker-compose.

The docker-compose yaml consists of 2 images “**wordpress:latest**” and “**mysql:8.0.27**” to start the **Wordpress Blog** with an attached **mysql** instance.

* Installed docker and docker-compose version:



Docker version : 20.10.12

Docker-composer version : 1.29.2

* docker-compose.yaml :

**# defining docker-compose version**

version: "3.0"

**#configuring the services**

services:

db:

**# using mysql image for db**

image: mysql:8.0.27

**# using named volumes to persist data, instead of named volume host volumes can also be specified, else anonymous volumes can also be used**

volumes:

- data\_mysql:/var/lib/mysql

**#using always restart policy, thsi automatically restarts the container provided it is not stopped manually**

restart: always

**# specifying environment variables, generally credentials are specified in separate file, in this case credentials are provided intentionally in docker-compose file for easy understanding by reader**

environment:

- MYSQL\_ROOT\_PASSWORD=rootpassword

- MYSQL\_DATABASE=wordpress

- MYSQL\_USER=priyanshu

- MYSQL\_PASSWORD=wordpressmysql

**#exposing port 3306 and 33060 of mysql container**

expose:

- 3306

- 33060

**# image wordpress**

wordpress:

image: wordpress:latest

**# attaching named volume to wordpress for data persistence, again host volume and anonymous volumes can also be used**

volumes:

- data\_wordpress:/var/www/html

**# connecting port 80 of container to port 80 of host, wordpress willbe now accessible via port 80 of host**

ports:

- 80:80

**# always restart policy**

restart: always

environment:

- WORDPRESS\_DB\_HOST=db

- WORDPRESS\_DB\_USER=priyanshu

- WORDPRESS\_DB\_PASSWORD=wordpressmysql

- WORDPRESS\_DB\_NAME=wordpress

**# specifying the volumes**

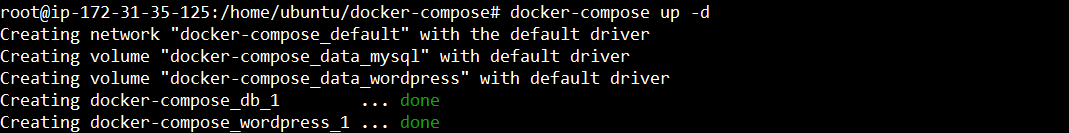
volumes:

data\_mysql:

data\_wordpress:

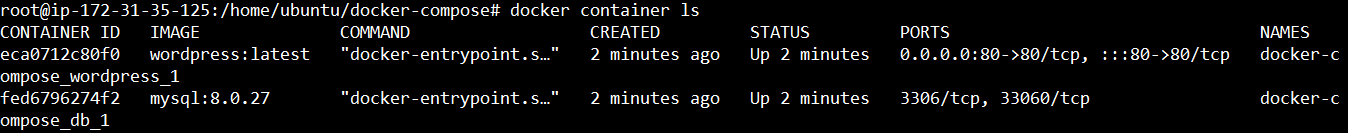
* Running docker-compose in detached mode:

Docker-compose up -d

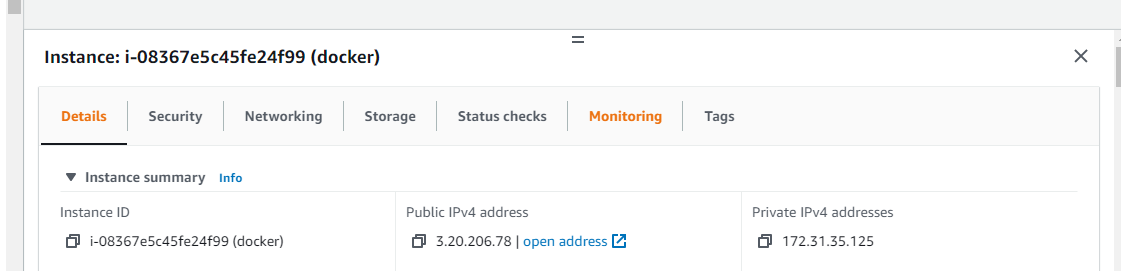


* The containers are now running successfully:

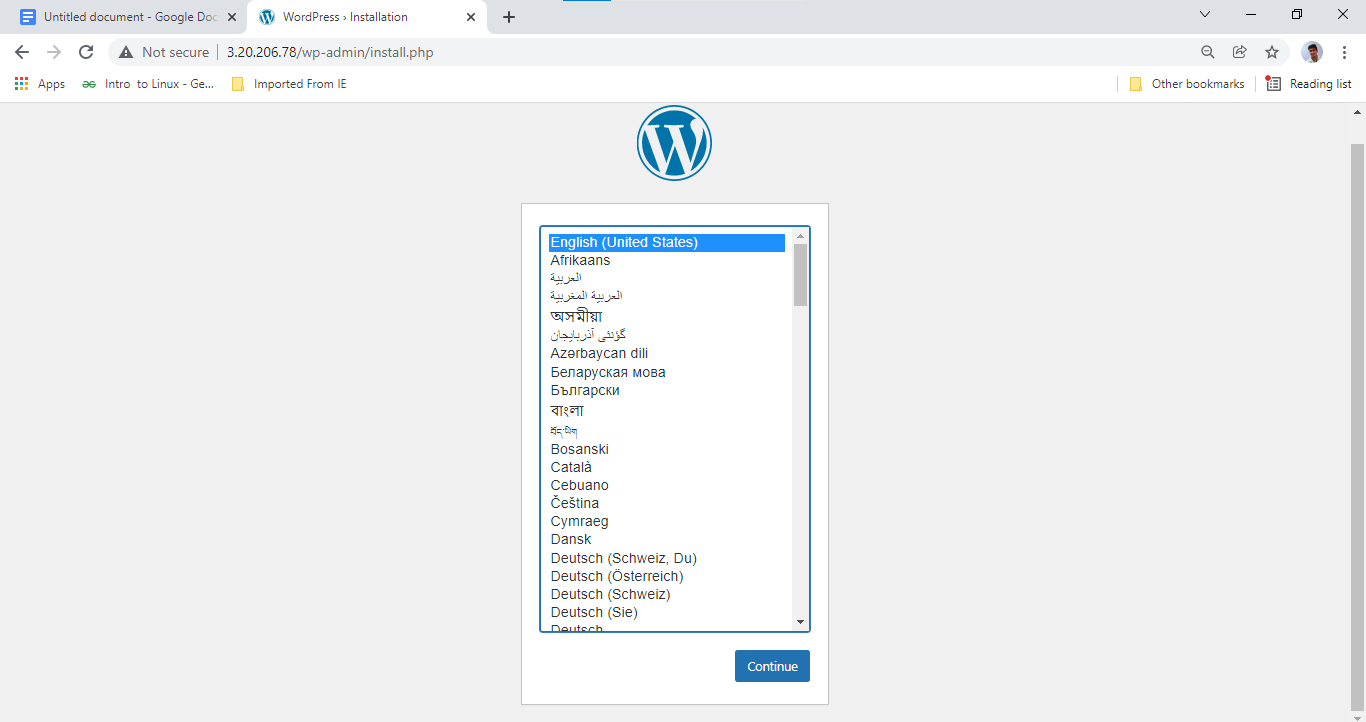
2 containers are namely **docker-compose\_wordpress\_1** and **docker-compose\_db\_1**.



