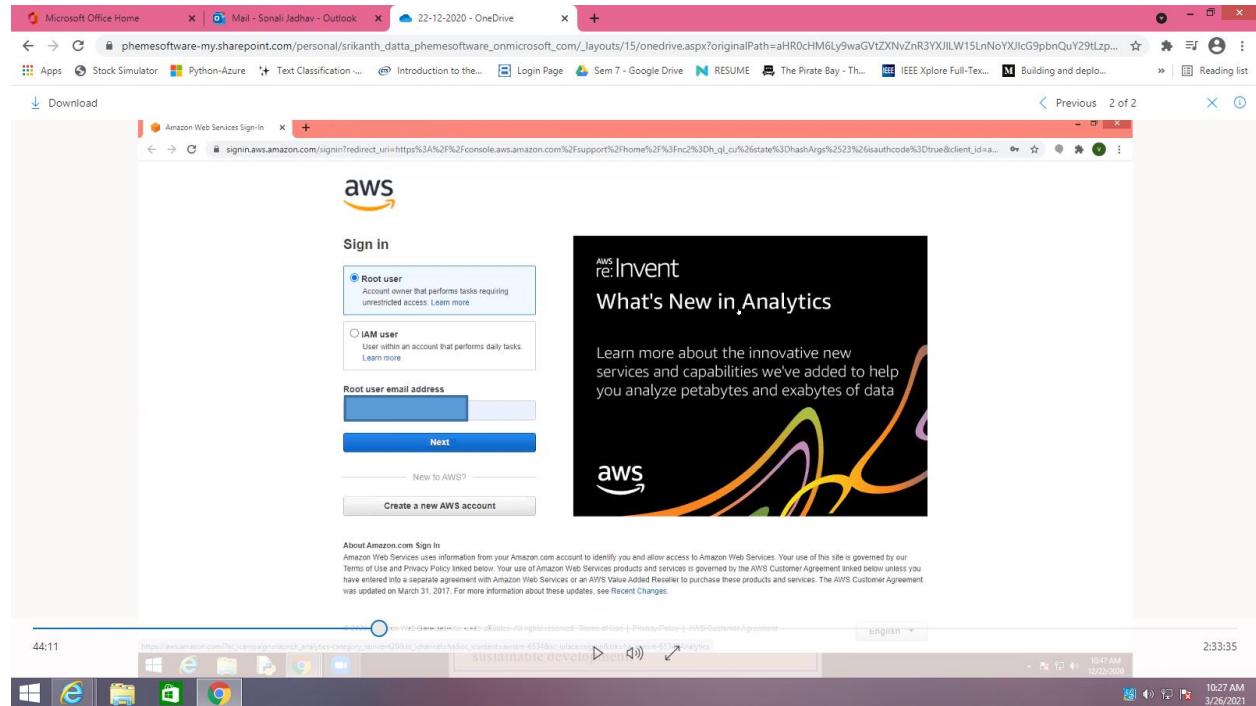


AWS (EC2) Installation steps for Linux instance

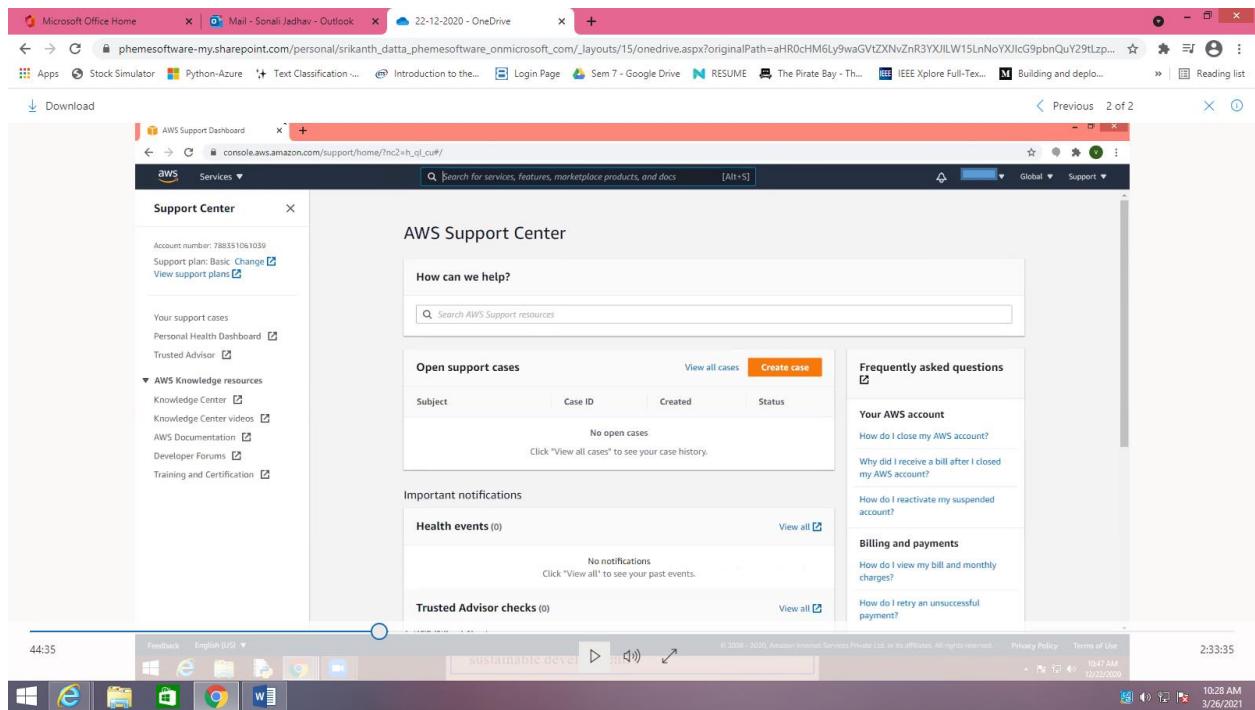
Please find the AWS account creation steps in the link.

- <https://aws.amazon.com/premiumsupport/knowledge-center/create-and-activate-aws-account/>
- https://signin.aws.amazon.com/signin?redirect_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fsupport%2Fhome%2Fnc%3Dh_ql_cu%26state%3DhashArgs%2523%26isauthcode%3Dtrue&client_id=arn%3Aaws%3Aiam%3A%3A015428540659%3Auser%2Fsupportcenter&forceMobileApp=0

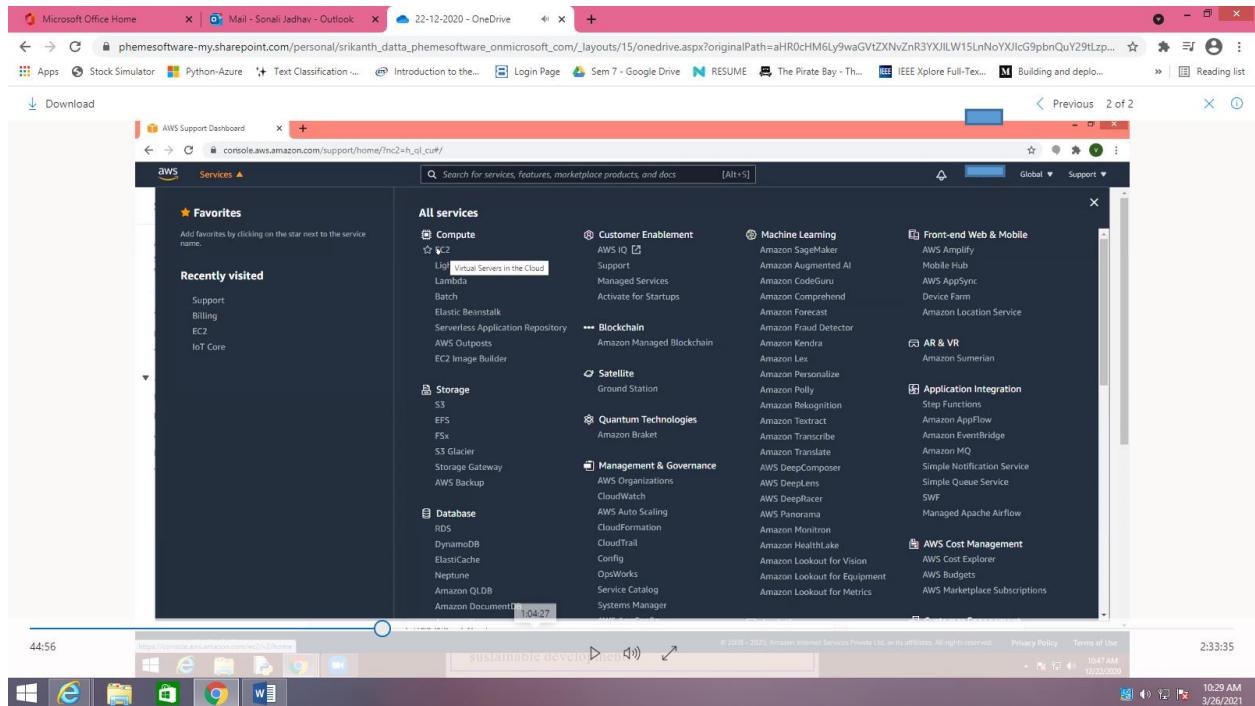
Requirement – Amazon web service account



