AWS Node Setup procedure

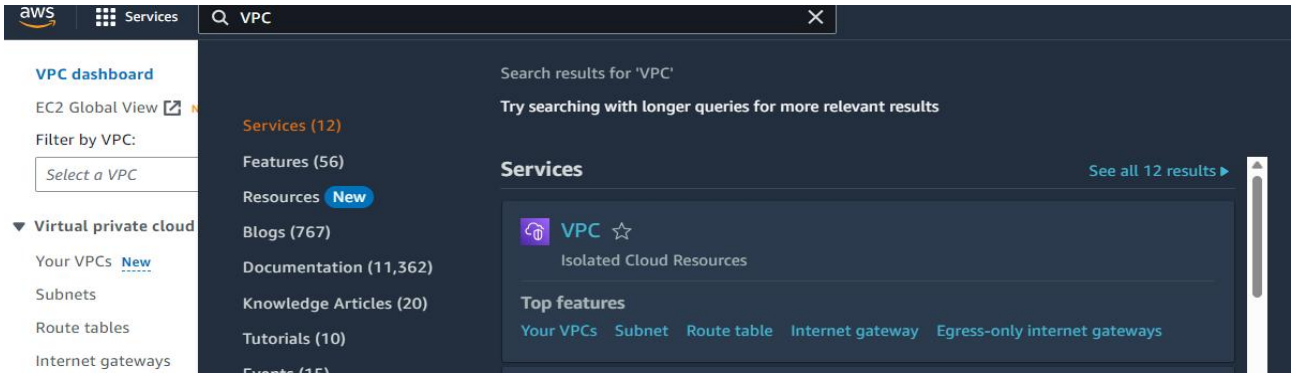
2.1 **Access Rules - AWS**

Select the region as eu-west-2

To set up access rules on AWS , following actions to be done.

2.1.2 **Create VPC**

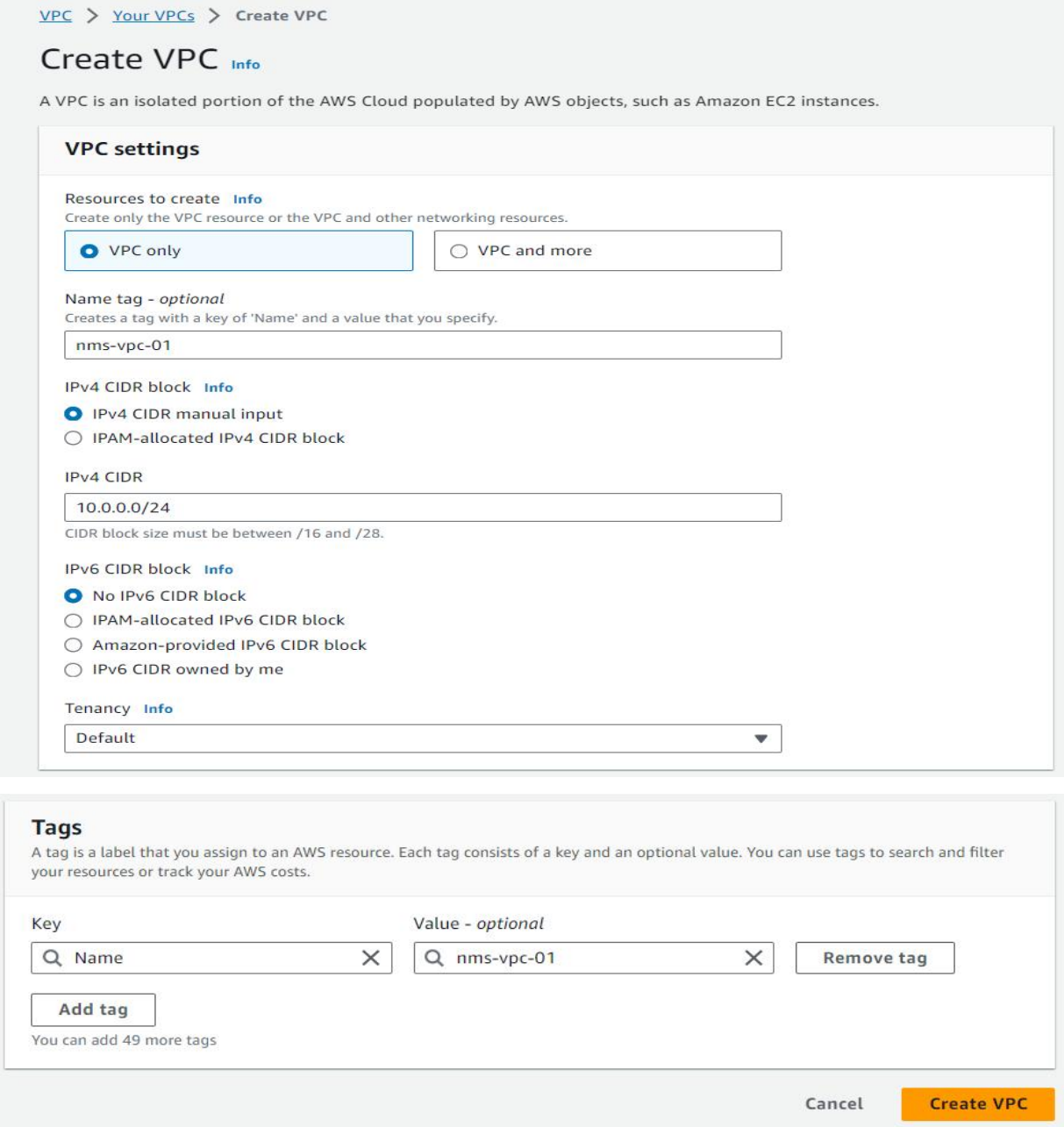
Go to AWS Console and type VPC in the search tab.



Now click on “Your VPCs”

Click on “Create VPC”

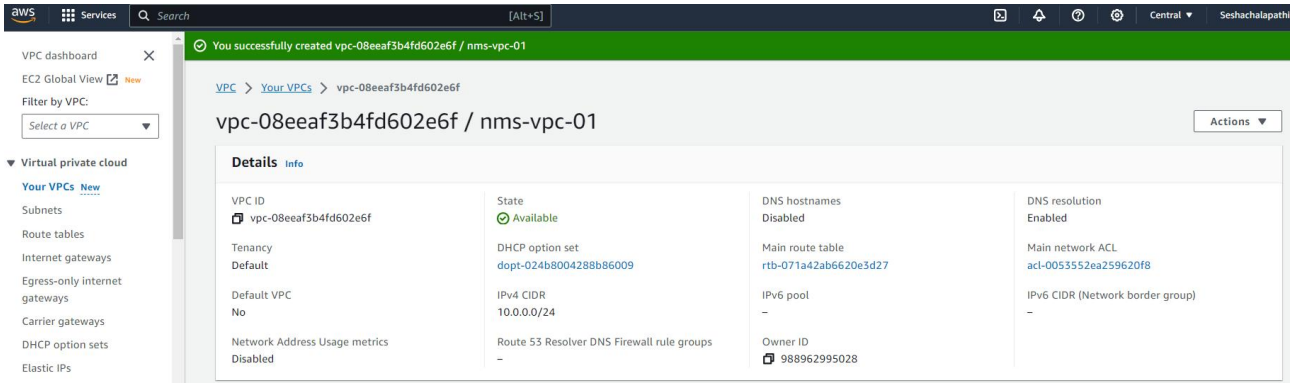
Enter VPC details as below.



you can provide a name for VPC or leave with default value.

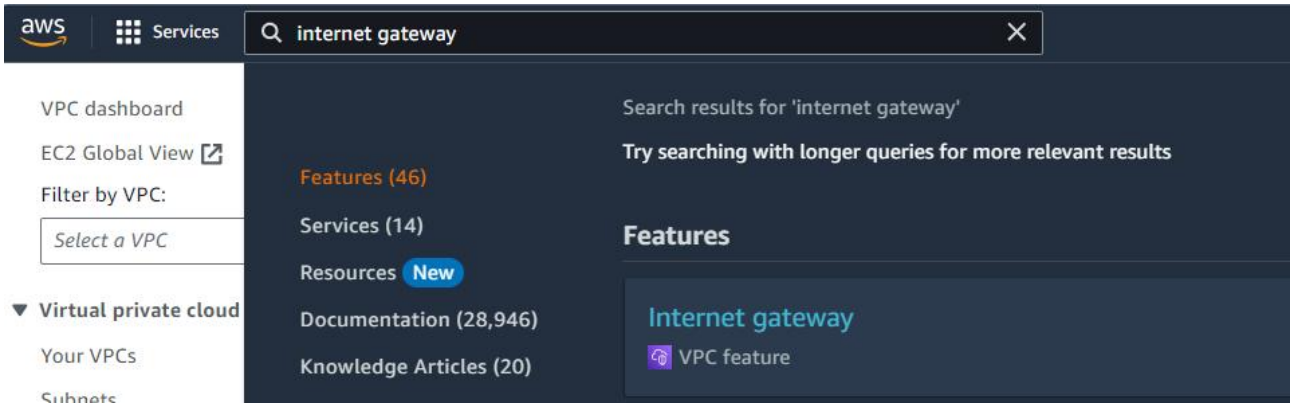
In IPv4 CIDR enter 10.0.0.0/24 or any other value which is suitable for you.

Now click on “Create VPC”. VPC is now created.



