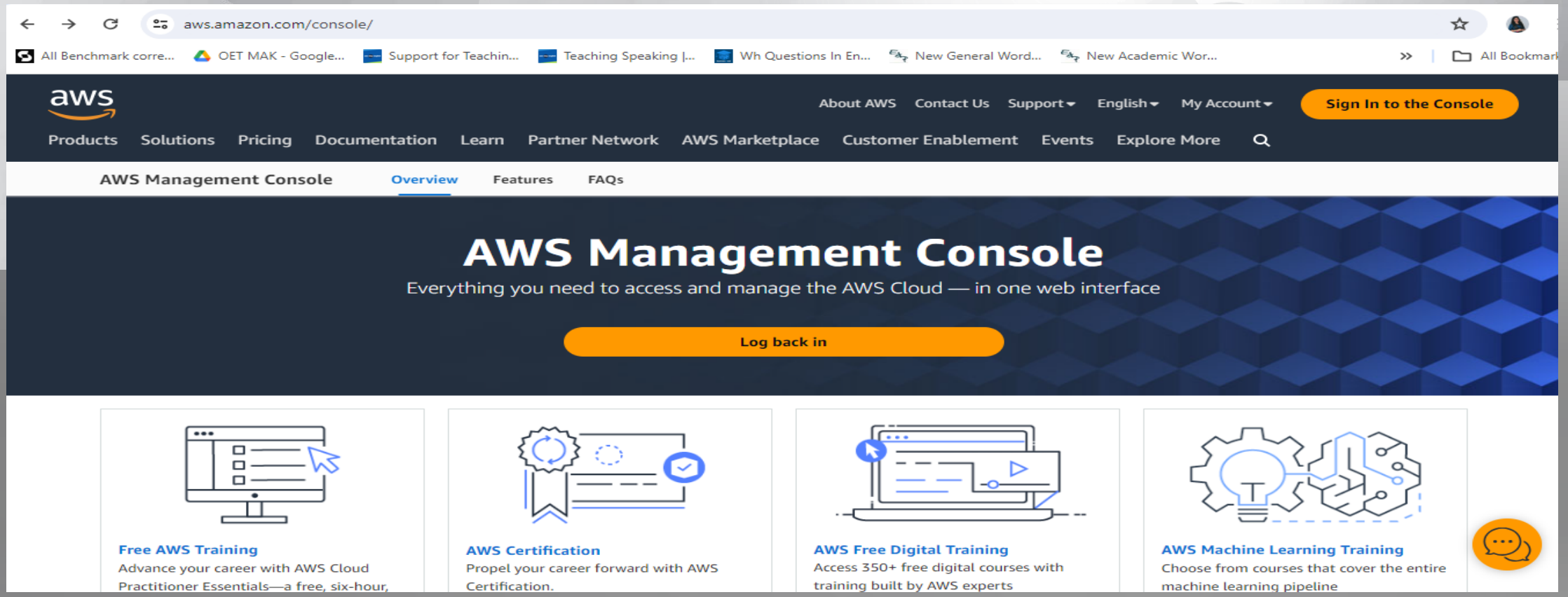
Cloud (AWS) Week – 1 Task

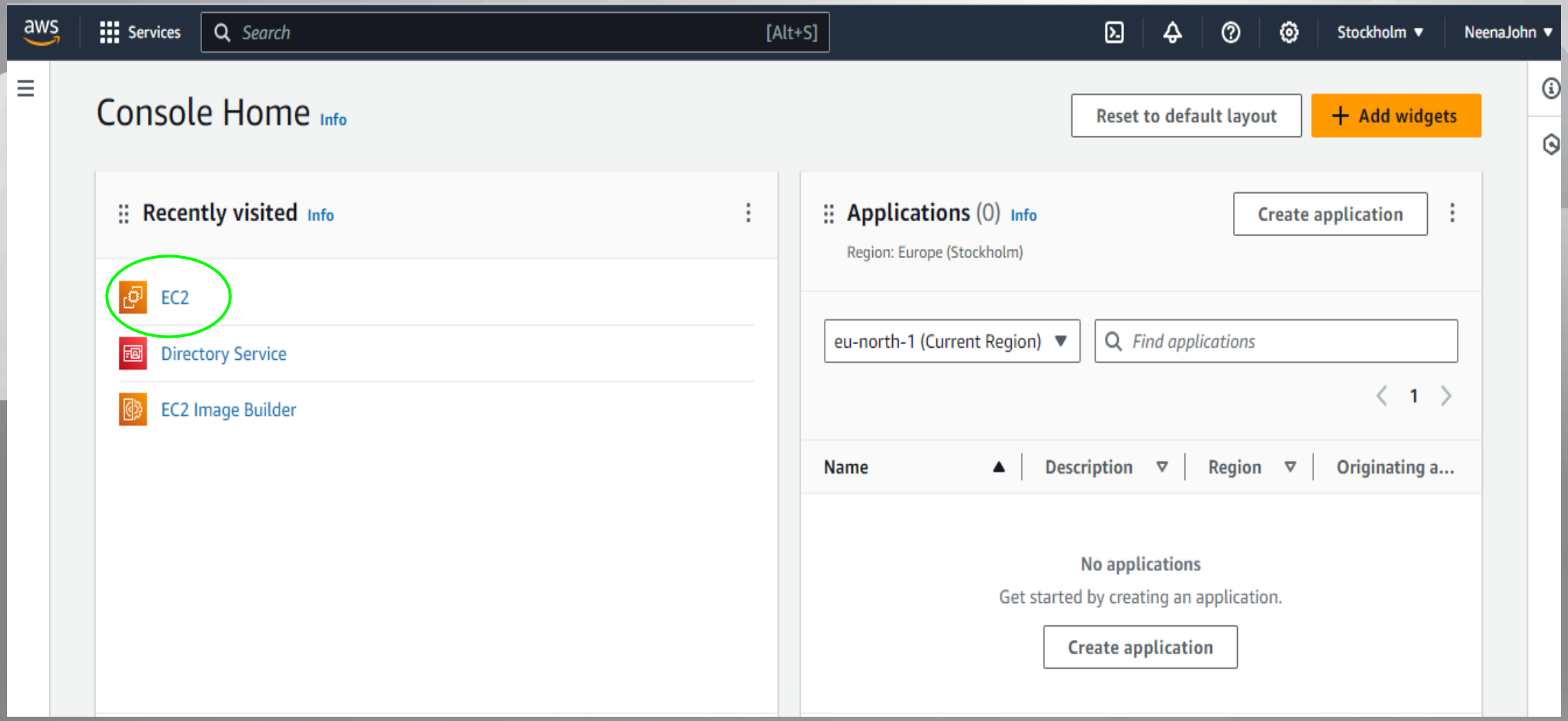
Deploy an application in monolithic and microservices architecture using AWS