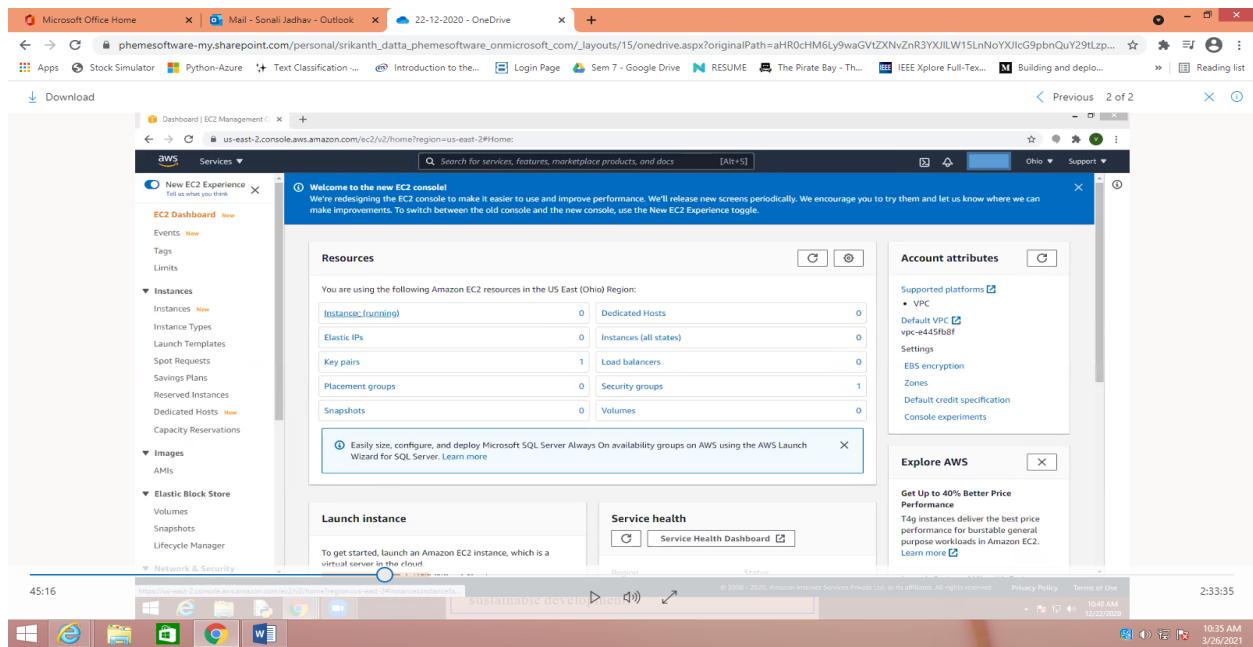
Login



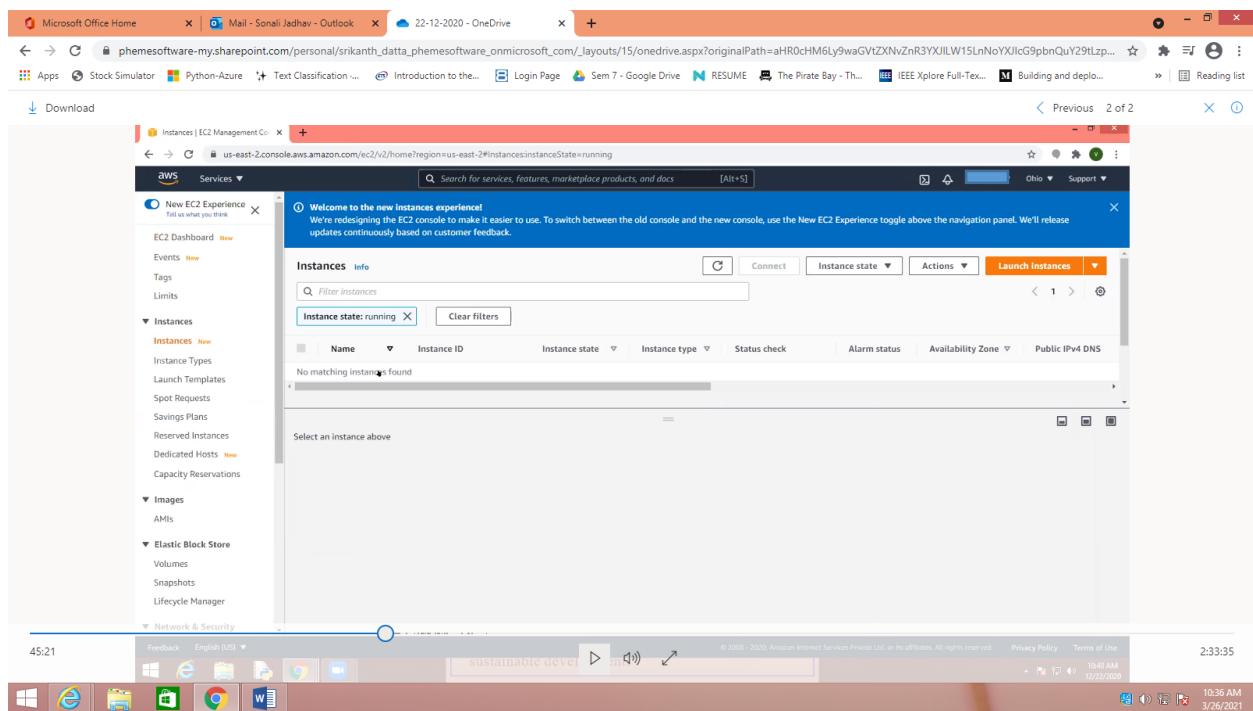
Open AWS Services



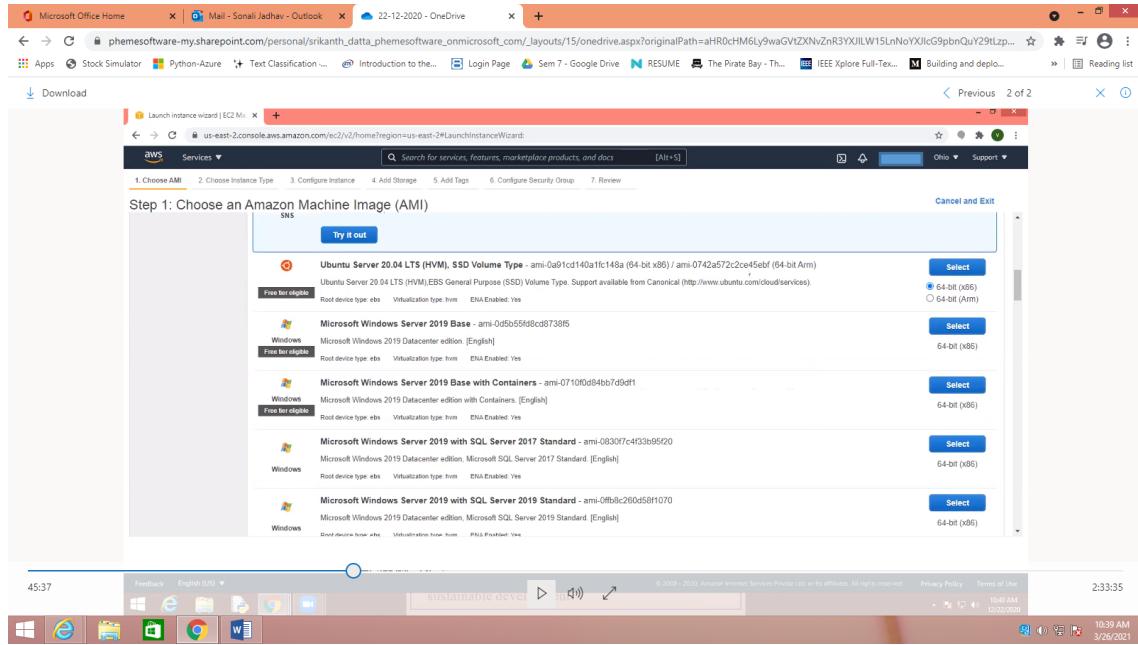
Select EC2



