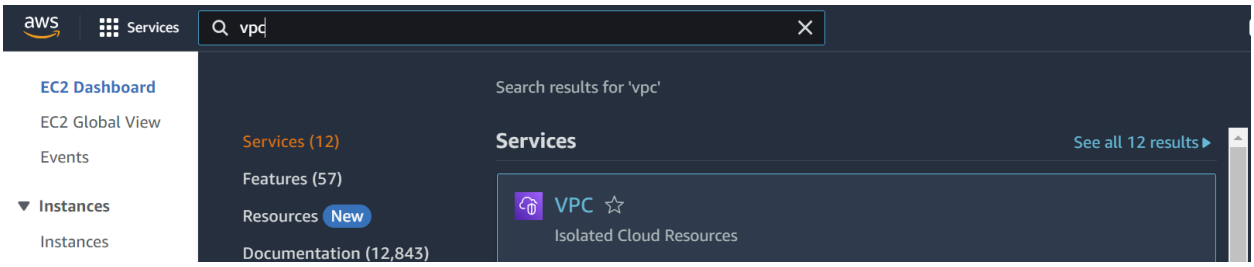
ASSIGNMENT-1

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

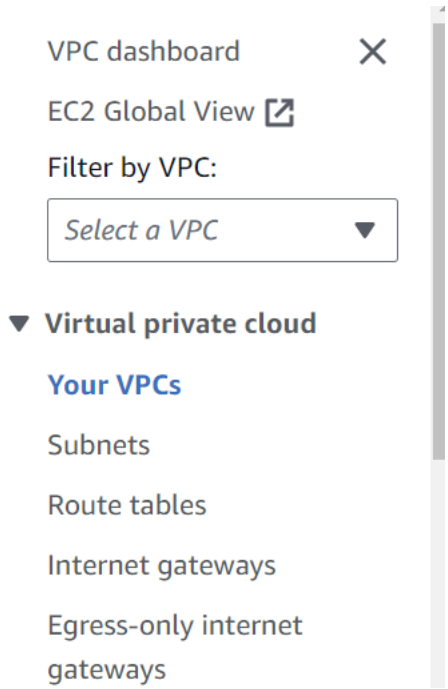
- Launch an instances
- Attach 1 instance with EBS

Create a virtual private cloud (VPC)

Search for VPC in search space of AWS home page and click on VPC (Pic-1)



pic-1

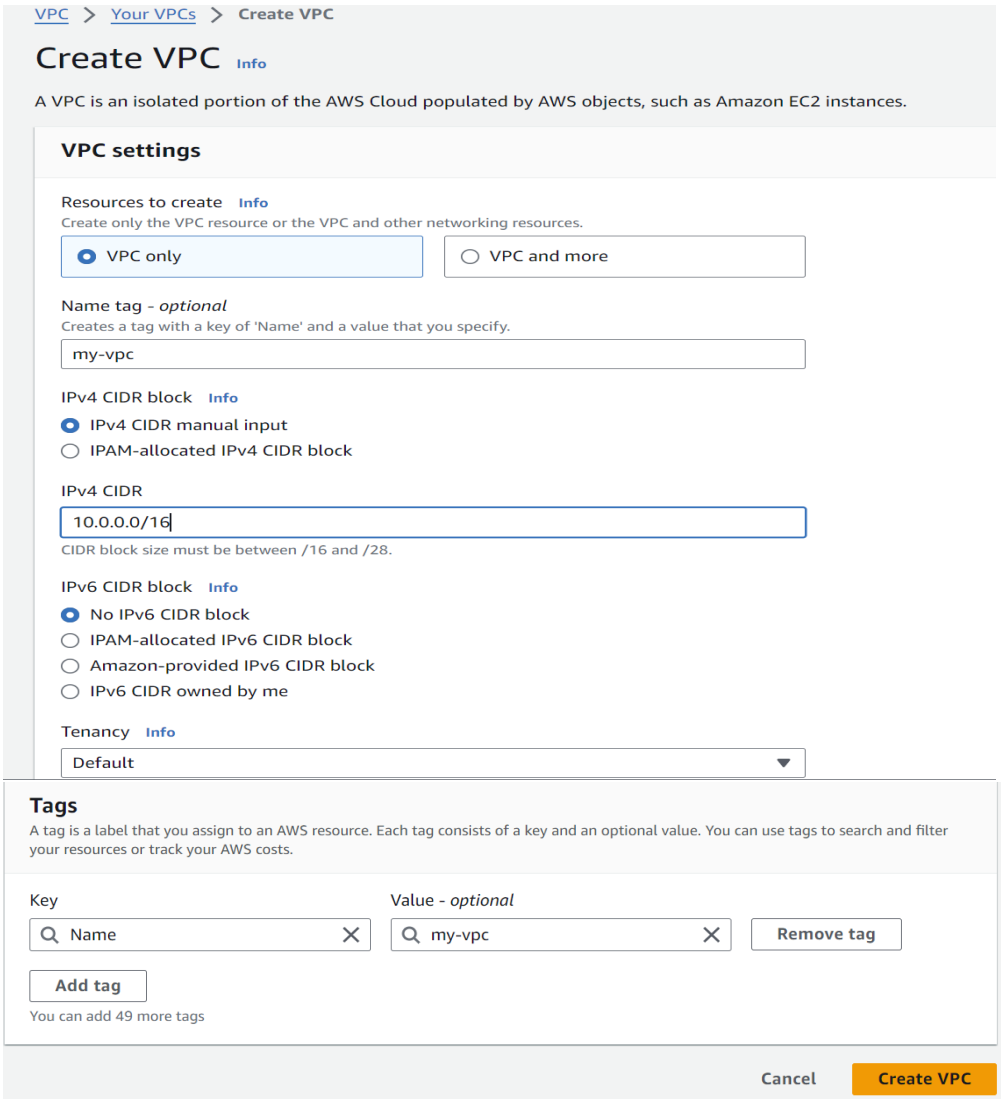


Pic-2

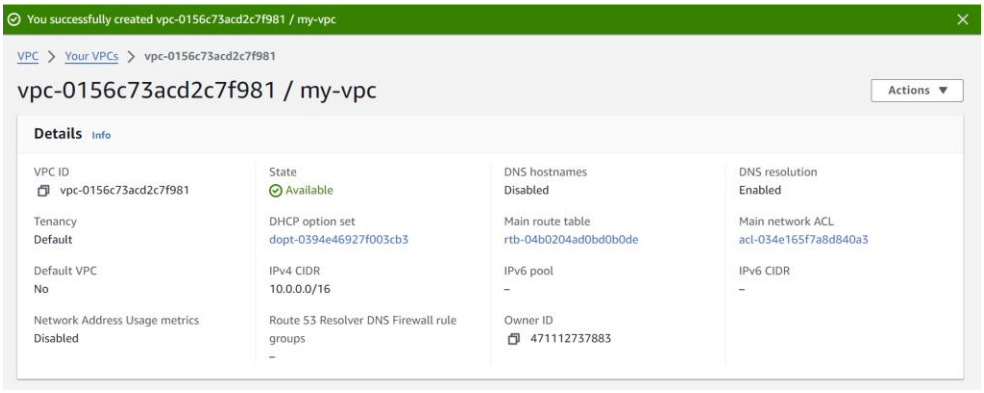
Now click on Create VPC to create our custom VPC (pic3)

pic-3

Now we must give the details for our VPC and finally click on Create VPC (pic - 4)

