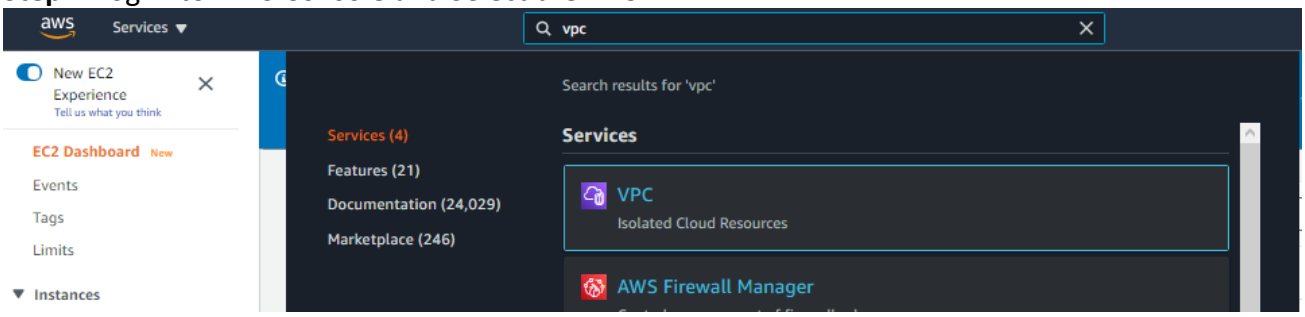
Lab 1

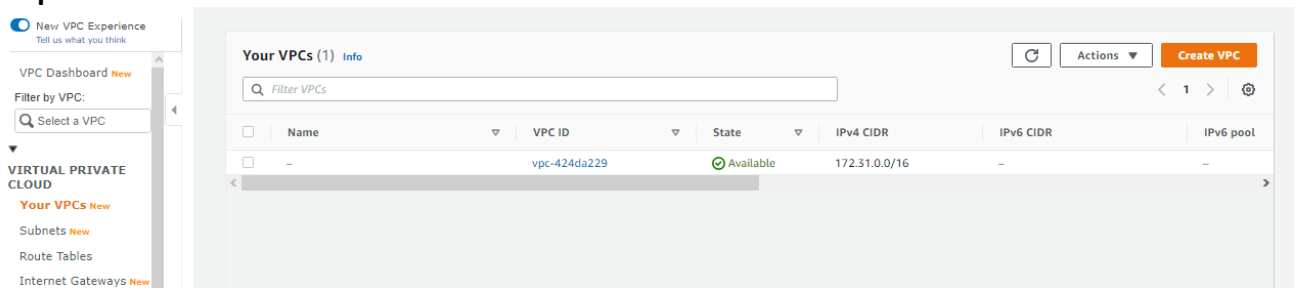
Launch a Linux or Window Server by creating VPC, Route Table in a cloud.

A virtual private cloud(VPC) is the logical division of service provider's public cloud multi-tenant architecture to support private cloud computing. This model enables an enterprise to achieve the benefits of private cloud to enable more granular control over virtual networks and an isolated environment for sensitive workloads while still taking advantages of public cloud resources.

Step1: Log in to AWS Console and Select the VPC

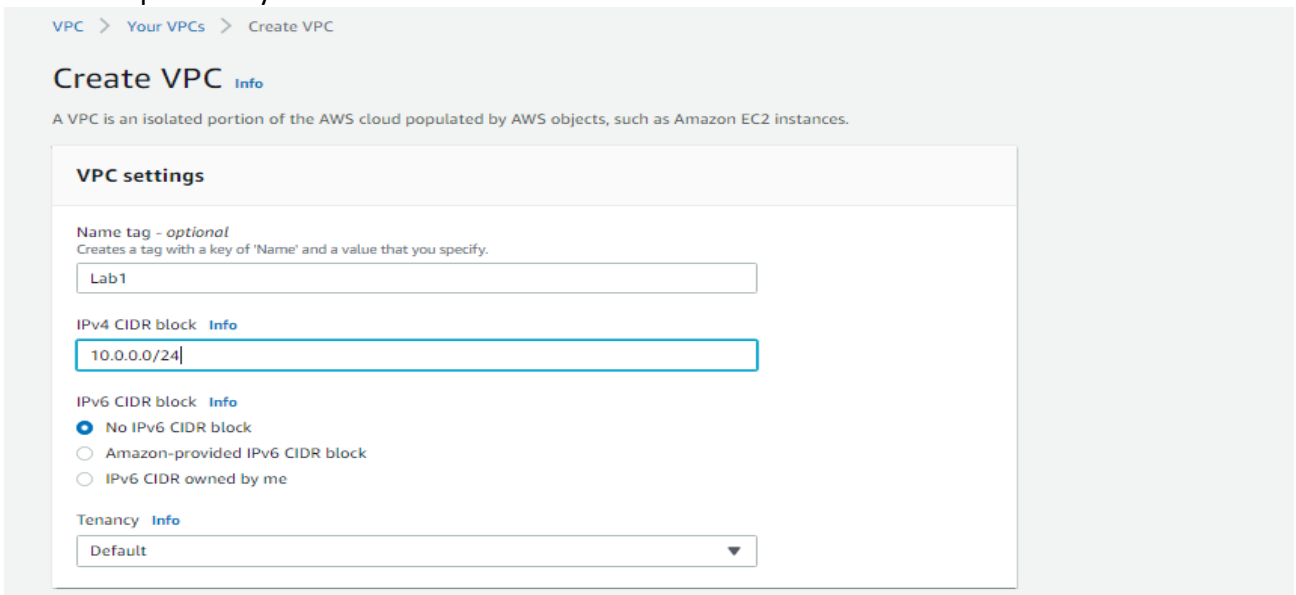


Step 2: Click on Create a Your VPC from Left Side Menu.Now Click on Create VPC button

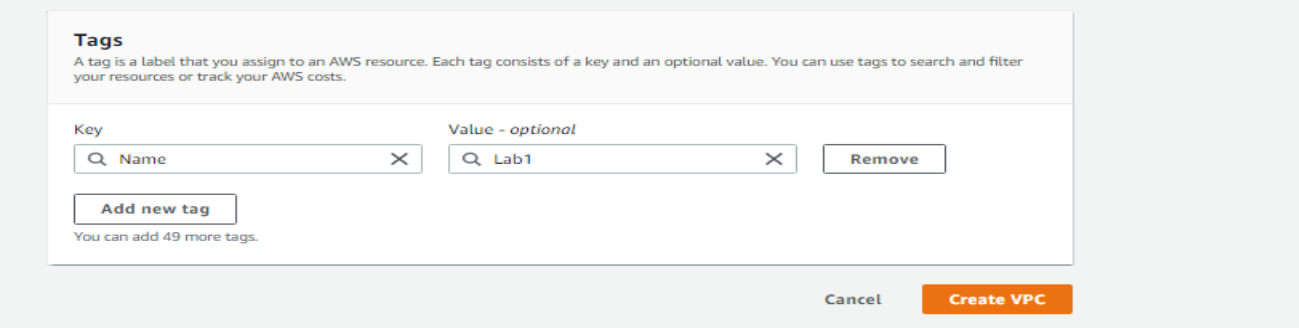


Step 3:

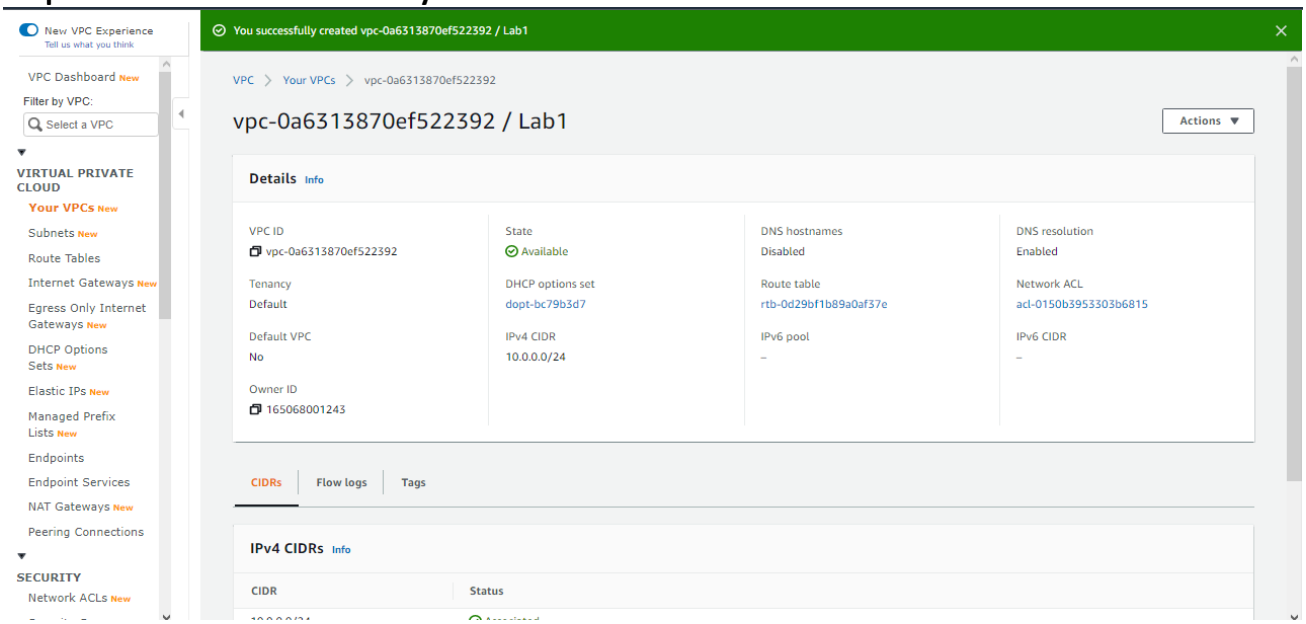
- Now Enter the name for VPC
- Enter the CICDR Block as 10.0.0.0/24
- Keep Tenancy as Default



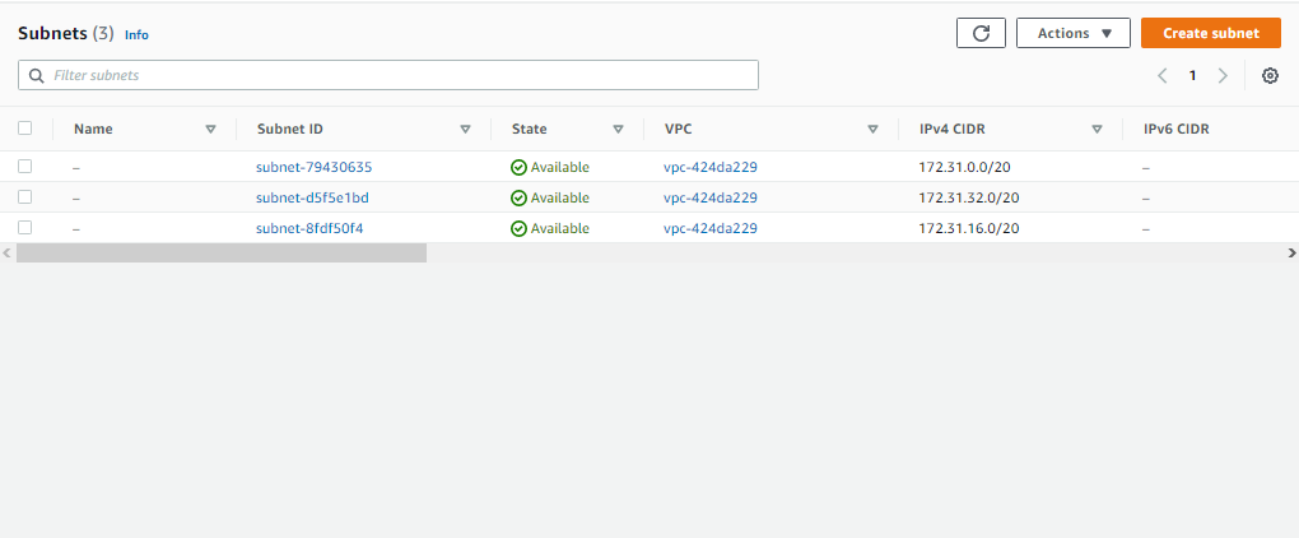
Step 4: Click on create VPC



Step 5: VPC Created Successfully



Step 6: Create the subnet once after creating the VPC



Step 7:

- Enter the name for subnet
- Select the avilability zone
- Enter the CICDR Block

Then click on create Subnet

Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

Subnet name

Create a tag with a key of 'Name' and a value that you specify.

Lab1-Subnet

The name can be up to 256 characters long.

Availability Zone Info

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

No preference

IPv4 CIDR block Info

10.0.0.0/24

▼ Tags - *optional*

Key	Value - *optional*	
Name	Lab1-Subnet	Remove

Add new tag

You can add 49 more tags.