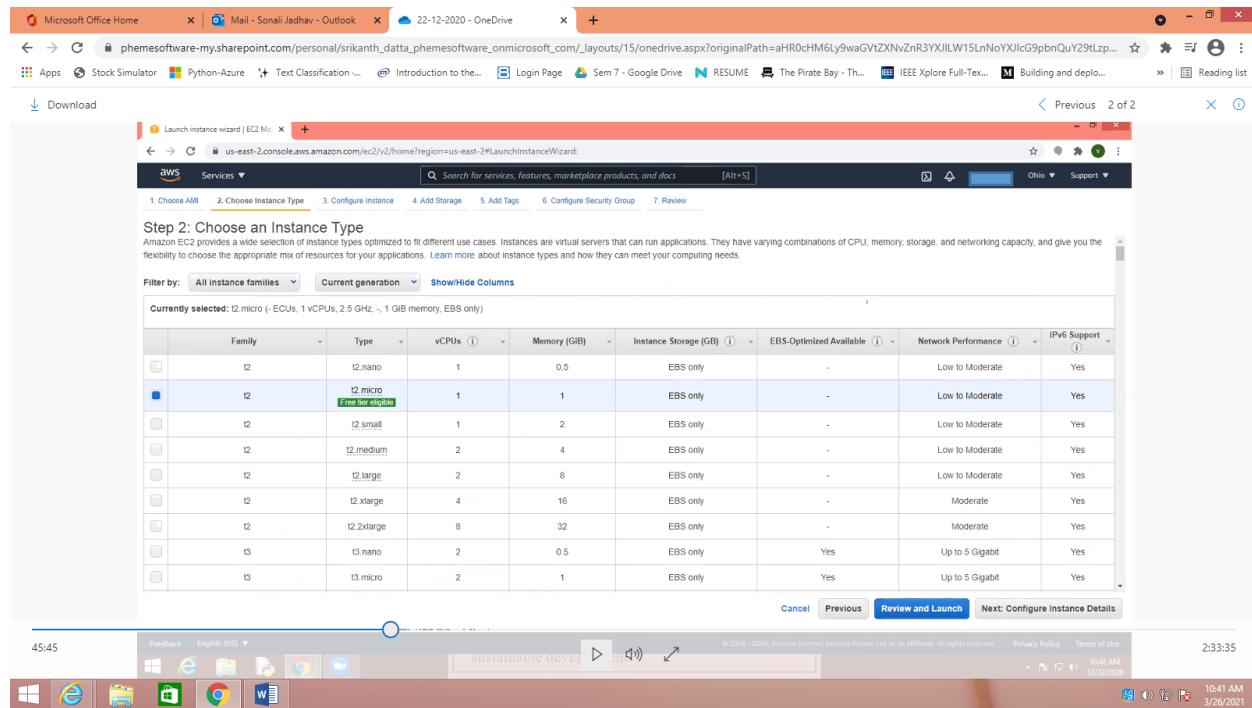
CLICK ON instance (running) in above screen



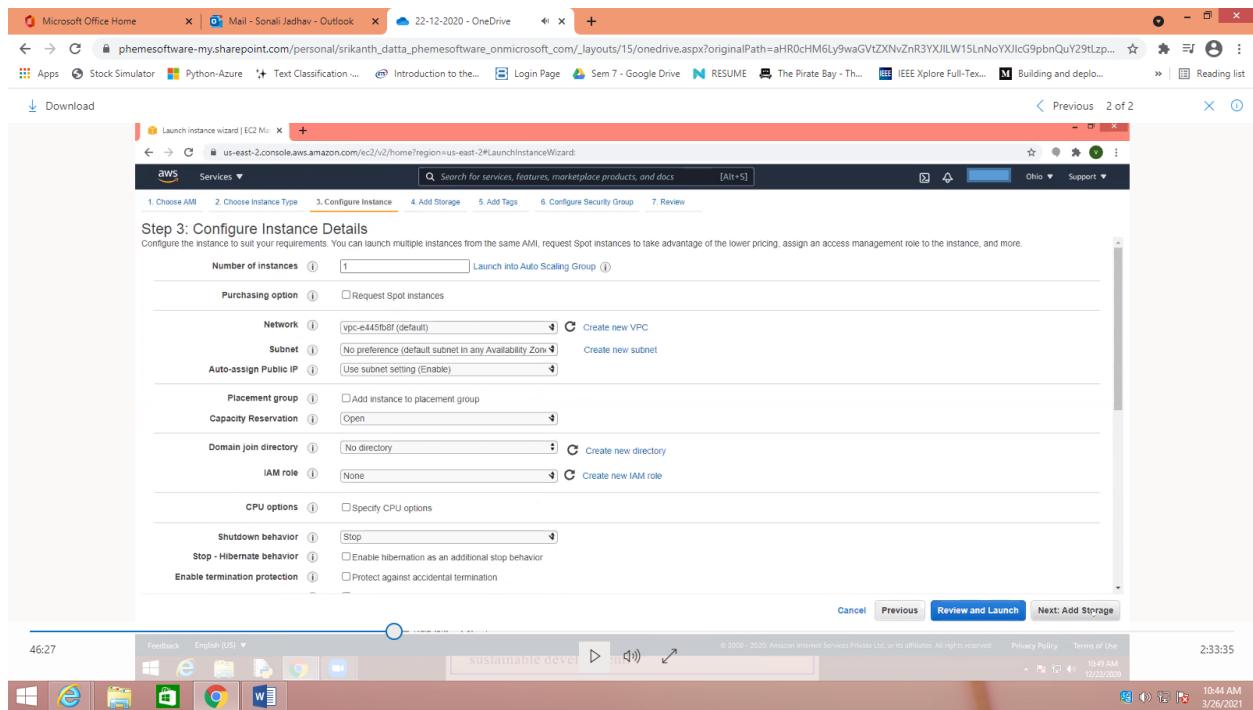
On above screen click on launch Instances