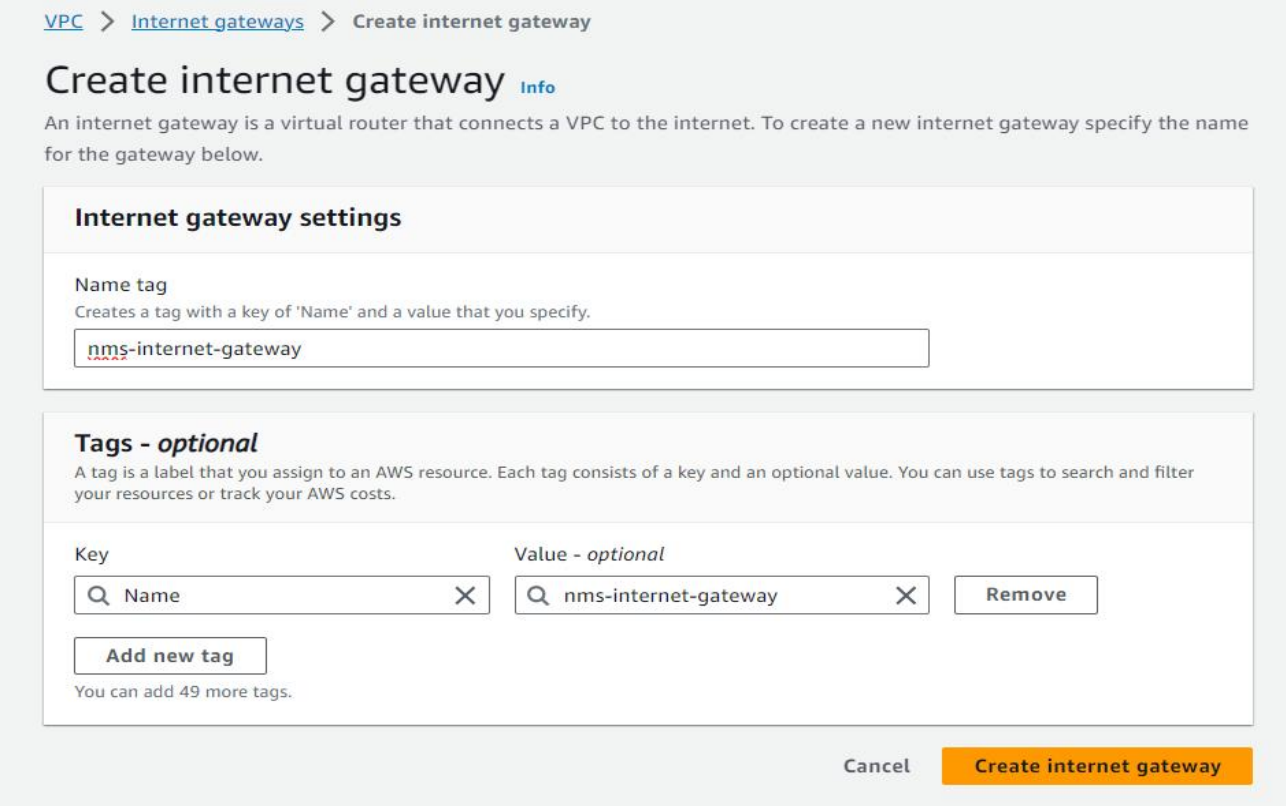
2.1.3 Create internet gateway

Now search for Internet Gateway and click on Internet Gateway

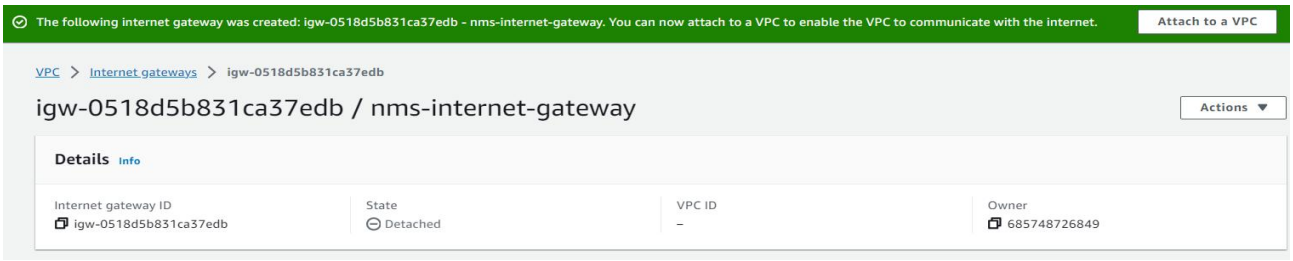


Click on Create Internet Gateway

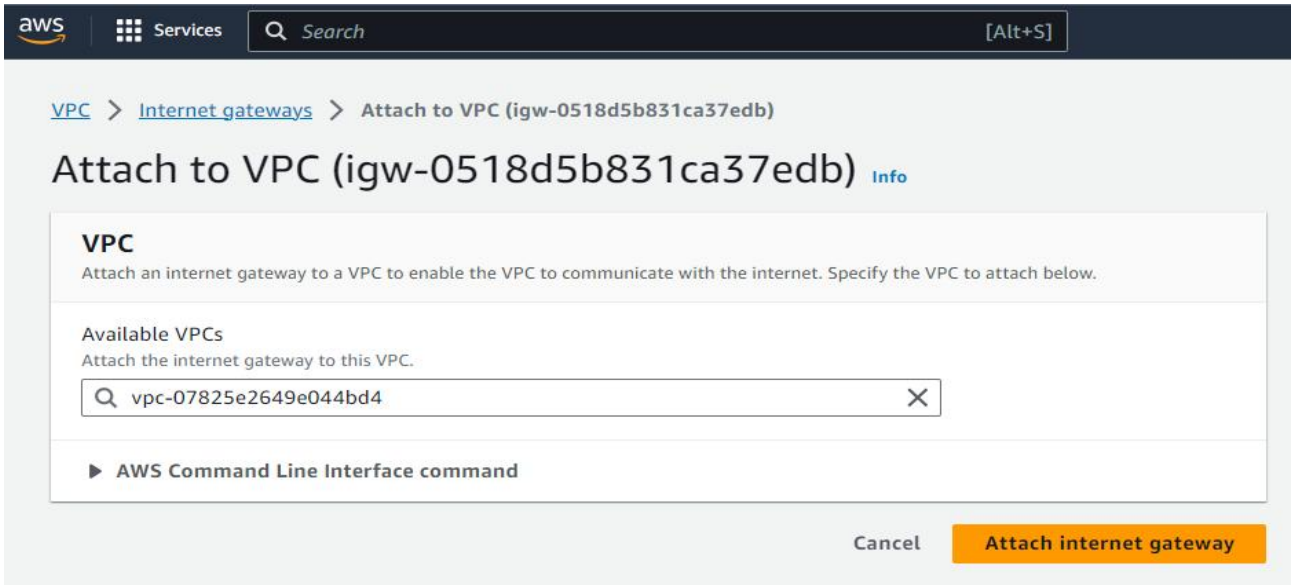
Enter a name and click on Create internet gateway

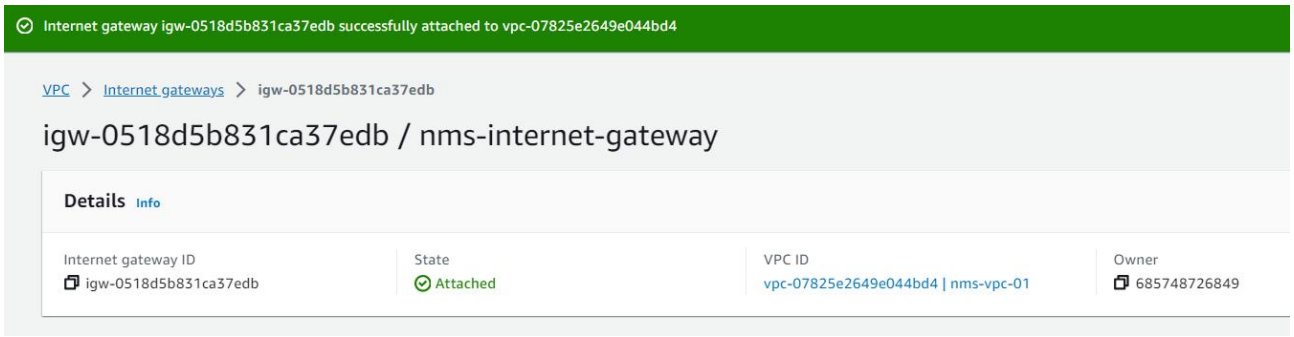


Click on Attach to a VPC



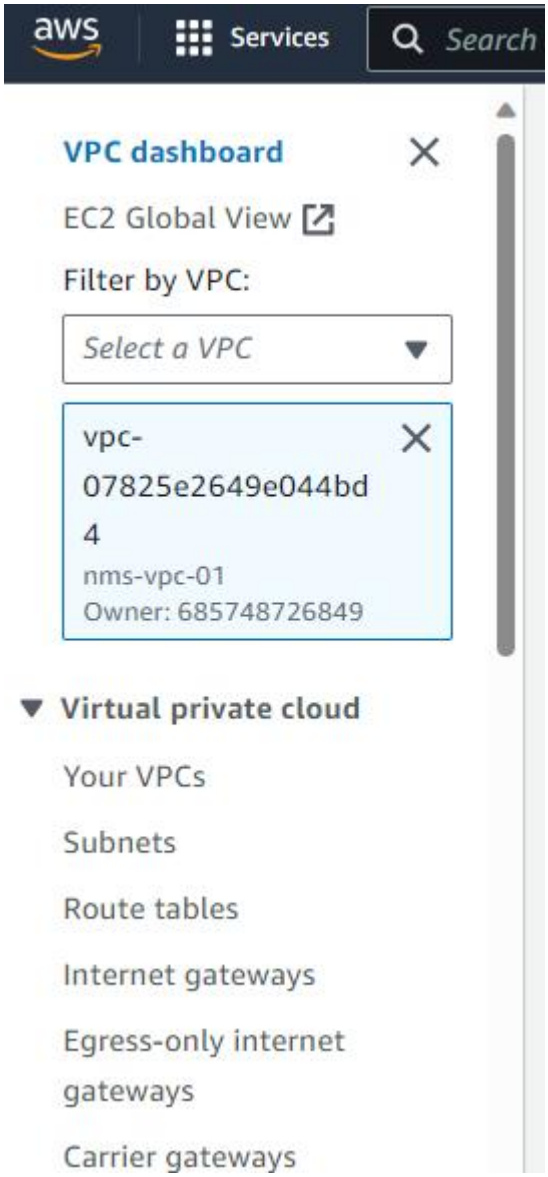
Select the VPC created in earlier step and click on Attach Internet gateway





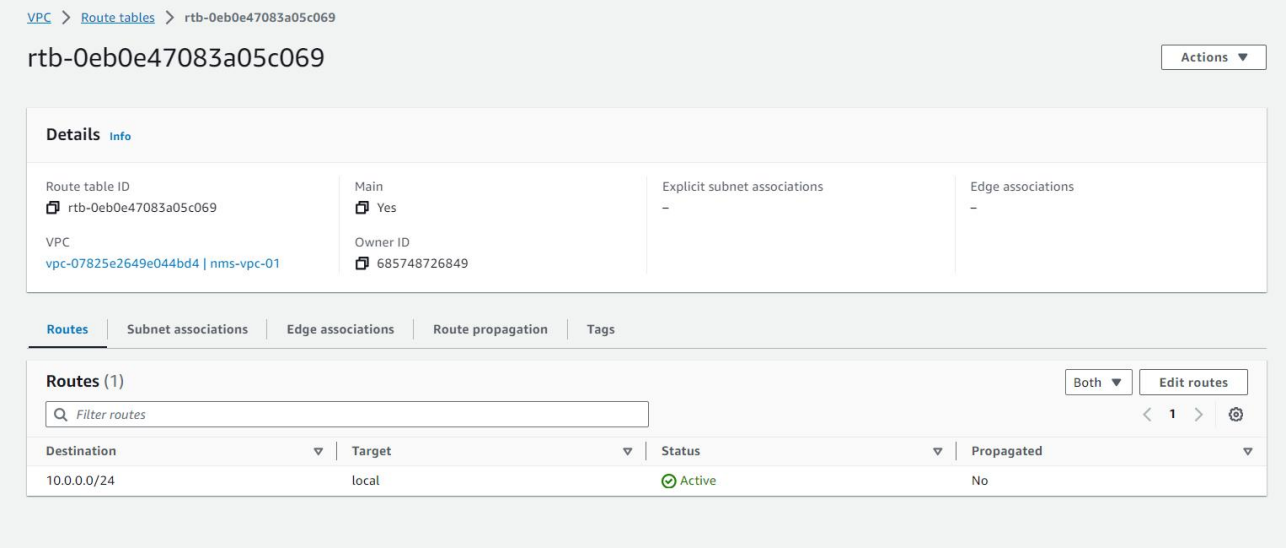
2.1.4 Add internet gateway to Route table

Search for VPC and select the VPC created in the earlier step.

