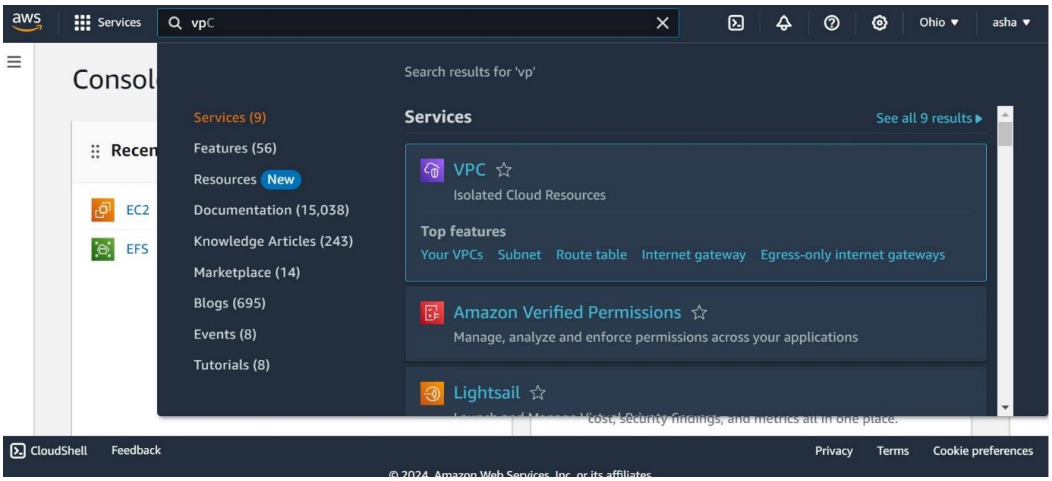
ASSIGNMENT-1

Create a VPC with 2 subnets and 2 routes tables and internet gateway

- Launching 3 instances
- Attach one instance with EBS
- Attach second instance with EFS

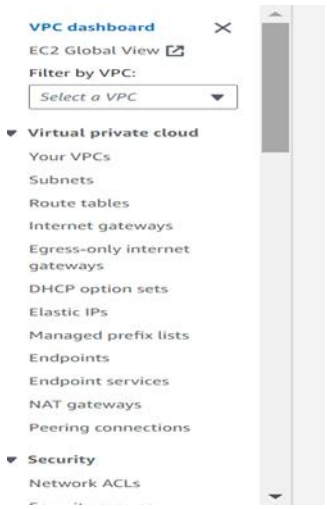
Create a virtual public cloud (VPC)

Go to AWS management console
Search for VPC in search space of AWS home page and click on VPC as shown in the figure below(pic-1)



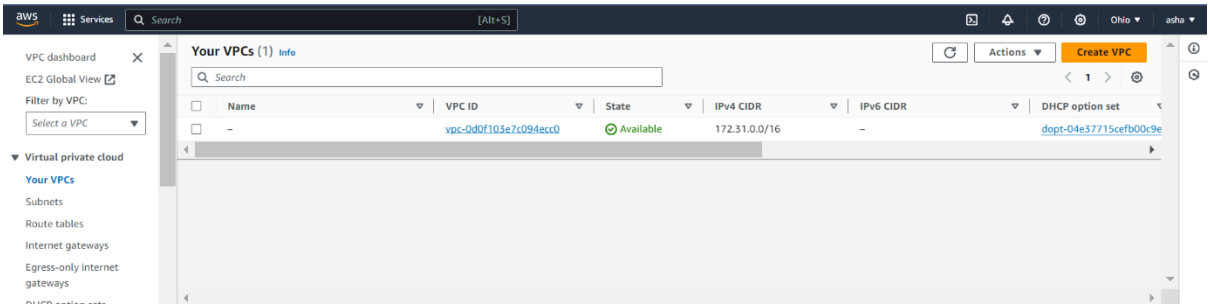
Pic 1

Now click on your VPCs option from VPC menu of VPC page as shown in the figure below(pic2)



Pic 2

You will find the page as shown in figure below (pic 3)