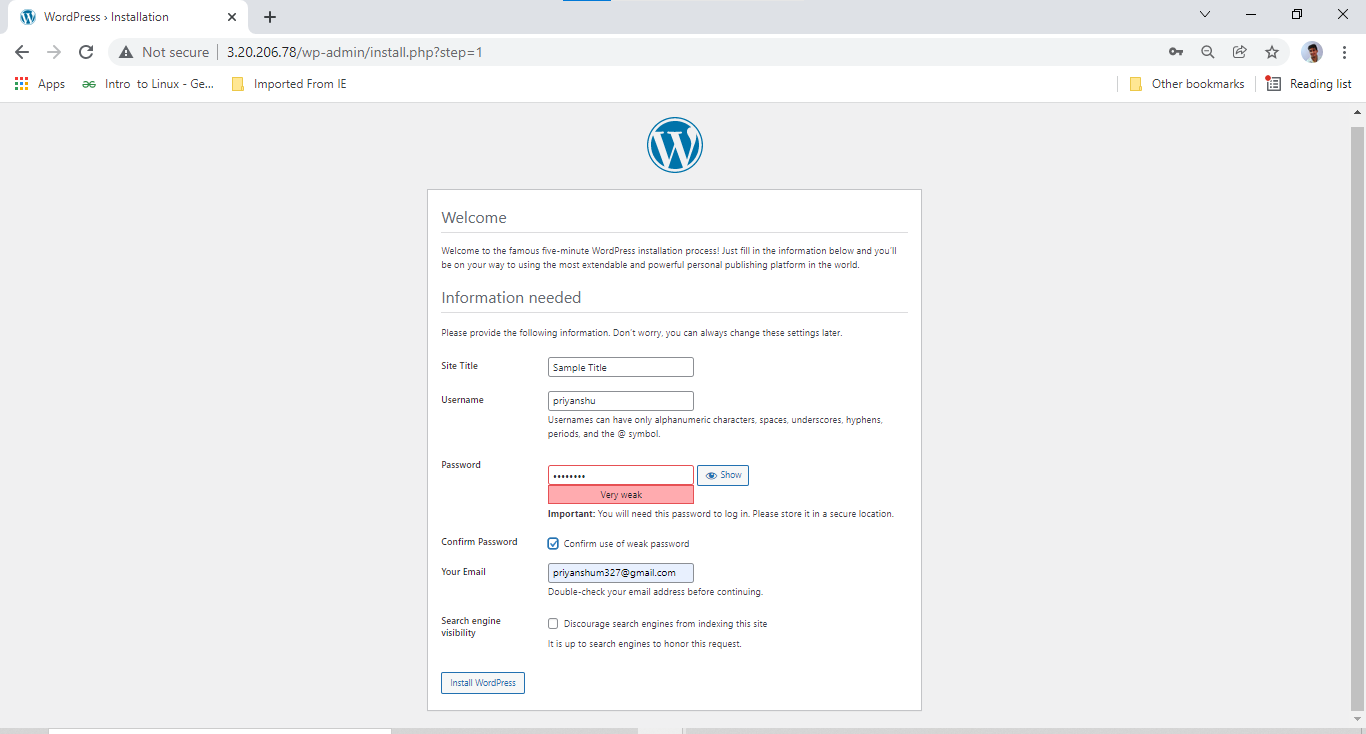
* The Wordpress is now running and accessible on port 80 of host( port 80 of ec2 instance in our case)