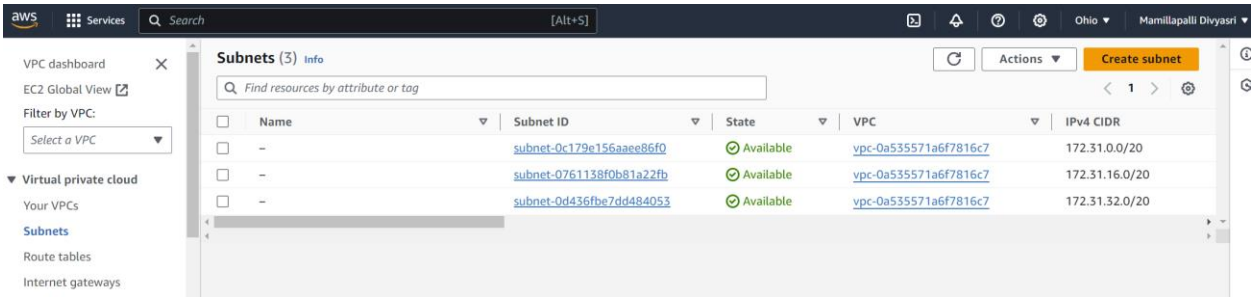


Pic-4



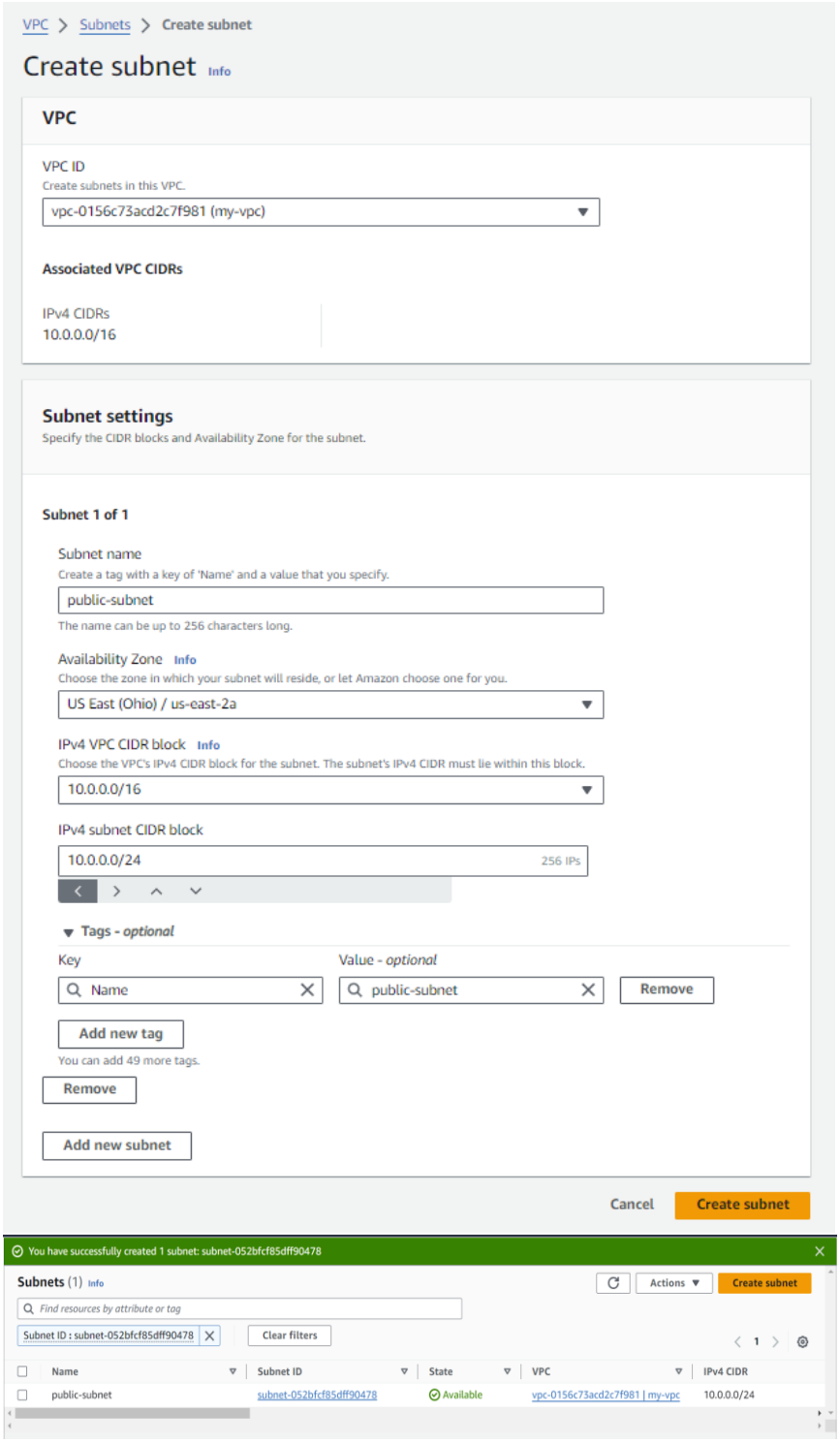
pic5 Now we have created our custom VPC successfully.

Now click on Subnets to create Subnets to our custom VPC (Pic-6)