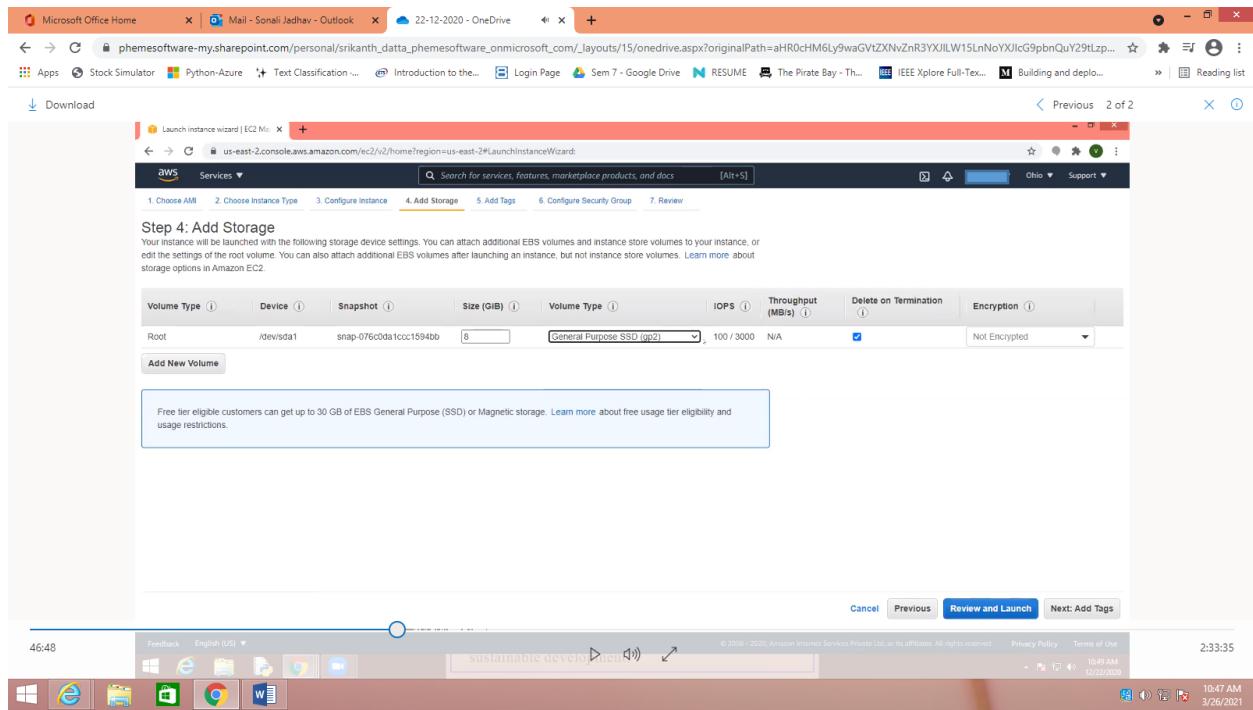
Select Ubuntu server 20.04



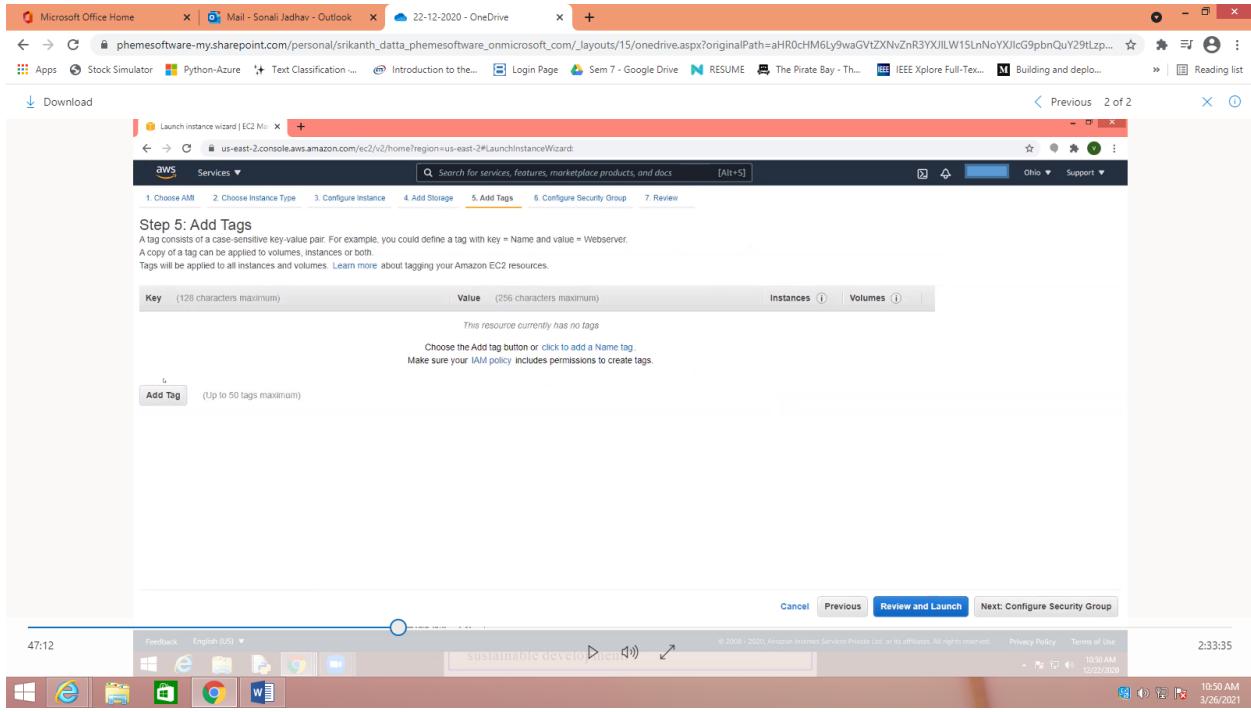
Select **free tier eligible** and click on button – **Next: configure instance details**



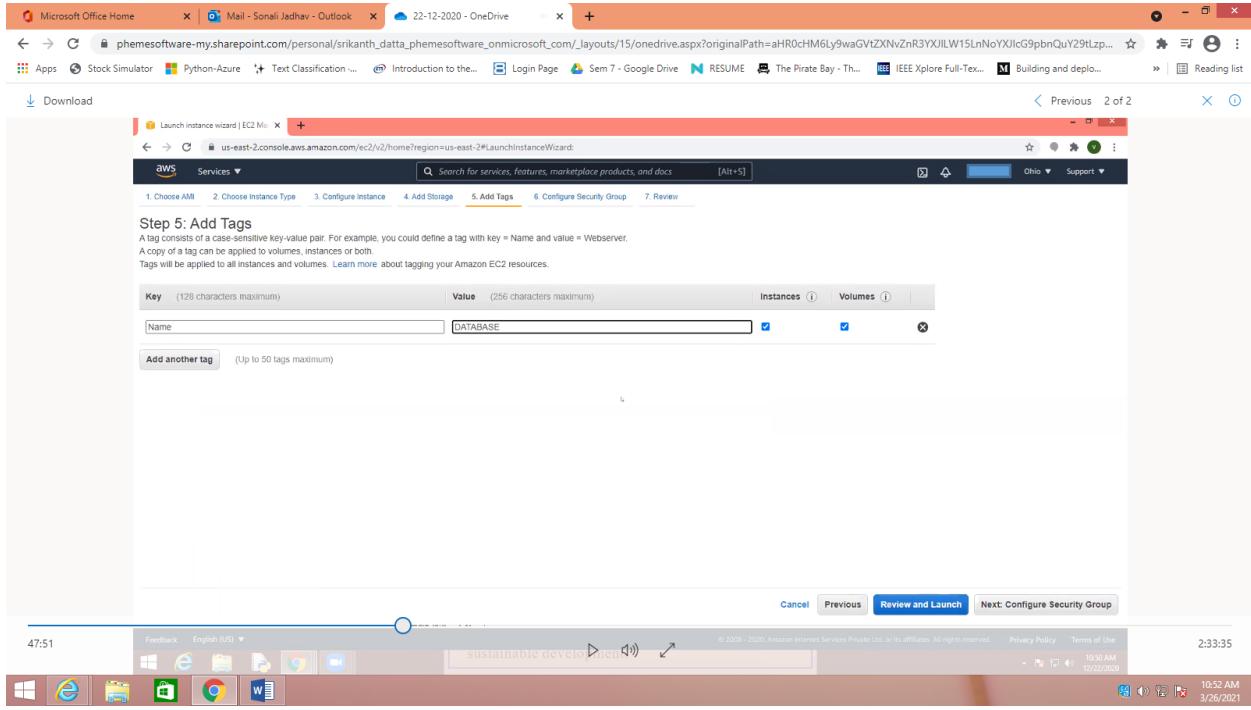
Don't change any setting directly click on button – **Next: Add storage**



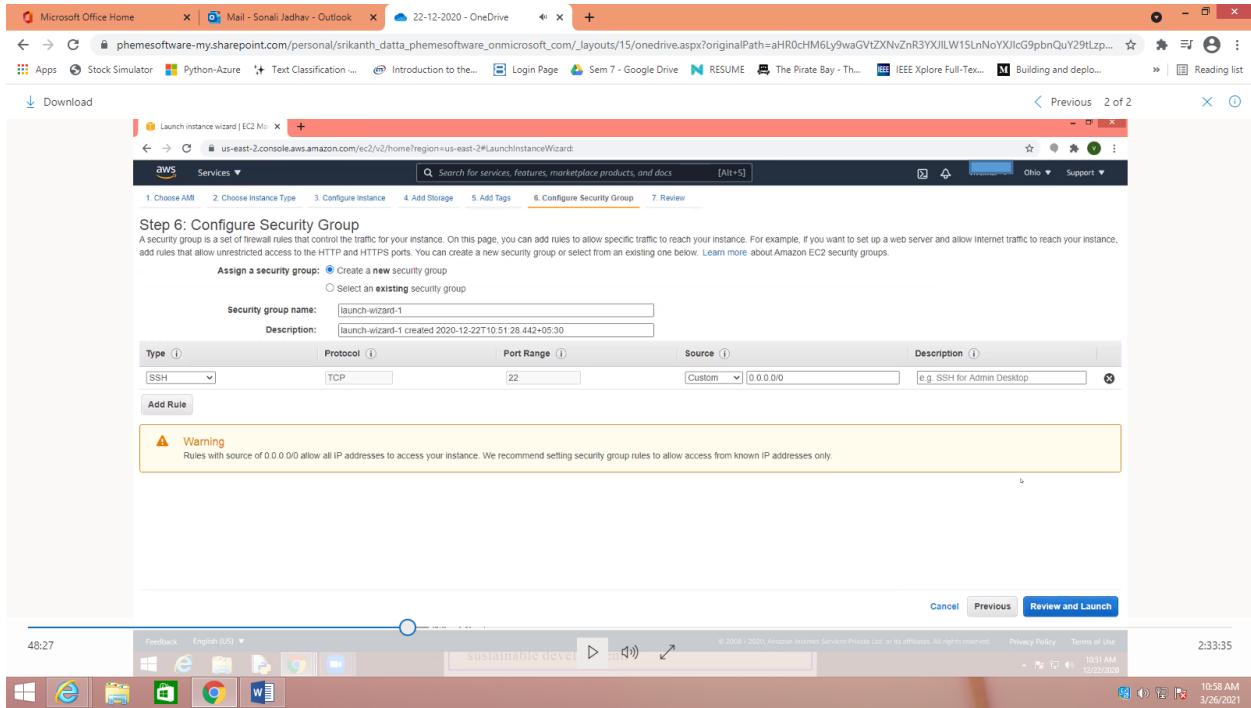
Check Volume type: General purpose SSD (gp 2) and then click on button – **next: Add Tags**