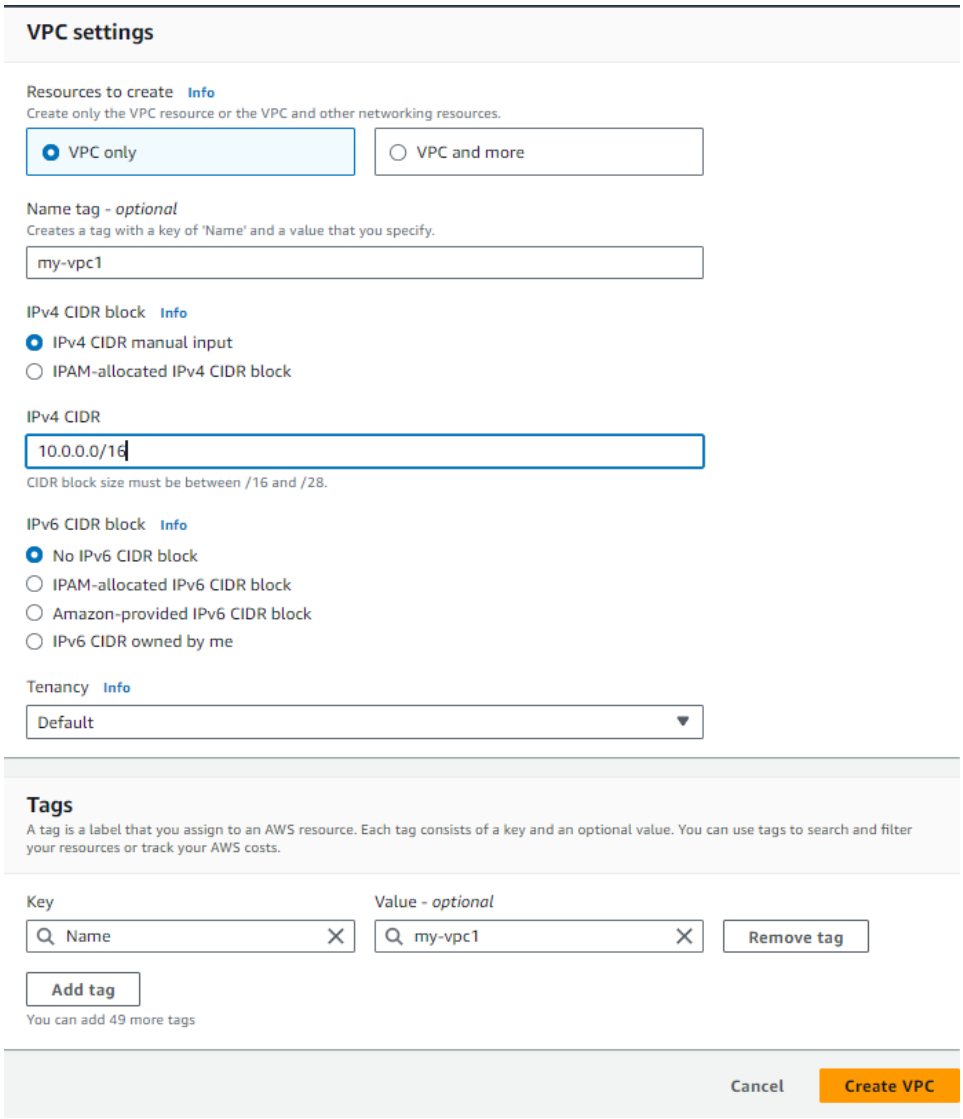


Pic-3

The history of your VPCs will be shown there

Now we have to click on the Create VPC option on the top right corner

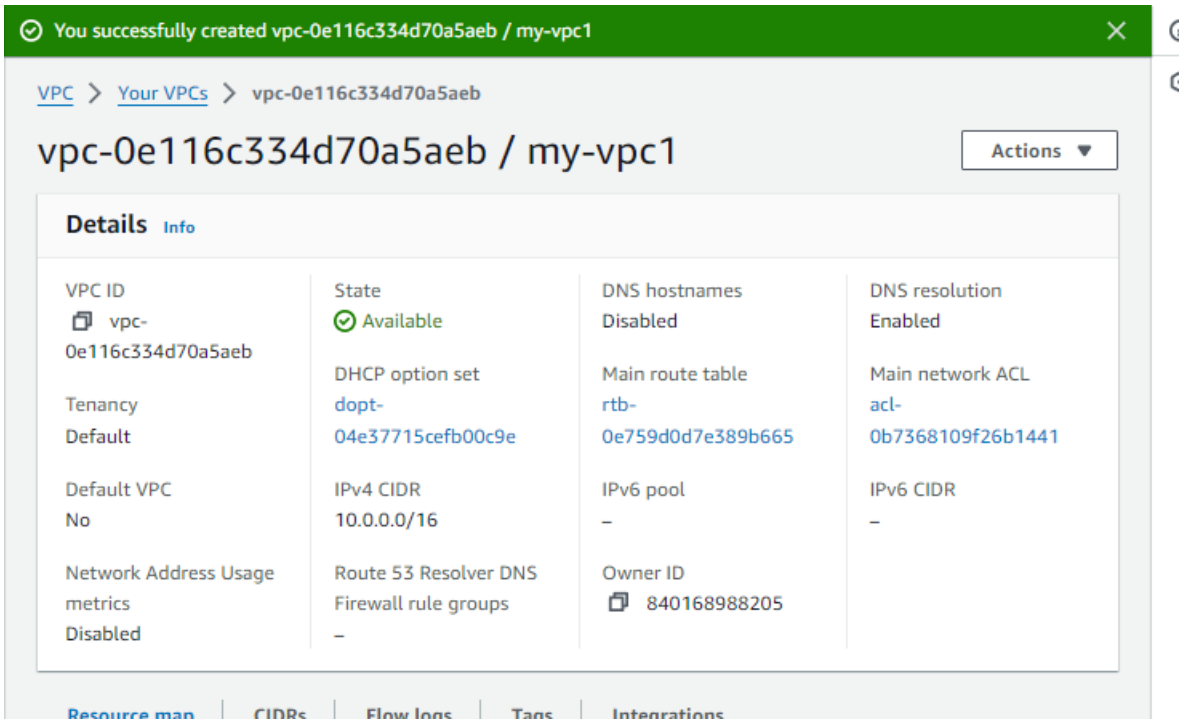
By clicking it will be visible as shown in the figure on (pic-4)



Pic-4

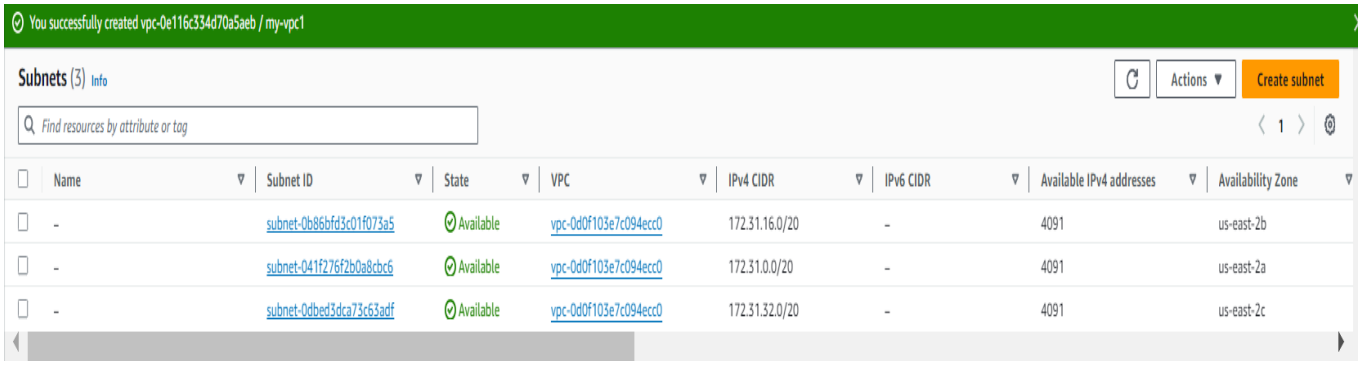
Now fill the details need to create VPC

After successful creation it will provide a message of successful of our VPC as shown in the picture below(pic-5)