Neena Babu John

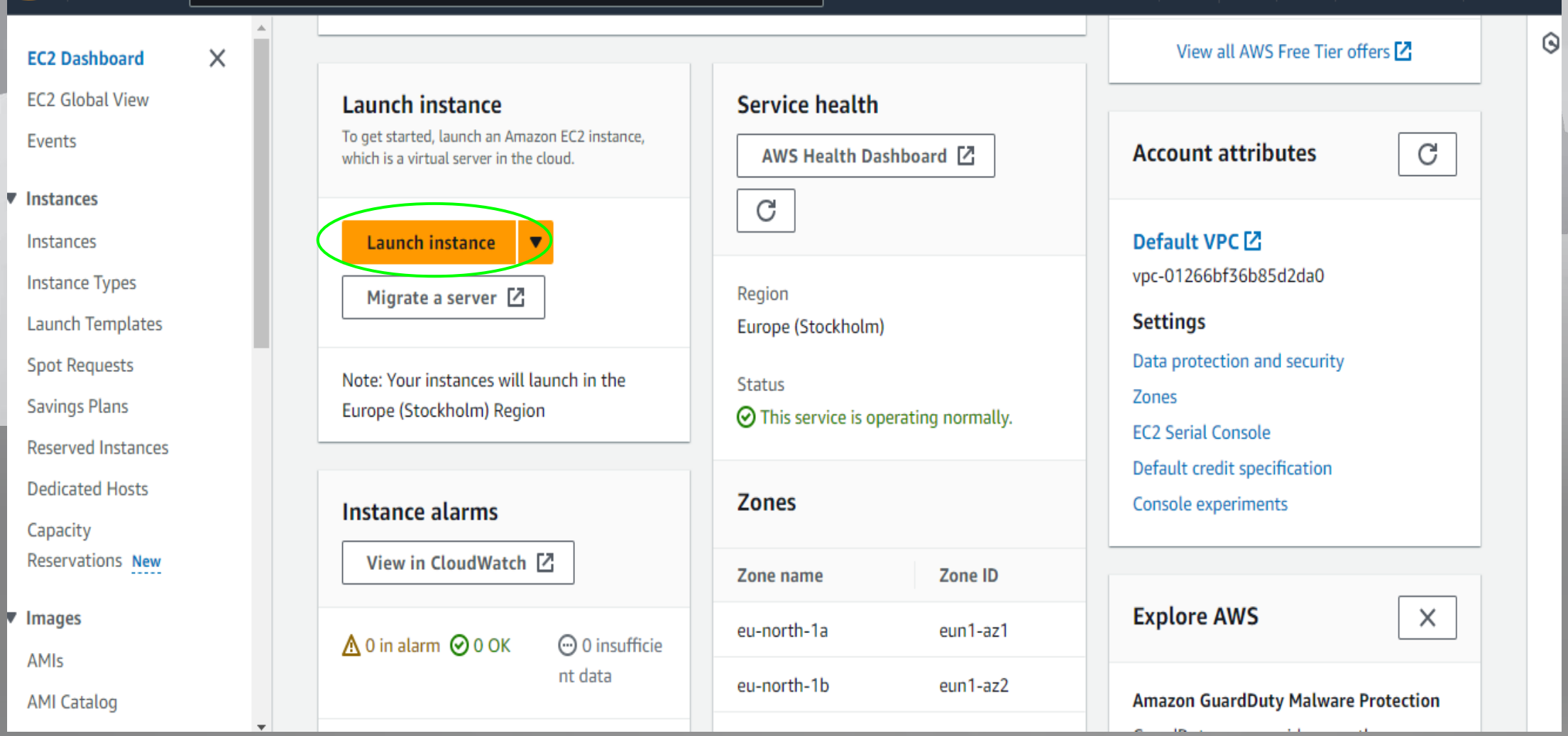
Deploy an application in monolithic architecture



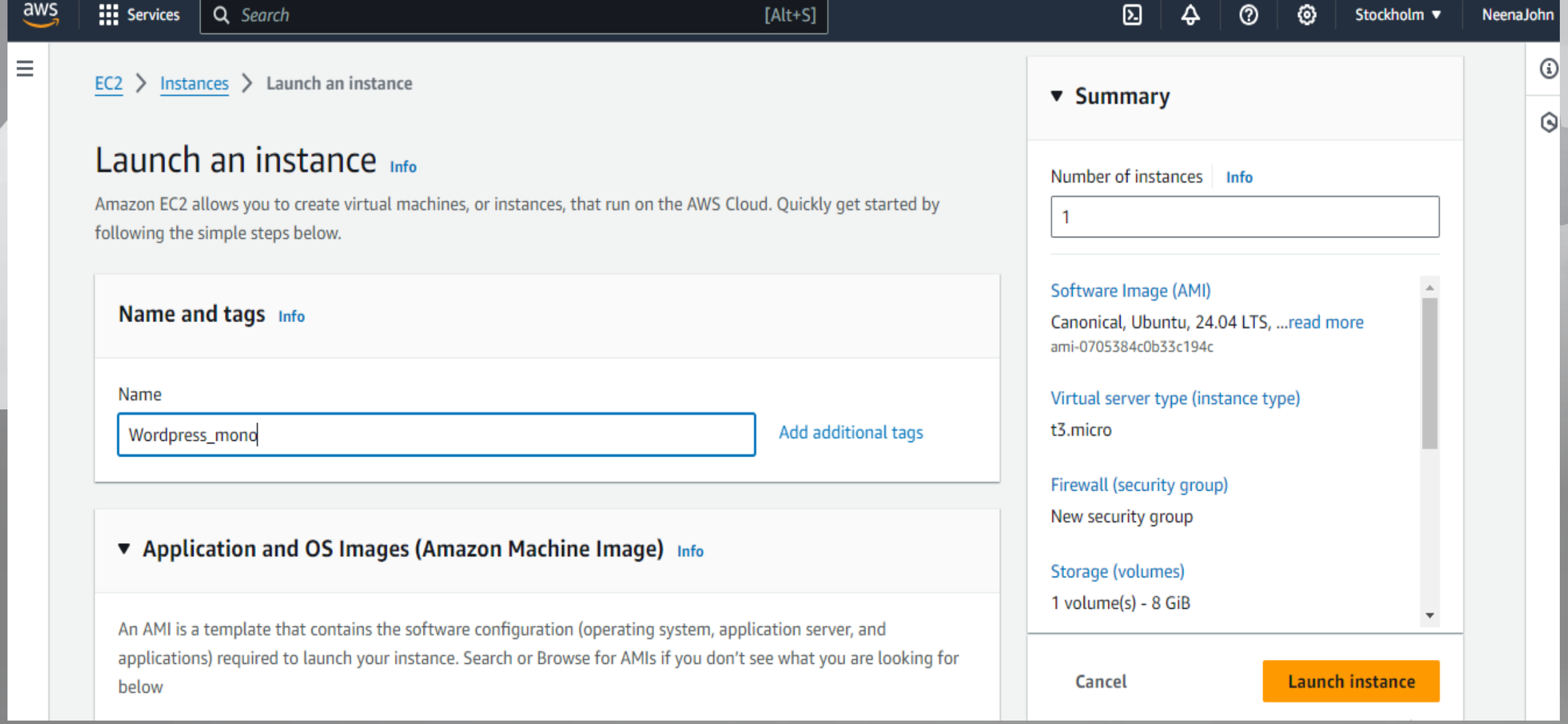
1. Sign in to AWS Management Console.