Need to add key so click on Add Tag



In key tab give any name, value – database and then click on Button- **Next: Configure Security Group**



Here we need to change Security group name- provide any name like im providing **db_sg**
(example database_security groupso we use shortcut)

In description again copy same name instead of Launch_wizard_1 only remaining line keep as it is **-step 1-**

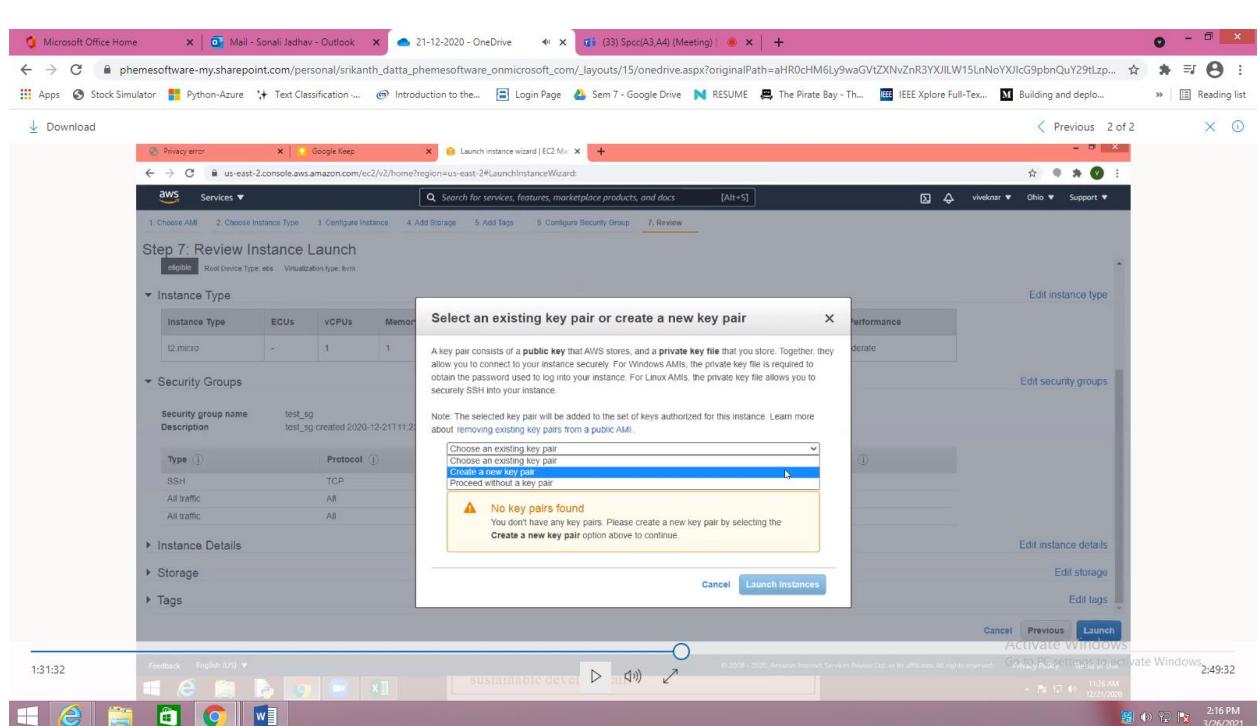
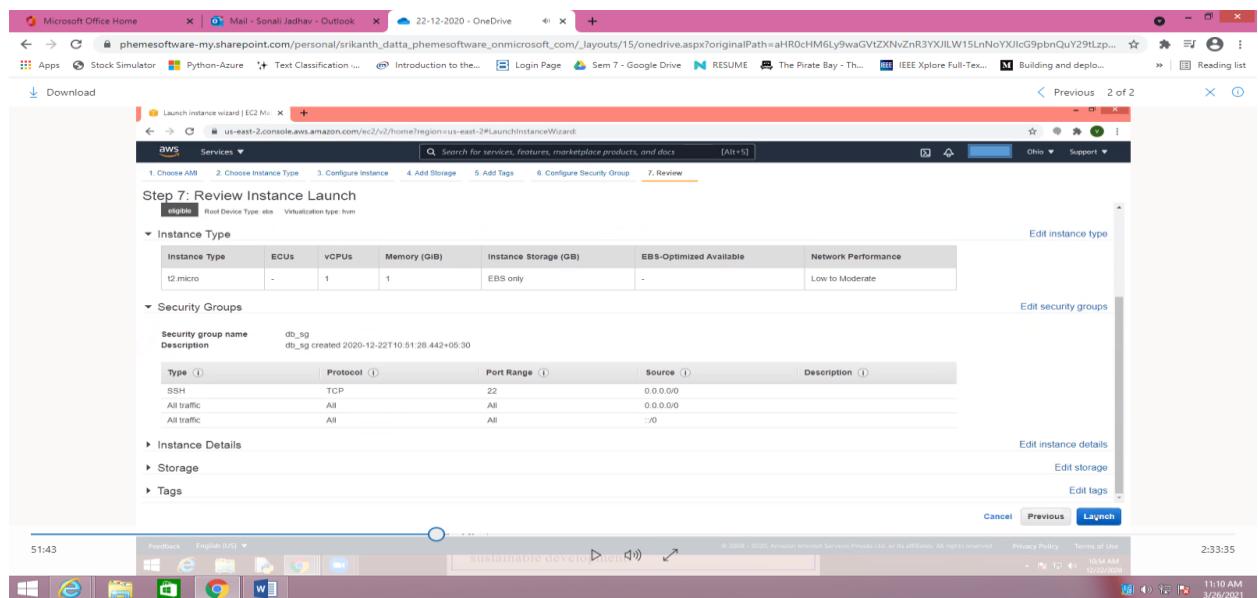
Security Group name- **db_sg**

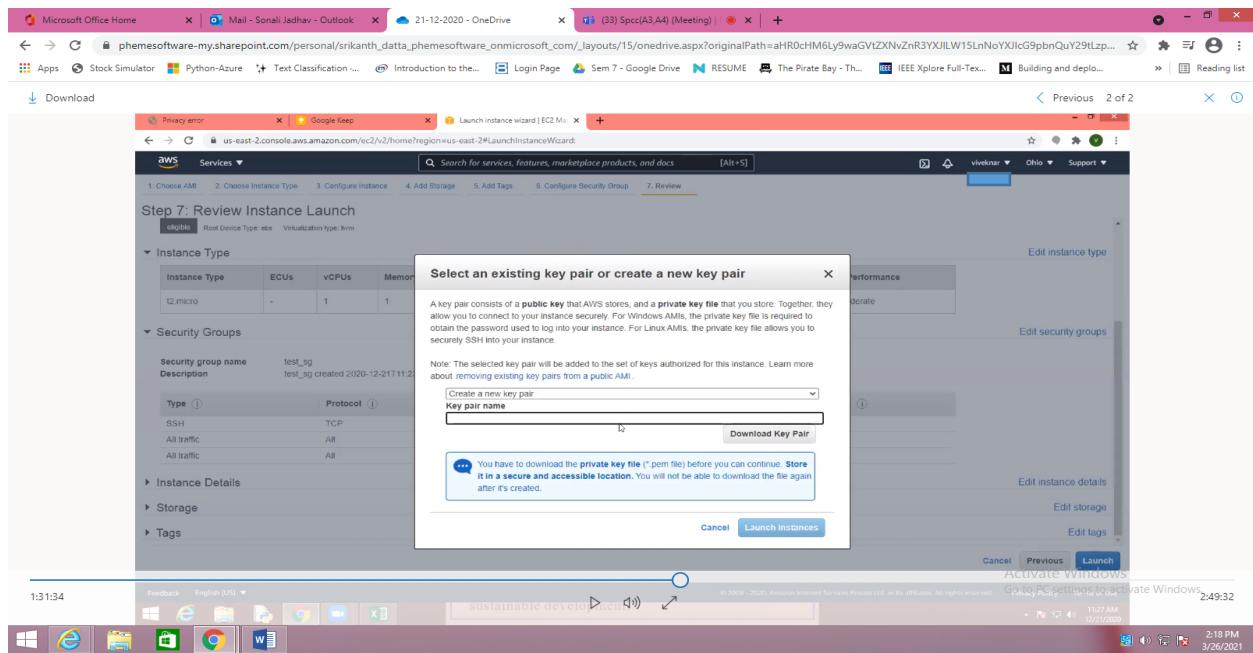
Description- **db_sg created 2020-12-22T 10:51:21:442+5:30**

