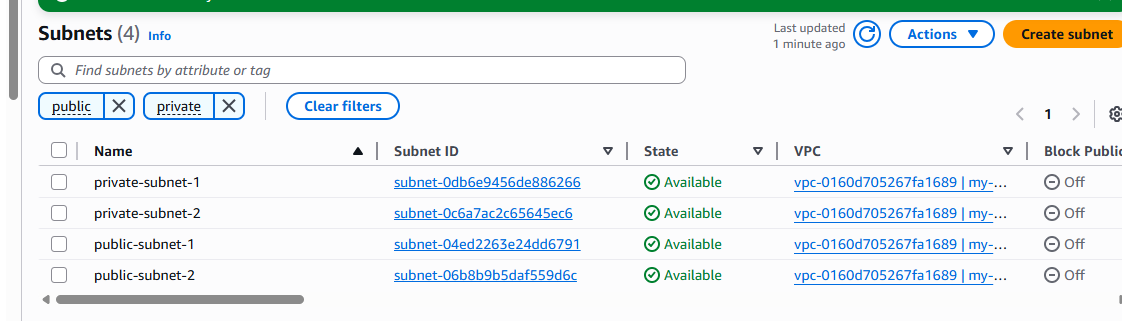
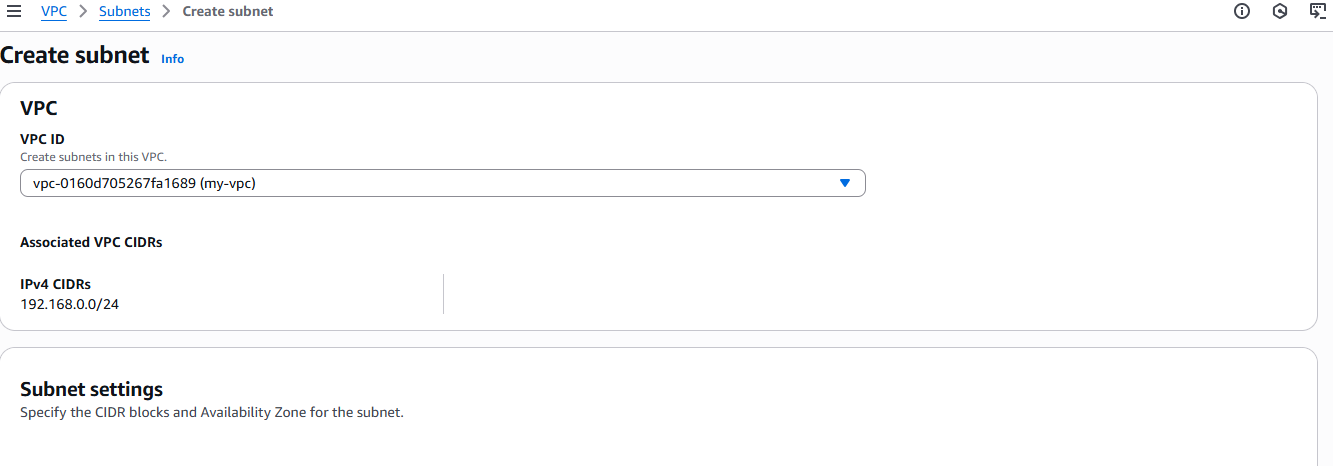
**VPC-2 TASK**