Pic-5

Now click on subnets to create subnets to our custom VPC.In the subnets there will be some default subnets but we have to create a new subnet as shown in the (pic-6)

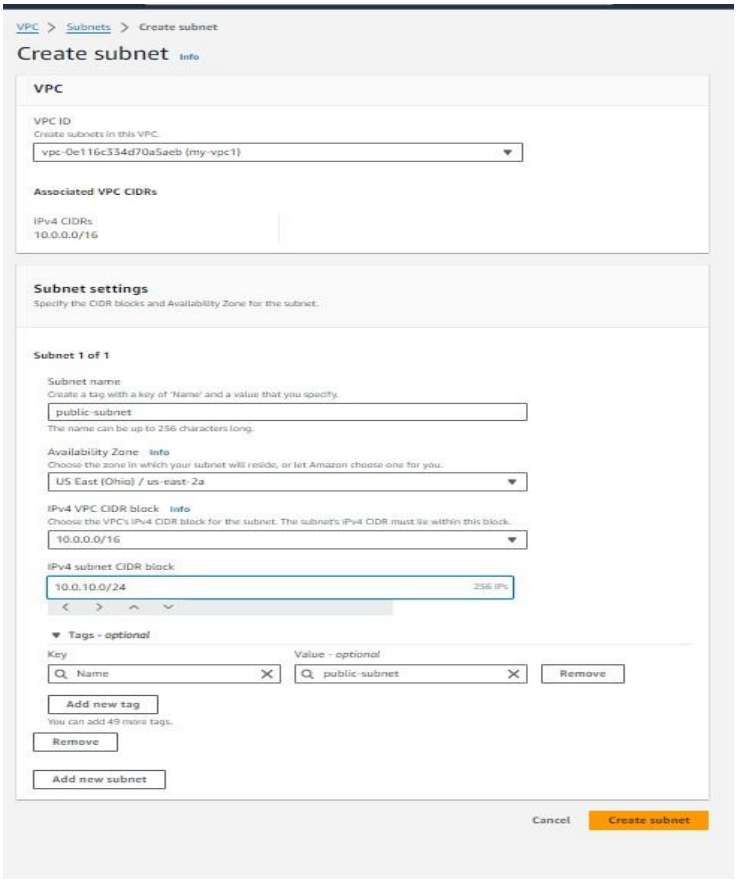


Pic-6

We have to create two different subnets one is public subnet and another will be a private subnet

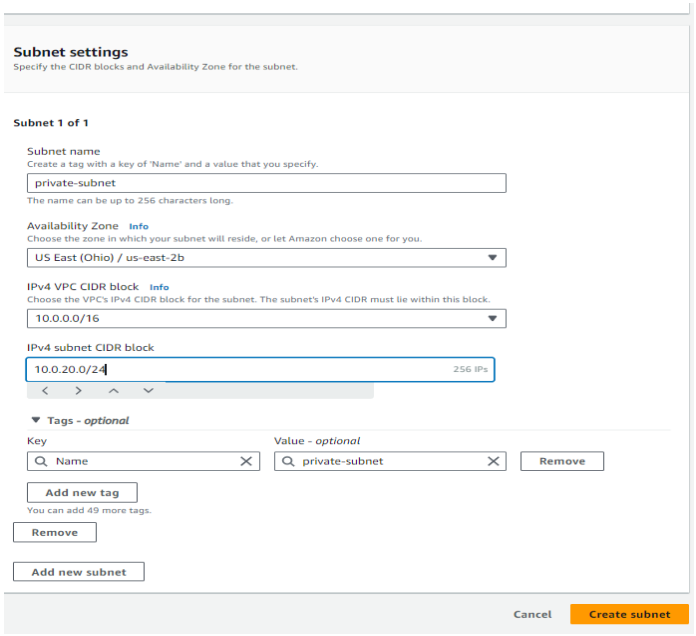
For creating subnet, we have to give the our custom VPC-ID, Subnet name, choose only one availability Zone, IPV4 subnet CIDR block, then finally create subnet

Creation of Public subnet as shown in the figure below (pic-7)