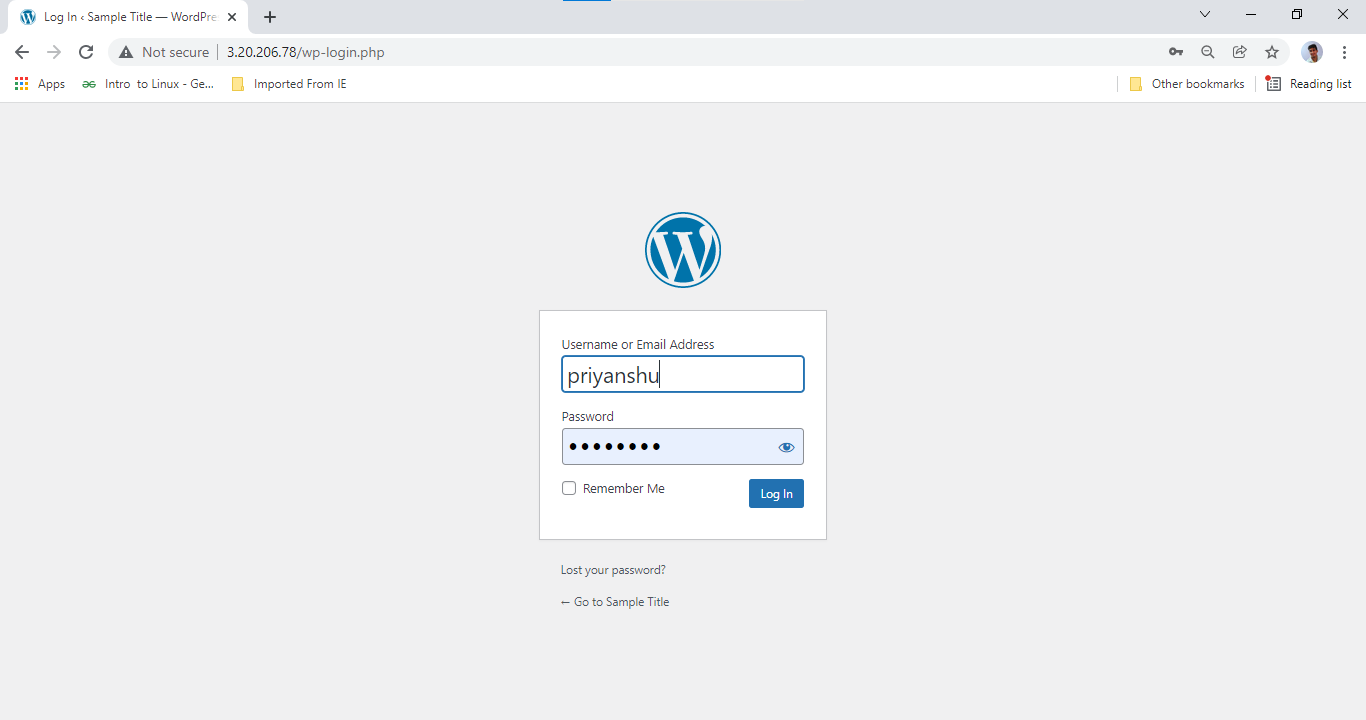
Public ip address : **3.20.206.78**

****

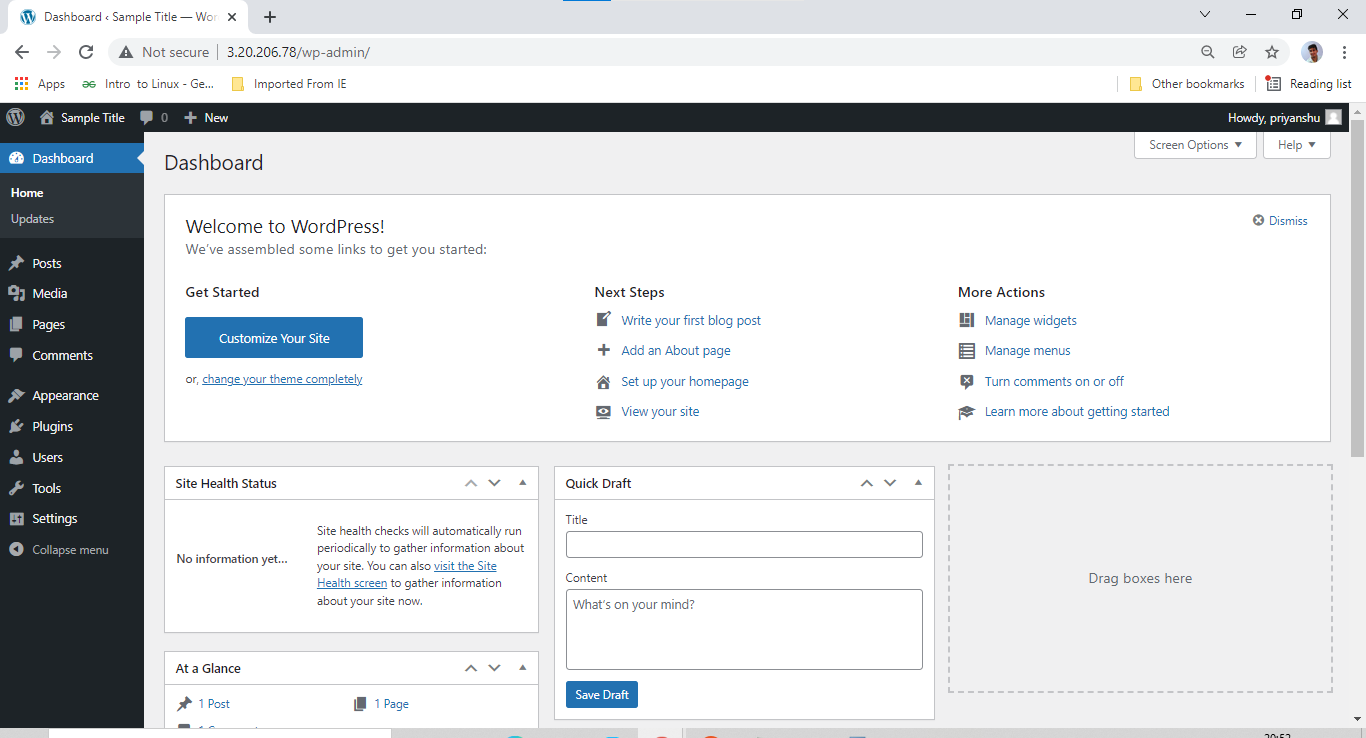
* Completing the Five-Minute installation