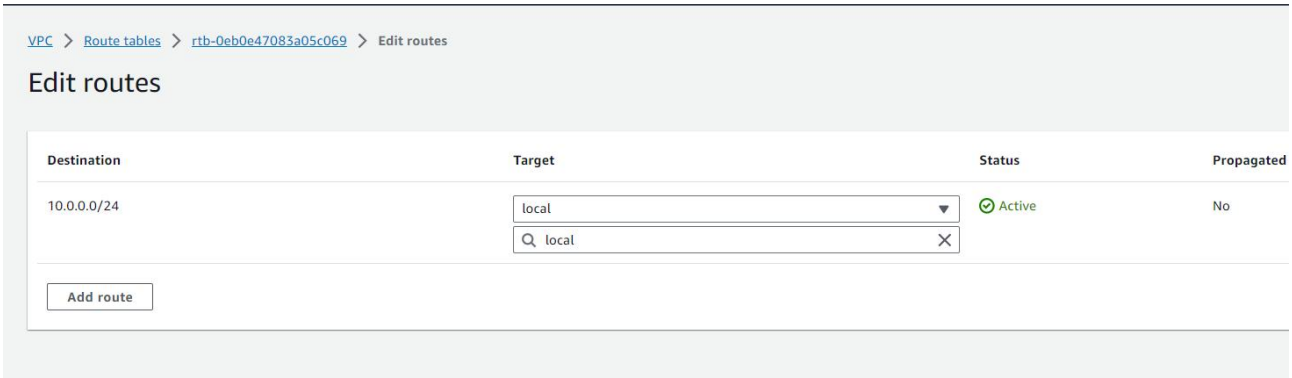


Click on Virtual private cloud->Route tables on the left navigation bar.

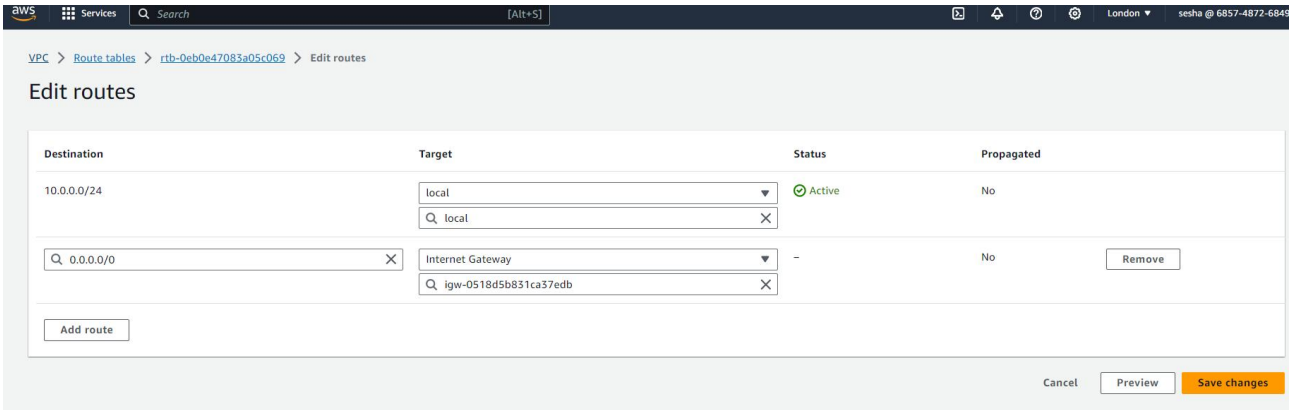
Click on Route table ID



Click on Edit Routes

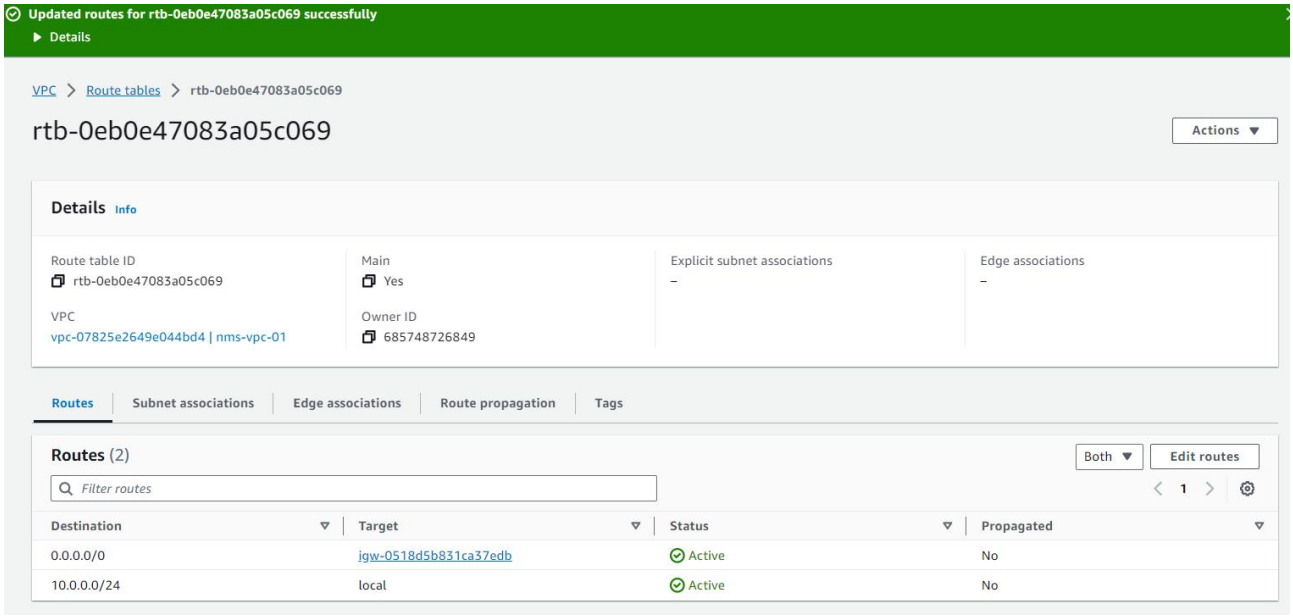


Click on Add Route



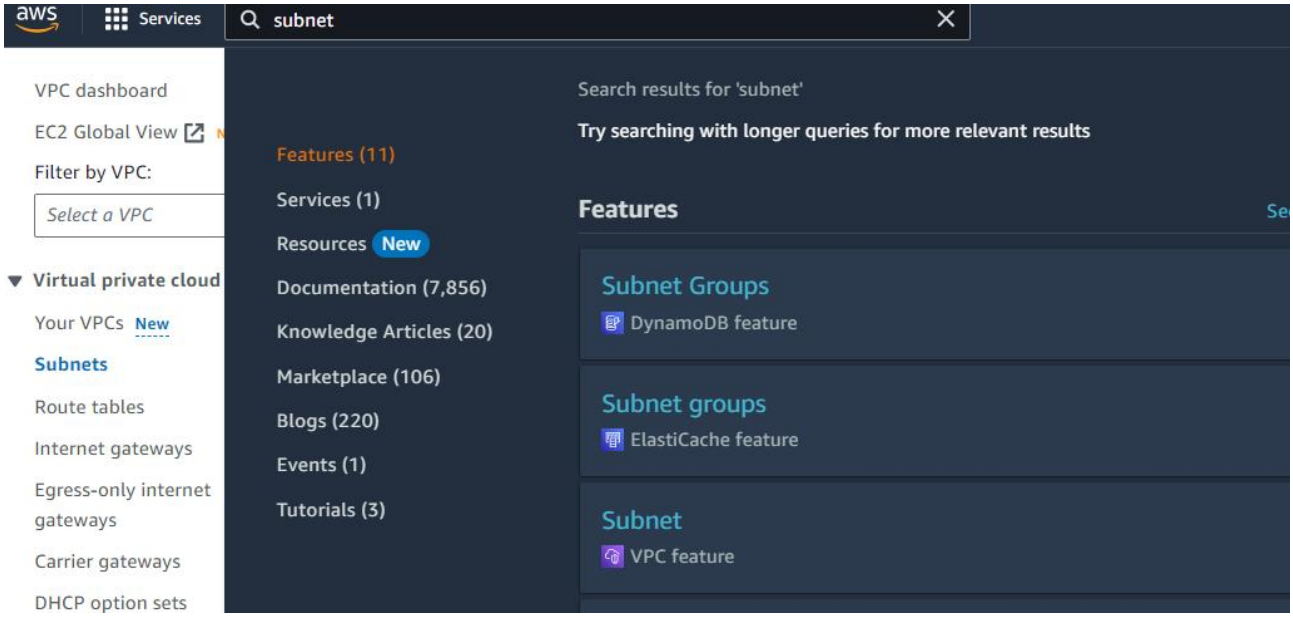
Enter details as shown above and select the internet gateway created earlier

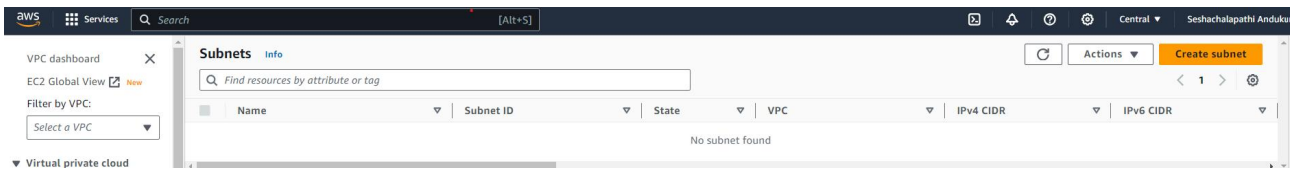
Click on Save changes.