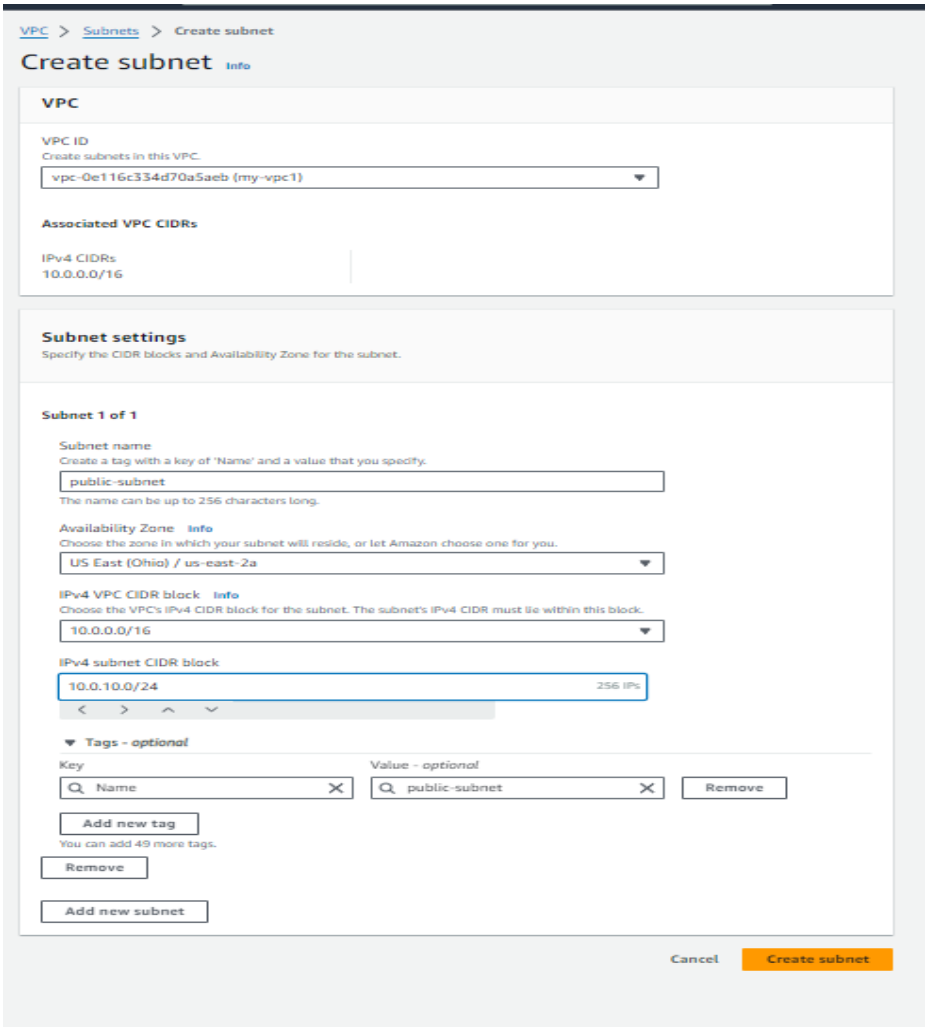


pic-7

Just like the public Subnet we have to create the private Subnet as shown in the below (pic 8)

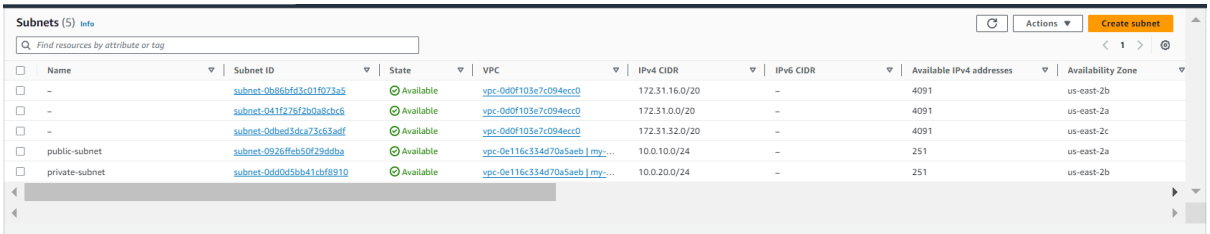


pic-8



pic-9

Now we created two subnets to our custom VPC successfully shown in pic 10



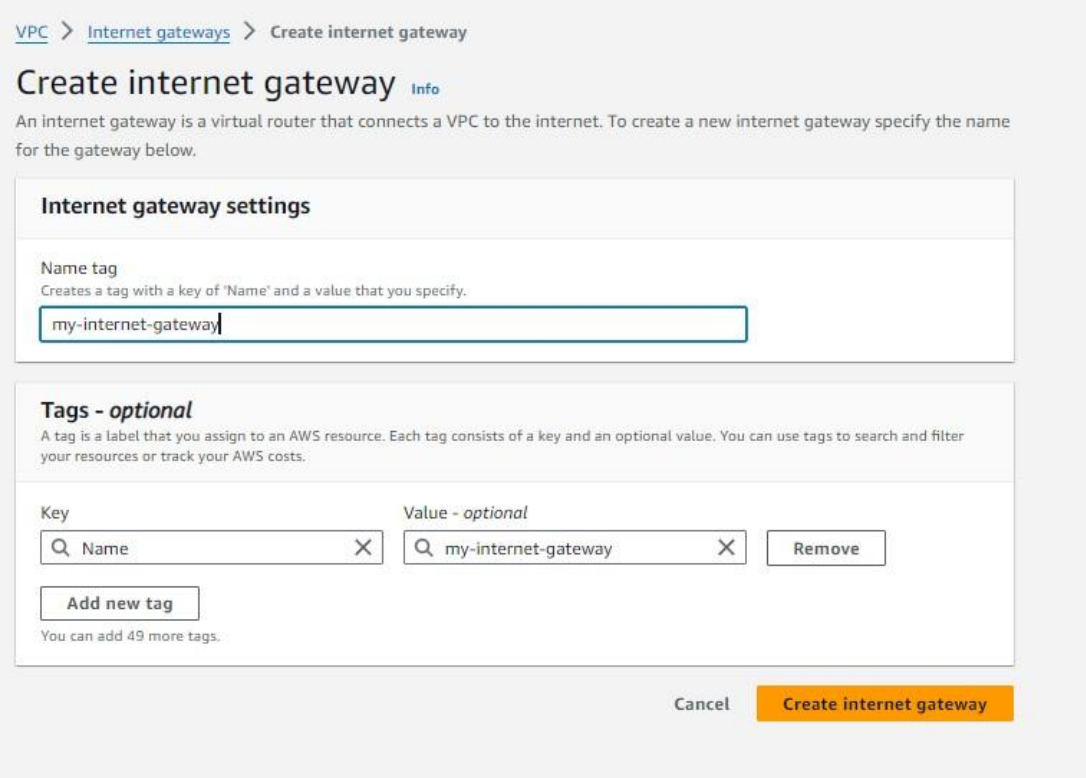
pic-10

Now click on Internet gateways from menu bar you will able to see as shown in pic -11

pic -11

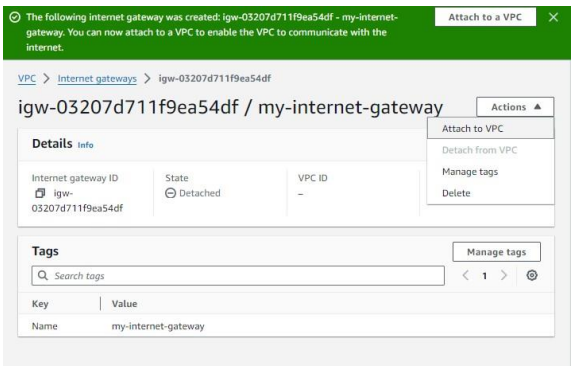
click on create internet gateway and create you will get as shown in pic -12