1. **Create one VPC,with 1 one public subnet and 1 private subnet.**

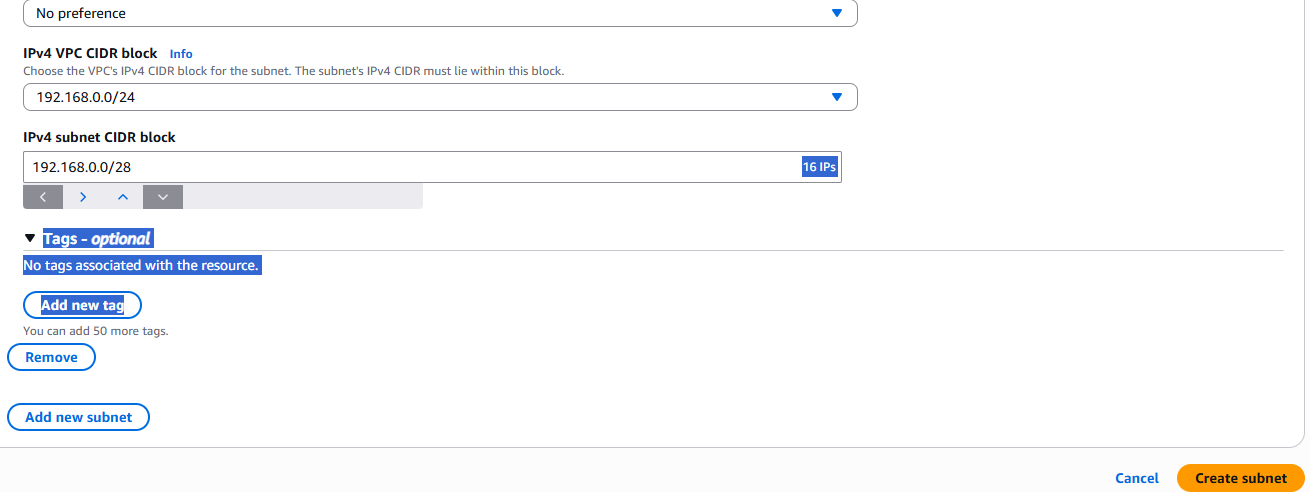
VPC ---> Your VPC --->click Create VPC

****

Add your VPC in VPC ID

****

Enter reqired IPV4 subnet CIDR block

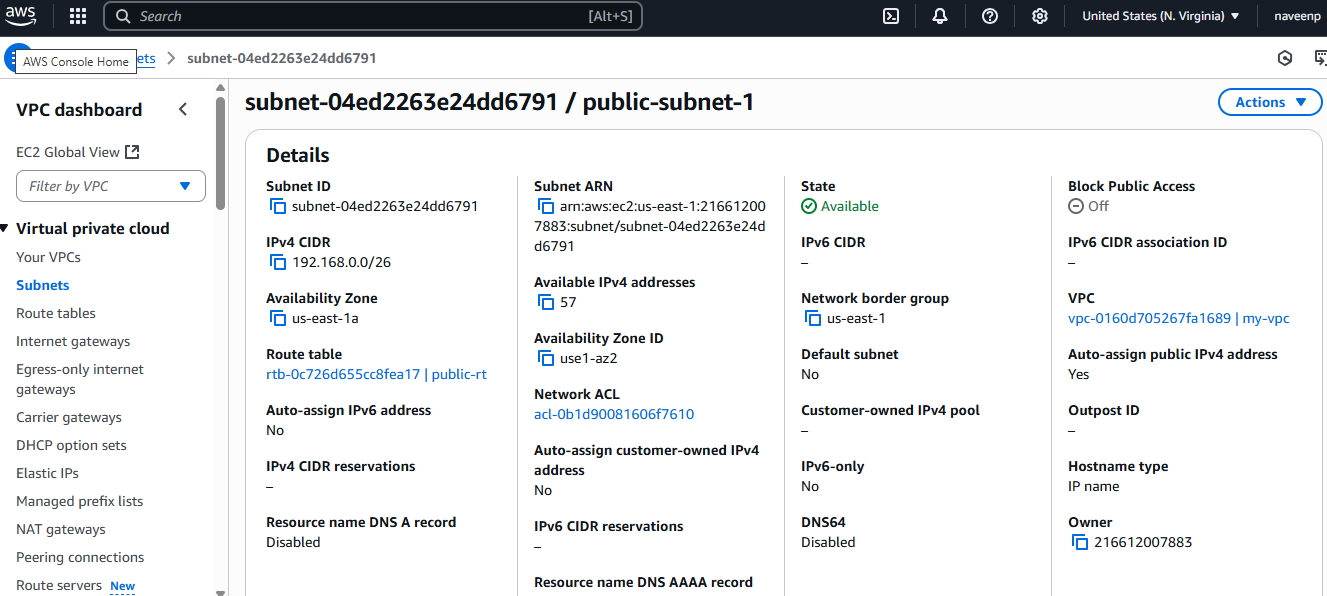
****

**STEP:2**

To create Public subnet

VPC ---> Subnets --->Create Subnets --->

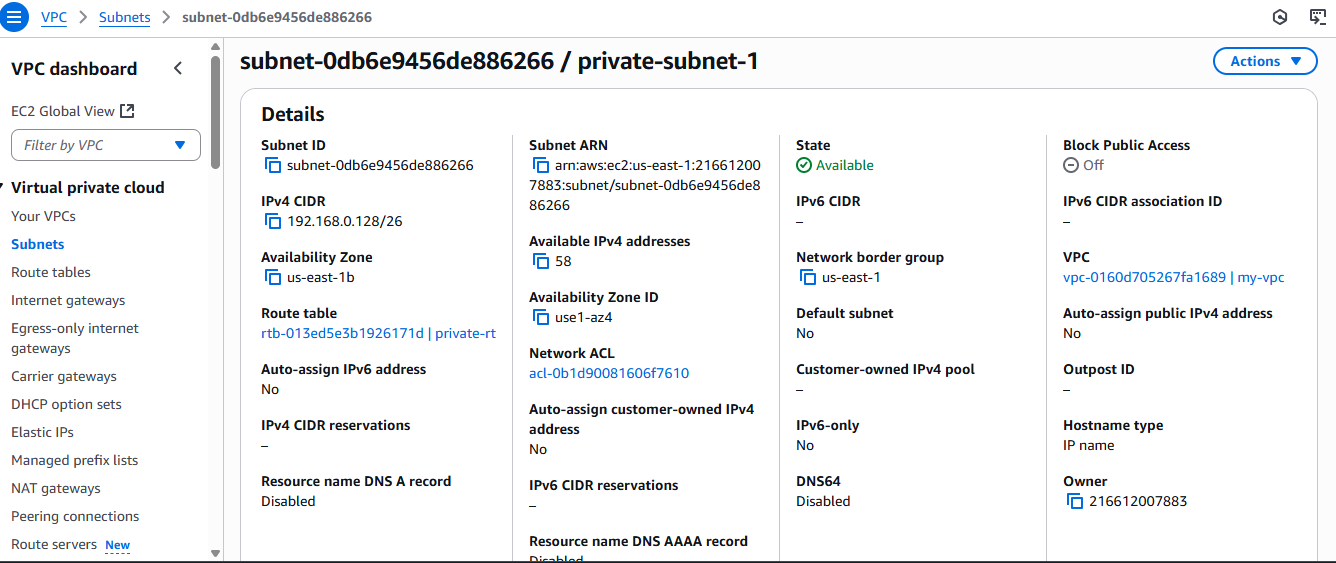
**Add created VPC ---> Enter Subnet name ---> To pick availability zone ---> Enter required IPv4 CIDR block --->click Create Subnet**