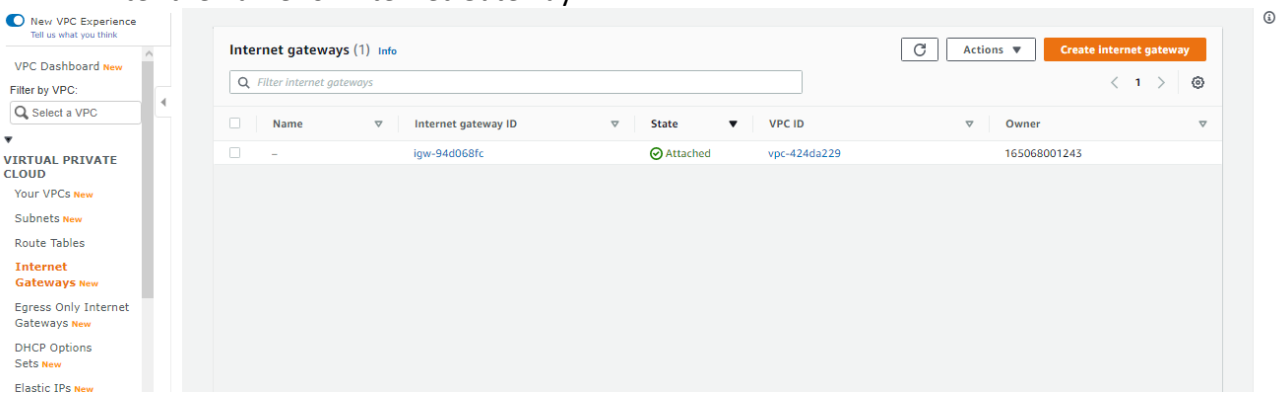
Remove

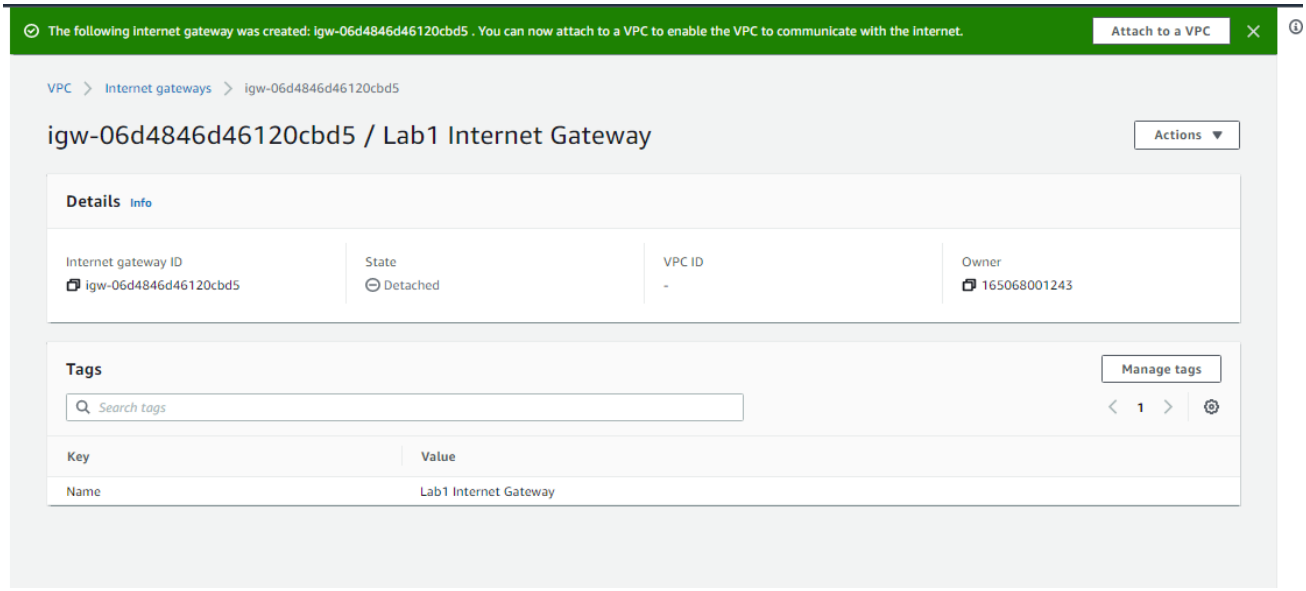
Add new subnet

Cancel Create subnet

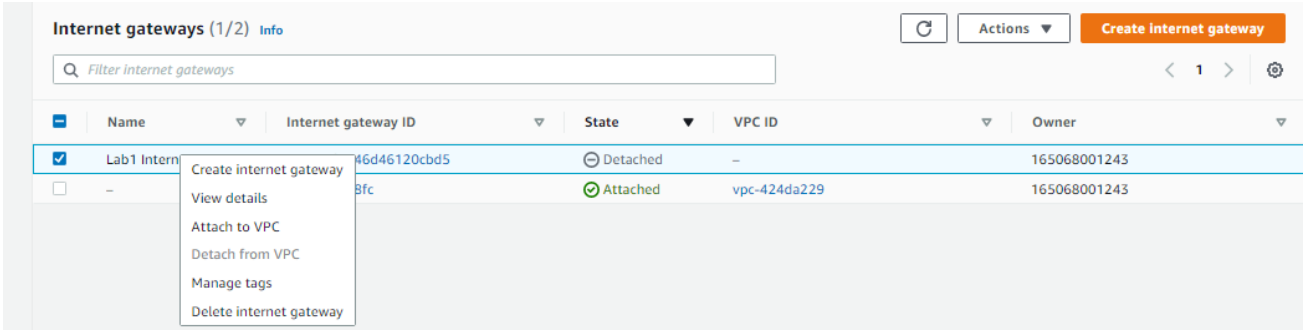
Step 8: Next create the internet gateway creation

- Enter the name for Internet Gateway

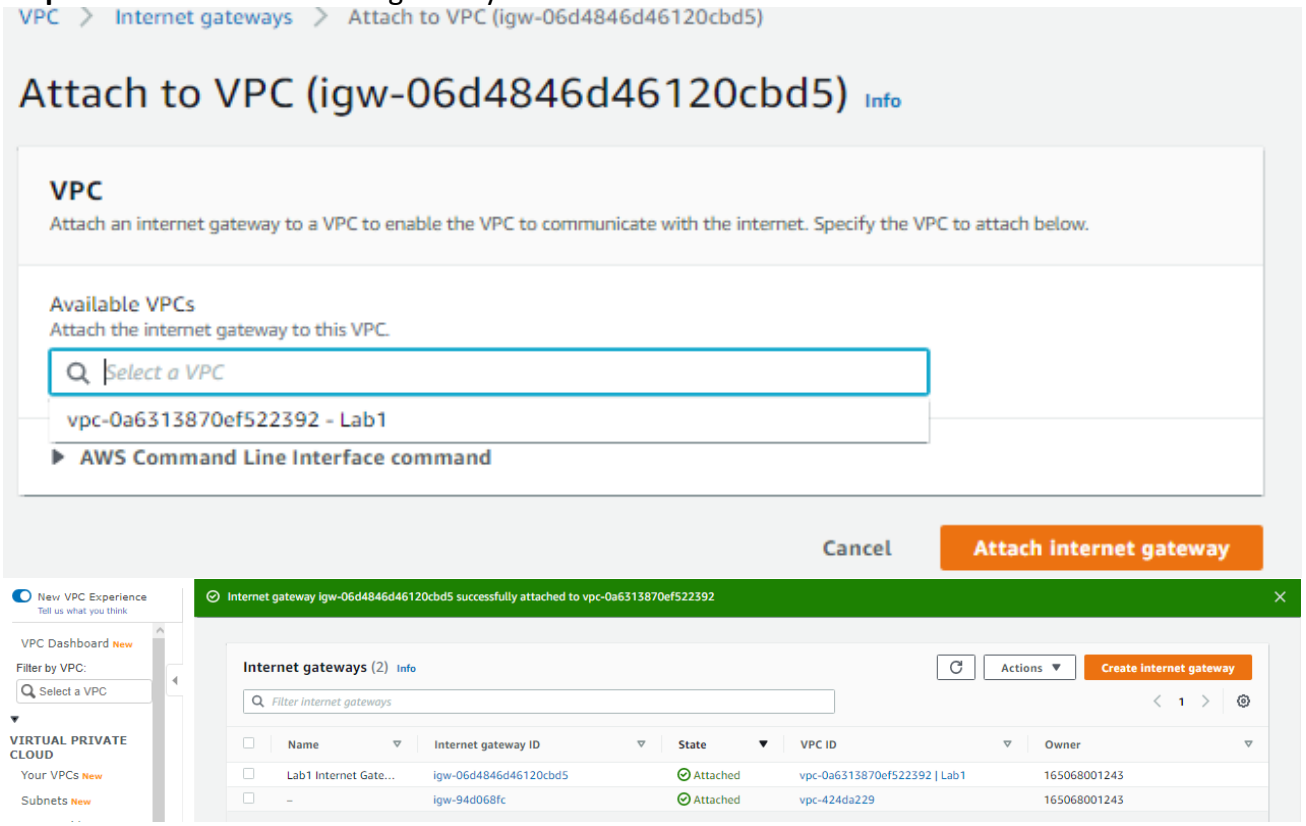




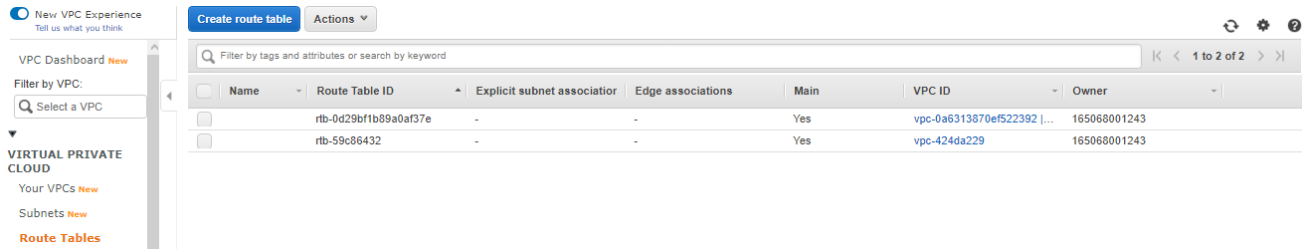
Step 9: Now Attach the created internet gateway to the VPC by right click and click on attach to VPC