2.1.5 Create Subnet

Search for Subnet and click on Subnet - VPC feature

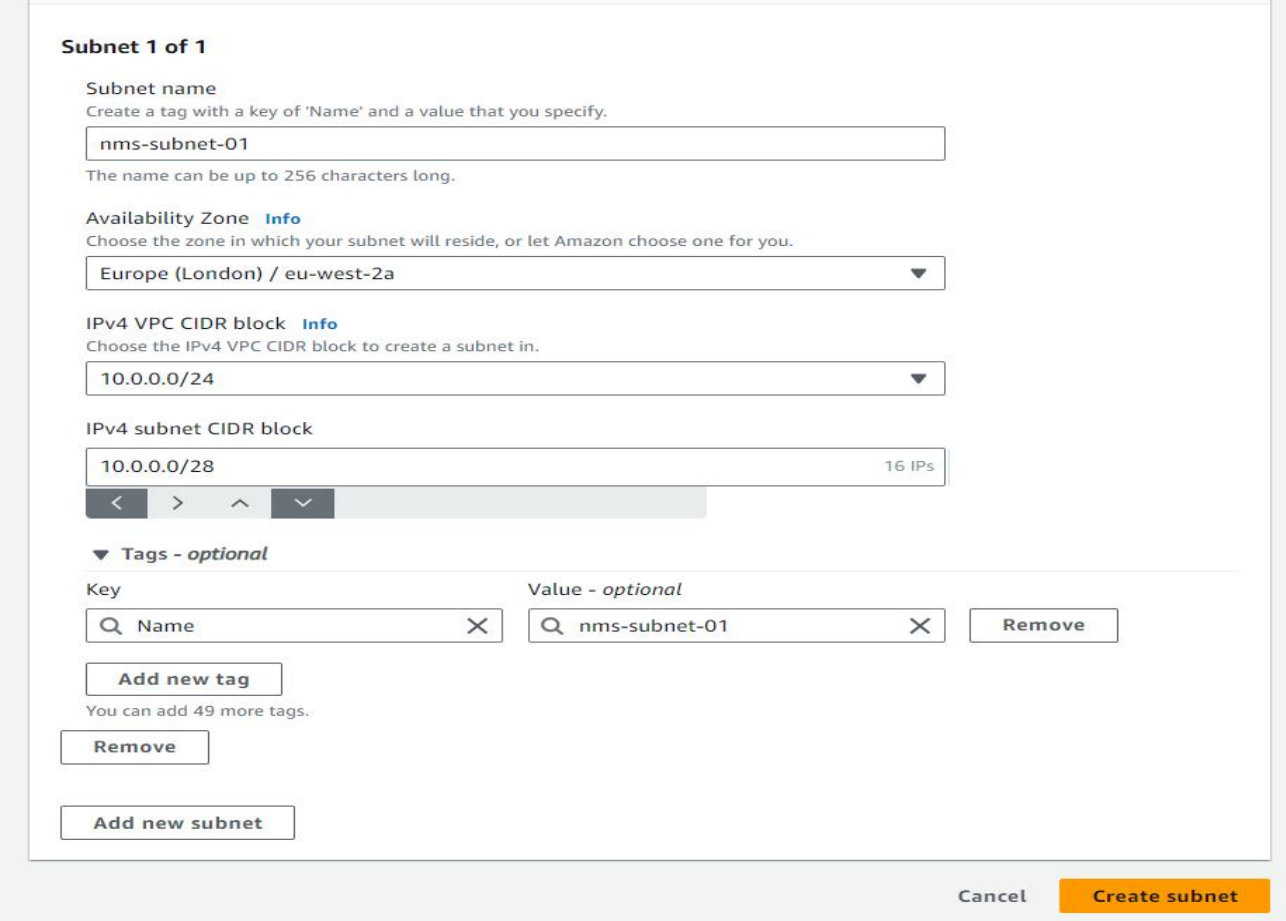


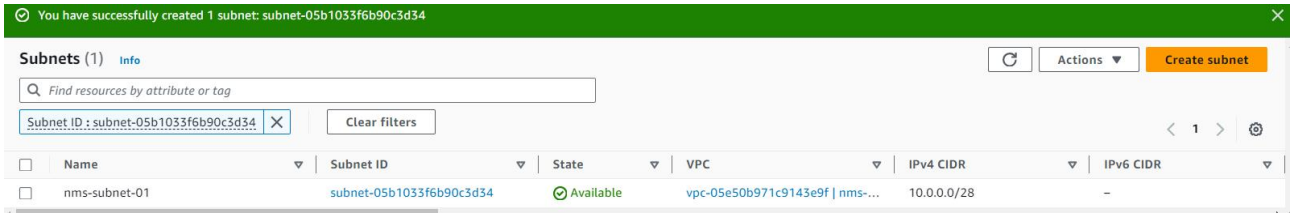


Click on Create Subnet

Select the VPC created earlier

Enter details as below and click on Create Subnet.

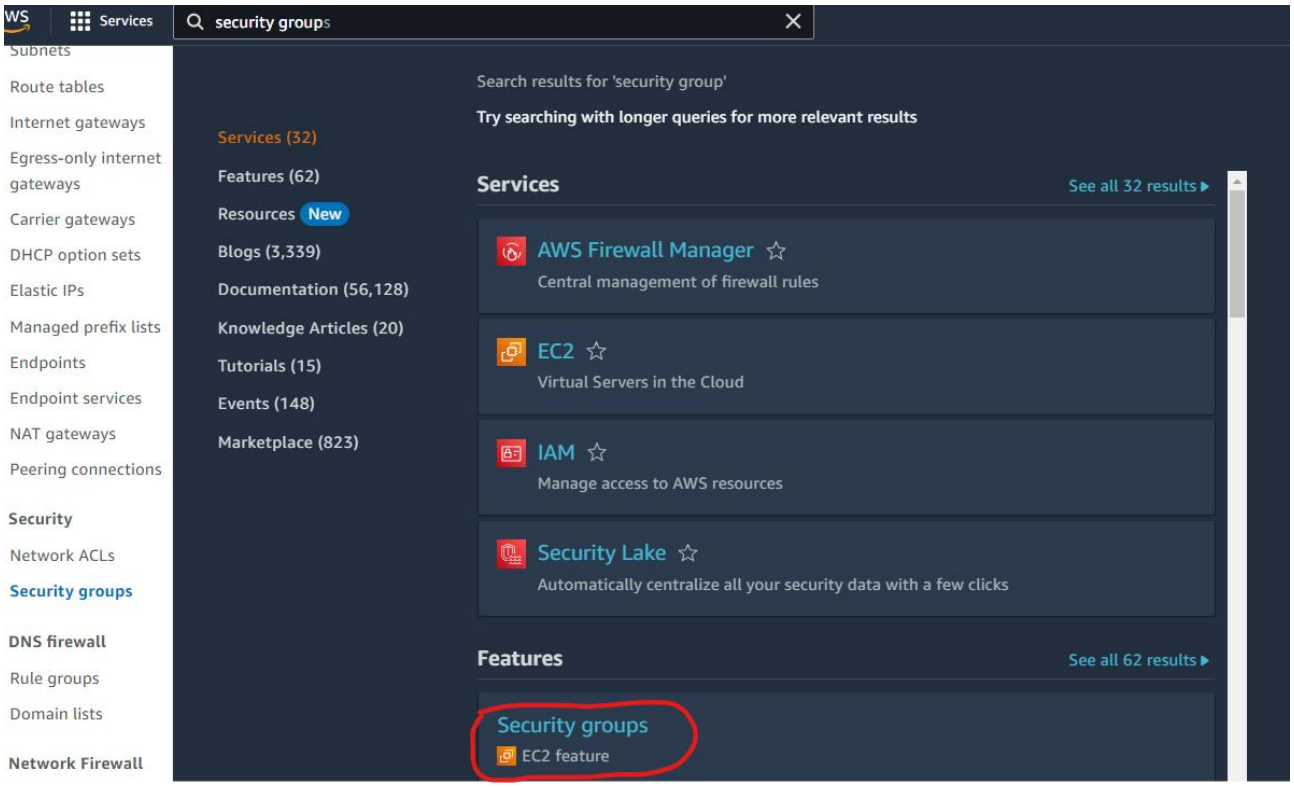




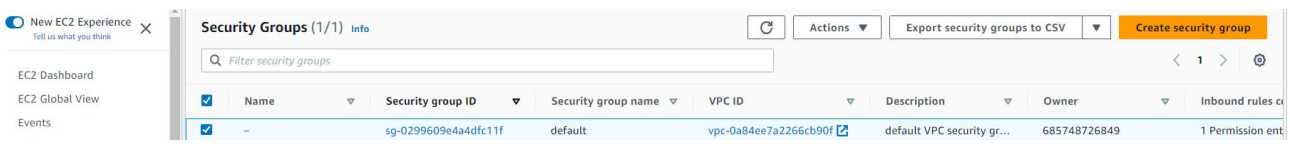
2.1.4 Create Security Group

- Create a security group with a set of rules for inbound and outbound traffic.

In service finder enter “Security Group” and click on “Security groups (EC2 feature)



Click on “Create Security Group”



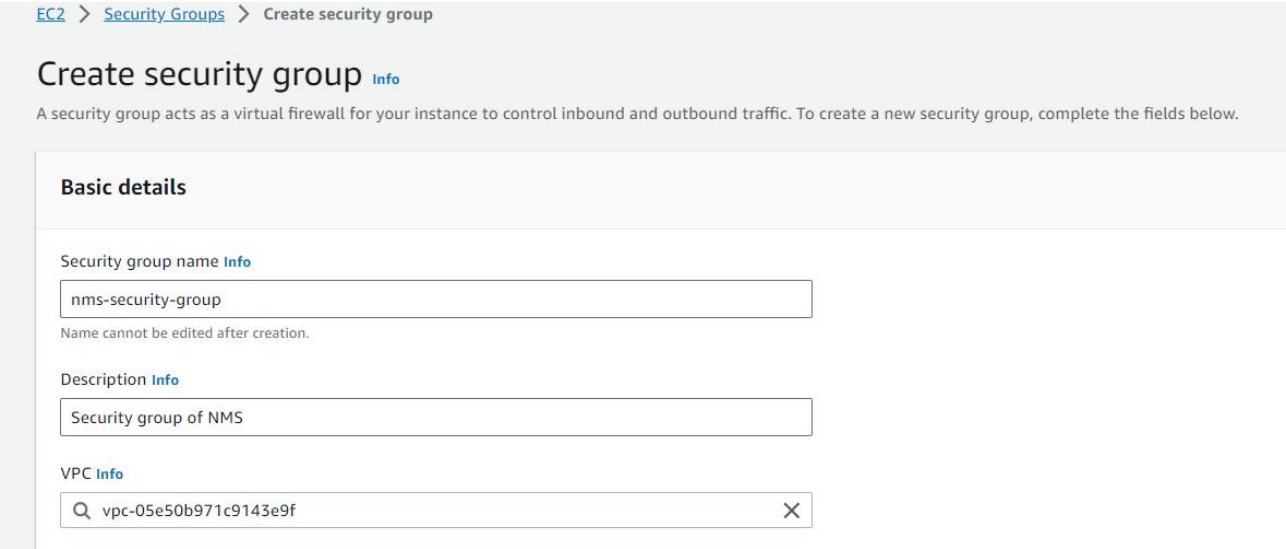
This opens up a dialog box to create a security group.

In Basic Details enter

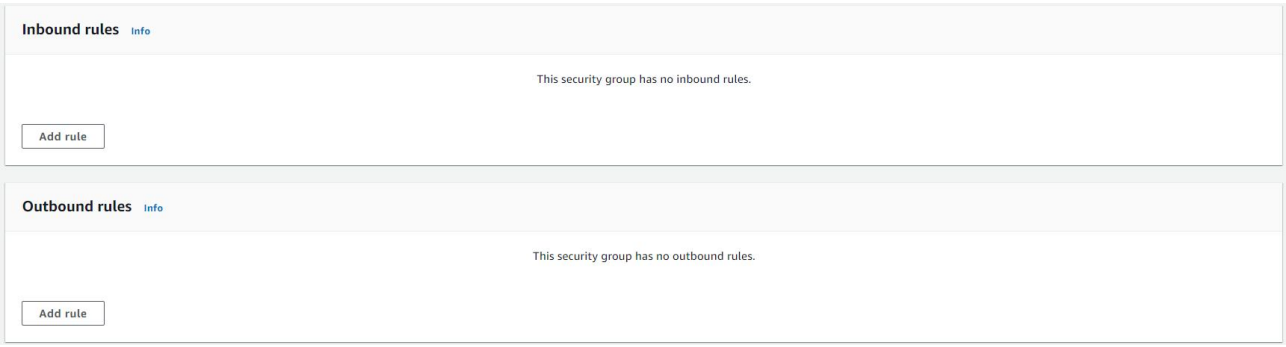
- Security group name

- Description

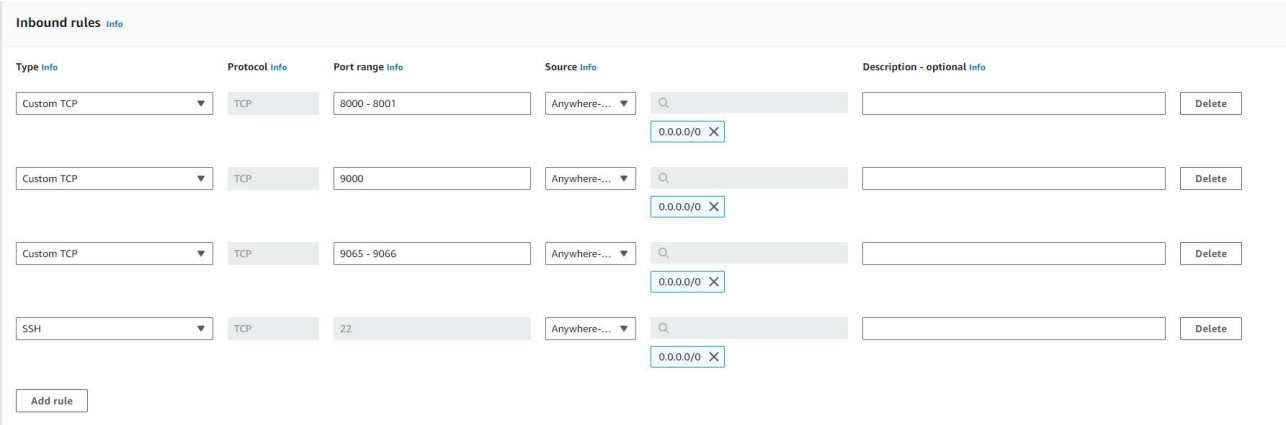
- Select VPC created earlier.