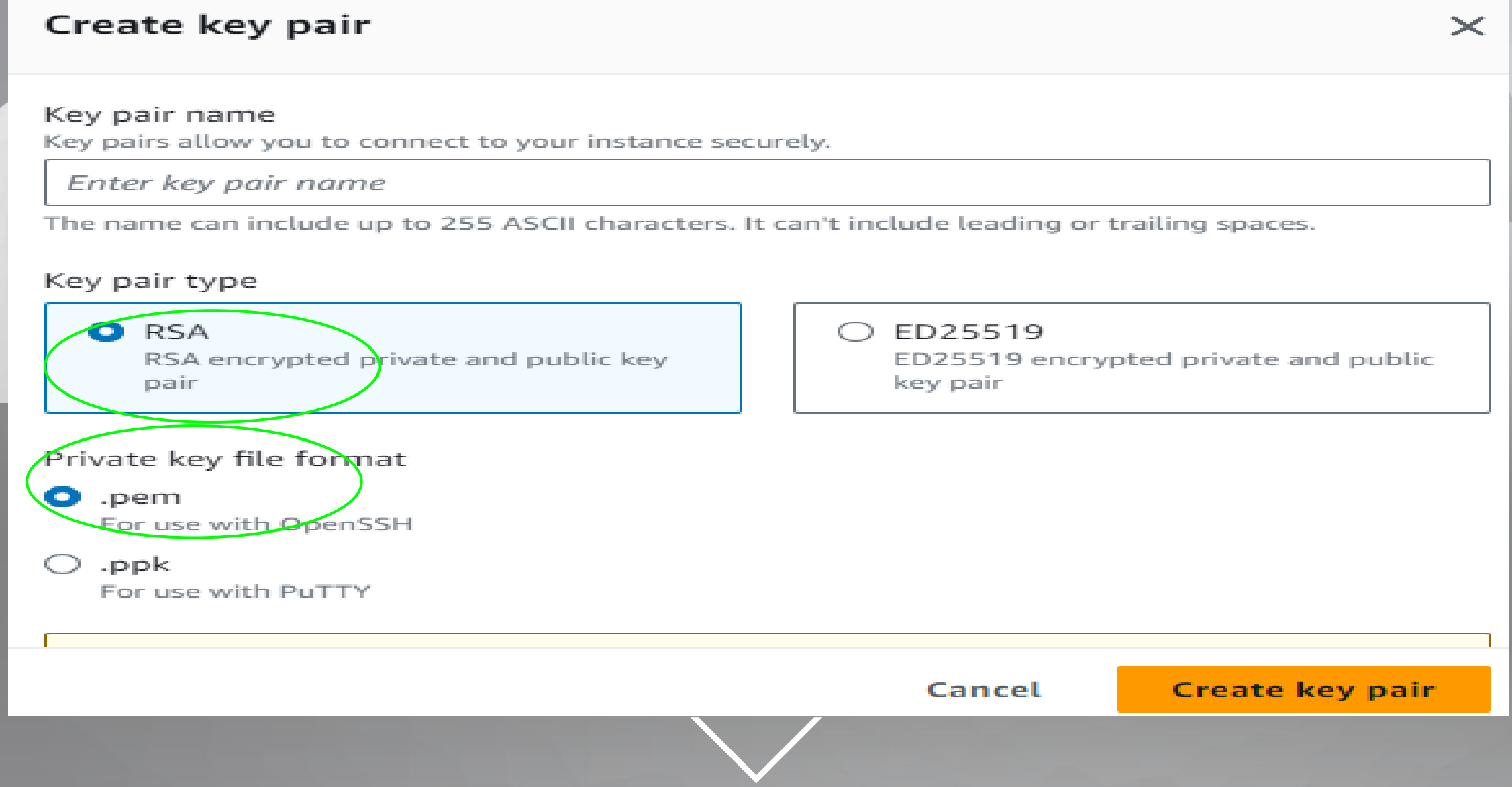
2. Sign in as root user and either search for EC2 in the ‘Search’ field or click on it directly from ‘Recently visited’. Click on EC2 to view the EC2 dashboard.



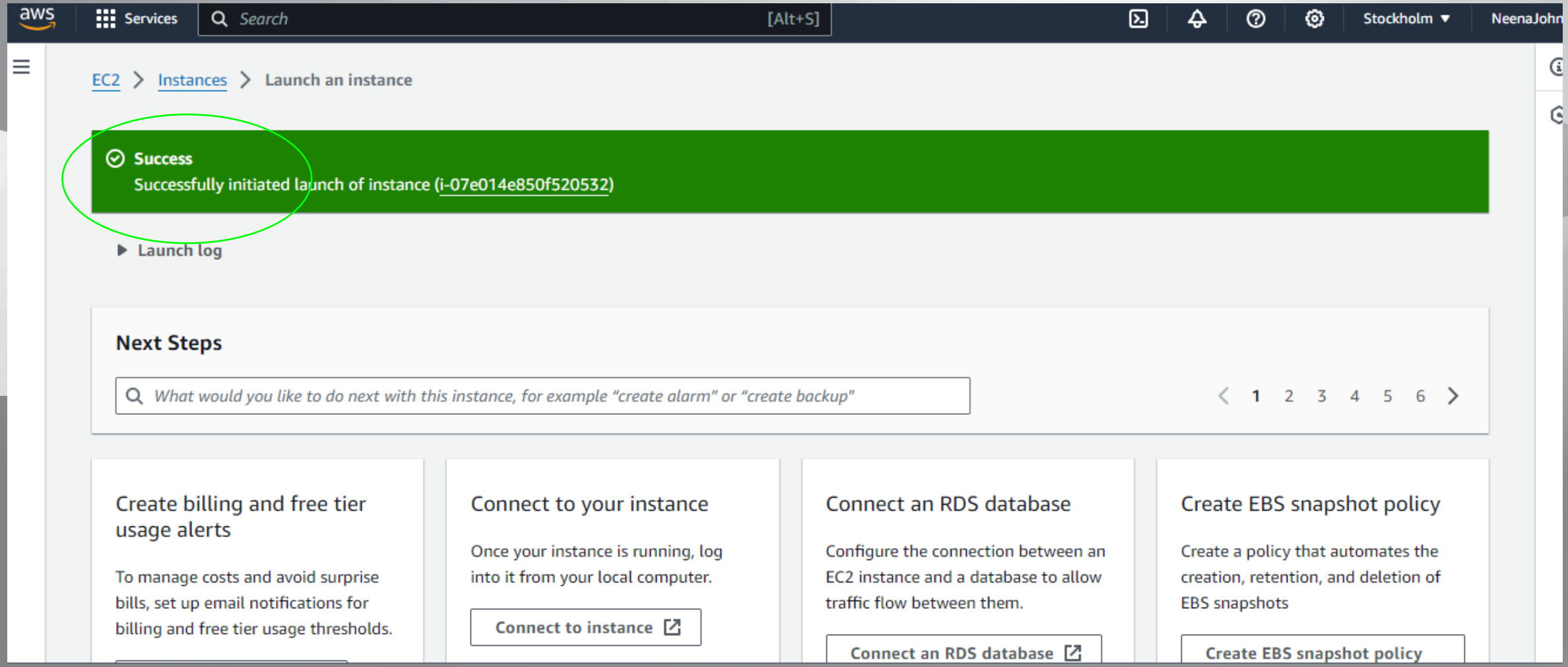
3. Click on the ‘Launch instance’ option to create an instance.