Step 10: Now attach internet gateway to VPC

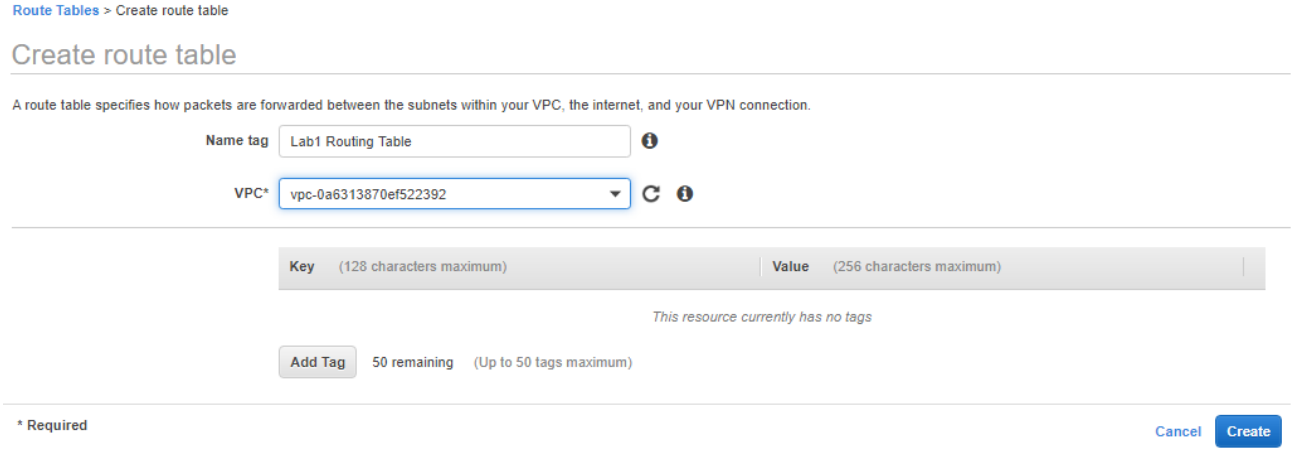


Step 11: Now Click on Create route table button to create Route Tables

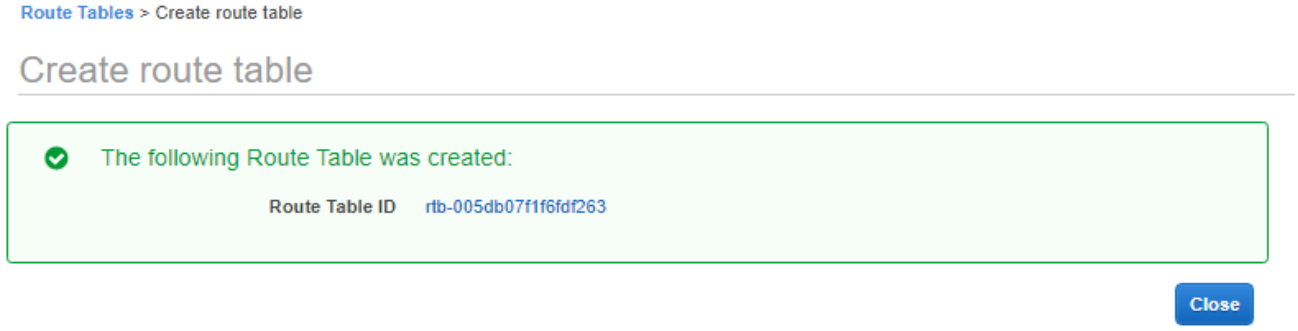


Step 12:

- Enter the Name for Route Table
- Now Select the VPC From the Drop down list(Already created VPC)

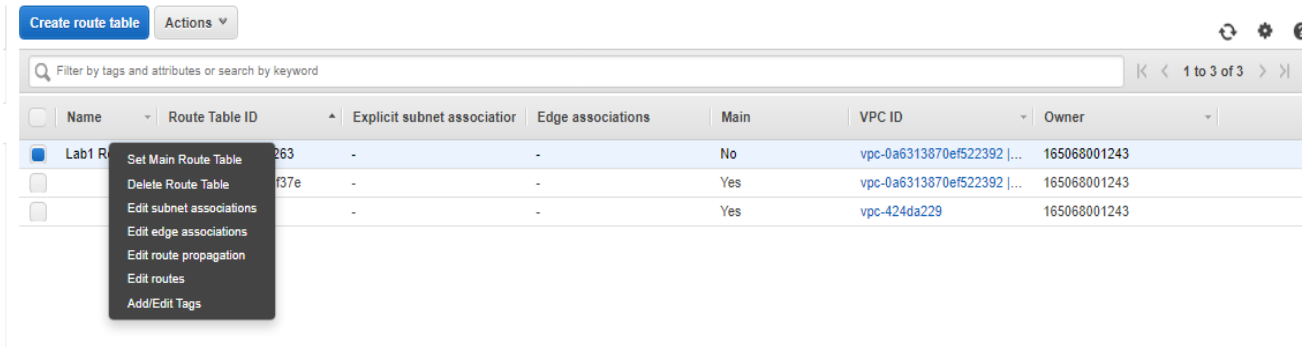


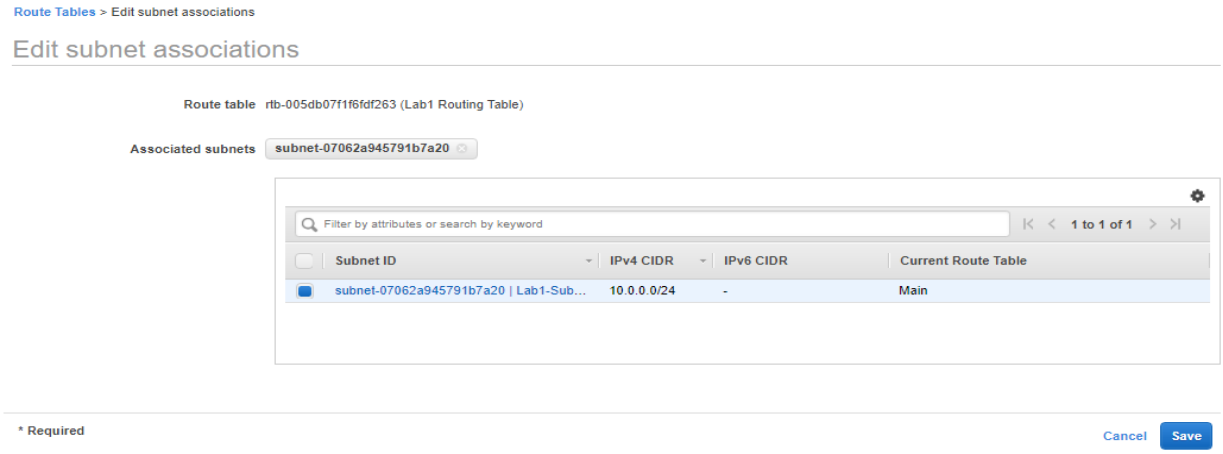
Step 13: Route Table Created



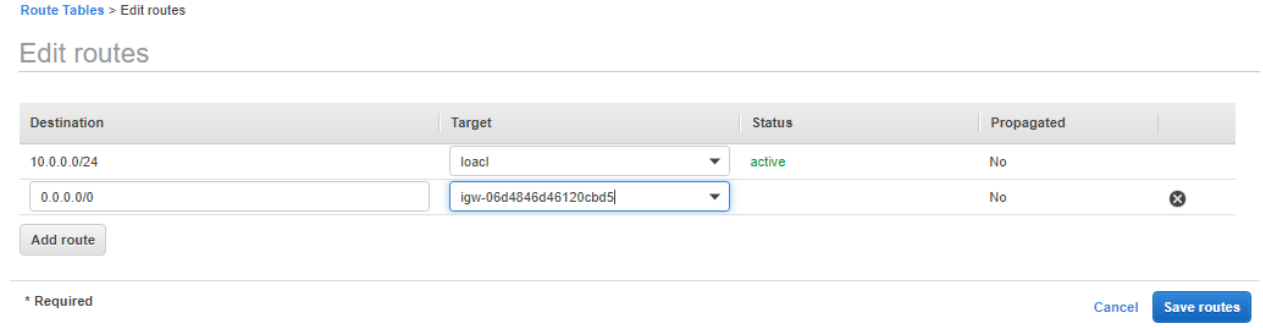
Step 14:

- Add subnet associations for route table
- Select the subnet ID that you have created Associate it with the table