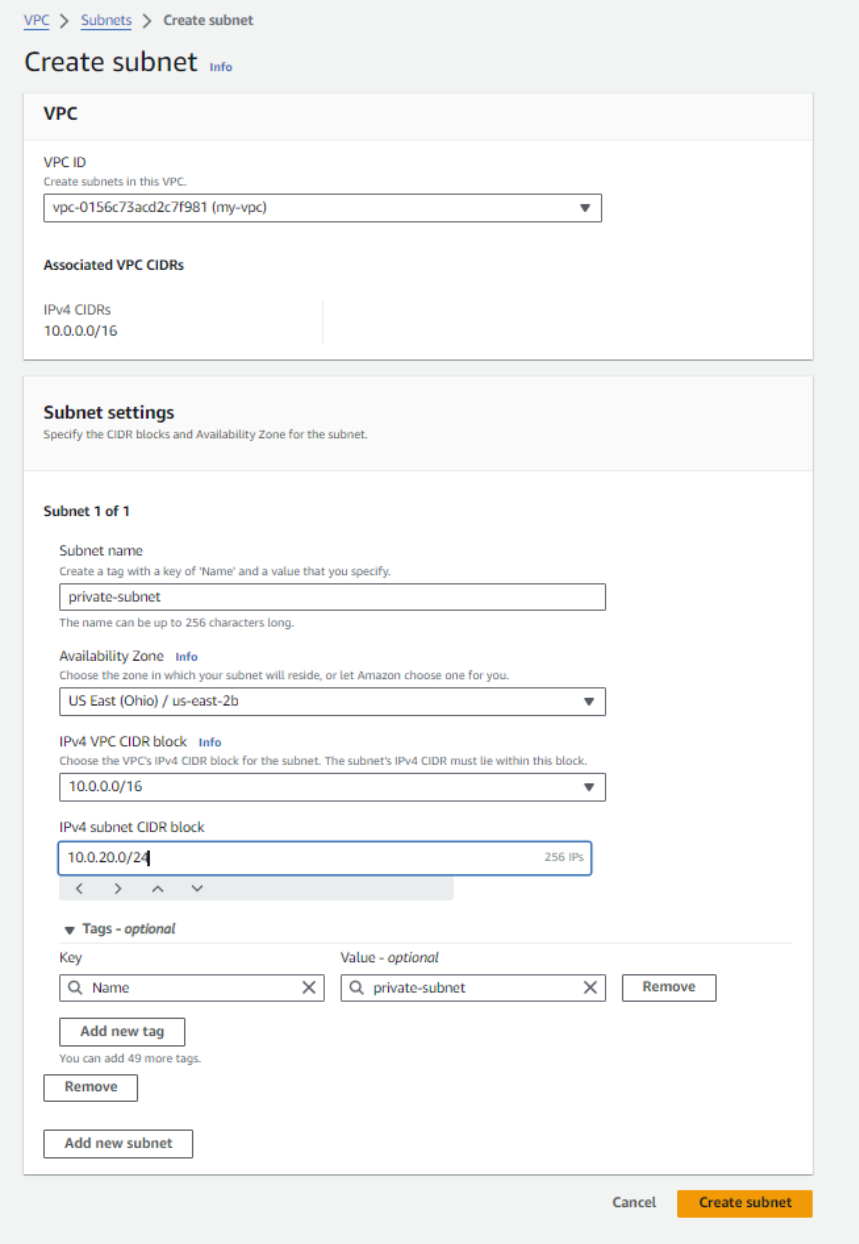


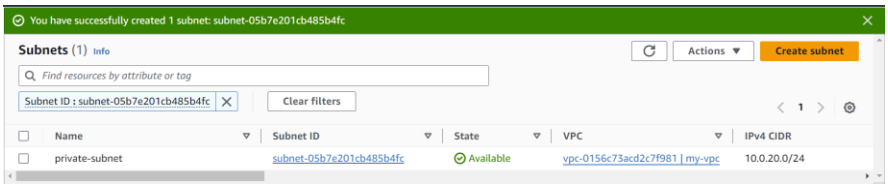
pic-6

Then create two subnets public and private We have given our custom VPC-ID, Subnet name, choose only one availability Zone, IPv4 subnet CIDR block, then finally create subnet

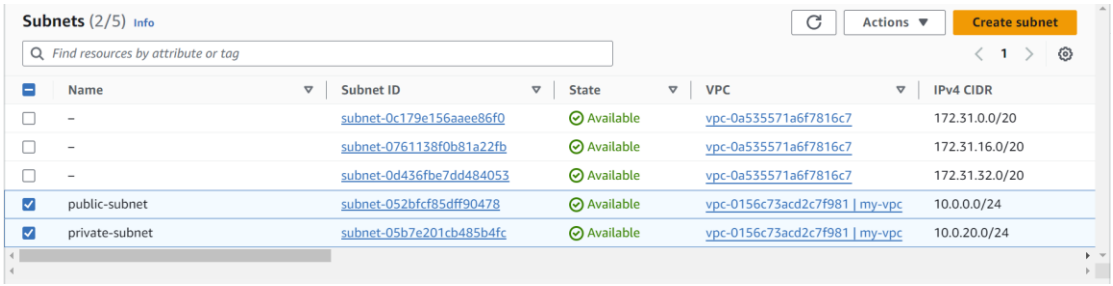


pic-7(public-subnet)





Pic-8(private-subnet)

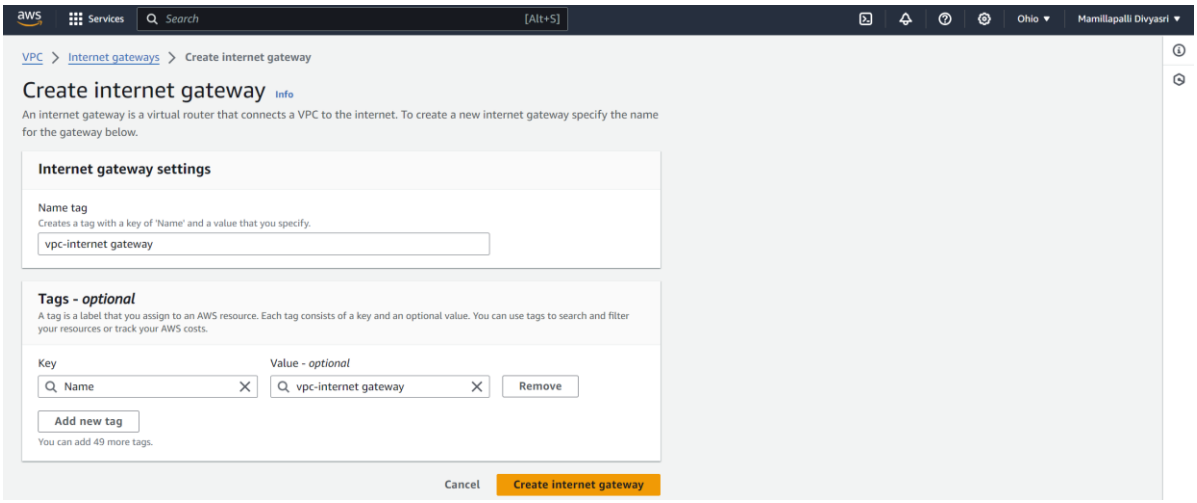


pic 9

Now we created two Subnets to our custom VPC successfully (Pic-9)

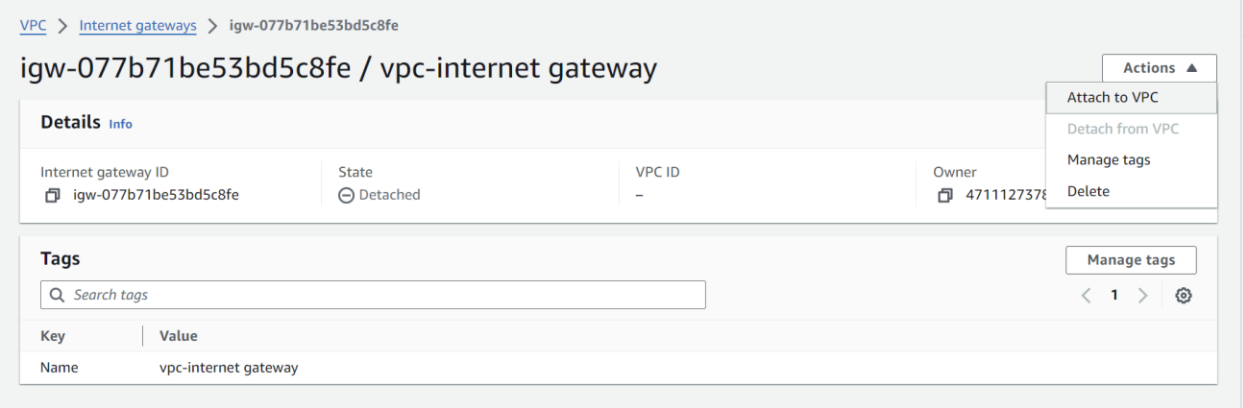
Now click on Internet gateways from menu bar and click on Create internet gateway. (Pic-10)

pic-10



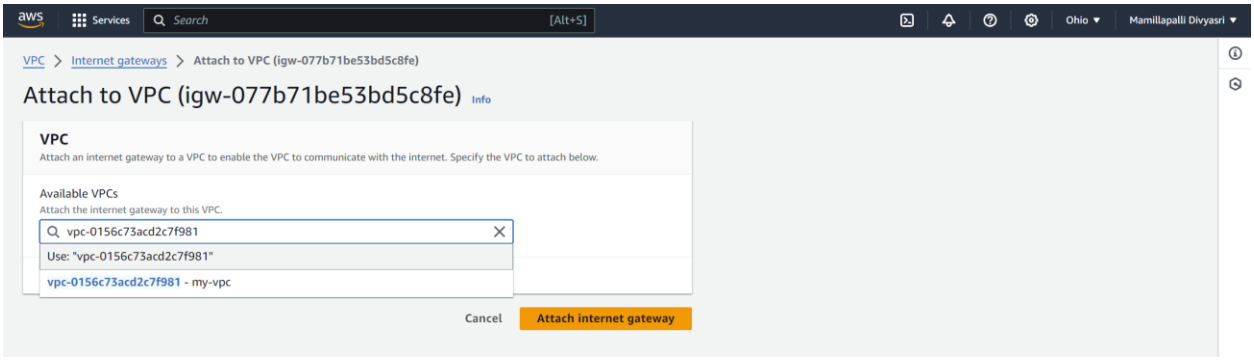
pic-11

Then click on Actions and click on Attach to VPC(Pic-12)