Step2 – click on **Add Rule Button – select all Traffic**

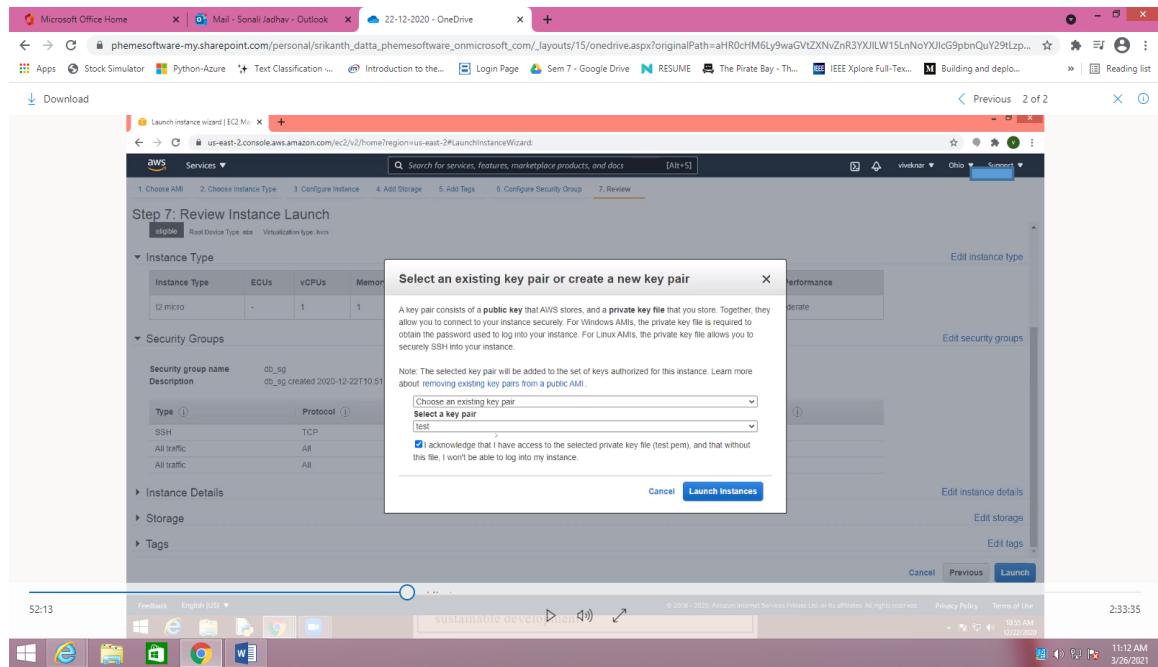
Step3- Set Source tab – **Anywhere this is for your subnet**

Step 4 – click on button: **Review and Launch**





Insert key pair name anything like – test , now click on Download key pair(security permission file download it is encrypted file)



Click on I acknowledge box and click on **Launch Instances**

Your instances are now launching
The following instance launches have been initiated: i-002734212833ab182 [View launch log](#)

Get notified of estimated charges
Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your Instances
Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.
Click [View Instances](#) to monitor your instances' status. Once your instances are in the **running** state, you can [connect](#) to them from the Instances screen. [Find out](#) how to connect to your instances.

Here are some helpful resources to get you started

- How to connect to your Linux instance
- Amazon EC2: User Guide
- Learn about AWS Free Usage Tier
- Amazon EC2: Discussion Forum

While your instances are launching you can also

- Create status check alarms to be notified when these instances fail status checks. (Additional charges may apply)
- Create and attach additional EBS volumes (Additional charges may apply)
- Manage security groups

[View Instances](#)

You get the msg in green color – click on View Instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
DATABASE	i-002734212833ab182	Running	t2.micro	-	No alarms	us-east-2c	ec2-3-15-176-186.us

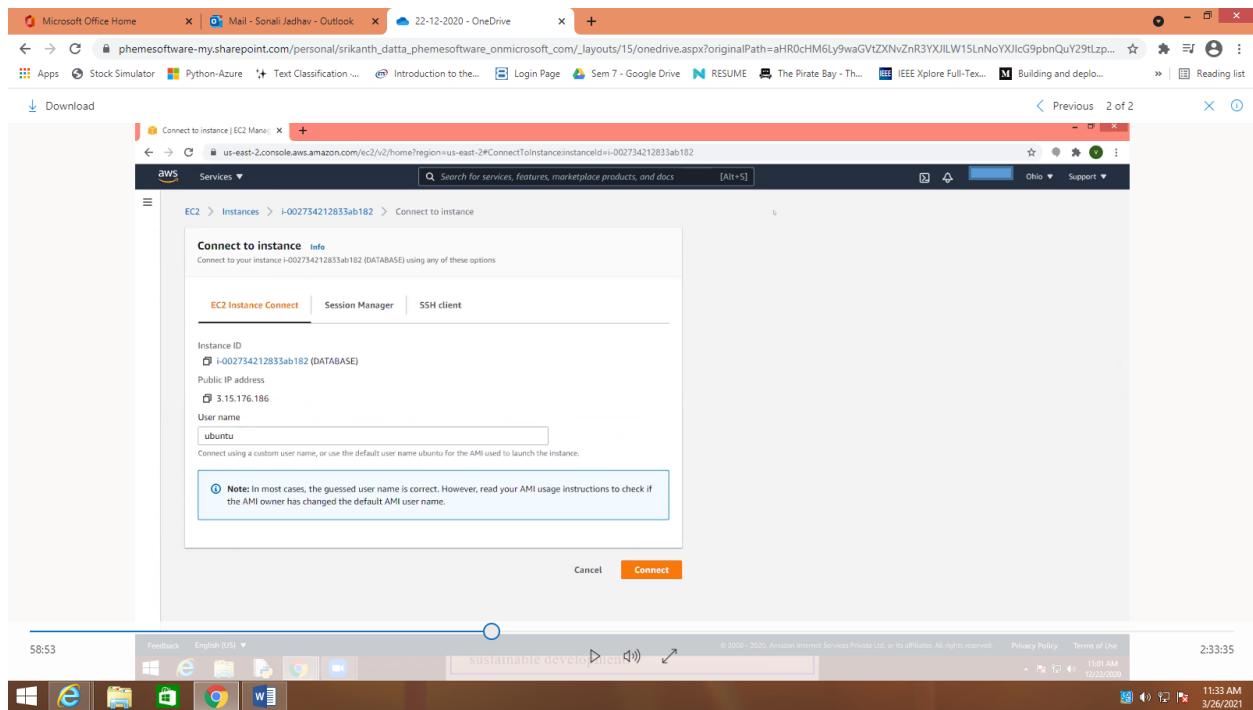
[Launch Instances](#)

The screenshot shows the AWS EC2 Instances page. On the left, there's a navigation sidebar with options like EC2 Dashboard, Events, Tags, Limits, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, and Elastic Block Store. The main content area displays a table titled 'Instances (1) Info'. The table has columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IPv4 DNS. One row is listed: DATABASE, i-002734212833ab182, Running, t2.micro, 2/2 checks passed, No alarms, us-east-2c, ec2-3-15-176-186.us. Below the table, it says 'Select an instance above'. At the top of the page, there's a message: 'Welcome to the new instances experience! We're redesigning the EC2 console to make it easier to use. To switch between the old console and the new console, use the New EC2 Experience toggle above the navigation panel. We'll release updates continuously based on customer feedback.' A 'Launch Instances' button is at the top right. The bottom of the page includes a footer with links like Feedback, English (US), Privacy Policy, Terms of Use, and a timestamp of 10:57 AM 12/29/2020.