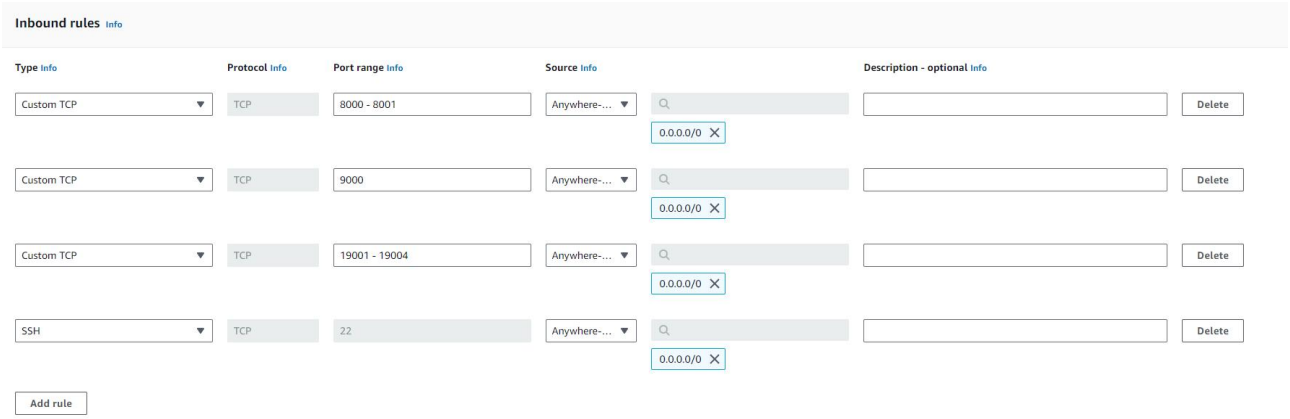
After entering Basic details, now add rules for inbound and outbound.



Click on Add Rule and add ports given below for a Guardian Node (For master node check next step)

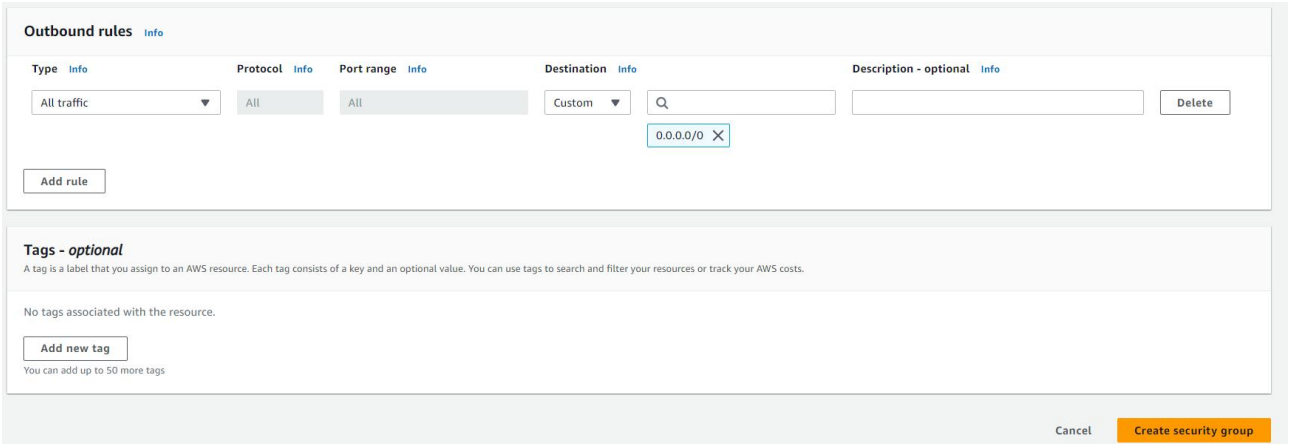


Or add ports as below for a Master Node



Enter value as shown above in the image.

Outbound rules tab can be left with default values as shown below



And click on Create Security Group to create.

Security group is now created.

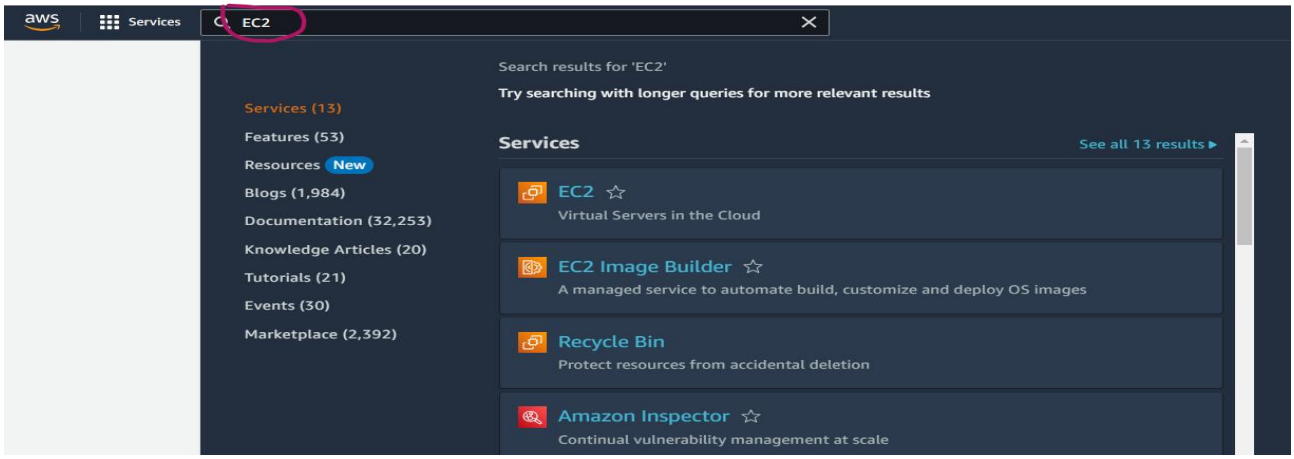
Node Setup in AWS.

3.1 Node Setup.

All resources including EC2 instances need to be created in London (eu-west-2).

Log on to the AWS console with your credentials.

In the console home and find tab type “EC2” as shown below



Click on “EC2” which takes you to EC2 Dashboard

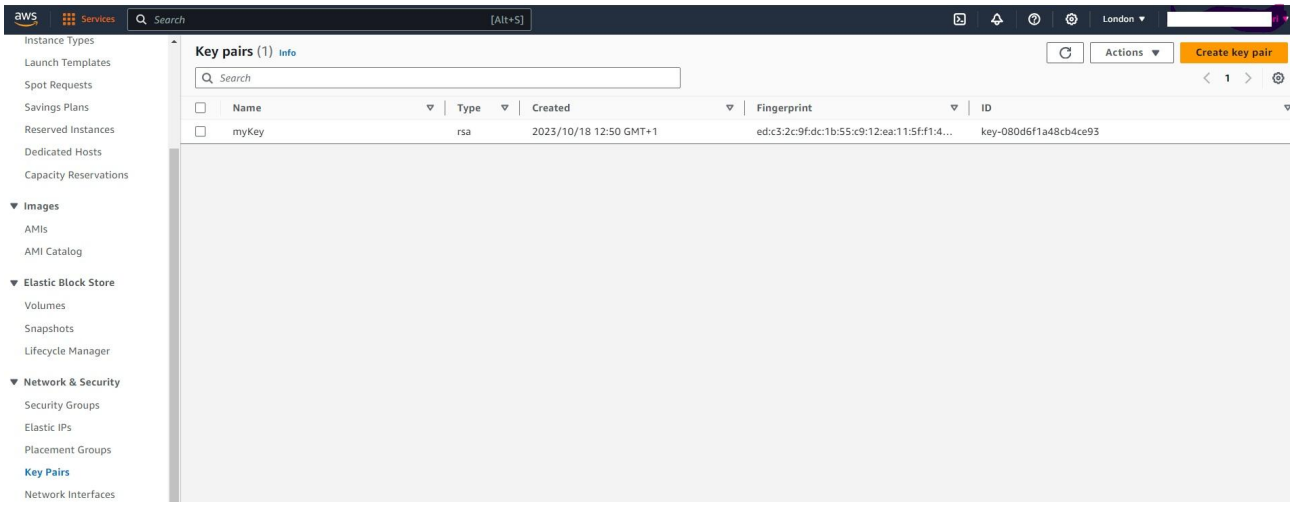
3.1.1 – Creating Key Pairs

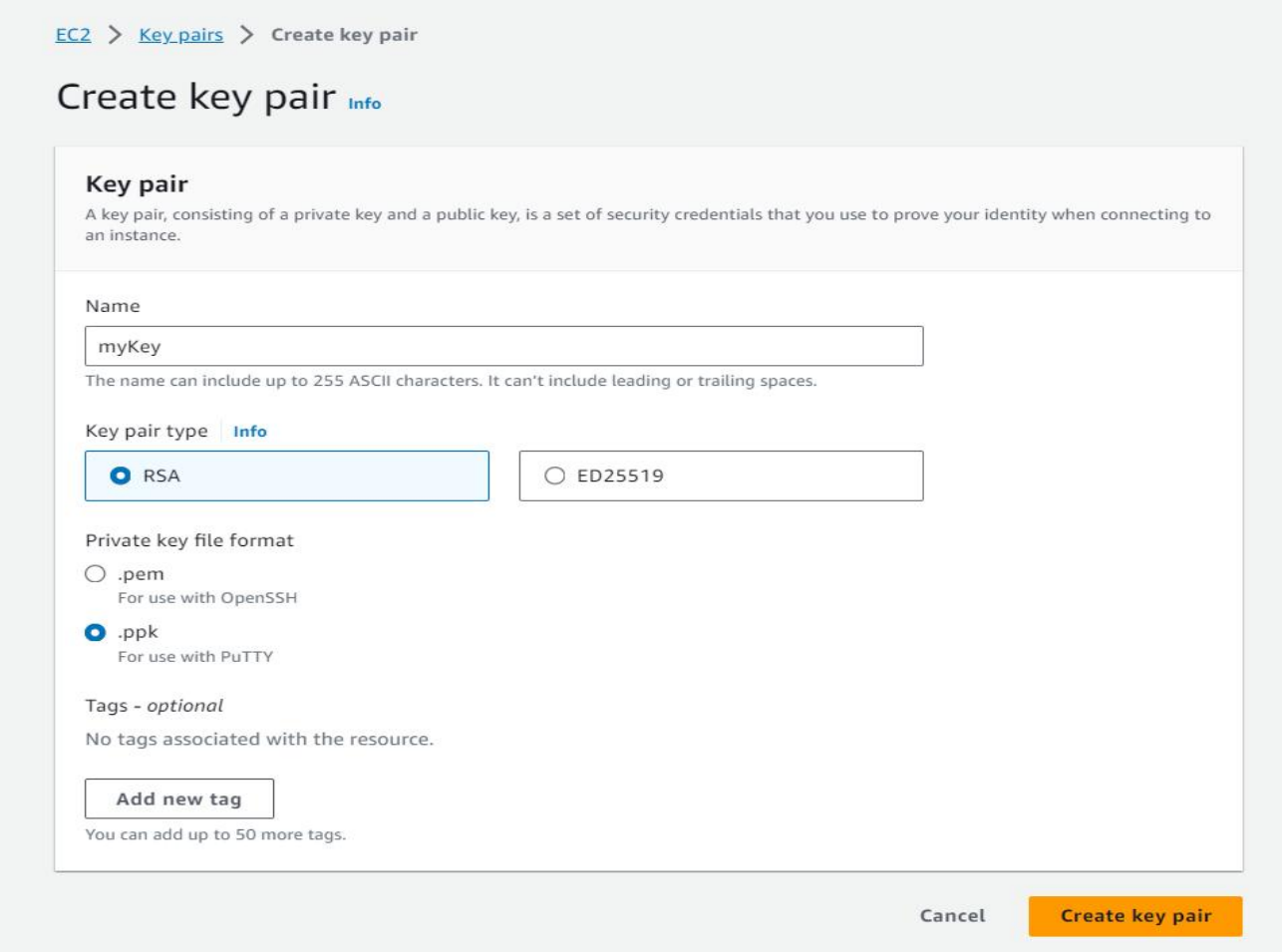
This section explains about creating a keypair which is required to access EC2 instances.