Again, after giving the name of your internet click on the create internet gateway



pic -12

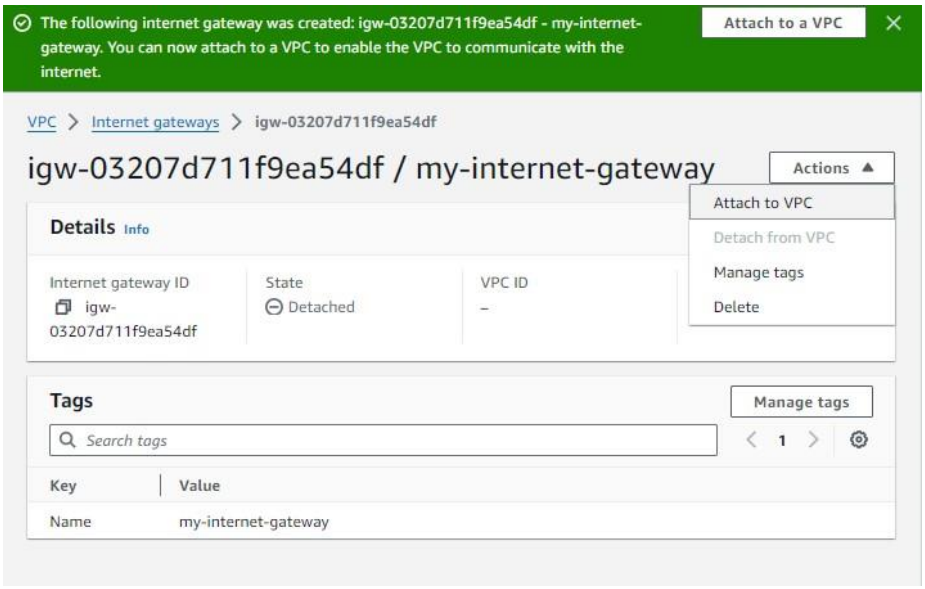
After the successful creation of internet gateway, we have to attach to VPC as shown in the pic below (pic-13)



pic -13

Then click on Actions and click on Attach to VPC

pic -14



pic -15

Now we have selected our custom VPC in that Available VPCs so we already created it our custom VPC and finally click on Attach internet gate

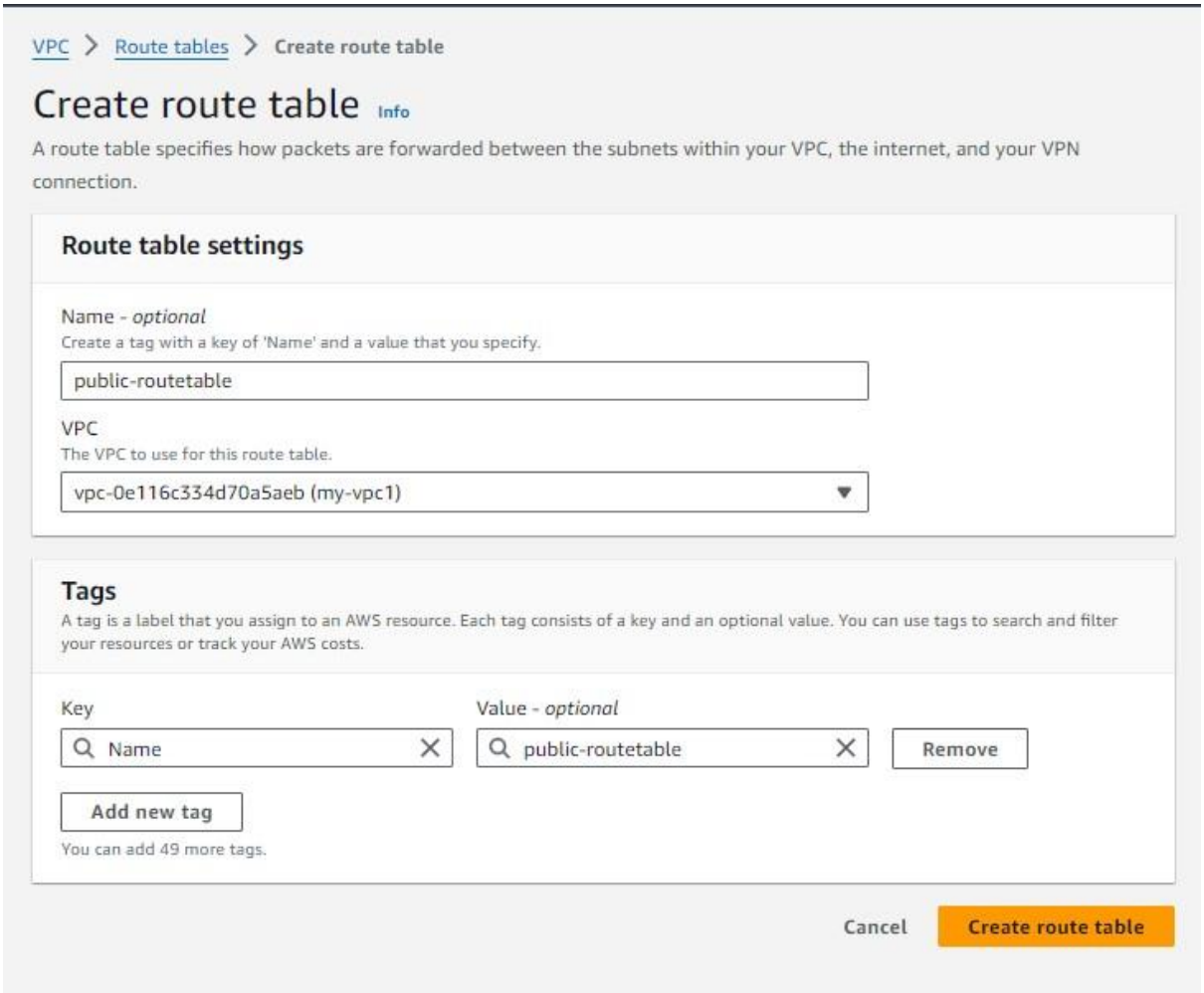
Now we created internet gateway to our custom VPC successfully

pic -16

Now we have to create 2 route tables (one is public and another one is private). Click on Route tables from menu bar and click on Create route table