Click on refresh button because we need **Status check tab – 2/2 check pass**

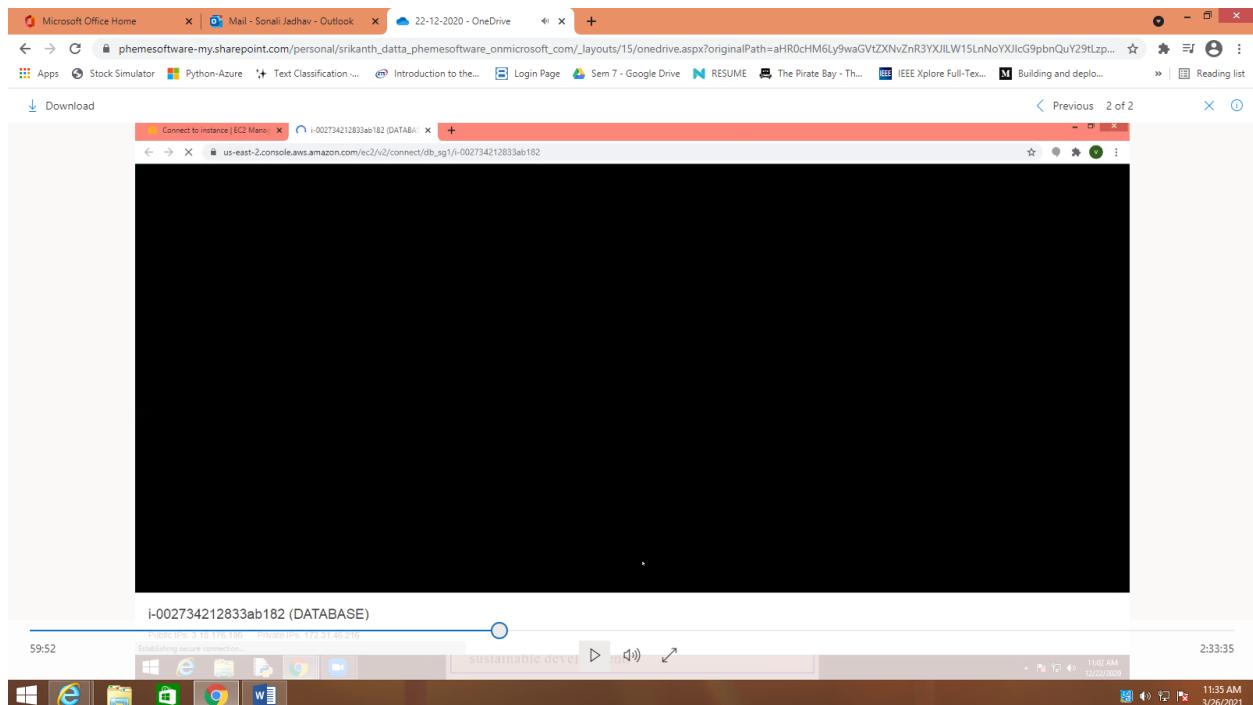
This screenshot is similar to the previous one but shows the 'Status Checks' tab selected for the 'DATABASE' instance. The table now shows '2/2 checks passed' under the 'Status check' column. The rest of the interface and footer are identical to the first screenshot.

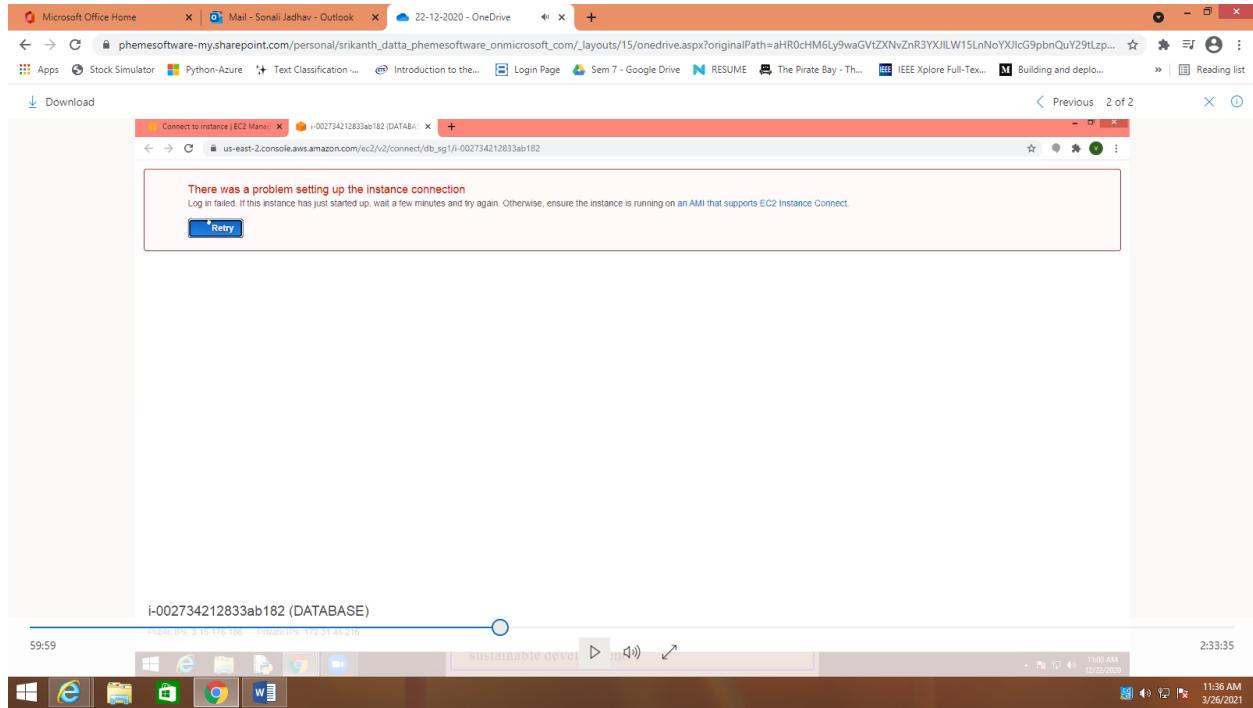
Select check box which is present at before name **DATABASE** and click on **connect** Button



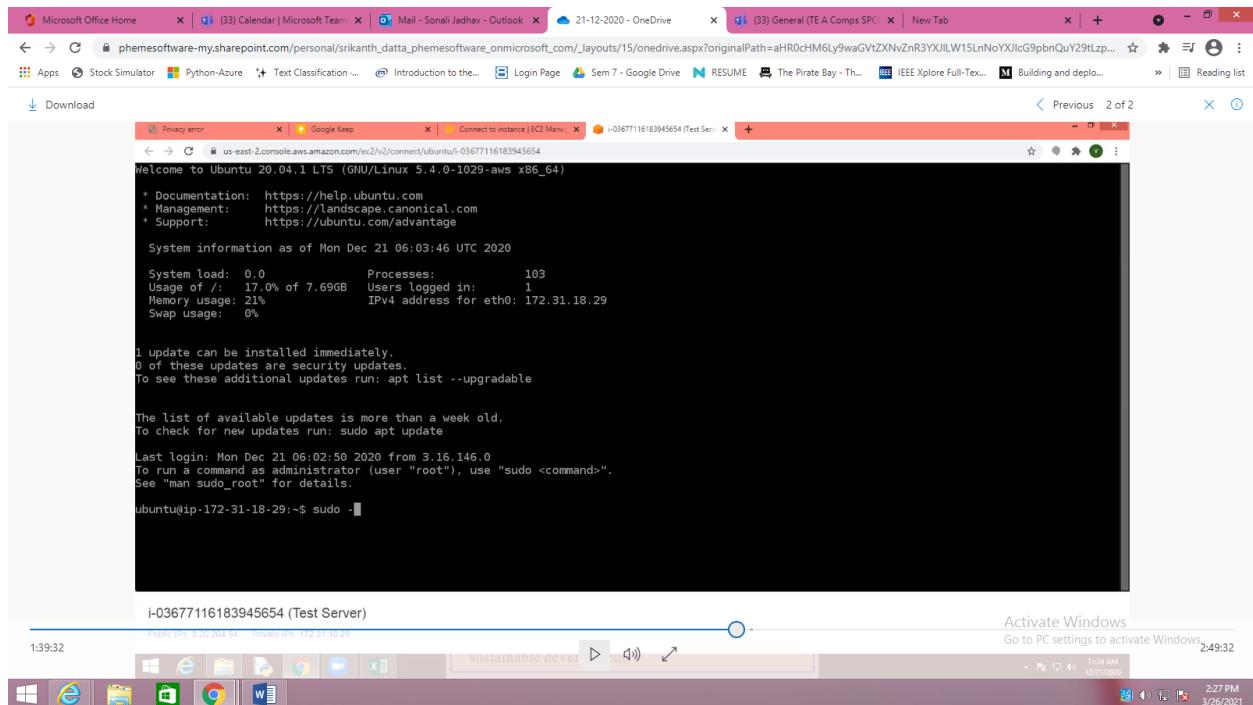
Here you can change the user name if you want – like **db_sg1**

Step- click on **Connect**





Some time it display error because of bandwidth issue ,so that time simply click on **retry** button.