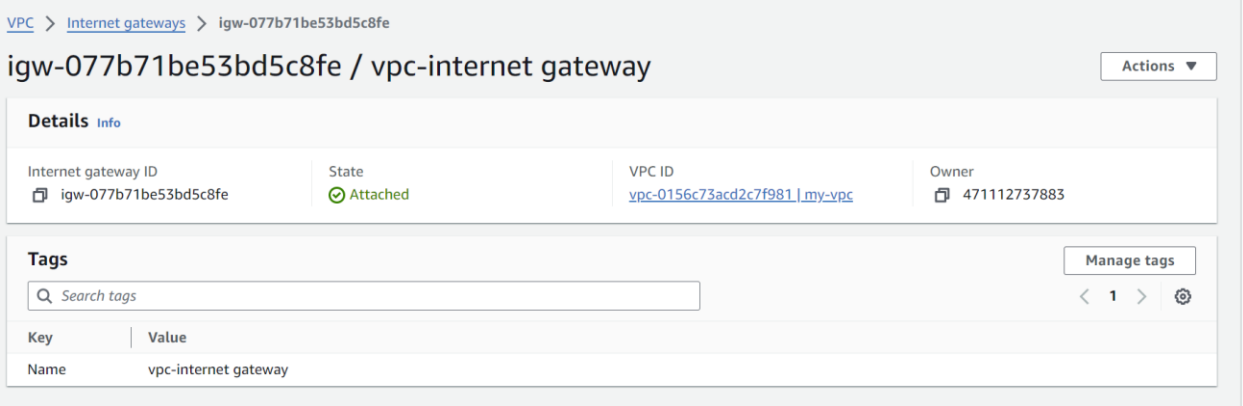
pic-12

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 gateway. (Pic-13)



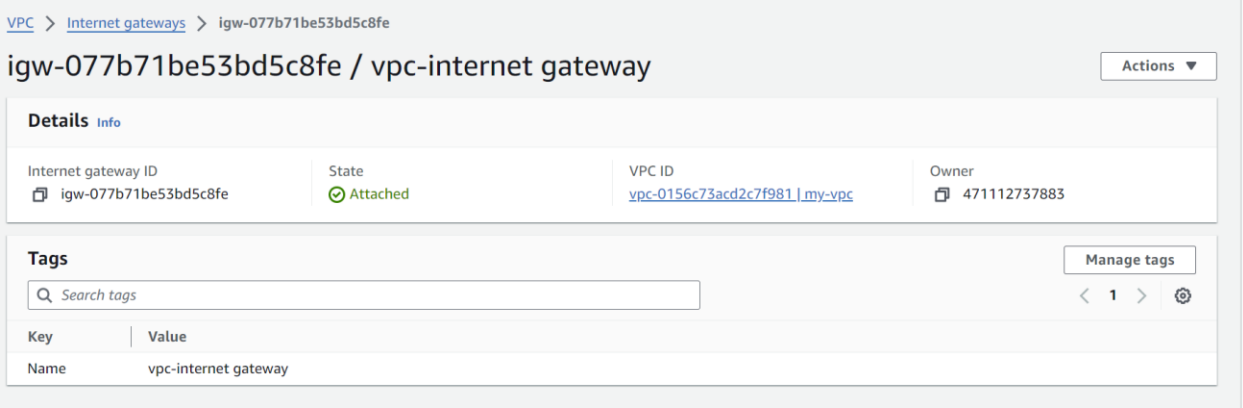
pic-13

Now we created internet gateway to our custom VPC successfully (Pic-14)



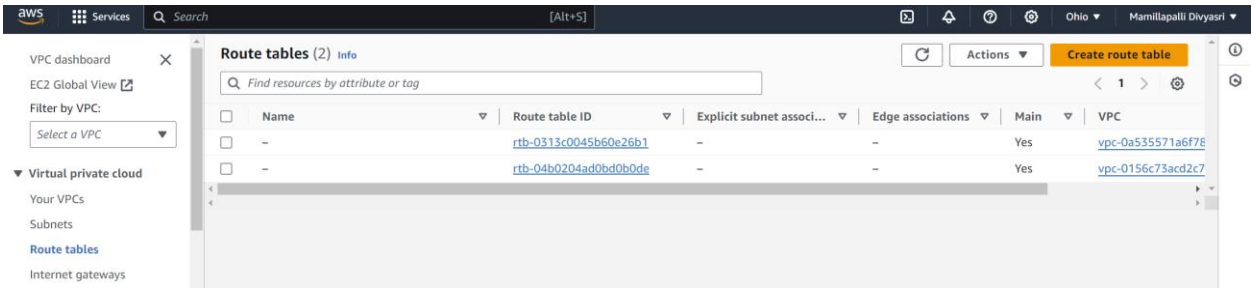
pic-14

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-15)



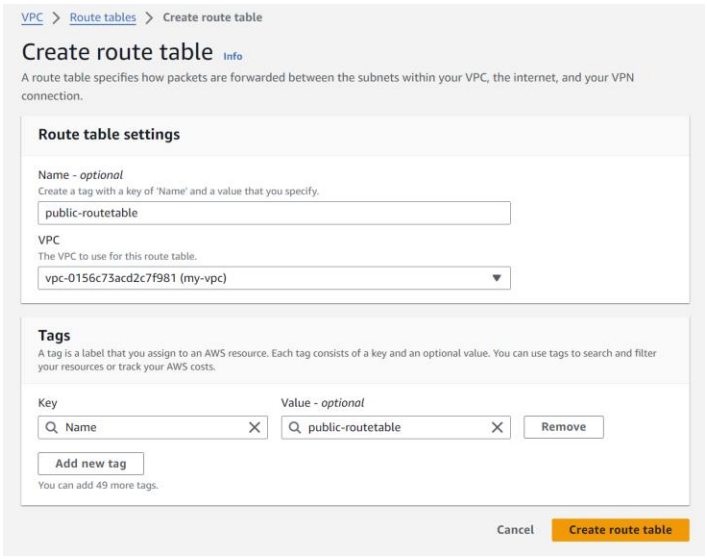
pic-15

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-16)



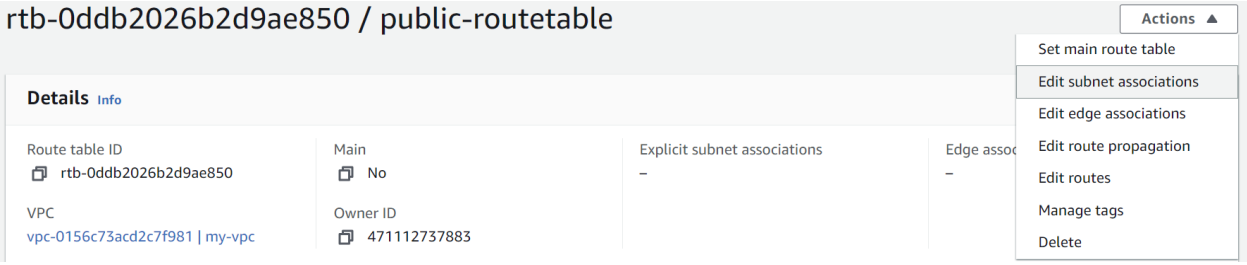
pic-16

Then give name to route table and select our custom VPC and finally click on Create route table(Pic-17)