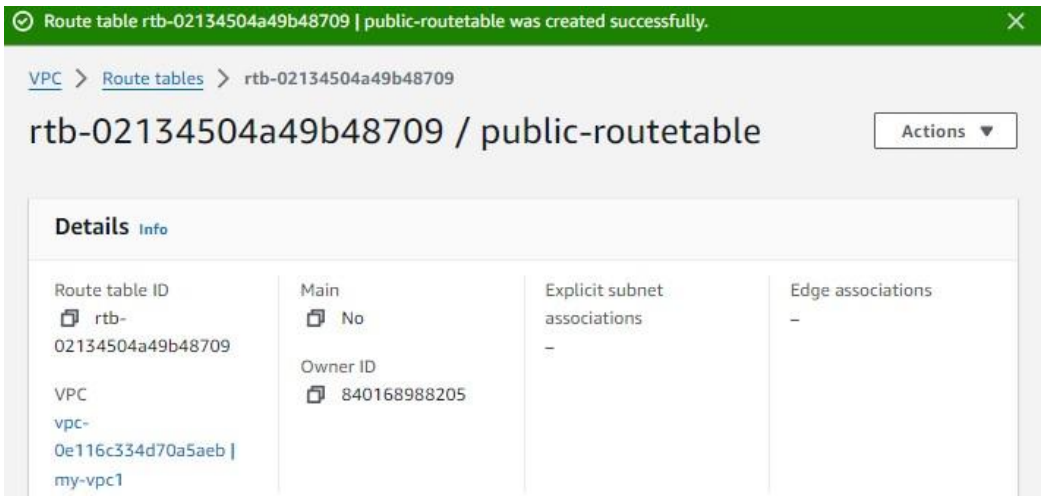
pic -17

Public route table creation



pic -18

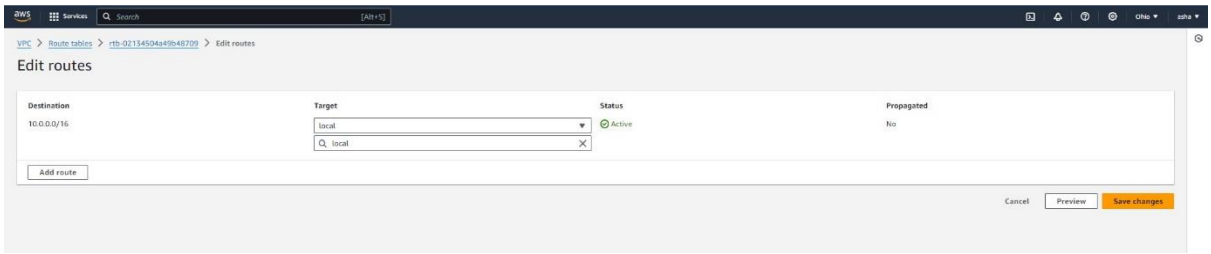
After providing VPC to the route table click on create route table



pic -19

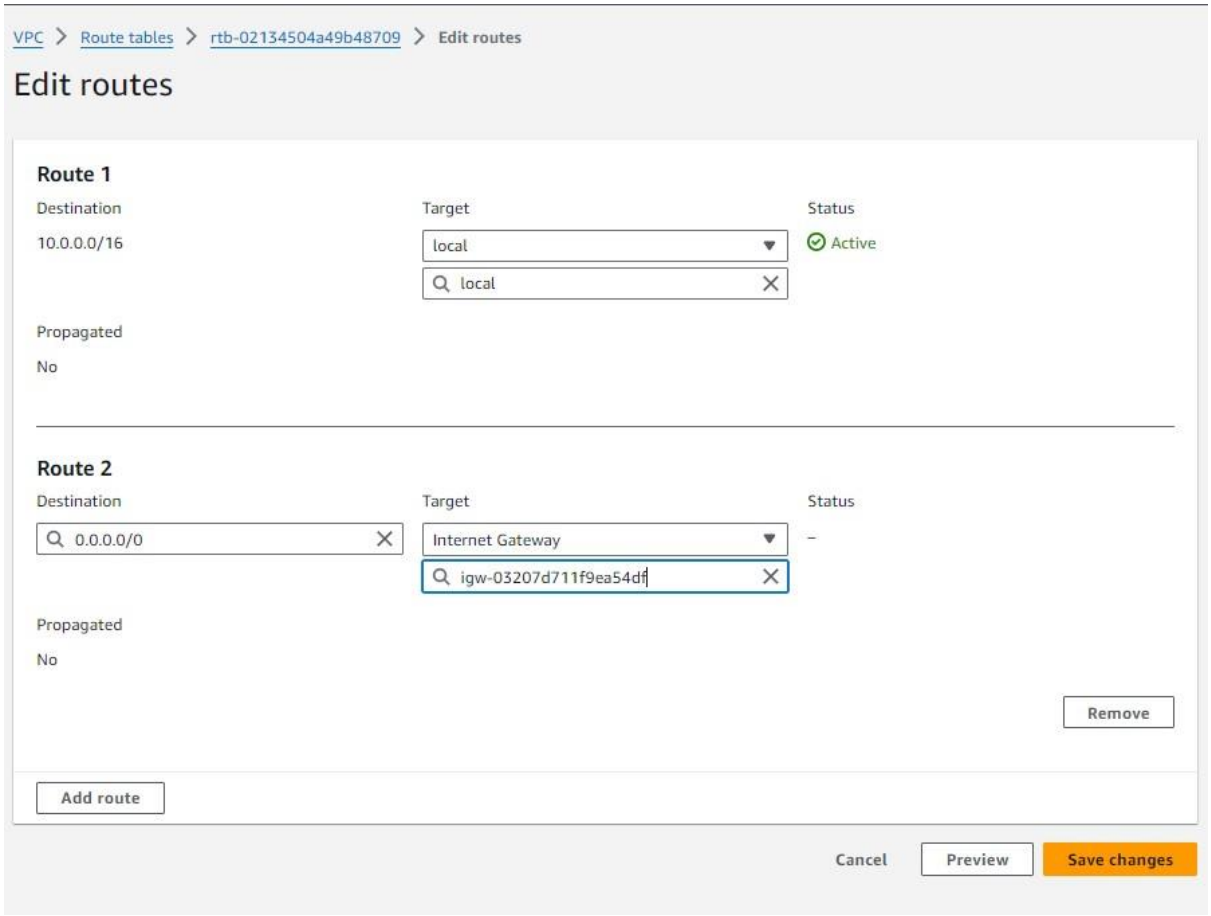
We have successfully created a public route table