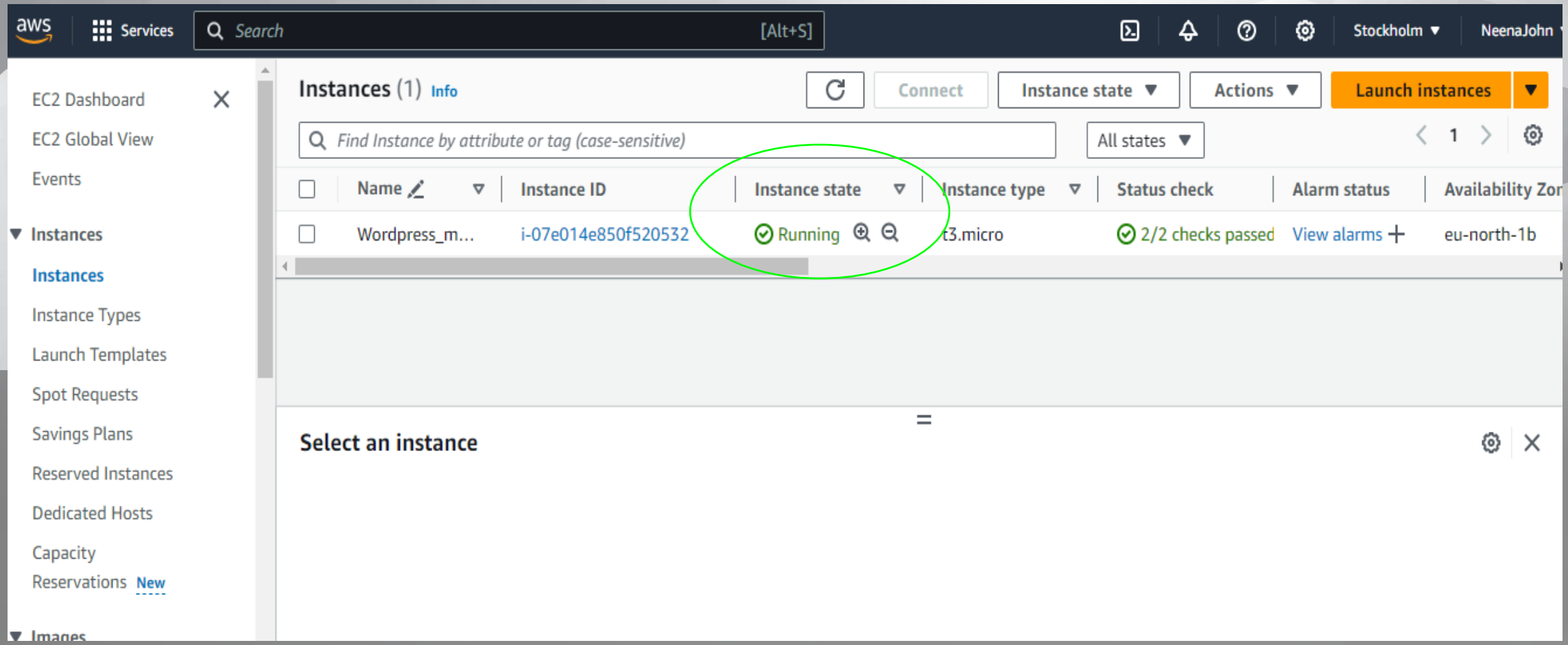
4. Give your instance a name and then choose the AMI (Ubuntu as required).



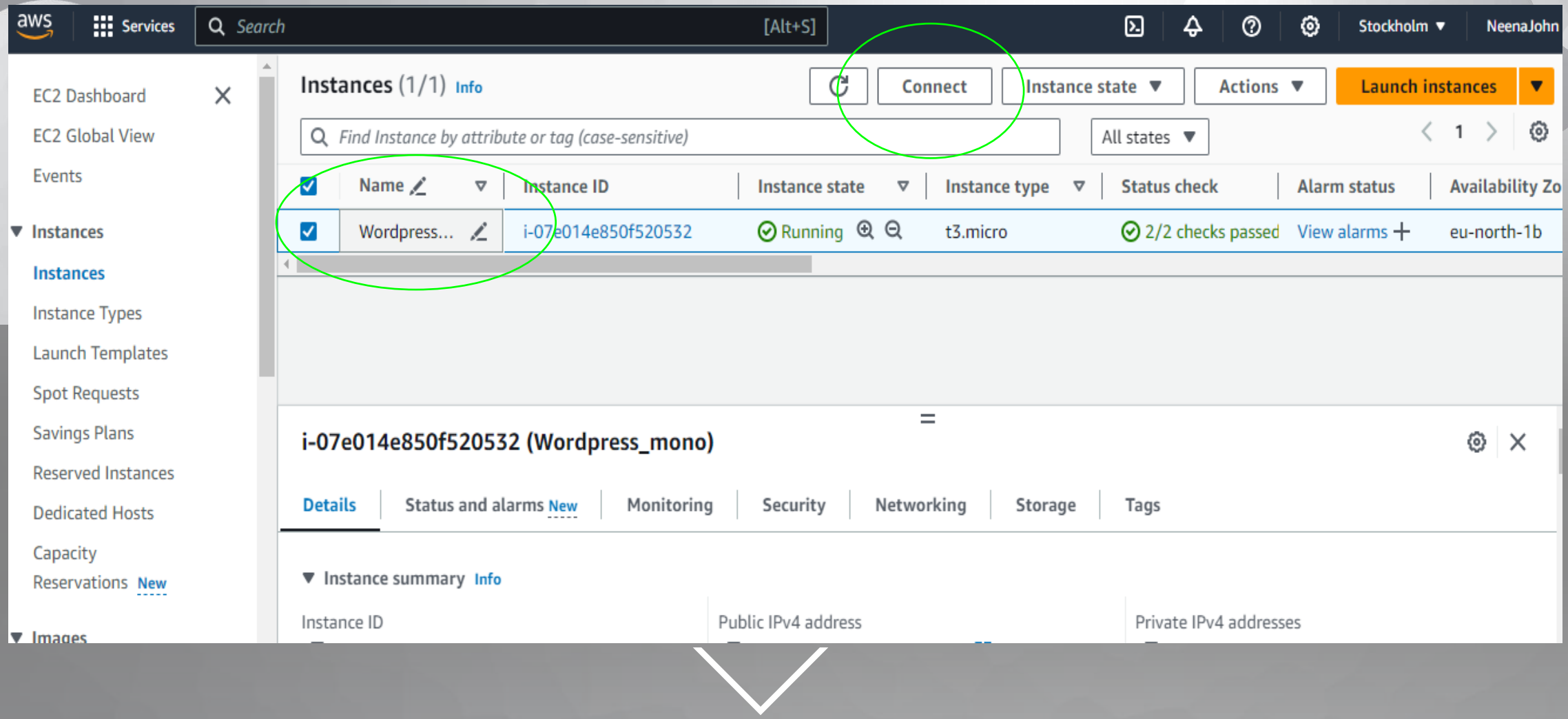
5. Create a key pair and keep the file saved in a known path.



