I used Powershell for this project

I used the syntax – cd downloads, followed by copying the ssh key+publicIPaddress from AWS instance and pasting into the powershell.

Sudo apt update was used to update the server, followed by sudo install nginx to install nginx.

I did not bother to use sudo systemctl status nginx, I just proceeded with going on the browser to test if my Nginx server can respond to requests from the Internet. I put in the public ipaddress of the EC2 instance and port 80. I was able to confirm that it was responding to requests.

EC2instancePublicipddress:80

I used the sudo command to install mysql (RDS) and was also able to log into mysql with the command sudo mysql.

My mysql connection id was confirmed.

I ran the security script to secure my database, the command is below

ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql\_native\_password BY 'PassWord.1';

I then exited mysql using the ‘exit’ command.

I followed this by installing PHP to process code and generate dynamic content for the web server by using the command

Sudo apt install-fpm php-mysql

Going forward, I configured nging to use the PHP processor by

1. Creating a folder for the code using mkdir command
2. Assigning an owner for the folder/directory by using the chown command
3. Creating a configuration file using nano editor as against ‘vi’ command that was used in the LAMP stack set up
4. Nginx was reloaded
5. Port 80 was configured

The website was successfully deployed in the web browser following these steps.

Finally, I tested PHP with nginx by creating a test php file using nano command and inputting a valid PHP code that will return information about my server.

When I refresh the website in the browser, I successfully deployed the web page containing detailed information about my server