Now click on Actions, click on Edit routes



pic -20

click on Add route. Select 0.0.0.0/0 as Destination

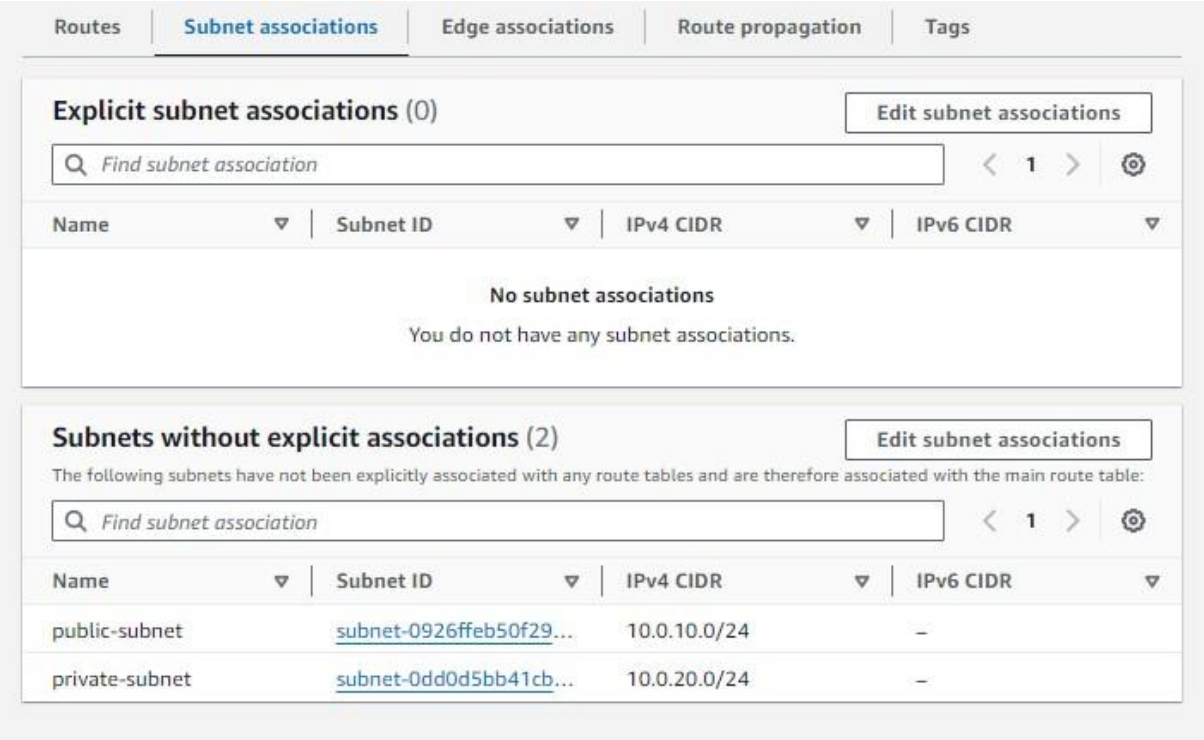


pic -21

Select Internet gateway from drop down list, we have selected use id like this igw-0e3f2f05c80bab751 and choose that one to our Internet gateway

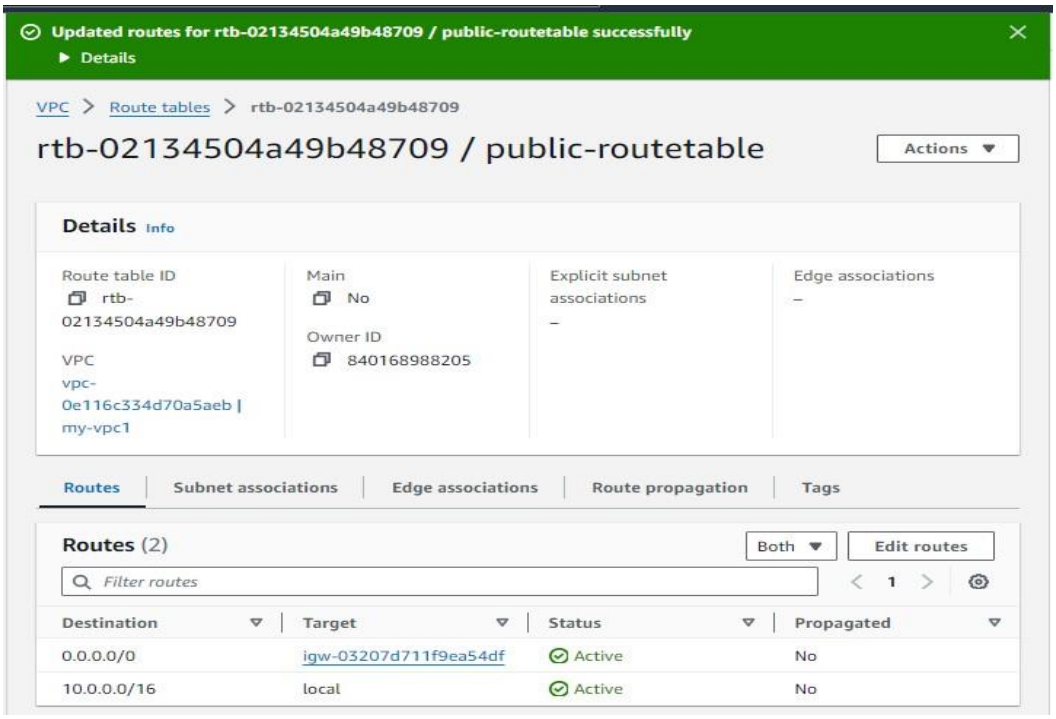
finally click on Save changes

Then click on Subnet associations and Edit subnet associations



pic -22

Select public subnet check box and Save associations

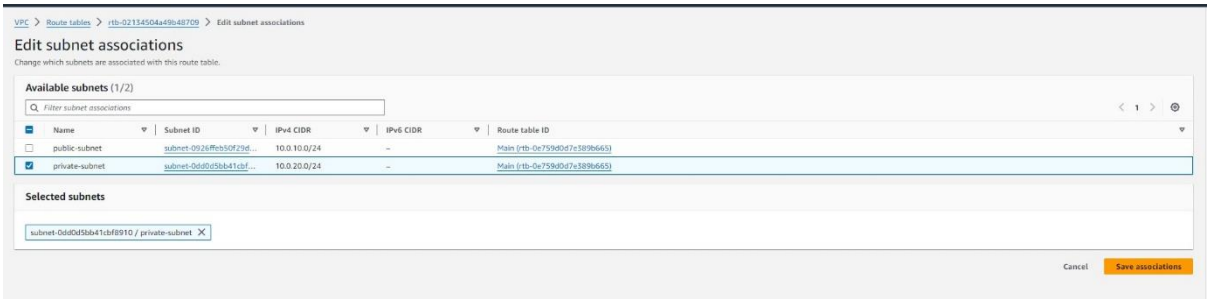


pic -23

Create one more route table (private-subnet) and associate with private subnet.