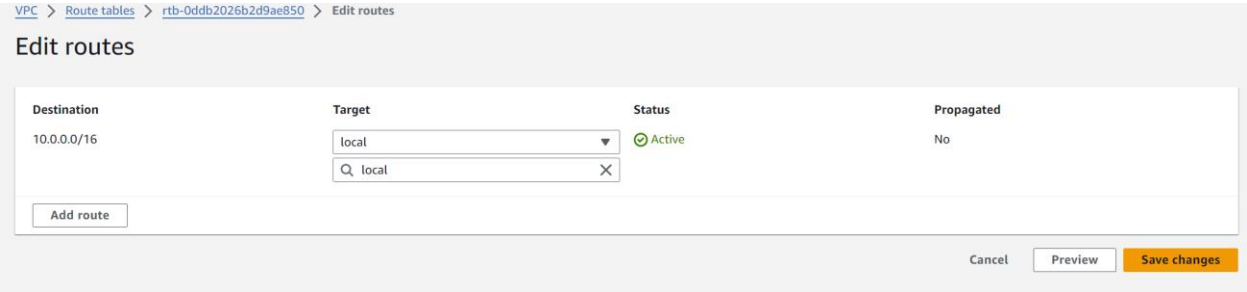
Pic-17

Now click on Actions, click on Edit routes (Pics-18)



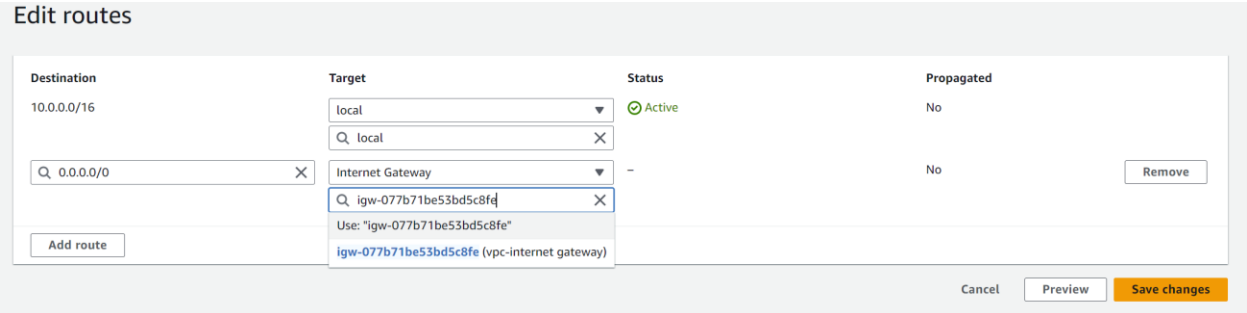
pic-18

click on Add route. Select 0.0.0.0/0 as Destination (Pic-19)



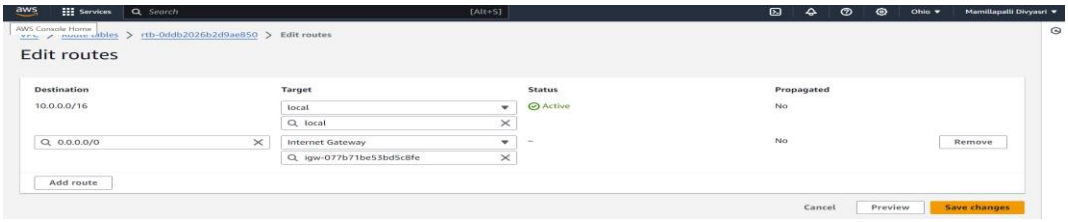
pic-19

Select Internet gateway from drop down list ,we have select use id like this igw-077b71be53bd5c8fe and choose that one to our Internet gateway(Pic-20)



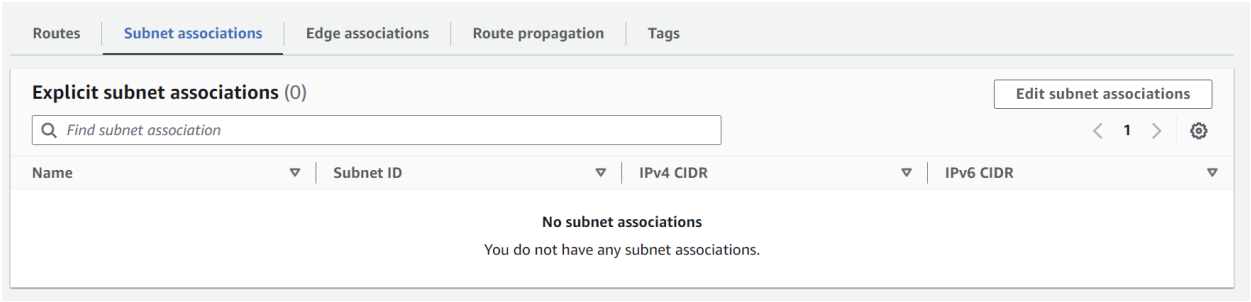
pic-20

finally click on Save changes. (pic-21)



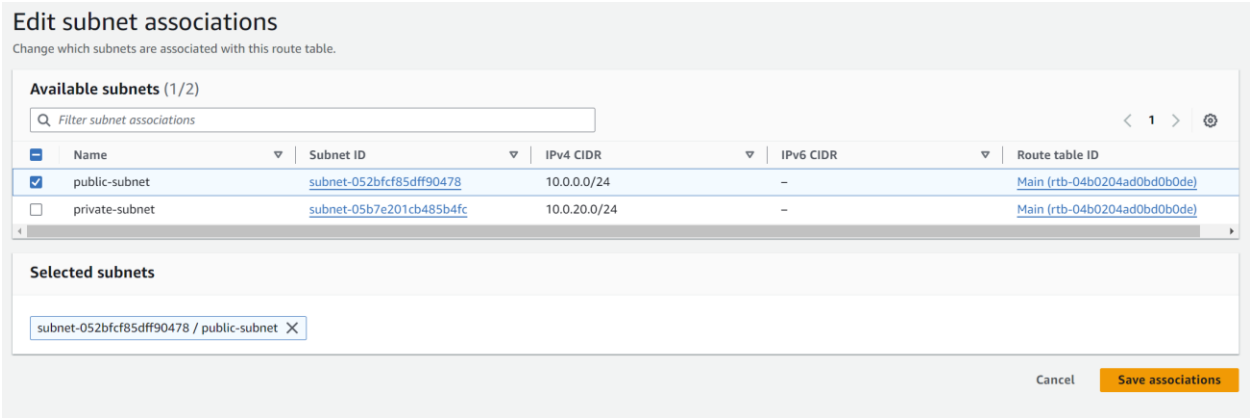
Pic21

Then click on Subnet associations and Edit subnet associations.(Pics-22)



pic-22

Select public subnet check box and Save associations.(Pic-23)

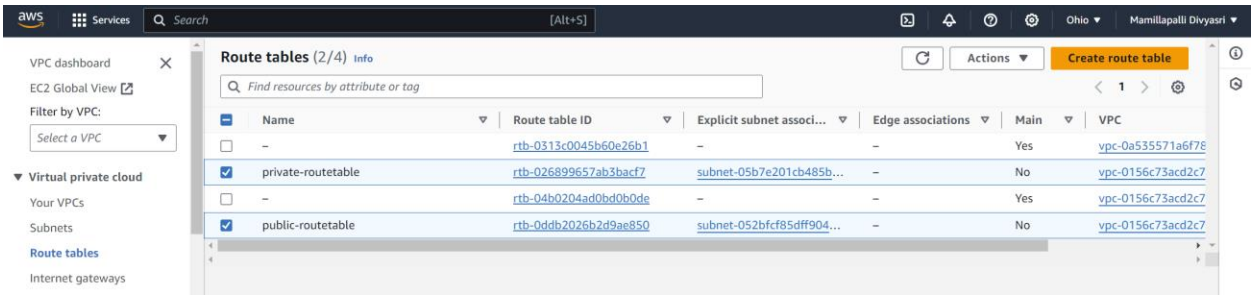


pic-23

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)