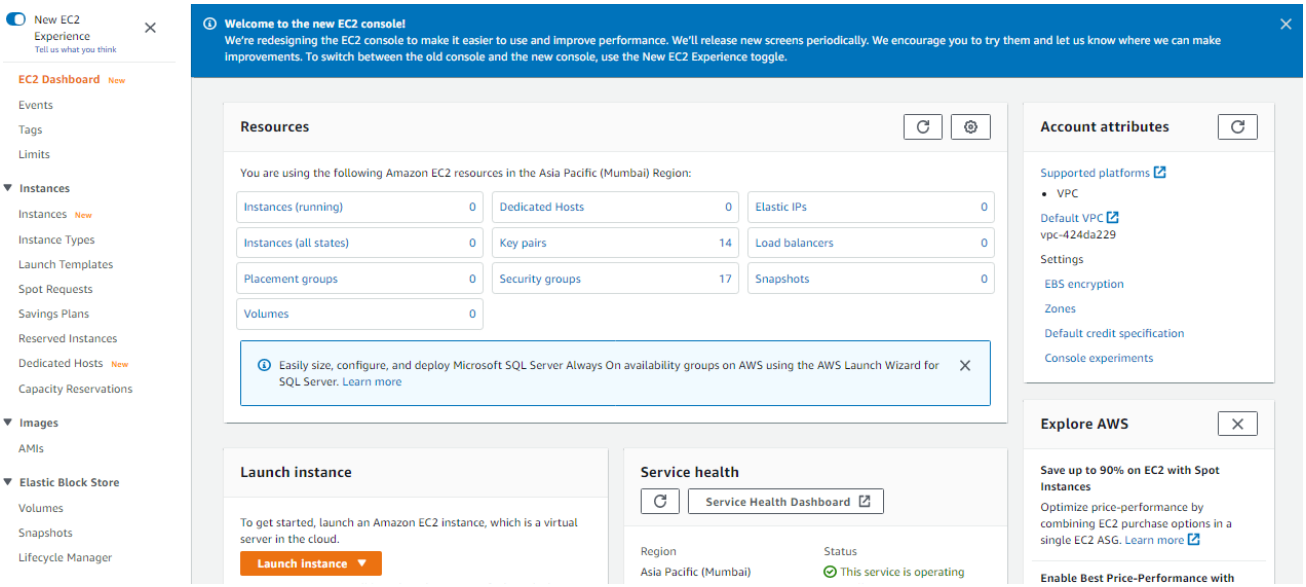




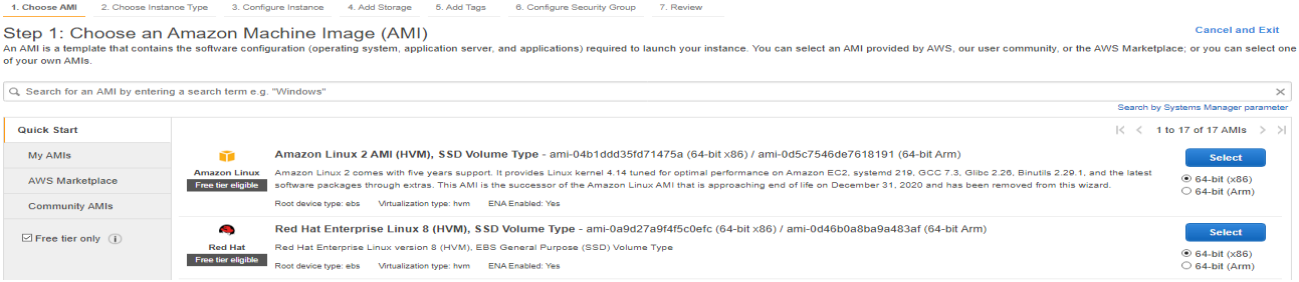
Step 15: Edit routes in route table then set the destination as 0.0.0.0



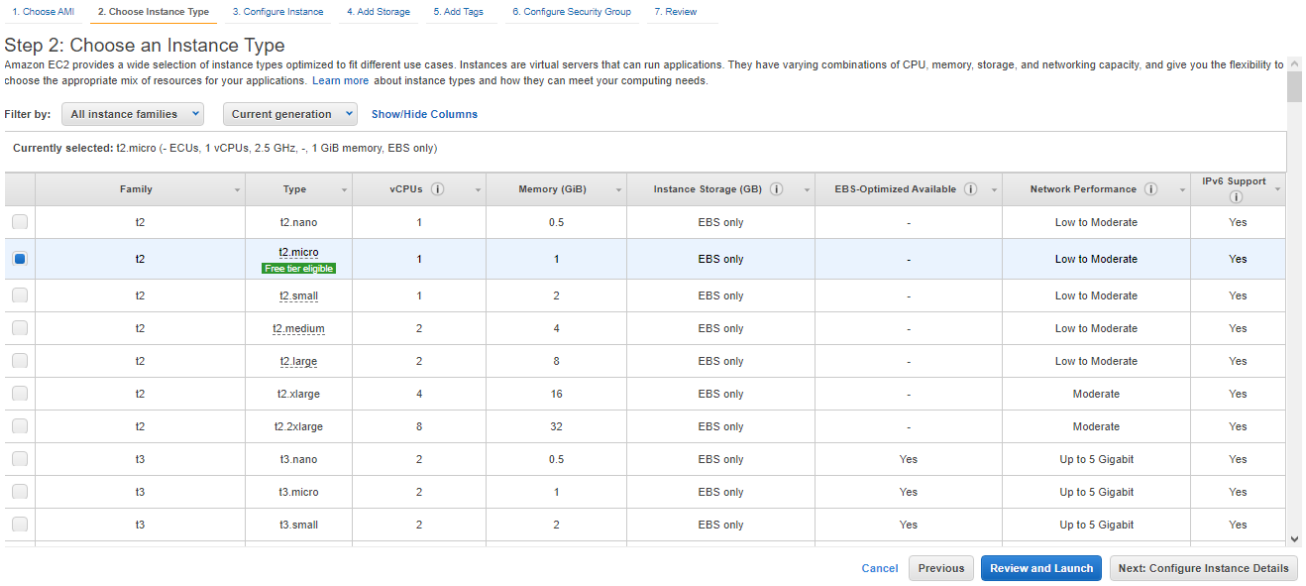
Step 16: Go to EC2 and click on launch instance