*Note: To the private route table, we are no giving internet gateway access to private, because we want to make it as private subnet

Now we created two route table to our custom VPC successfully

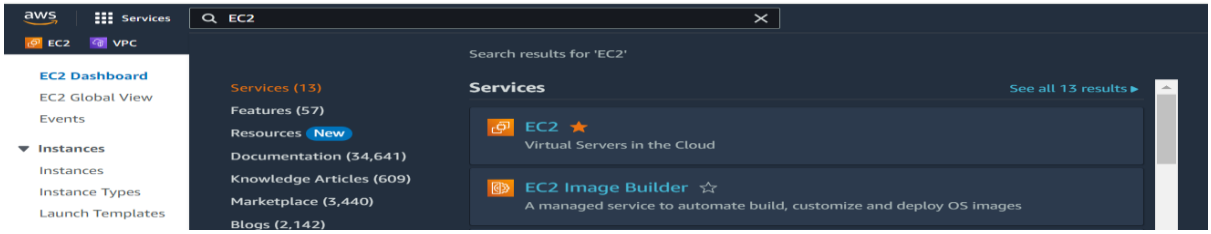


pic -24

VPC with 2 subnets and 2 route tables and internet gateway successfully created.

Create Three EC2 Instances

Search for EC2 in search space of AWS home page and click on EC2



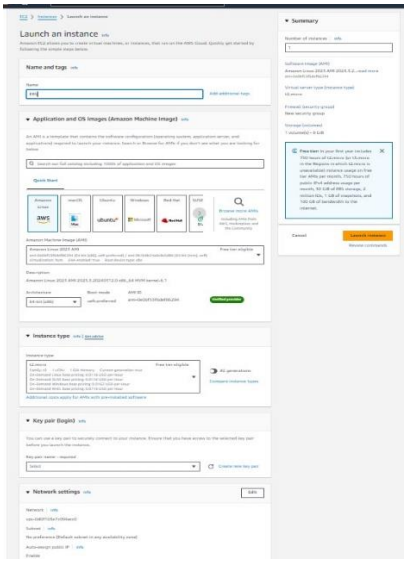
Pic-25

Now Create one ec2 instance to the elastic block storage (EBS).

We have to give the details for our ec2(EBS)

Instance type, key pair(login), network setting.

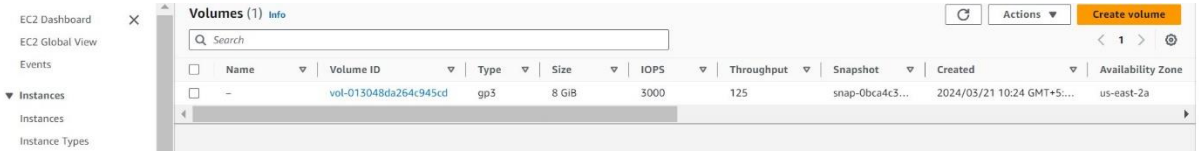
Finally click on the launch instance



Pic -26

Now we created EBS EC2 instance successfully.

Now click on Elastic Block Store option from EC2 instance menu
Then click on the volumes

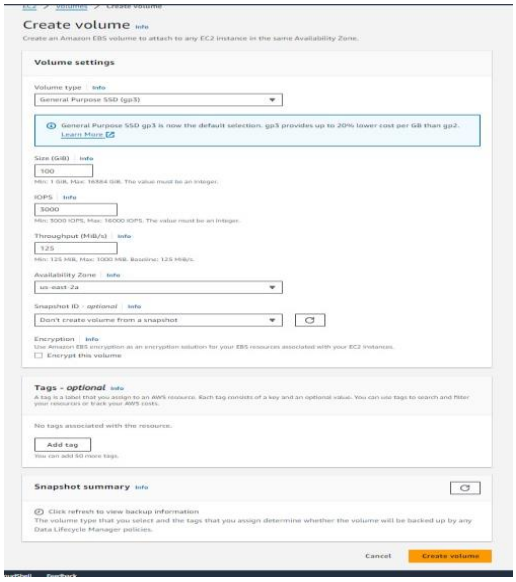


Pic -27

Create volume for EBS so that we have to give the details for volume

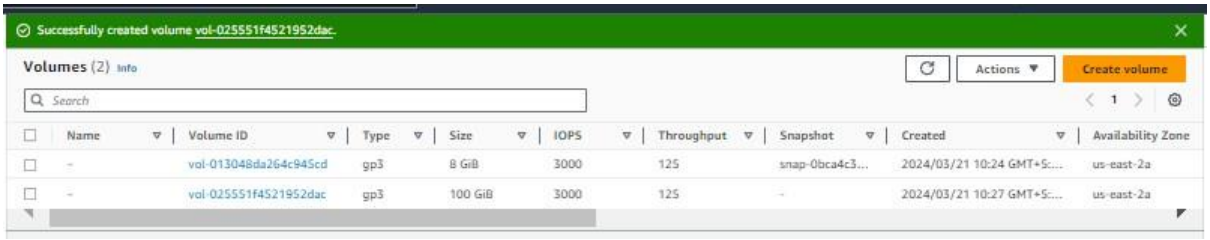
Type, size, availability zone.

Finally click on create volume



Pic-28

Once the volume has been created it will display as below



Pic -29

click on the actions and in actions attach the volume