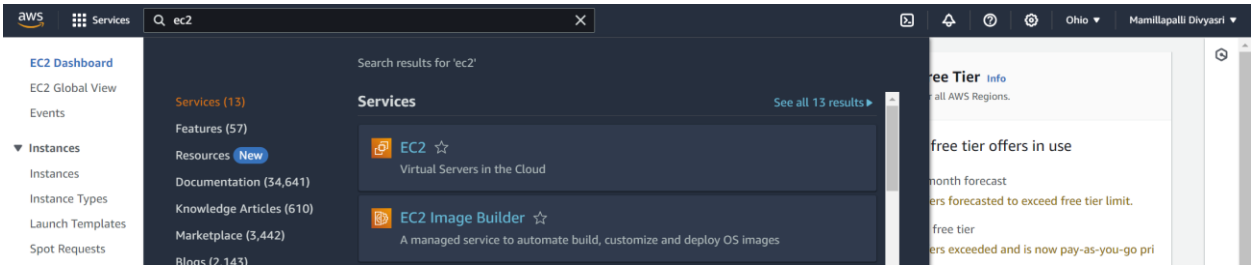


pic-24

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

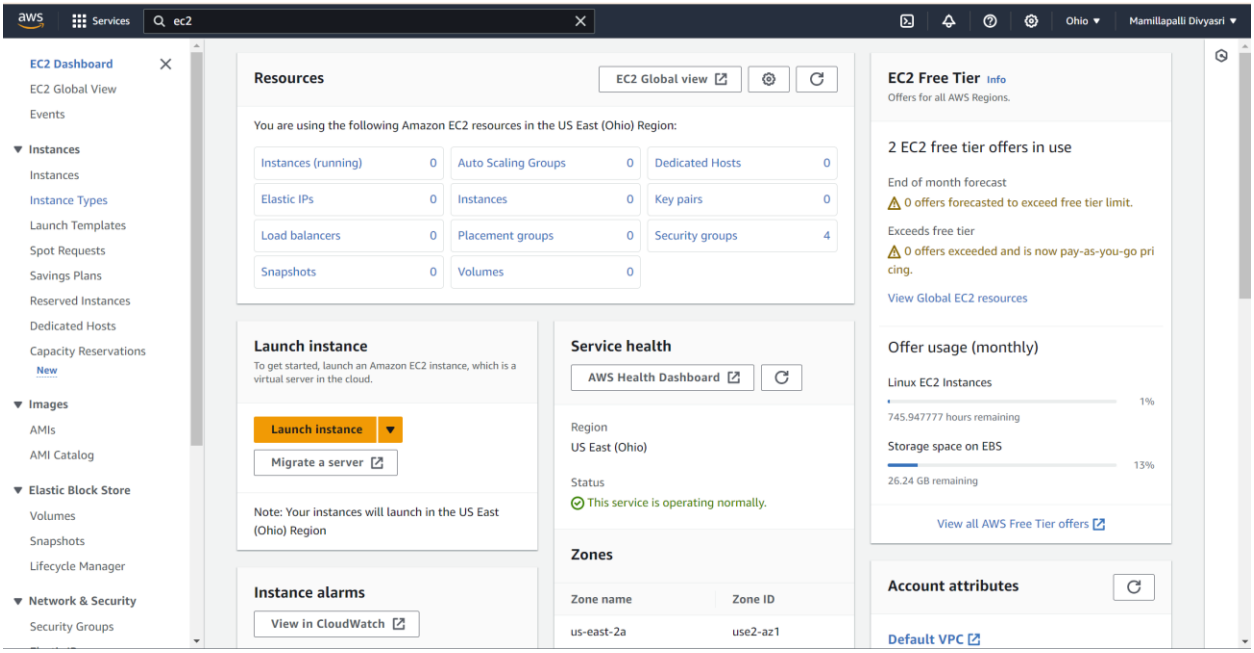
Create Three EC2 Instances

Search for EC2 in search space of AWS home page and click on EC2(Pic-25)



pic-25

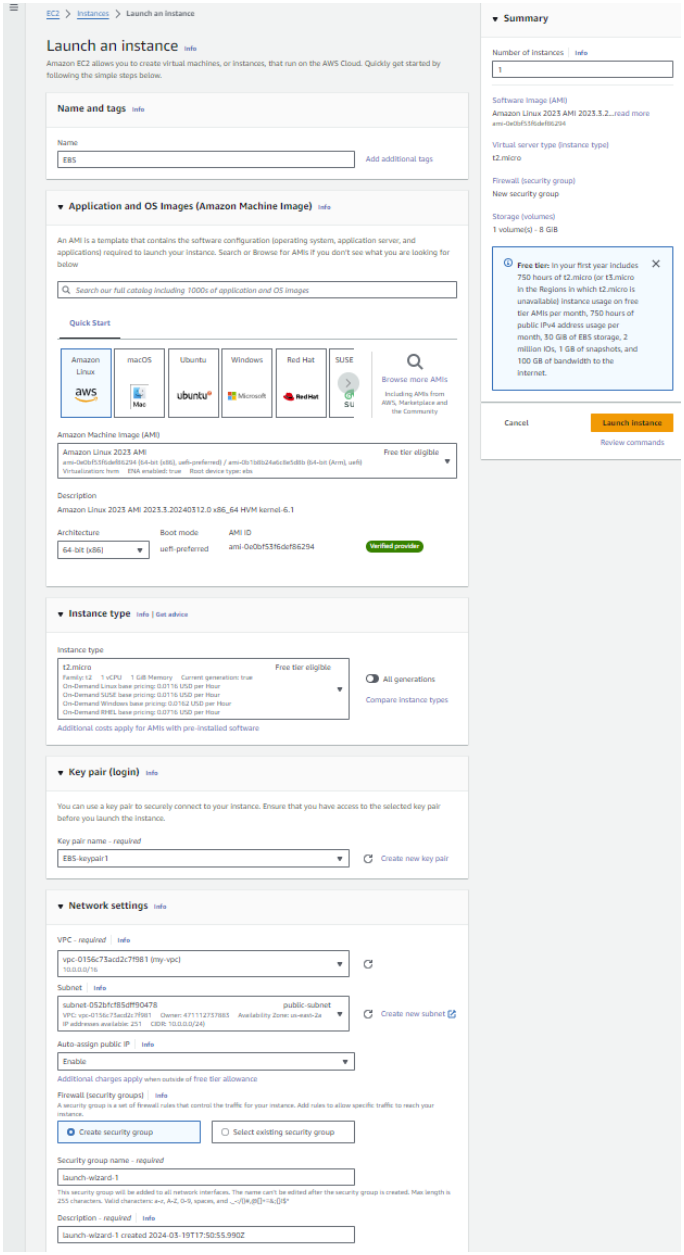
Now Create one ec2 instance to the elastic block storage (EBS). (Pic-26)



pic-26

Then launch the instance of ec2 for ebs, Now We must give the details for our ec2(EBS)Instance and then we have mentioned some details like we have name,OS type to start, instance type, keypair(login), network setting.

finally click on Launch instance (Pic-27)