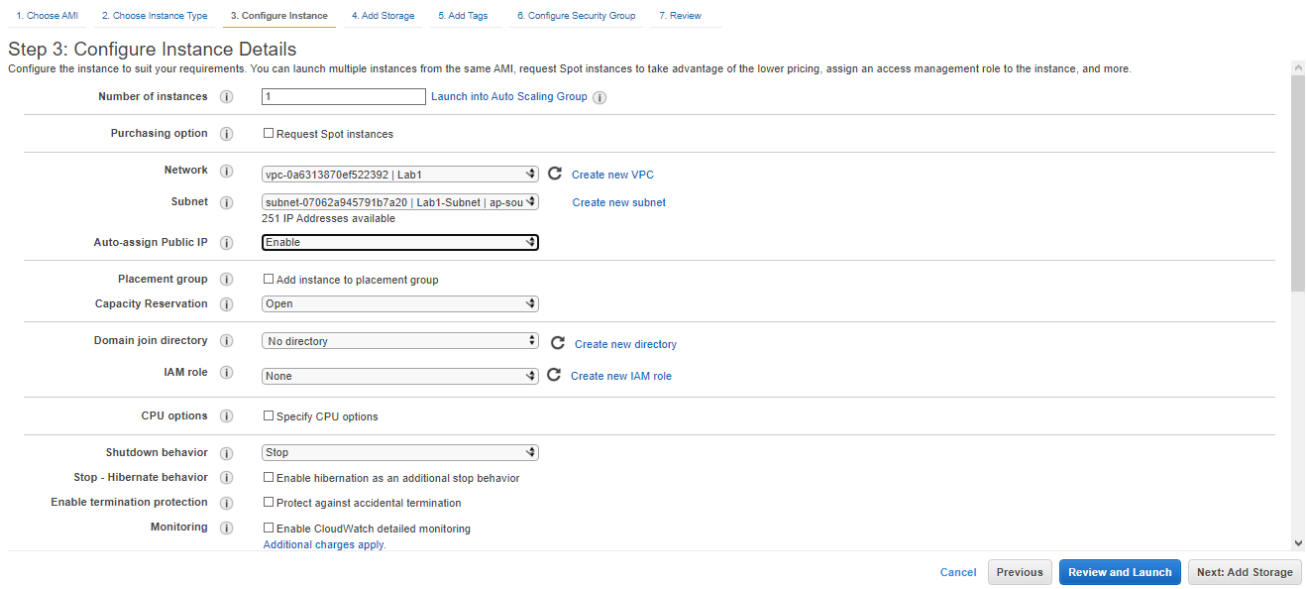


Step 17: Now choose any Linux instance from free tire

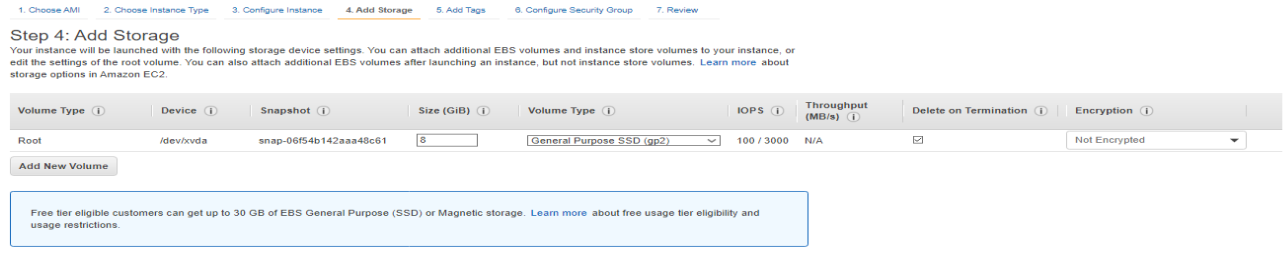


Step 18: Select t2.micro free tire eligible and click on launch instance

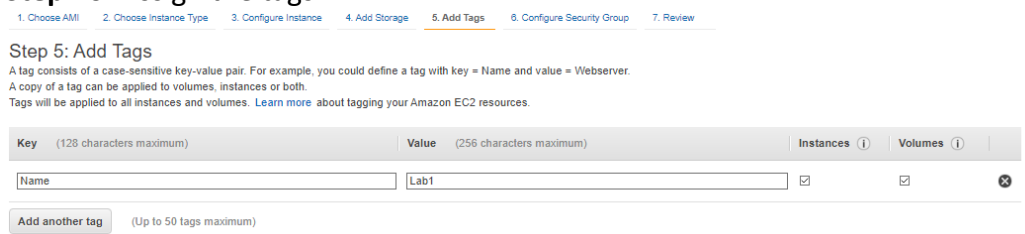




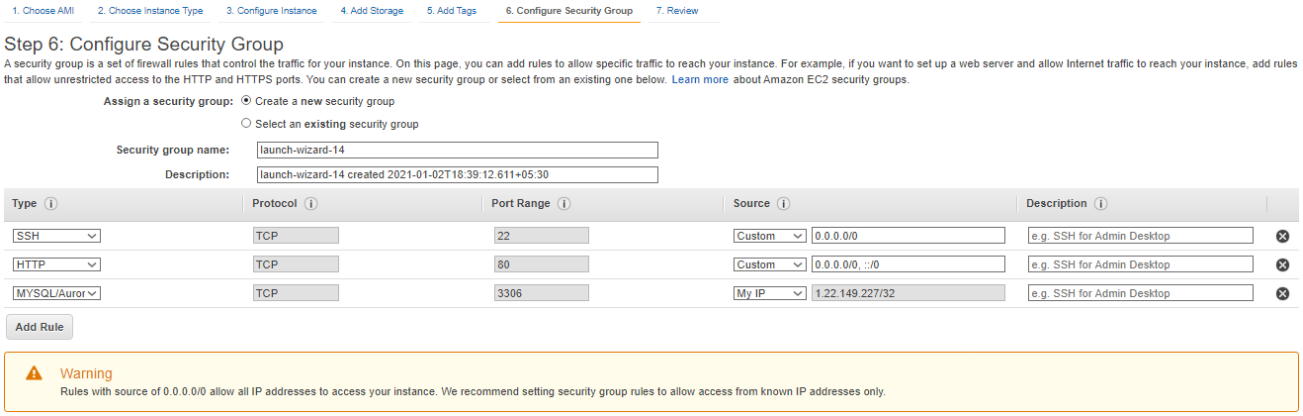
Step 19: Now add the storage for Linux Instance



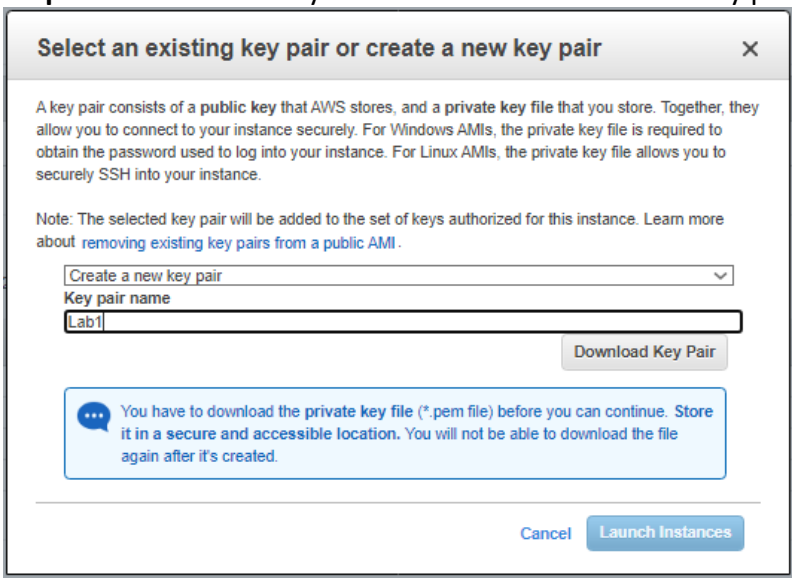
Step 20: Assign the tags



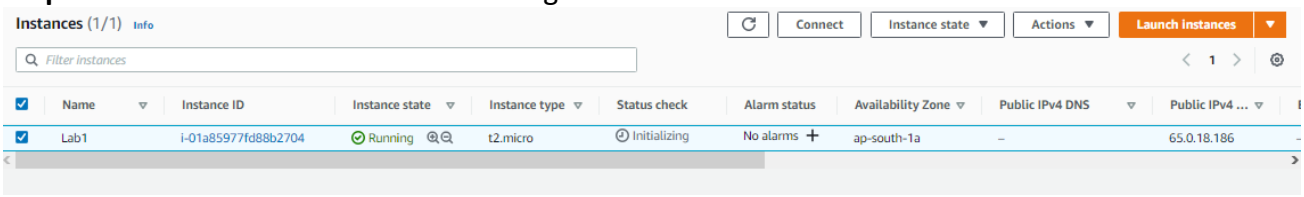
Step 21 : Add the HTTP,SSH rule in Configure security group

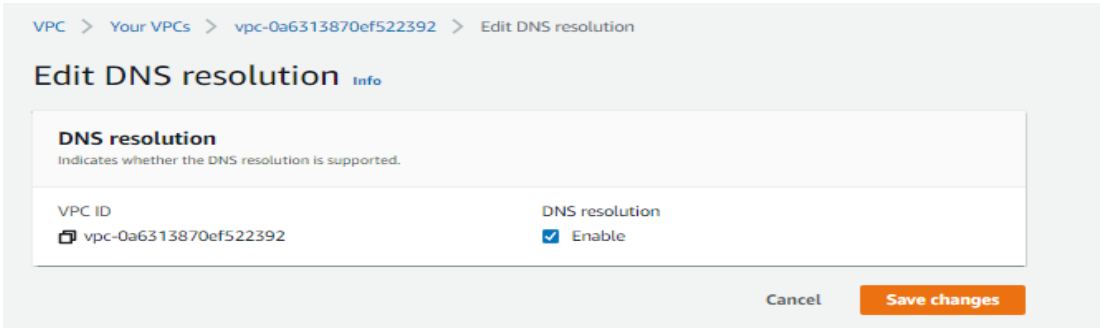


Step 22: Create new Key Pair and then download the key pair in your local machine