Next step perform some command on your Ubuntu server-

\$ sudo – (root login)

apt update (update your system)

```
# top          (table of processes, which are the running processes in our system and also check usage management)

Press Ctrl+c or press q for end top command.

# history

# vmstat      (virtual memory static ,how much memory in the buffer,in the cache,what is in the input,output,systems and the cpu)

# df          (disk file system)

#df -kh        (k-kilobyte h-human readable)

#whatis df     (using whatis command take help from system)

#df -- help    (help command)

# ctrl + l     (clear the screen)

#uname -a      (information related to ip, kernel version)
```

All are Validation steps for checking your EC2 instant working properly or not(check system performance).

```
# mkdir test

# ls

# cd test

test# touch file1      (create file)

# ls

# touch file2 file3

# ls

# rm file1           (remove file)

# ls

# rm file*          (remove all files)

# ls

# cd ..

# ls
```

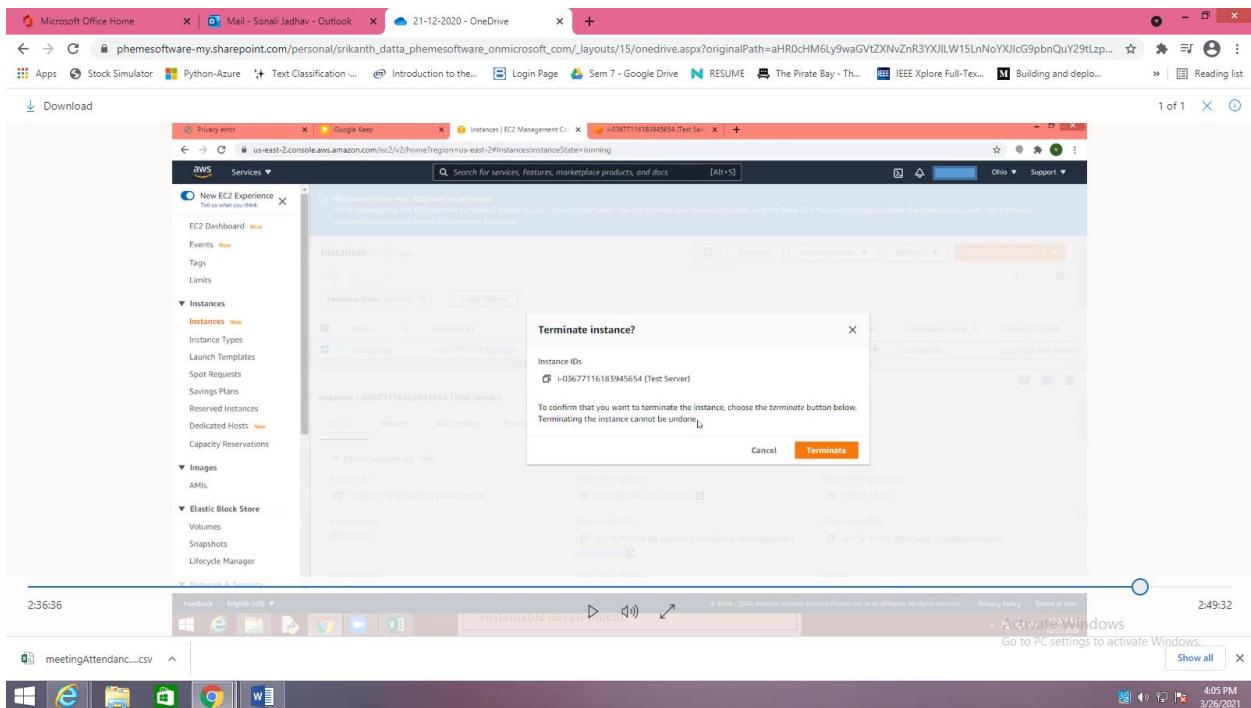
```
# rmdir test
# ls
# mkdir test1 test2 test3
#ls
# rmdir test*
# ls
```

The screenshot shows the AWS EC2 Management Console interface. On the left, there's a navigation sidebar with options like 'Instances', 'Images', and 'Elastic Block Store'. The main area displays a list of security groups, including one named 'test_sg'. A modal window titled 'Delete security groups' is open, asking for confirmation to delete 'sg-0c14ed93b4e3b4487 - test_sg'. The 'Delete' button in the modal is circled in red.

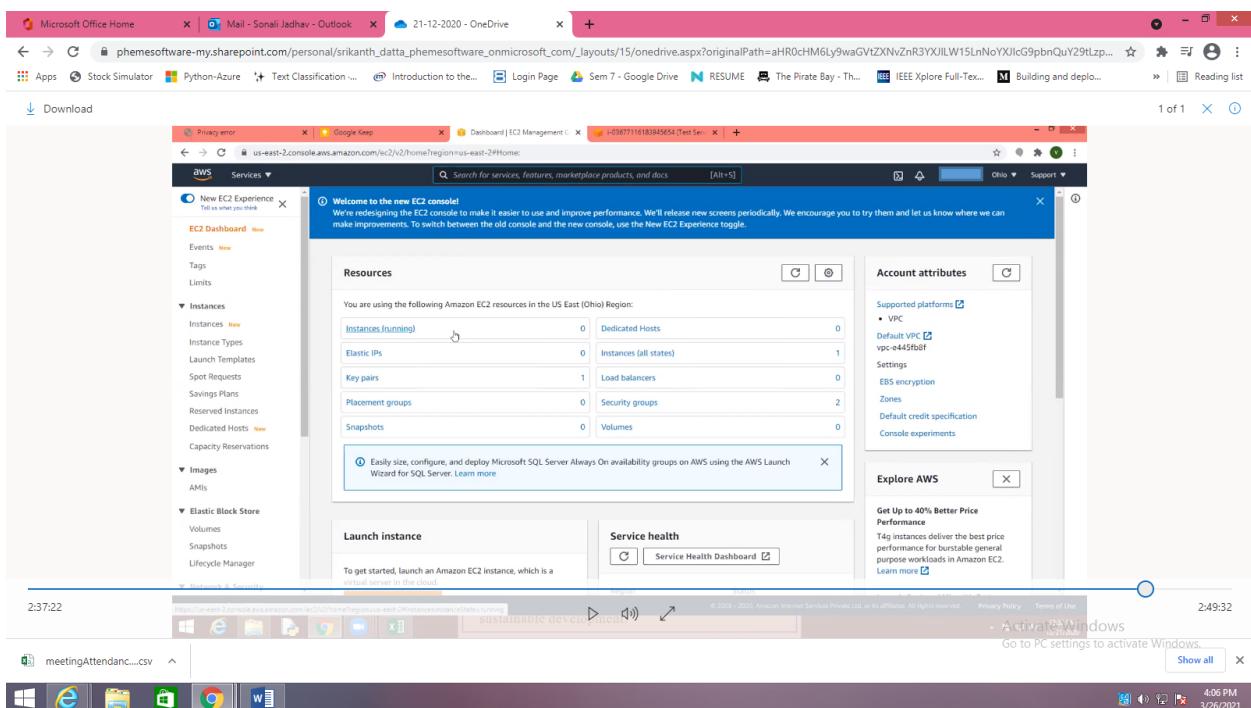
The screenshot shows the 'Instances' page in the AWS EC2 Management Console. It lists a single instance named 'Test Server' with the ID 'i-03677116183945654'. The instance state is 'running'. The 'Actions' dropdown menu is open, and the 'Terminal Instance' option is circled in red.

This screenshot is similar to the previous one but shows the 'Actions' dropdown menu closed. The 'Terminal Instance' option is no longer circled in red.

select the checkbox which is available at the start of your name of instant , then click on **Instant State** Button on the top and select **Terminal Instance**



Click on **Terminate**



Again check EC2 dashboard Instances running = 0

Volume =0

Now click on Security group

The screenshot shows the AWS EC2 Management Console with the 'Security Groups' page open. The table lists two security groups:

Name	Security group ID	Security group name	VPC ID
sg-0c14ed93b4e3b4487	test_sg	vpc-e445fb8f	
sg-0a8ef15d8	default	vpc-e445fb8f	

A context menu is displayed over the first row ('test_sg'), with the 'Delete security group' option highlighted.

Click in the checkbox at the starting of your name then click on **Action** button and select **delete security group**

Again check EC2 DASHBOARD now your security group = 1 only

Inscances (running) = 0

Volume = 0

Here you terminated your EC2 Instance.