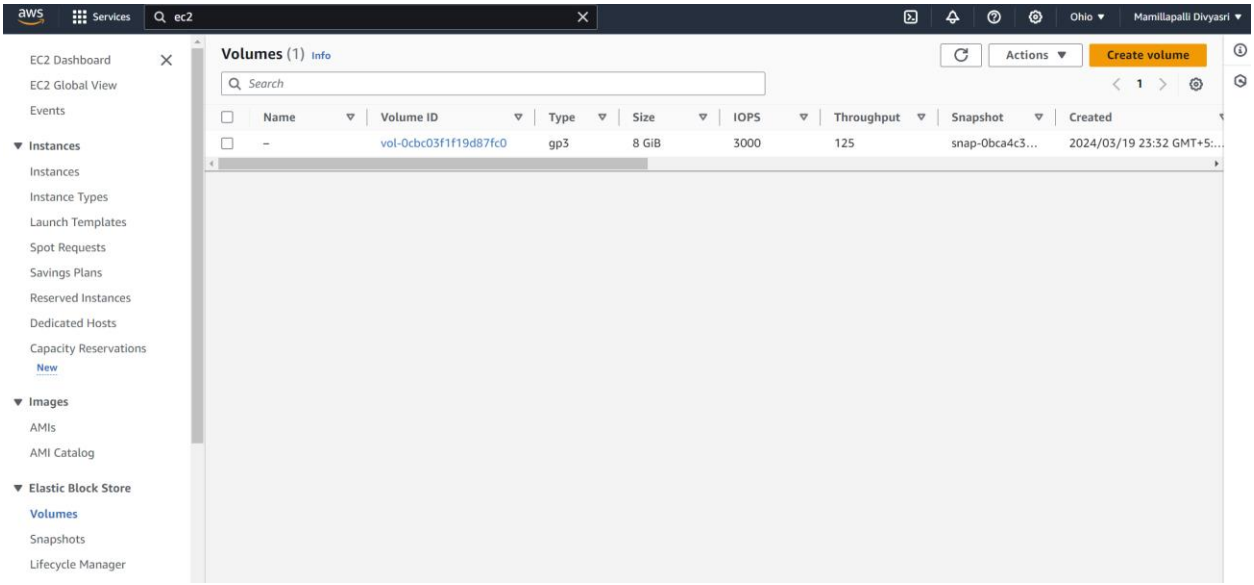


Pic-27

Now we created EBS EC2 Instance successfully.

Now click on Elastic Block Store option from EC2 instance menu

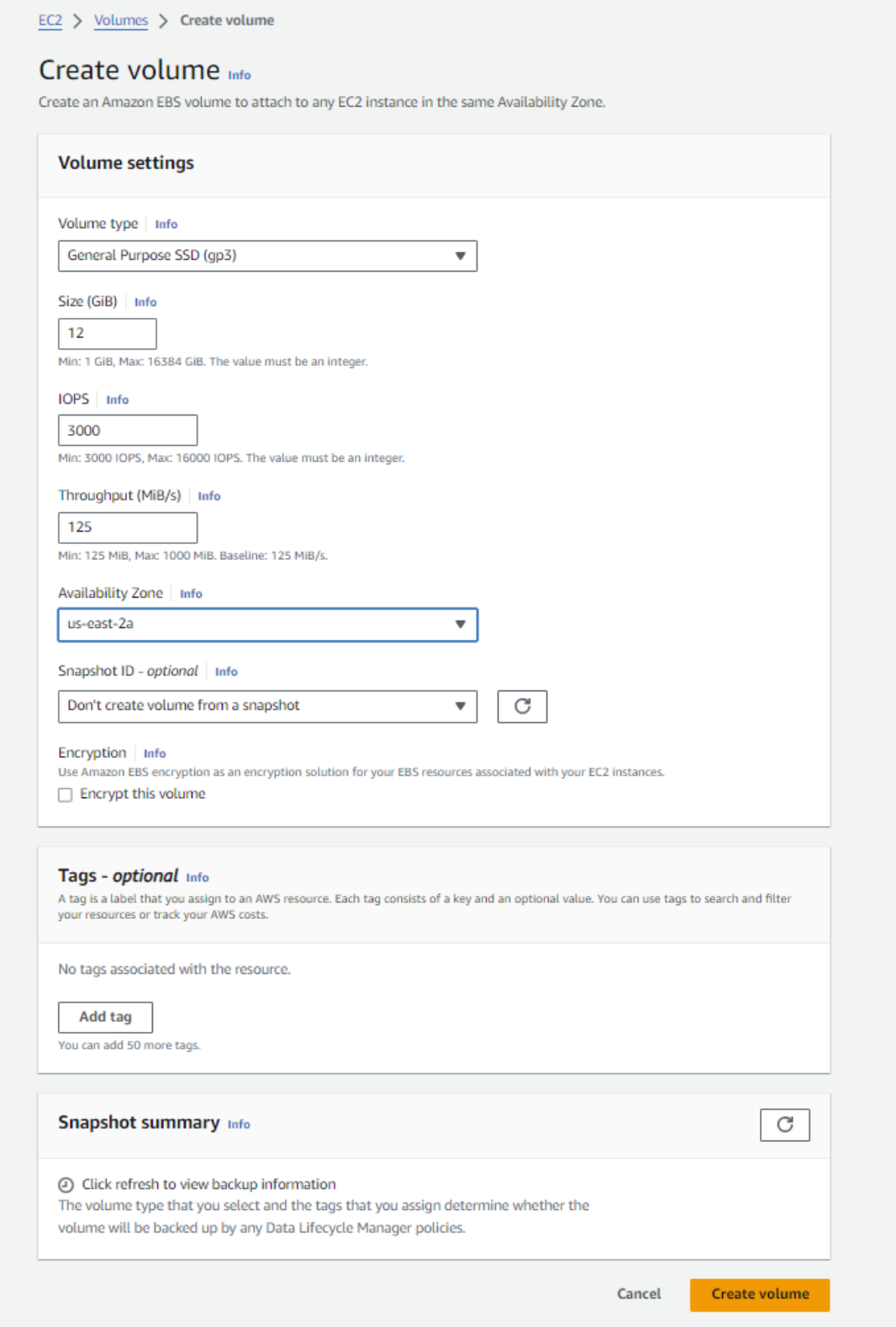
Then click on volumes. (Pic-28)



pic-28

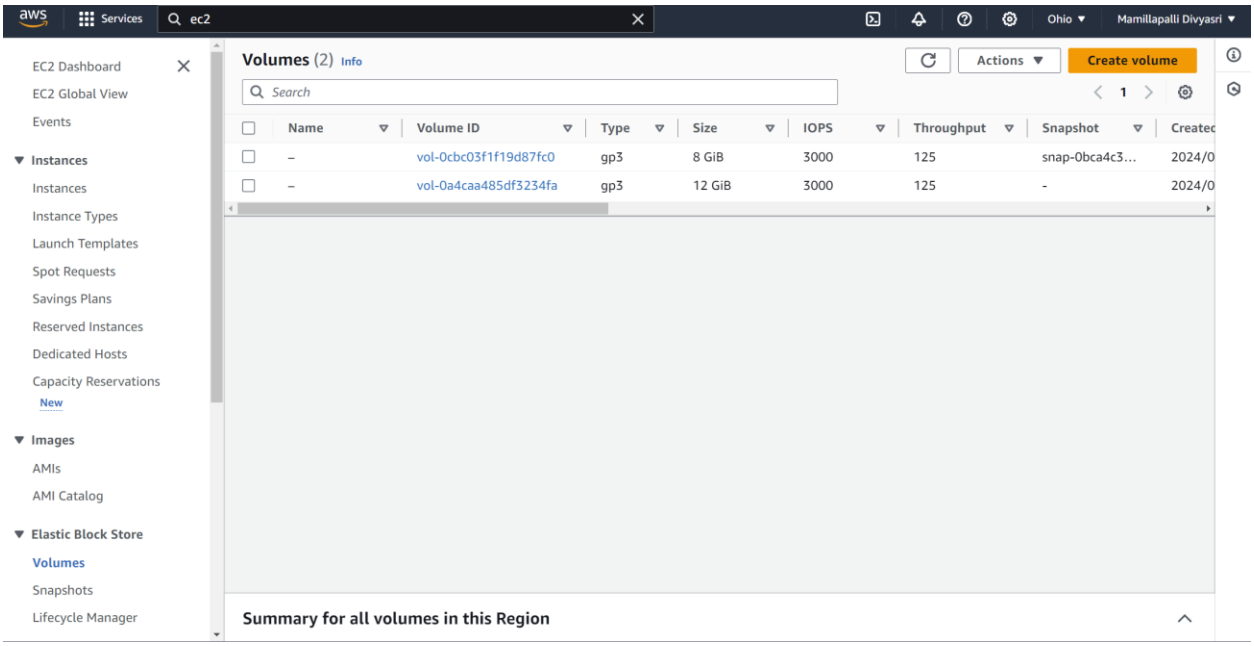
create Volume for EBS so that We must give the details for volume type,size,availability zone.