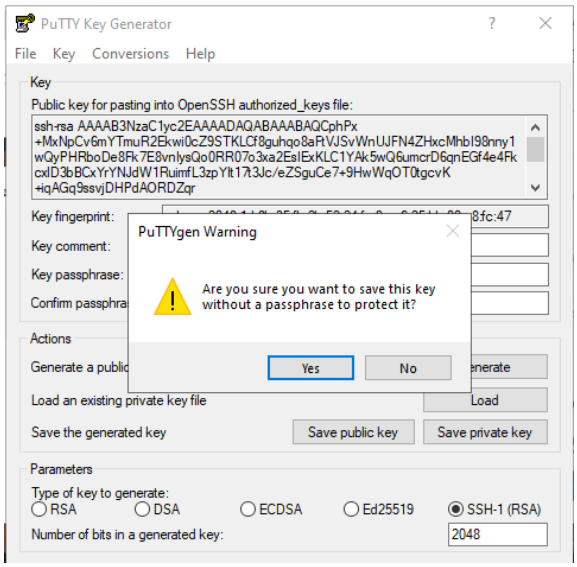


Step 23: Now our Linux Instance is running

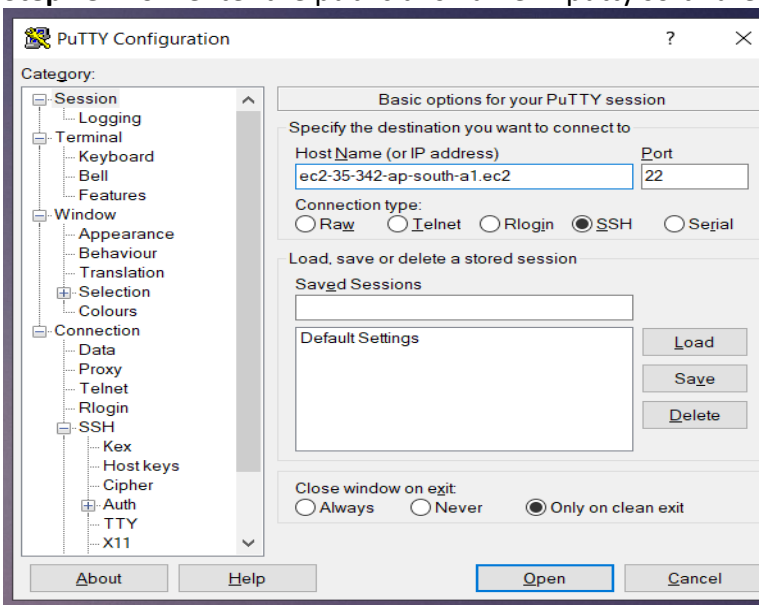




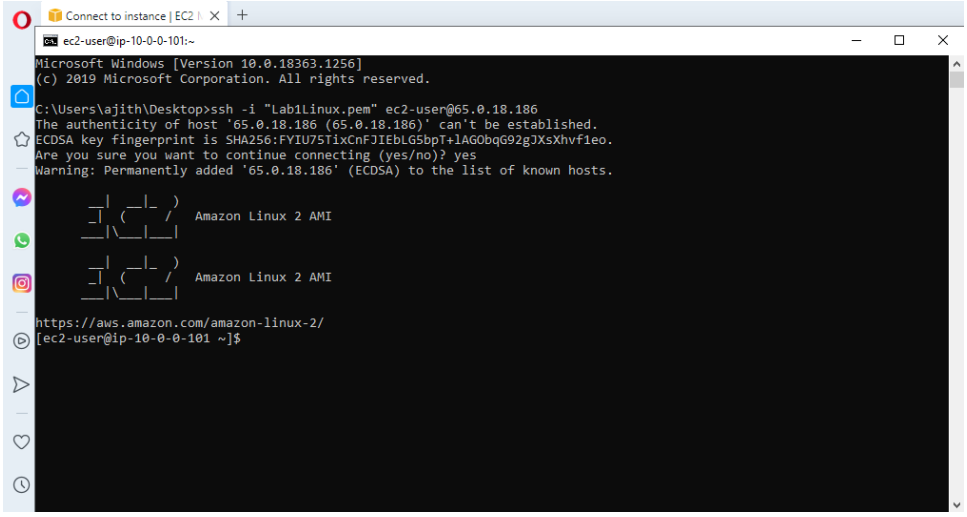
Step 24: Download the Putty Client application to connect Linux Instance. Open putty key generator and load the downloaded .pem file and convert and save the file



Step 25: Now enter the public dns name in putty software and click on open

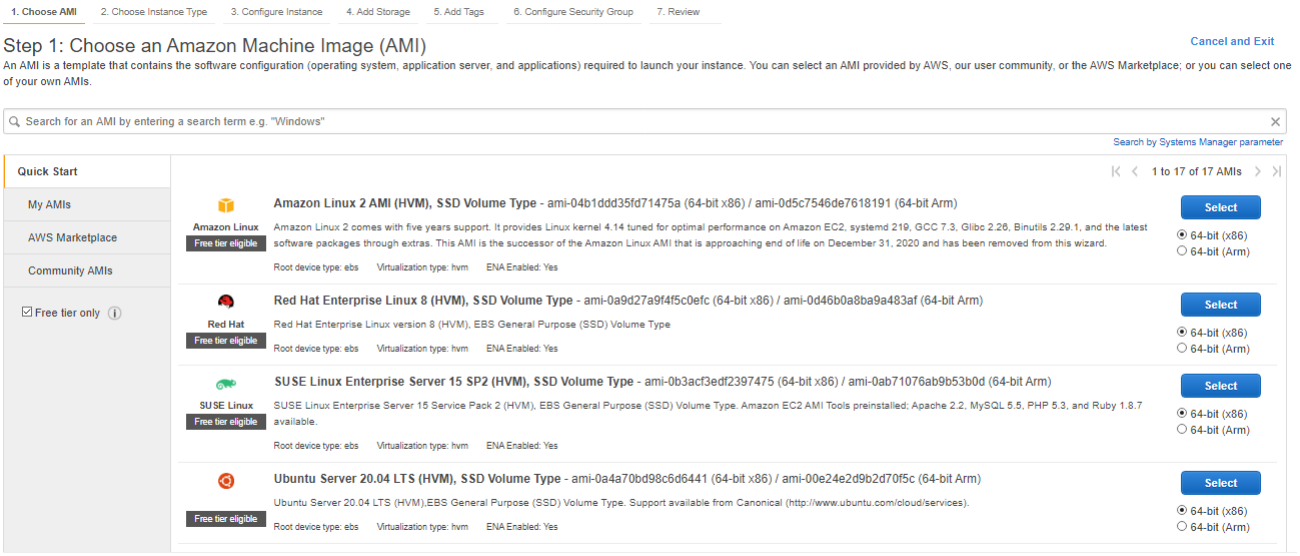


Step 26: Linux machine is connected

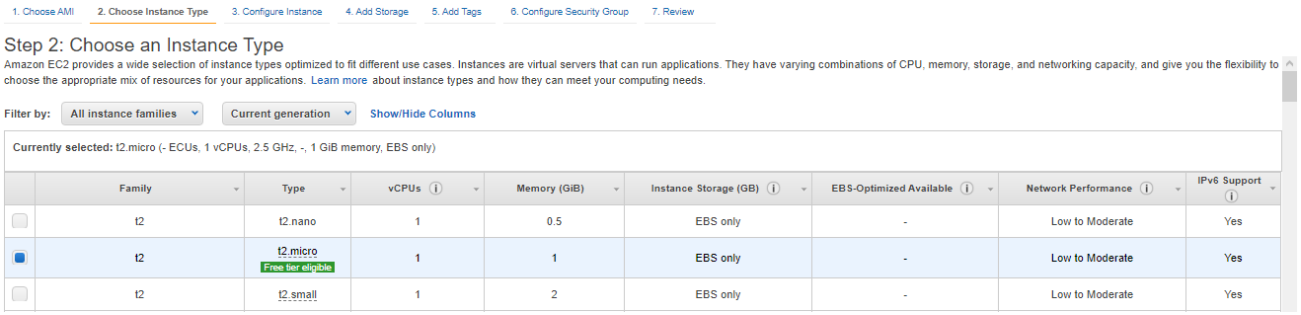


FOR WINDOWS INSTANCE

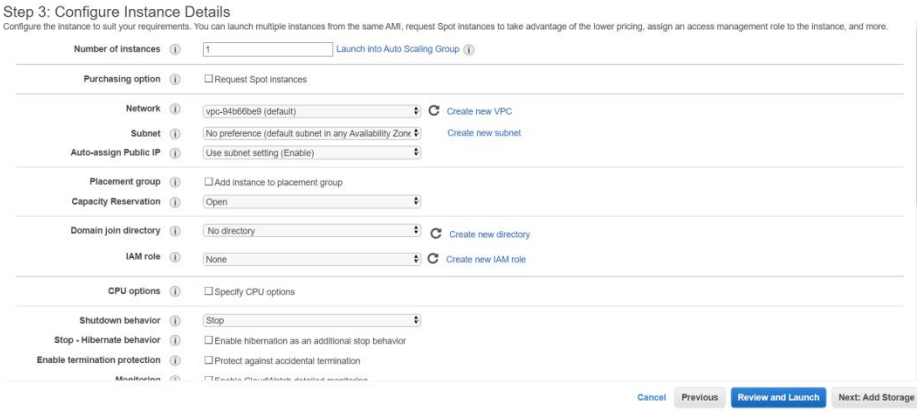
Step 1: Go to EC2 and click on launch instance and select Windows server VM



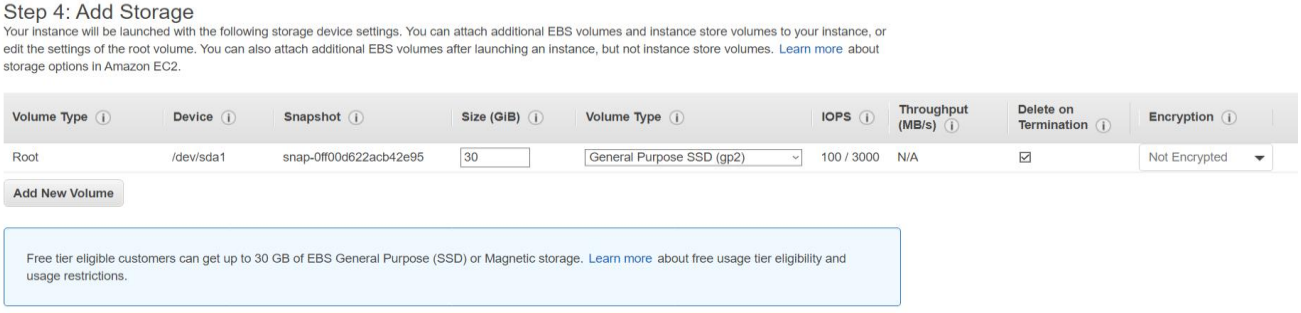
Step 2: Select the free tire eligible t2.micro