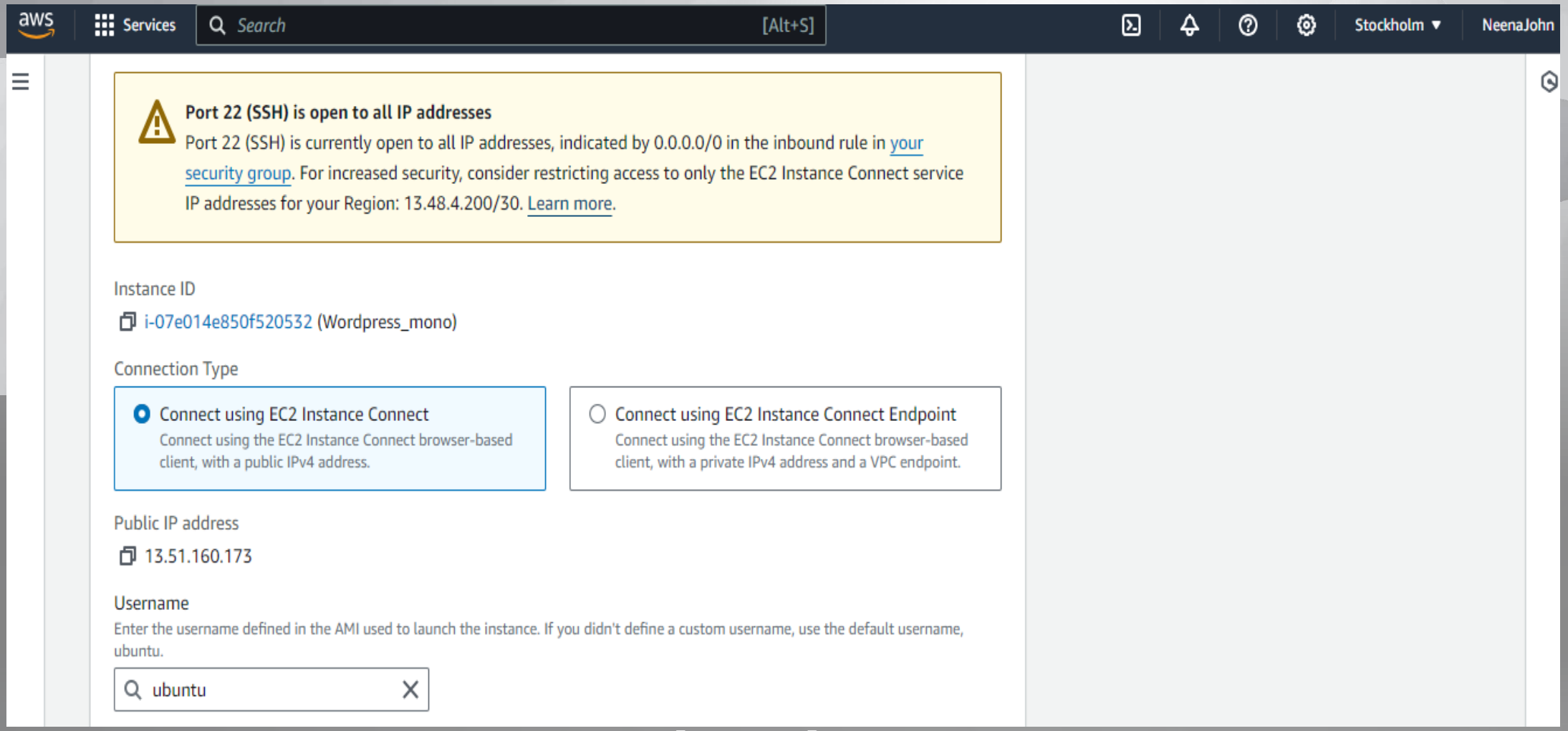
6. Once the key is created, keep the security group to default and click on Launch instance. This creates the instance successfully.



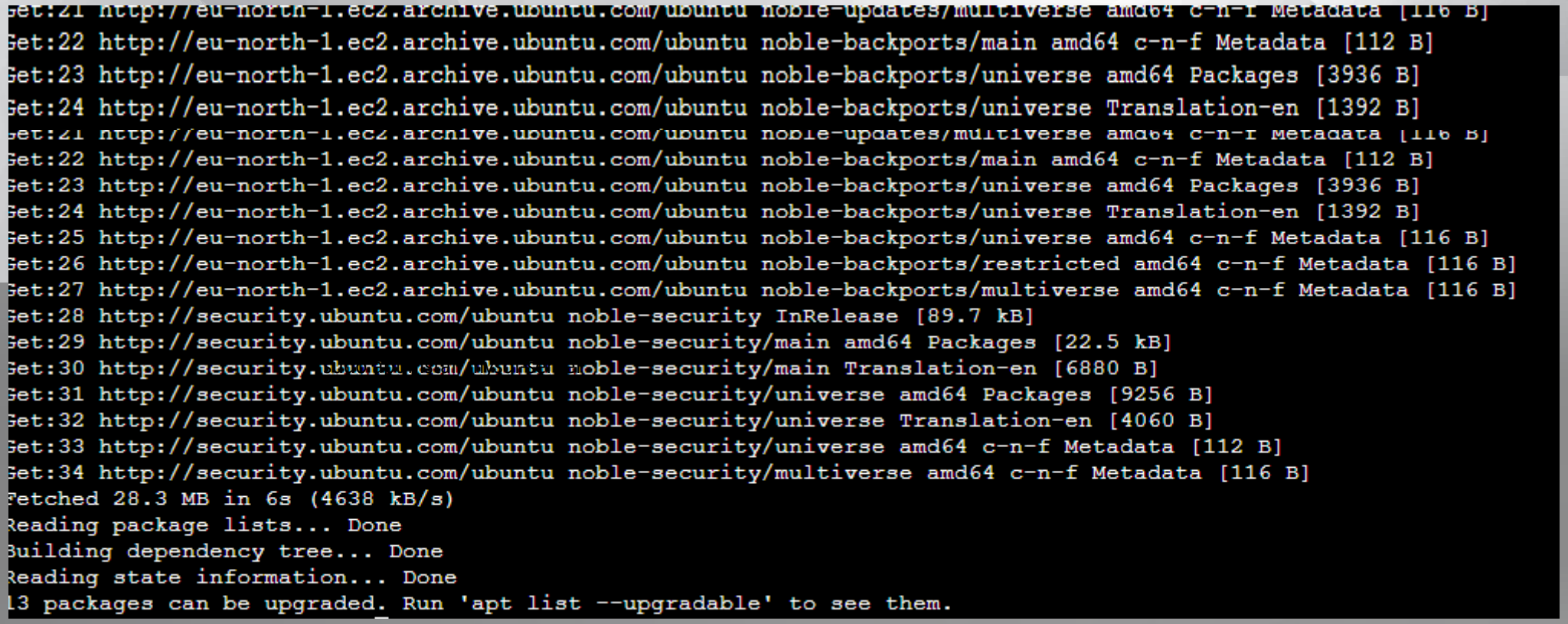
7. Return to Instances and view the status of the instance which changes from PENDING to RUNNING. The status check also shows that 2 checks have been passed.