(if you already have a key pair which can be used with a new EC2 instance you can ignore this section).

In the EC2 Dashboard left panel, “Networks & Security “ section click on “Key Pairs” as shown below.

Click on “Create Key Pair” yellow button on the right hand side corner which launches a new dialog box as shown below





Enter a name for key pair in “Name” tab

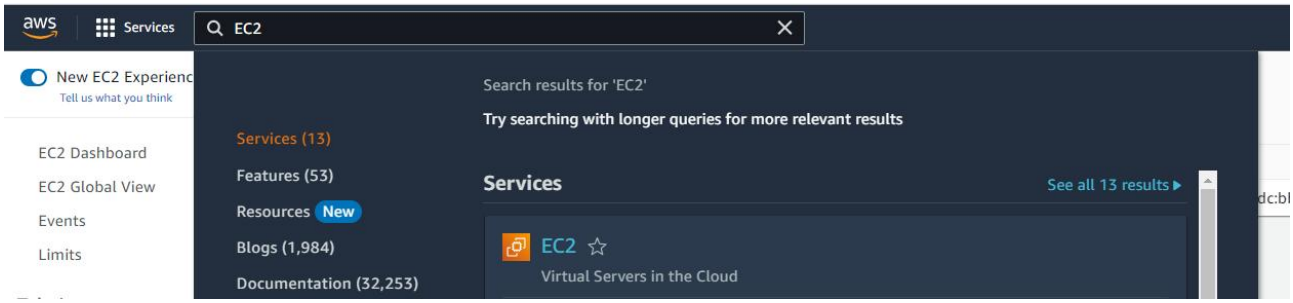
Select “RSA” and select “.pem” or “.ppk” as shown above and click on Create Key Pair.

This creates a new Key pair with the name given in the name tab.

Key pair creation is now Completed and the keypair file with name provided is downloaded automatically.

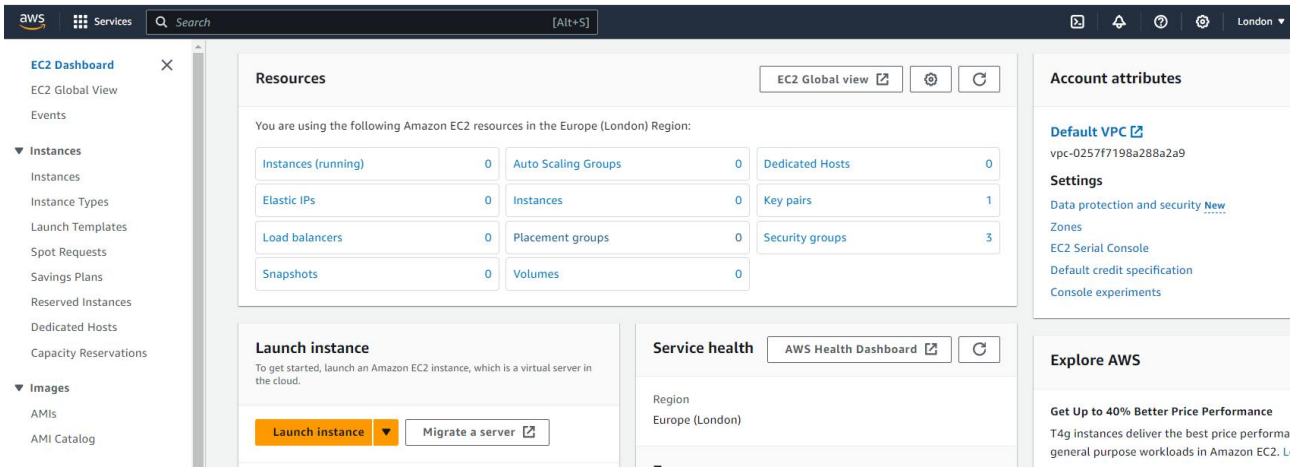
3.1.2 – Creating EC2 instance.

Continue with creating a new EC2 Instance. Type “EC2” in Services find box as below

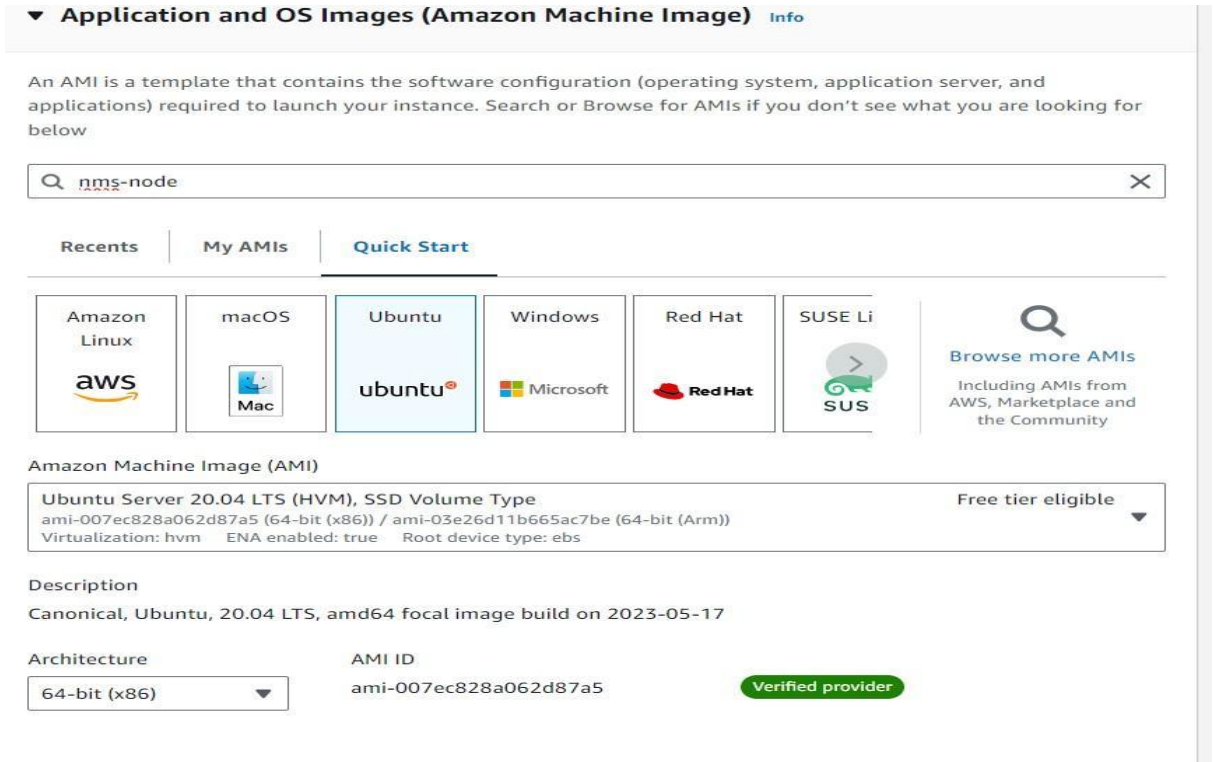


Click on EC2 to go to the EC2 Dashboard.

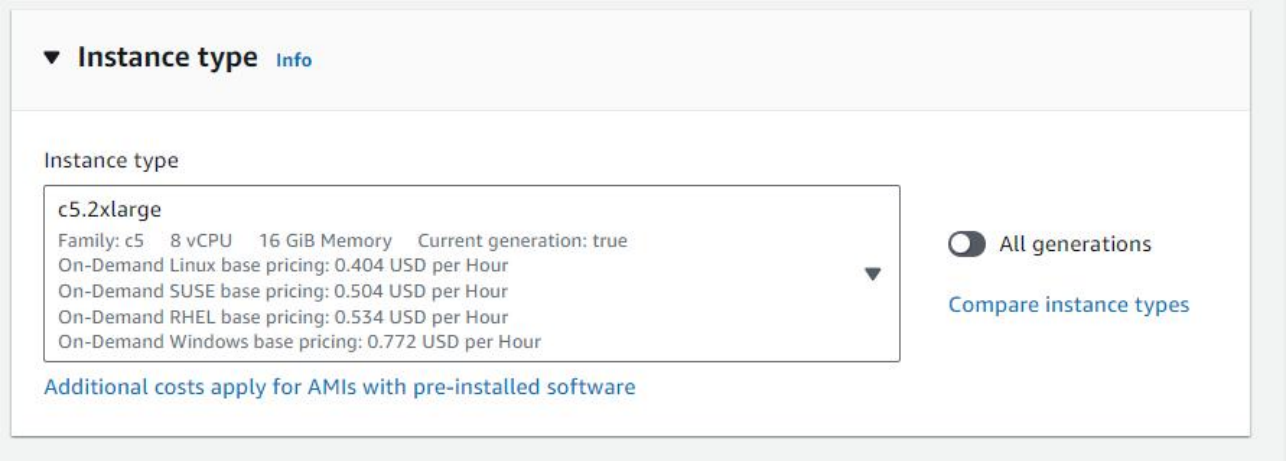
Now click on “Launch Instance” as shown below.



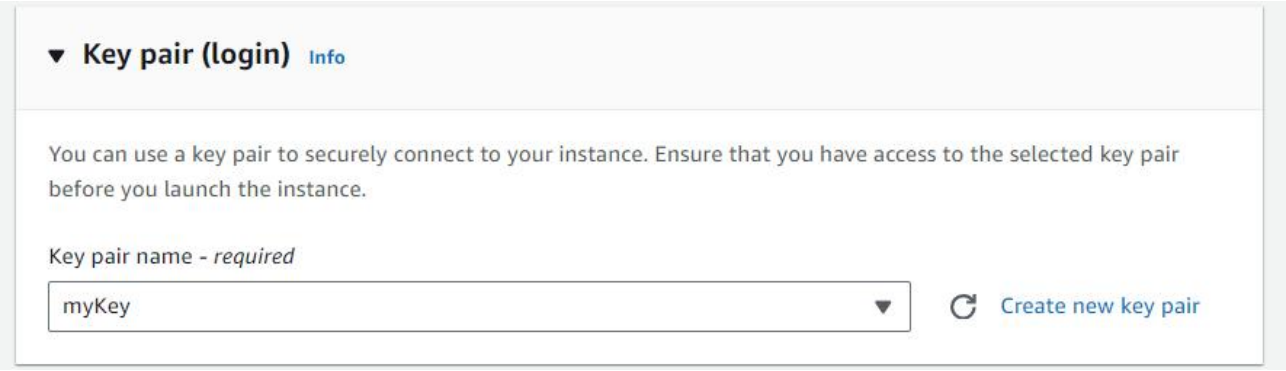
In “Name and Tags” enter a name for your node. And select Ubuntu Server 20.04 LTS(HVM) SSD Volume type Amazon Machine Image (AMI) as given below.