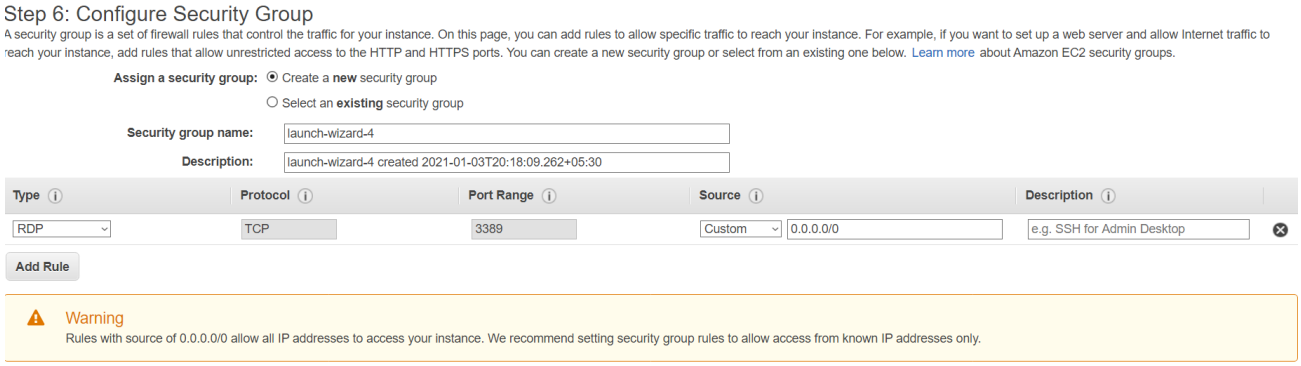
Step 3: Configure the instance details according your needs



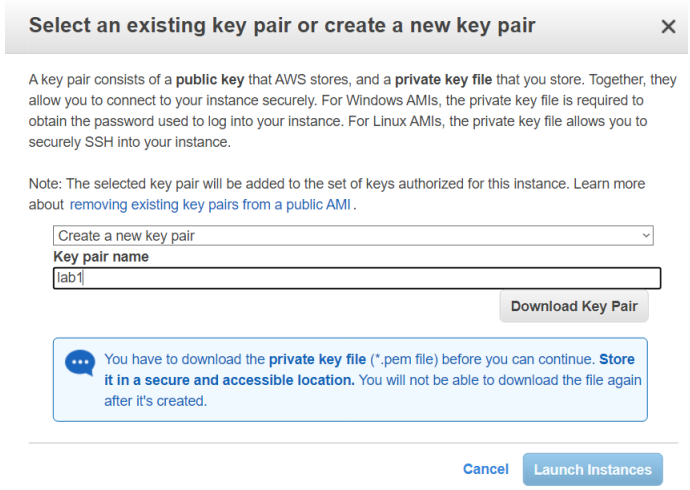
Step 4: Now add the storage for Windows instance



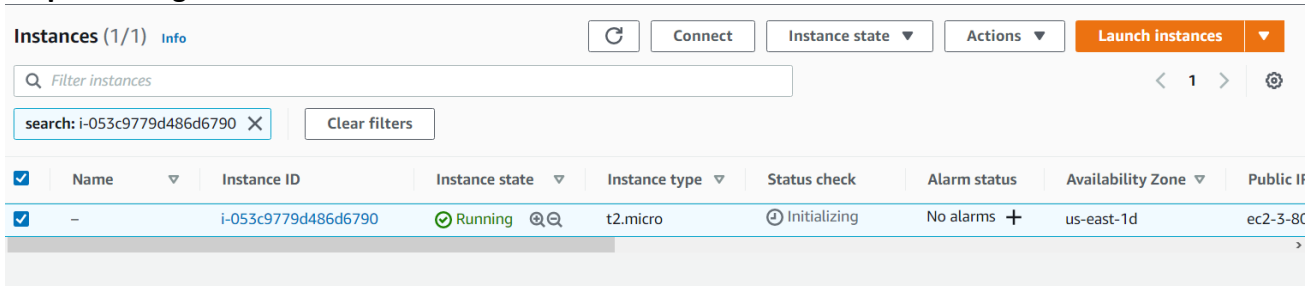
Step 5: In Configure Security group add the necessary rules



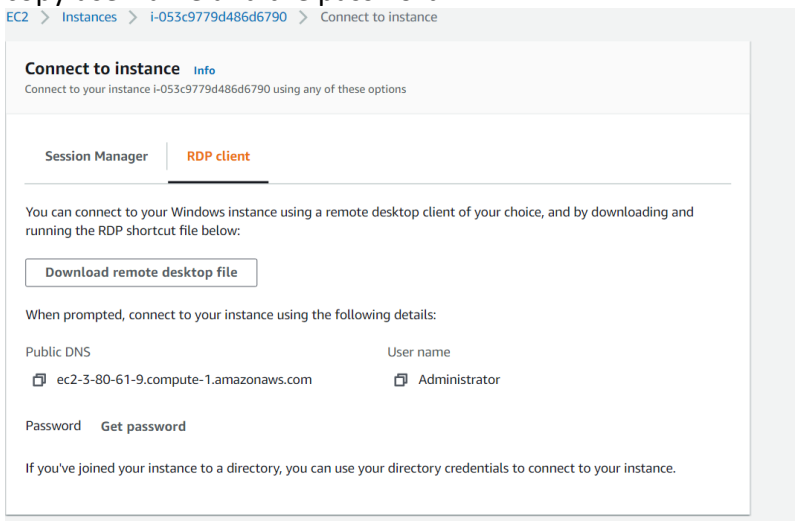
Step 6: Create a new key pair and download the key pair



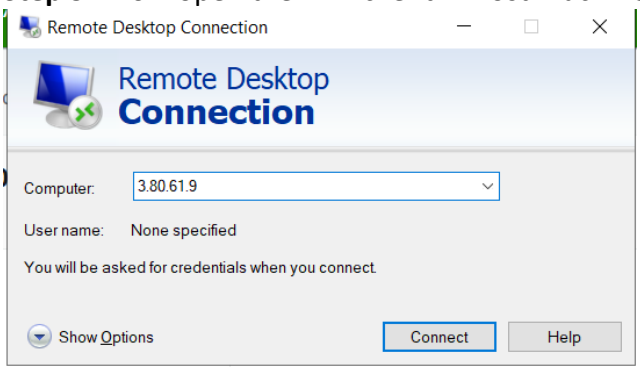
Step 7: Now got to ec2 dashboard and select instance click on connect button



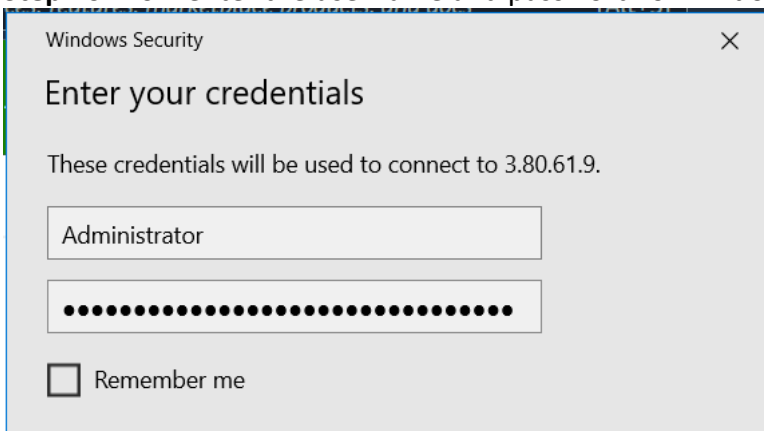
Step 8: Now upload the generated .pem file and upload here.Now click on generate password and copy username and the password



Step 9 : Now open the RDP client in host machine and enter the public ip of Windows instance



Step 10: Now enter the username and password for windows VM



Step 11: Now we successfully login to Windows Virtual Machine