finally click on create volume (Pic-29)


EC2 > Volumes > Create volume
Create volume Info
Create an Amazon EBS volume to attach to any EC2 instance in the same Availability Zone.
Volume settings
Volume type Info
General Purpose SSD (gp3)
Size (GiB) Info
12
Min: 1 GiB, Max: 16384 GiB. The value must be an integer.
IOPS Info
3000
Min: 3000 IOPS, Max: 16000 IOPS. The value must be an integer.
Throughput (MiB/s) Info
125
Min: 125 MiB, Max: 1000 MiB. Baseline: 125 MiB/s.
Availability Zone Info
us-east-2a
Snapshot ID - optional Info
Don't create volume from a snapshot
Encryption Info
Use Amazon EBS encryption as an encryption solution for your EBS resources associated with your EC2 instances.
Encrypt this volume
Tags - optional Info
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.
No tags associated with the resource.
Add tag
You can add 50 more tags.
Snapshot summary Info
Click refresh to view backup information
The volume type that you select and the tags that you assign determine whether the volume will be backed up by any Data Lifecycle Manager policies.
Cancel
Create volume

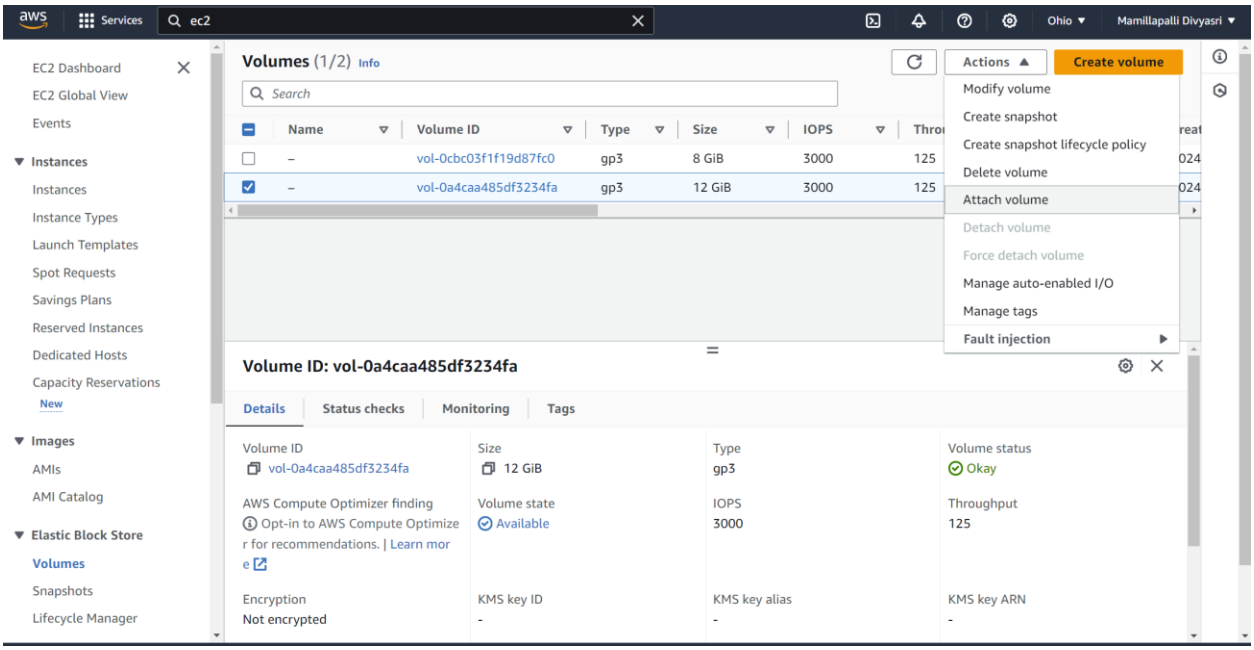
Pic-29

Once the volume has been created(pic-30).



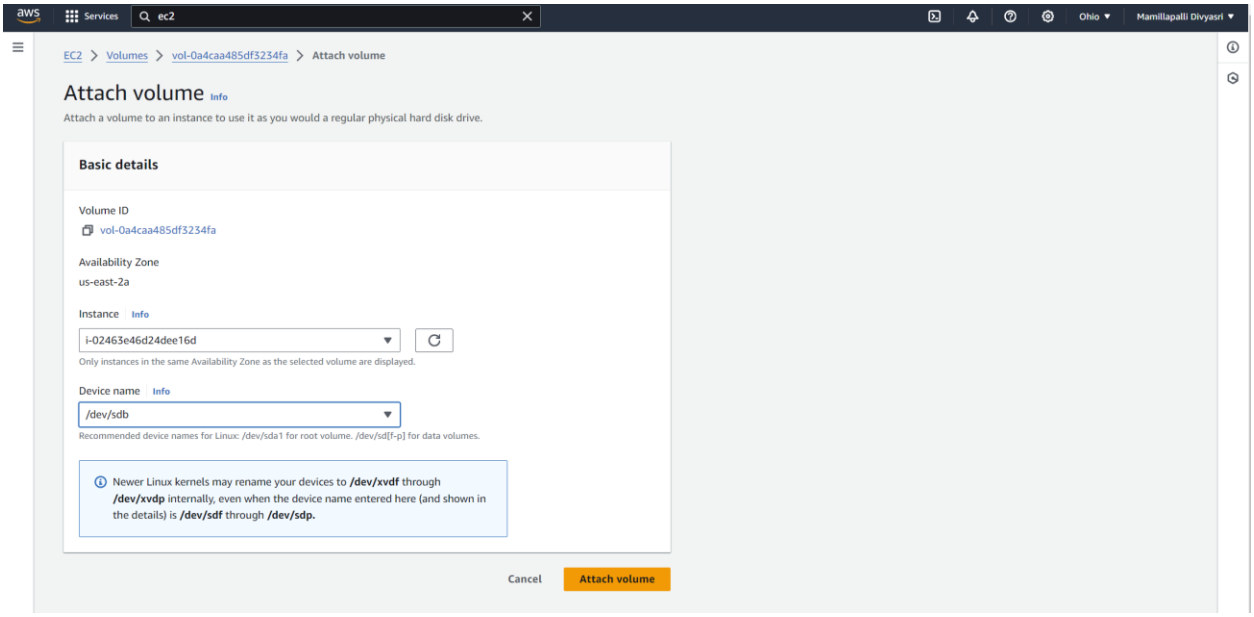
pic-30

click on actions in that click on attach volume(Pic-31)



pic-31

In Attach volume give created instance id and click on attach volume.(pic-32)



pic-32

The volume is succefully attached to instance