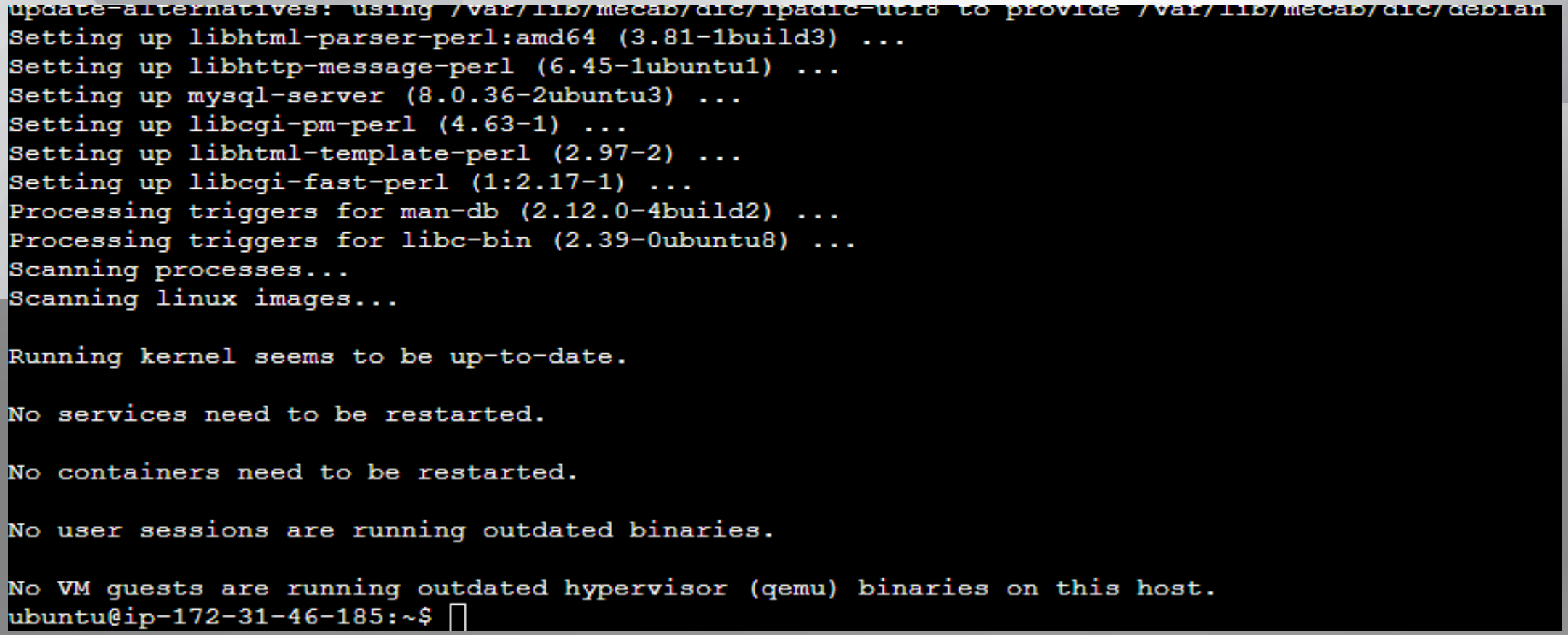
8. Select the instance and click on Connect.



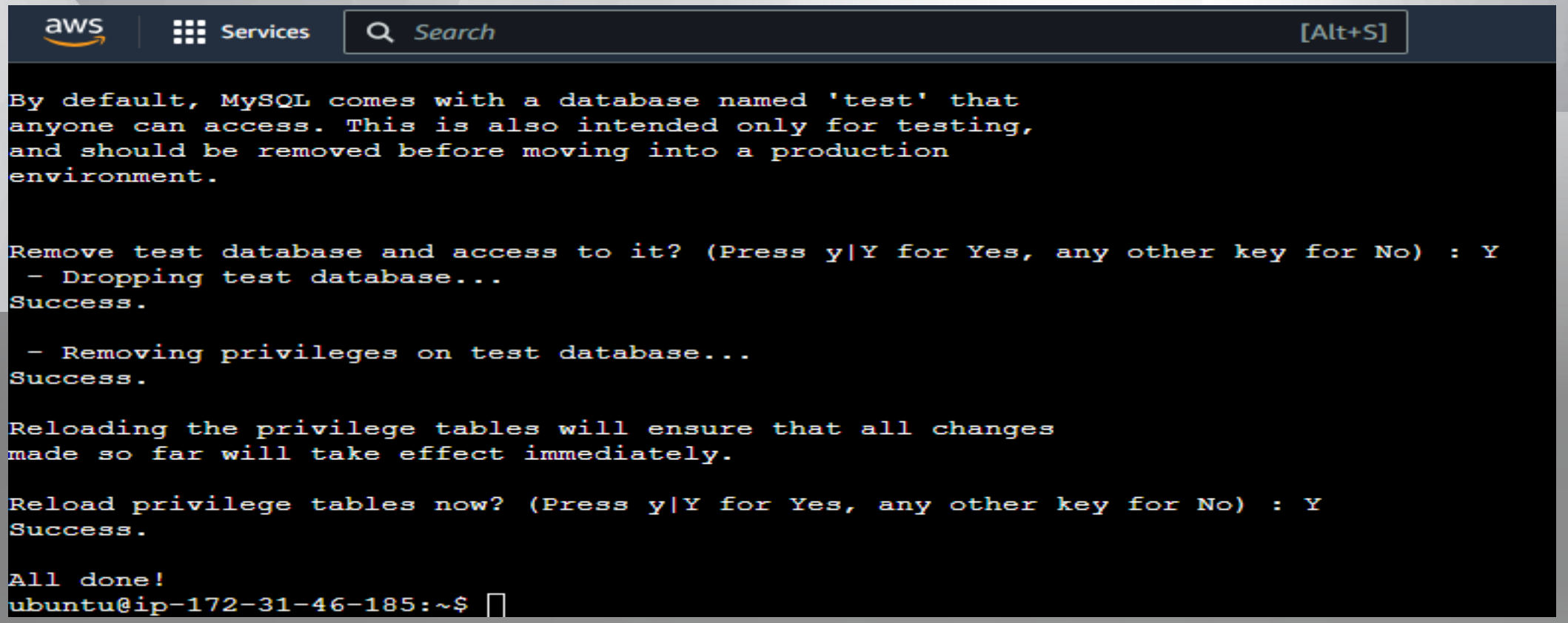
9. Continue to connect using EC2 Instance connect



10. Then use the ‘sudo apt update’ command to get the updated list of available packages and their versions stored in the system's package index.