Select the instance type as given below (8 CPU , 16GB Ram)



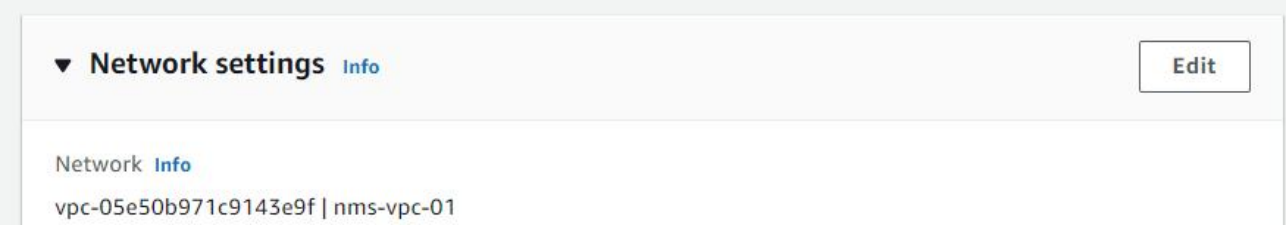
Once Instance type is selected, now select the KeyPair as shown below



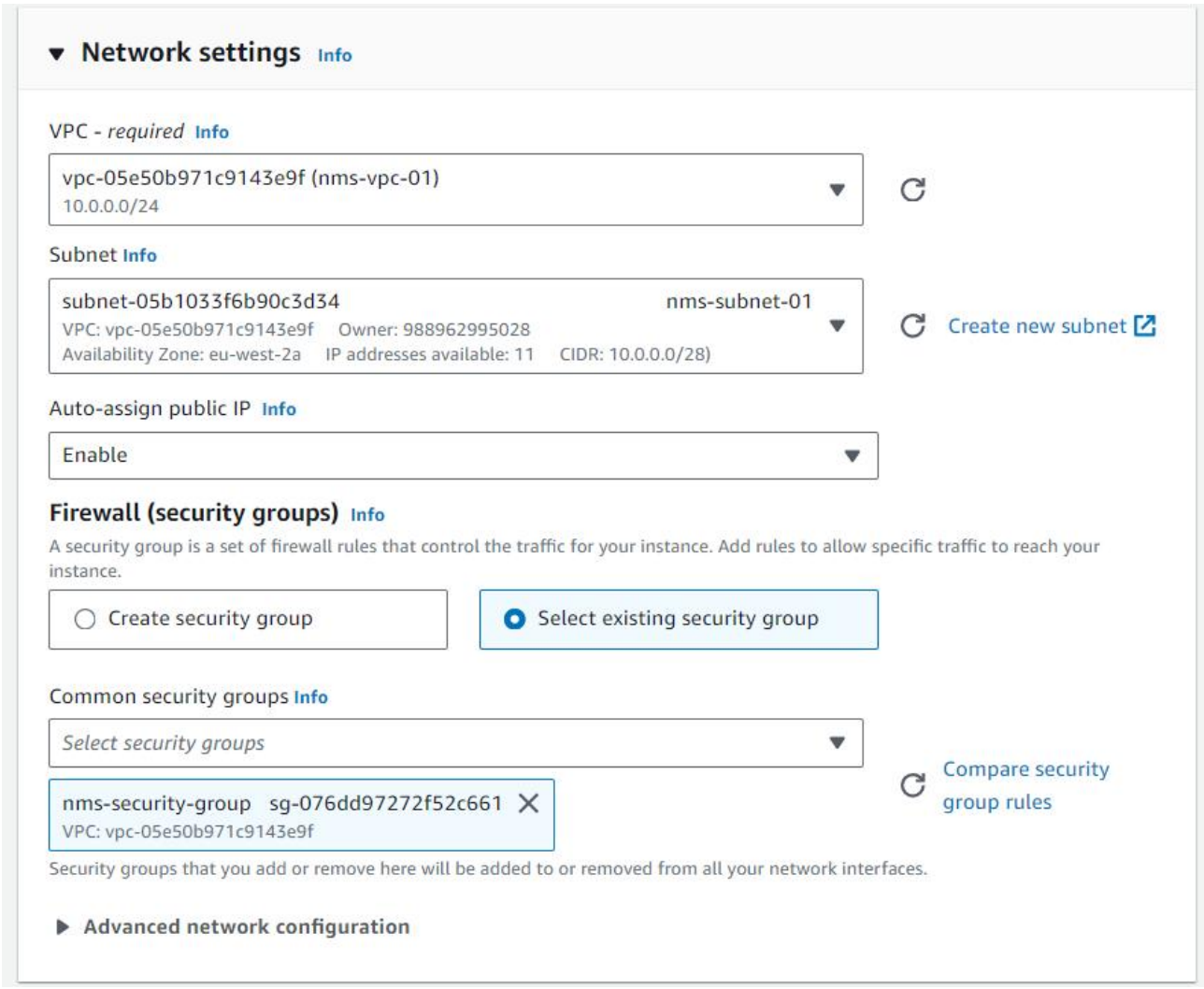
pull down the key pair name box and select the key pair created earlier

Setup “Network Settings”

Click on Edit

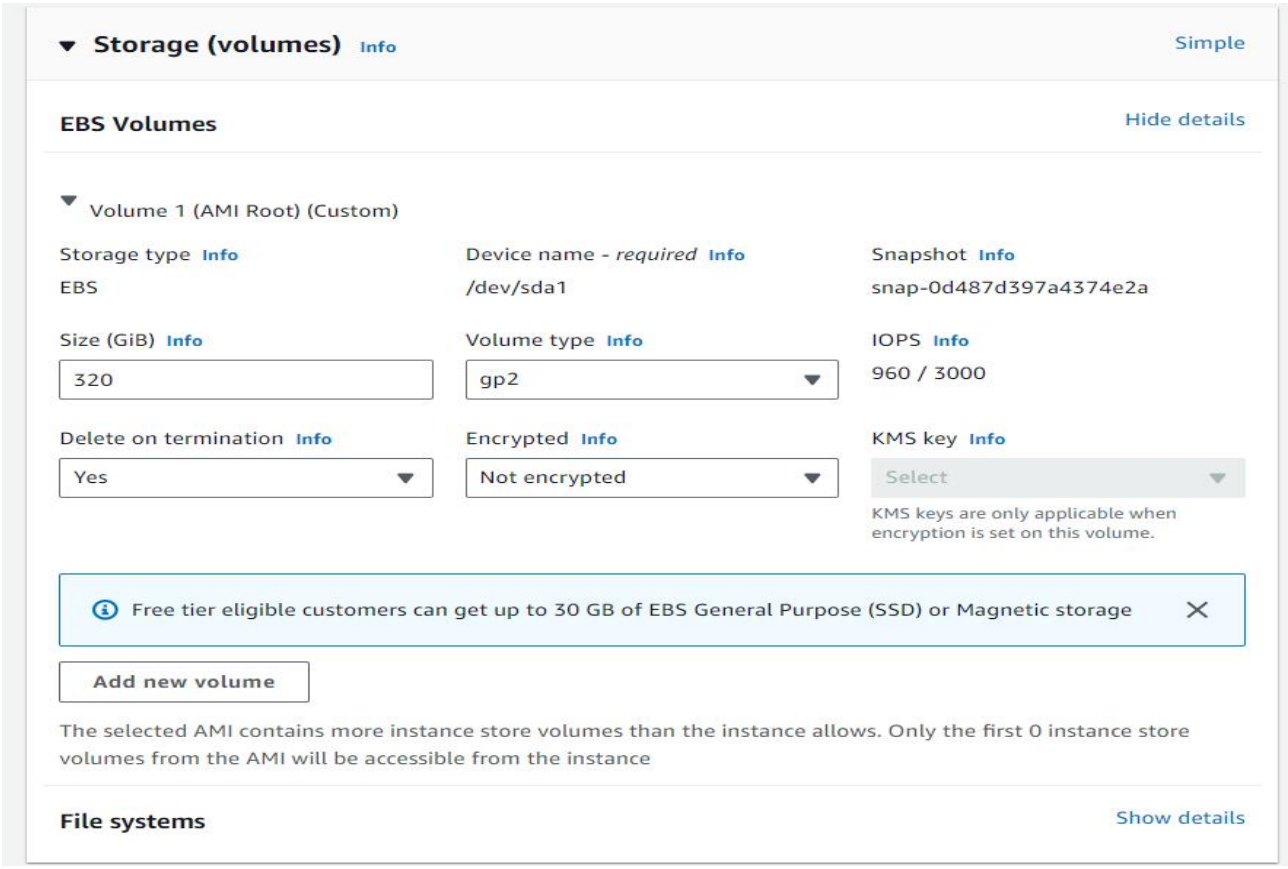


Enter details as shown below

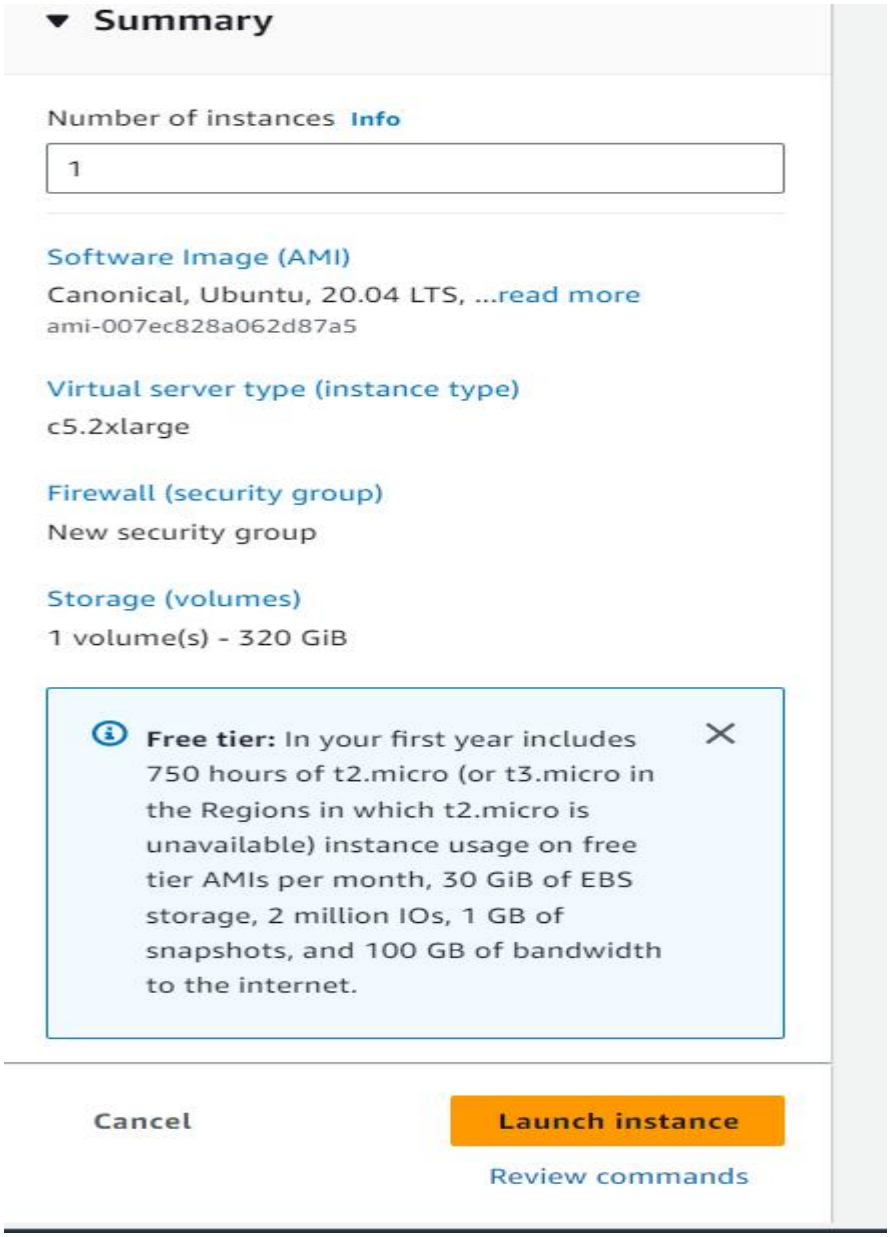


Now go to “Set the Storage Size” task

Set the Storage size (320Gb) as given below



Now we are all ready to launch the instance.