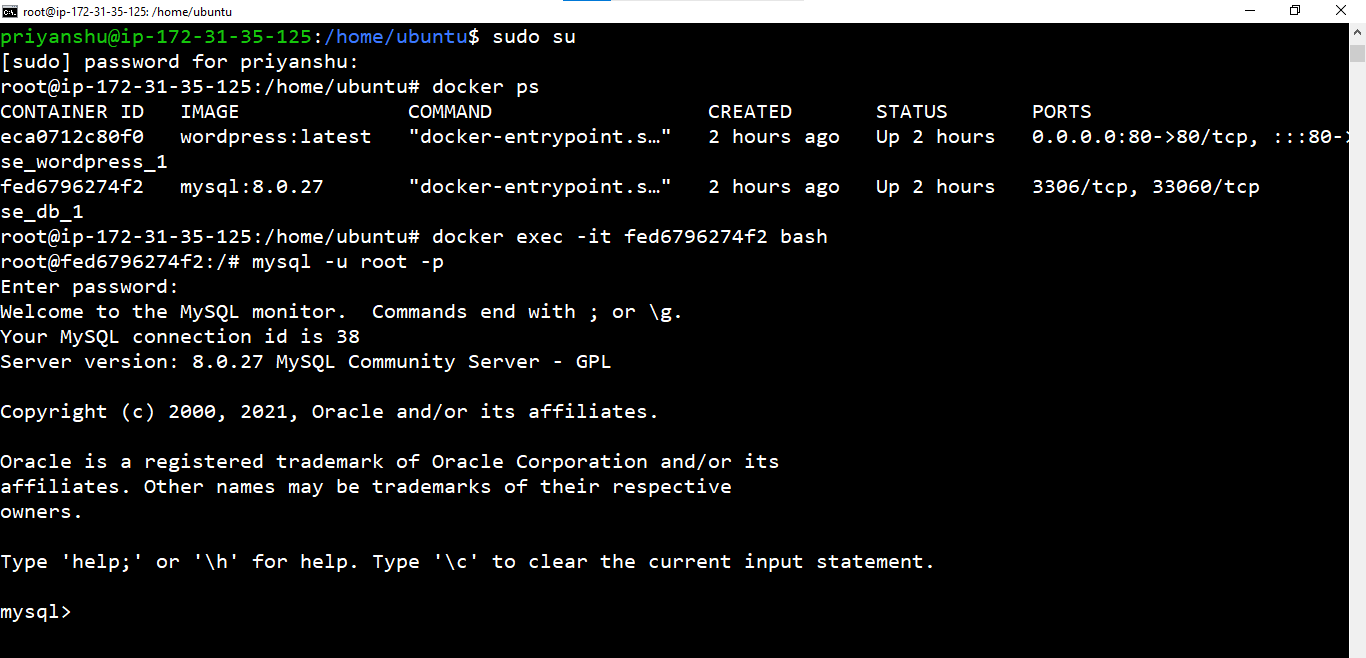
* Logging into Wordpress



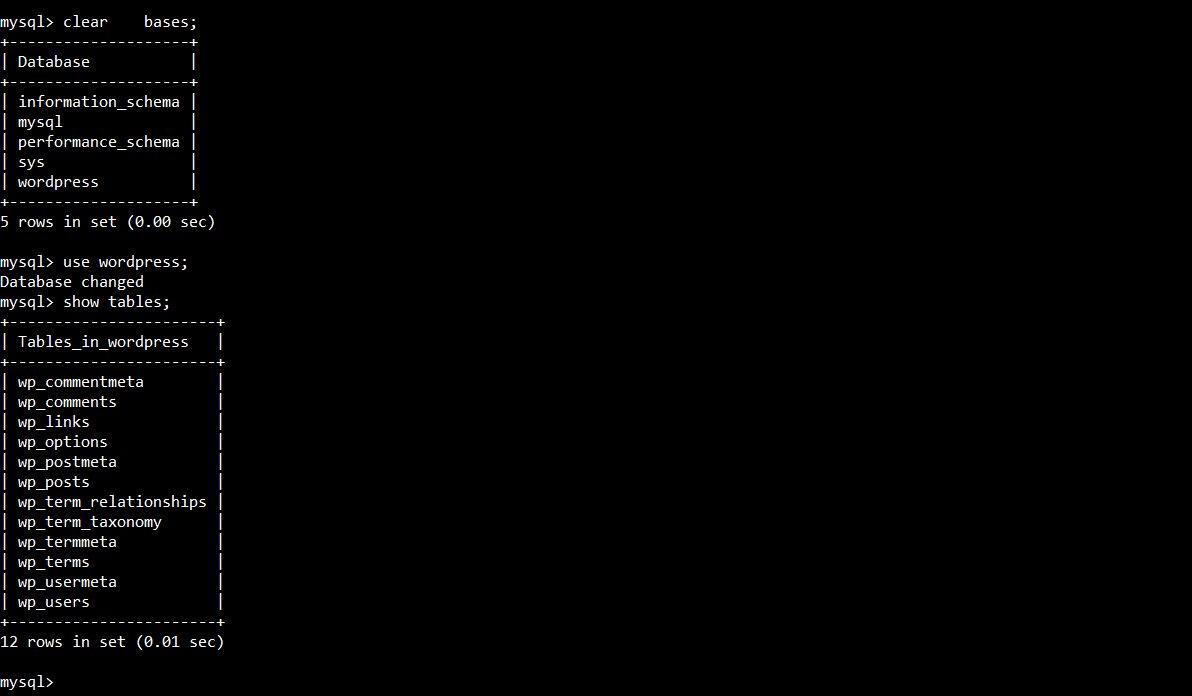
* Wordpress Dashboard



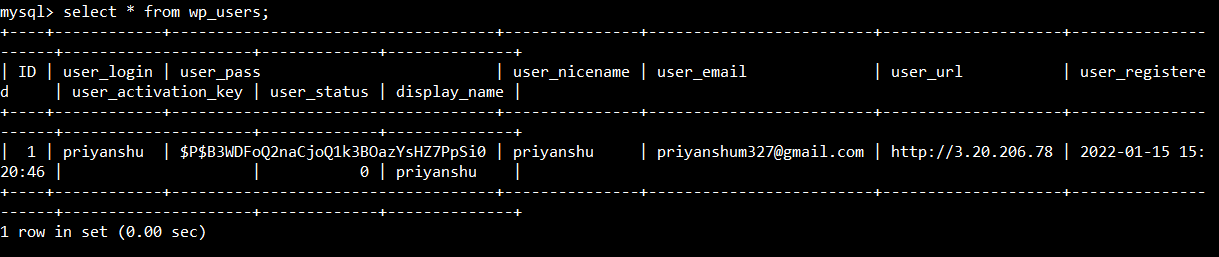
* Logging into mysql in container **docker-compose\_db\_1** to show database “wordpress”



* Show database “wordpress” and tables within the database



* Selecting table **wp\_users** to view all users, as seen “**priyanshu**” user is registered.



* The Wordpress can now be created by visiting [http://**3.20.206.78:80**](http://3.20.206.78:80)