10. Then run the ‘sudo apt install mysql-server’ command to install mysql server.



11. Set a root password for MySQL and secure the database.

```
Running kernel seems to be up-to-date.

Restarting services...

Service restarts being deferred:
 /etc/needrestart/restart.d/dbus.service
 systemctl restart getty@tty1.service
 systemctl restart networkd-dispatcher.service
 systemctl restart serial-getty@ttyS0.service
 systemctl restart systemd-logind.service
 systemctl restart unattended-upgrades.service

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-172-31-46-185:~$
```

aws | Services | Search [Alt+S]

```
Scanning processes...
Scanning candidates...
Scanning linux images...

Running kernel seems to be up-to-date.

Restarting services...

Service restarts being deferred:
 /etc/needrestart/restart.d/dbus.service
 systemctl restart getty@tty1.service
 systemctl restart networkd-dispatcher.service
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 systemctl restart systemd-logind.service
 systemctl restart unattended-upgrades.service

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.
```
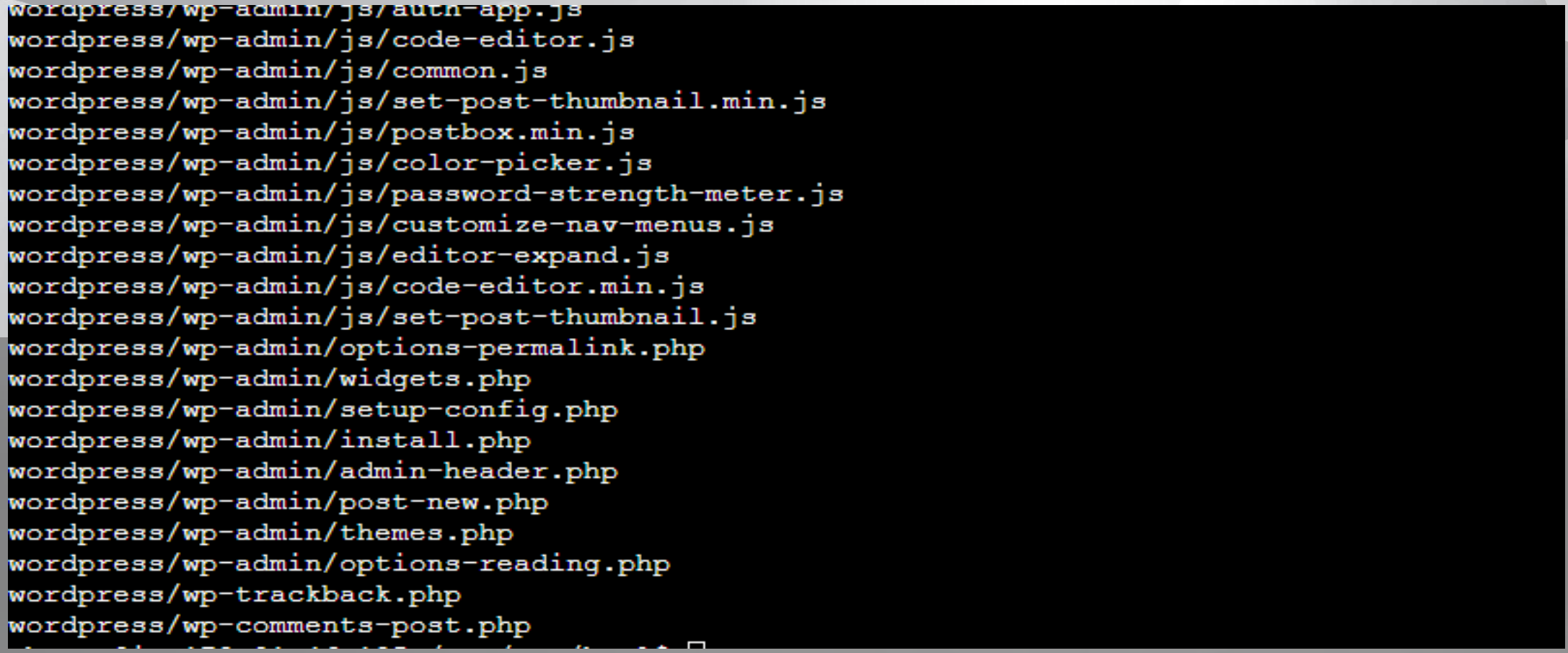
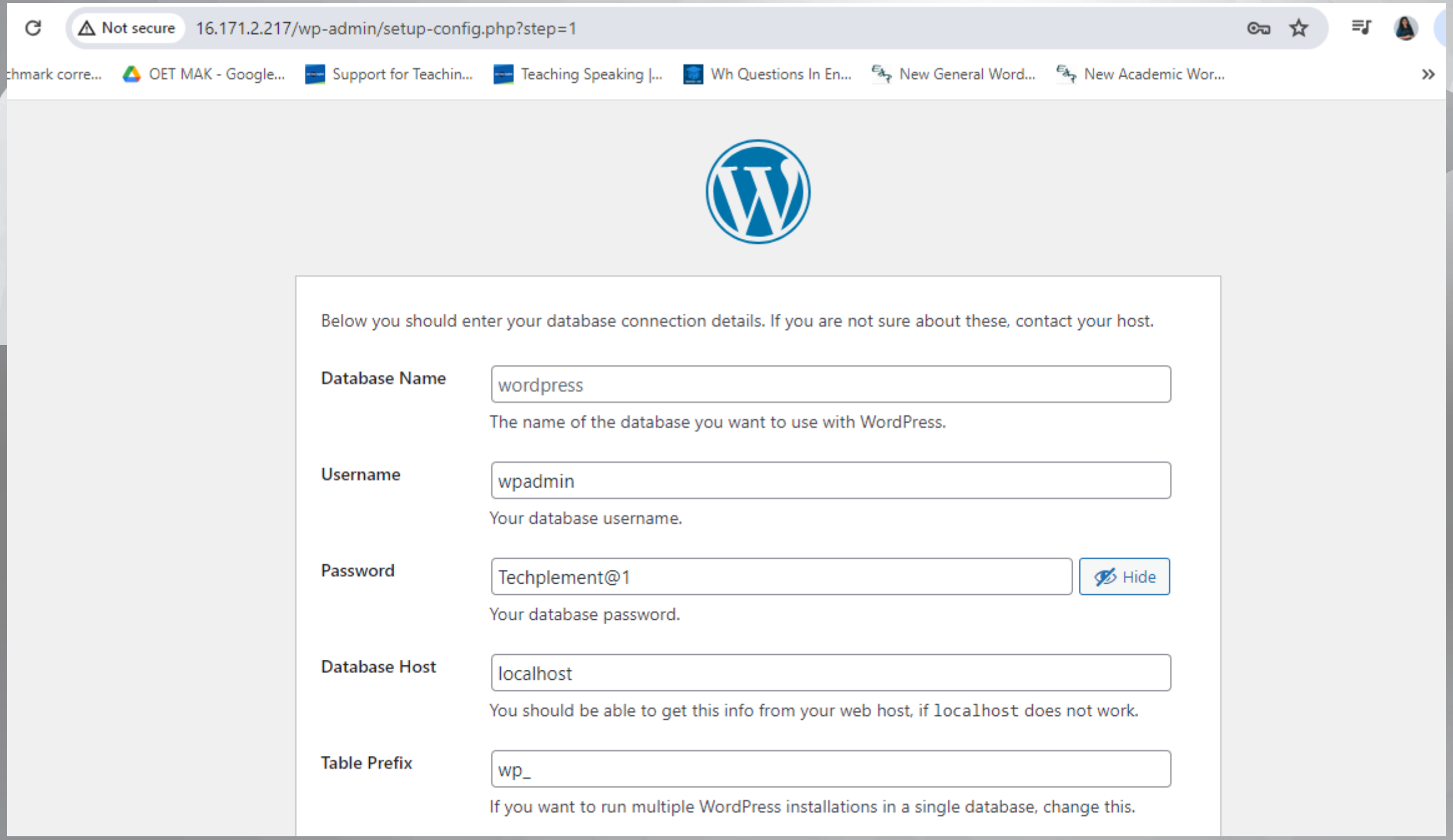
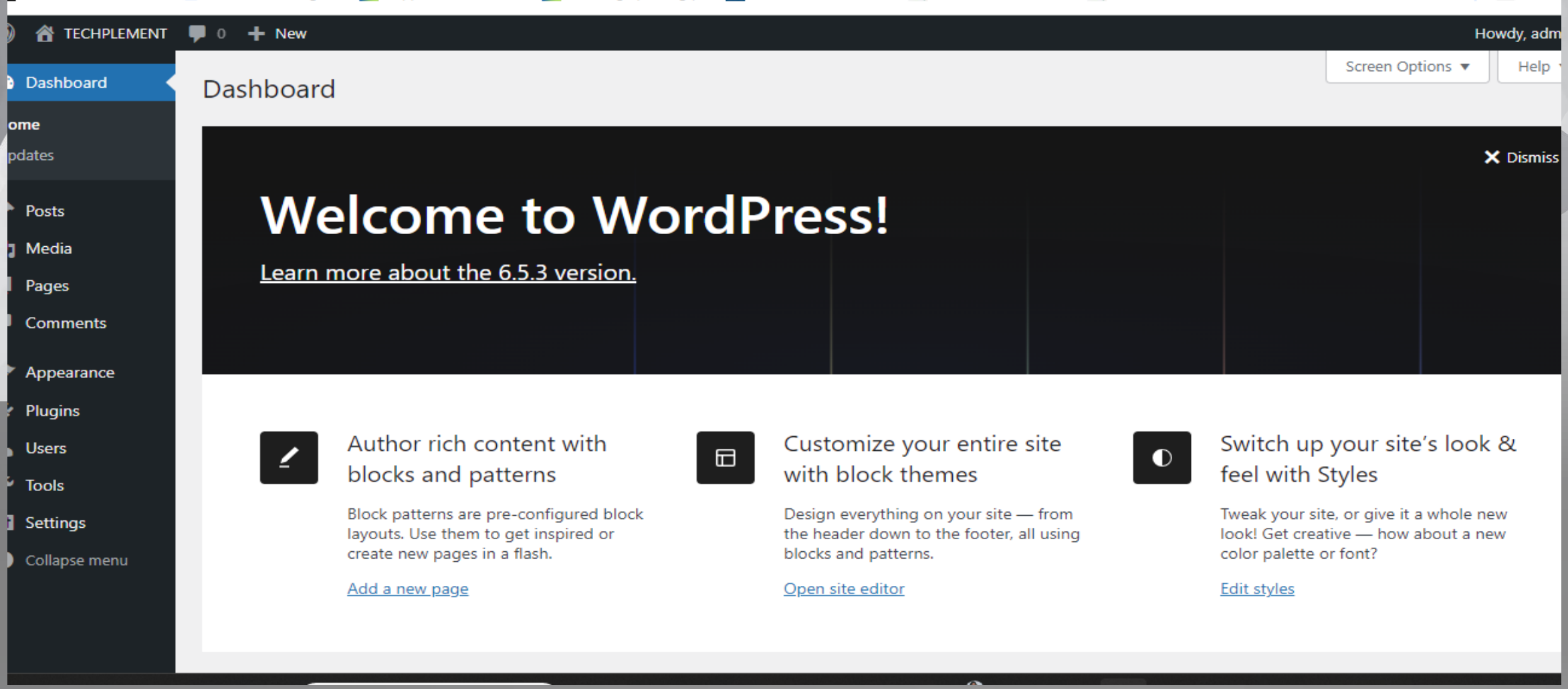

12. Install Apache server by running the command ‘sudo apt install apache2’ and required PHP module via ‘sudo apt install php libapache2-mod-php php-mysql’ command Restart Apache server by running the command and ‘sudo systemctl restart apache2’.



13. Install wordpress by first going to its directory

cd /var/www/html and then download the latest wordpress version via ‘sudo wget https://wordpress.org/latest.tar.gz’ command and then downloading its archive and finally, set permissions.


Not secure
16.171.2.217/wp-admin/setup-config.php?step=1
hmark corre...
OET MAK - Google...
Support for Teachin...
Teaching Speaking |...
Wh Questions In En...
New General Word...
New Academic Wor...
Below you should enter your database connection details. If you are not sure about these, contact your host.
Database Name
wordpress
The name of the database you want to use with WordPress.
Username
wpadmin
Your database username.
Password
Techplement@1
Hide
Your database password.
Database Host
localhost
You should be able to get this info from your web host, if localhost does not work.
Table Prefix
wp_
If you want to run multiple WordPress installations in a single database, change this.



Final output

2.https://ubuntu.com/server/docs/install-and-configure-a-mysql-server

3.https://www.youtube.com/watch?v=5rlCUXjVaHE

Final output