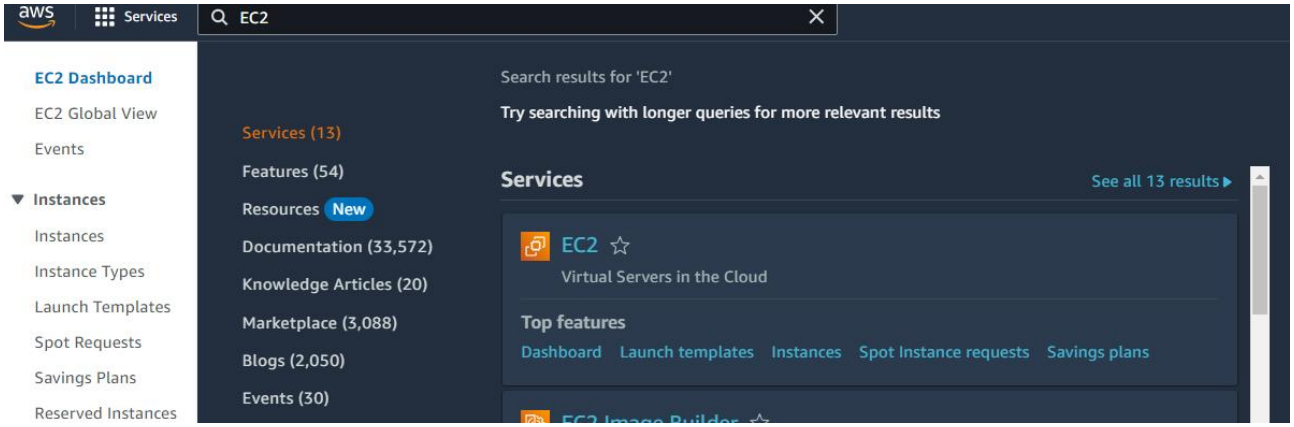


Click on the Launch Instance and wait until the instance is created.

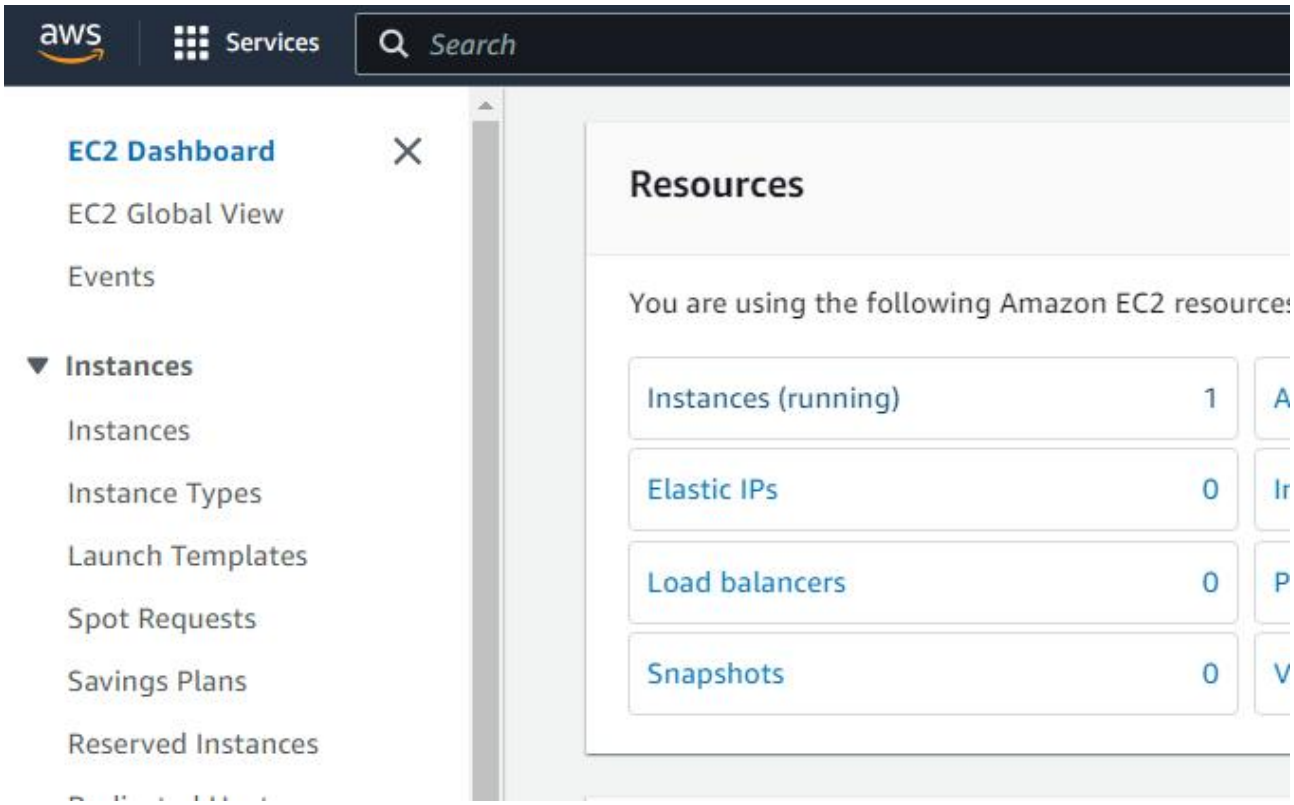
Node Registration Procedure (AWS).

Now the EC2 instance is created, it is time to connect and install NMS software.

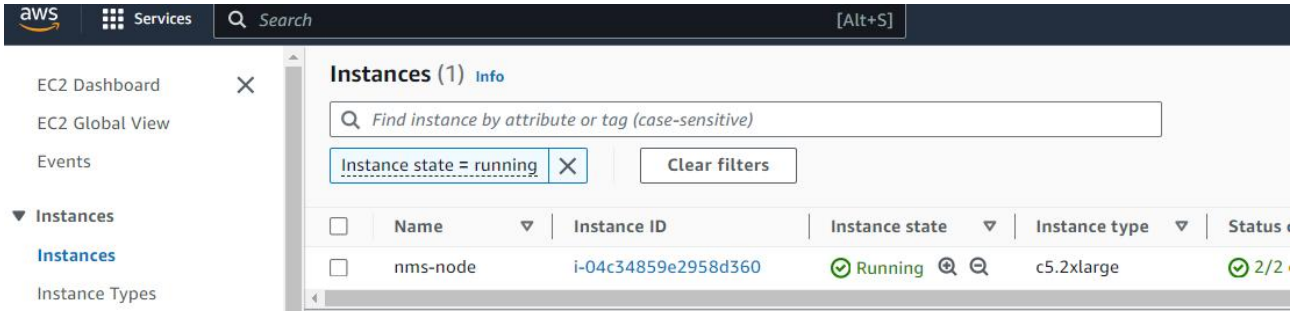
To connect the EC2 instance search for EC2 dashboard and click on EC2 dashboard



Click on Instances (running)

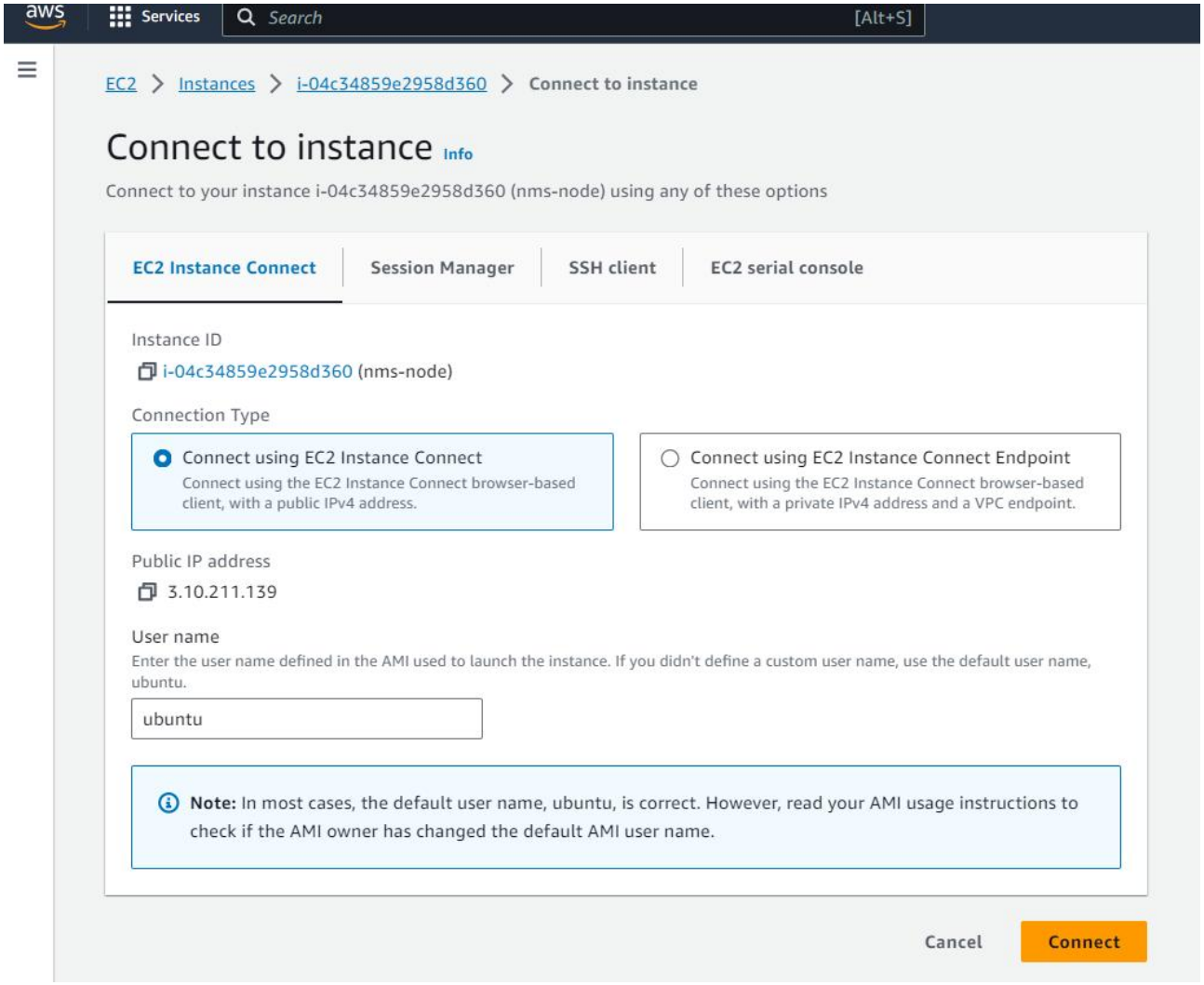


Click on instance ID



Click on Connect

Click on Connect



Now EC2 instance command line is accessible.