To create Private subnet

VPC ---> Subnets --->Create Subnets --->

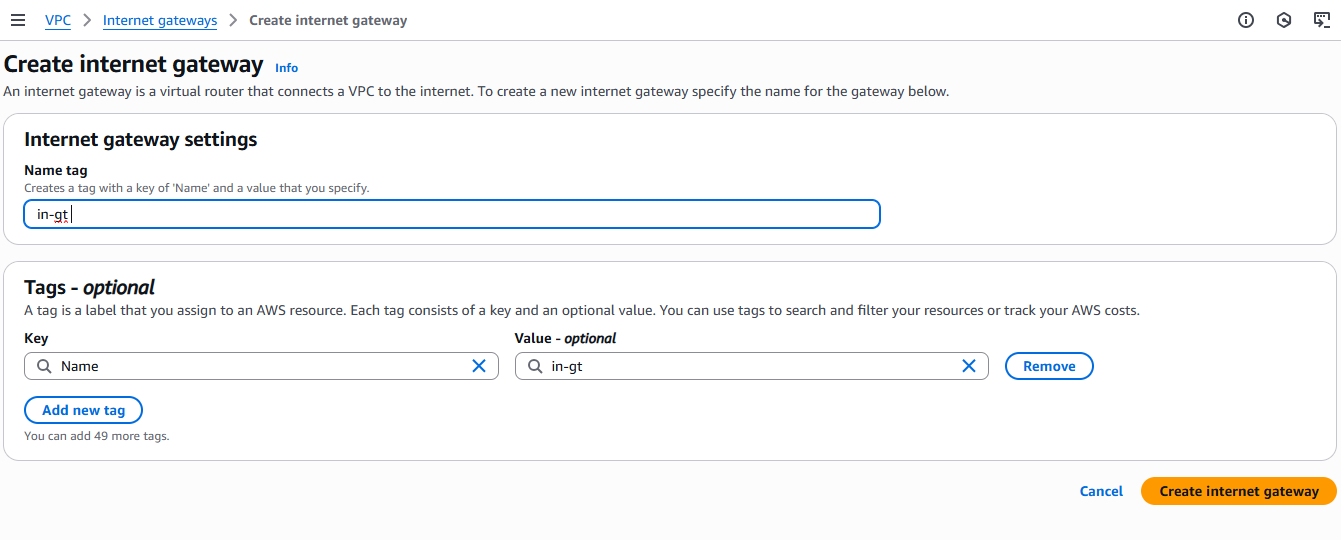
**Add created VPC ---> Enter Subnet name ---> To pick availability zone ---> Enter required IPv4 CIDR block --->click Create Subnet**

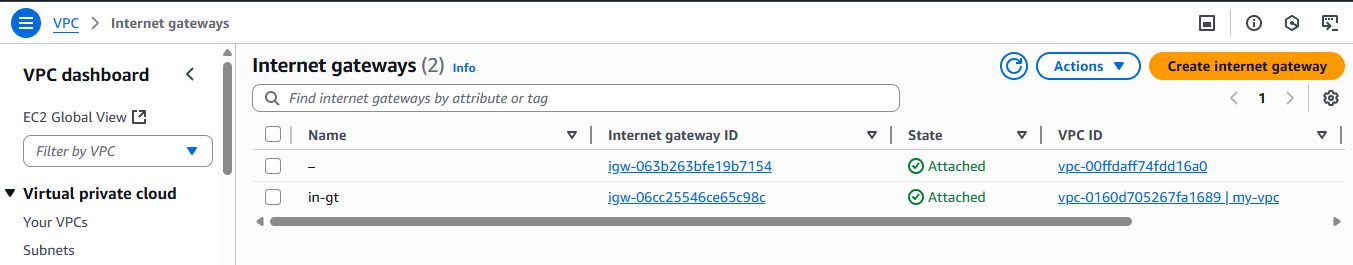


**STEP:3** To create Internet Gateway

VPC ---> Internet Gateways ---> Create internet gateway ---> Enter name

--->Click internet gateway





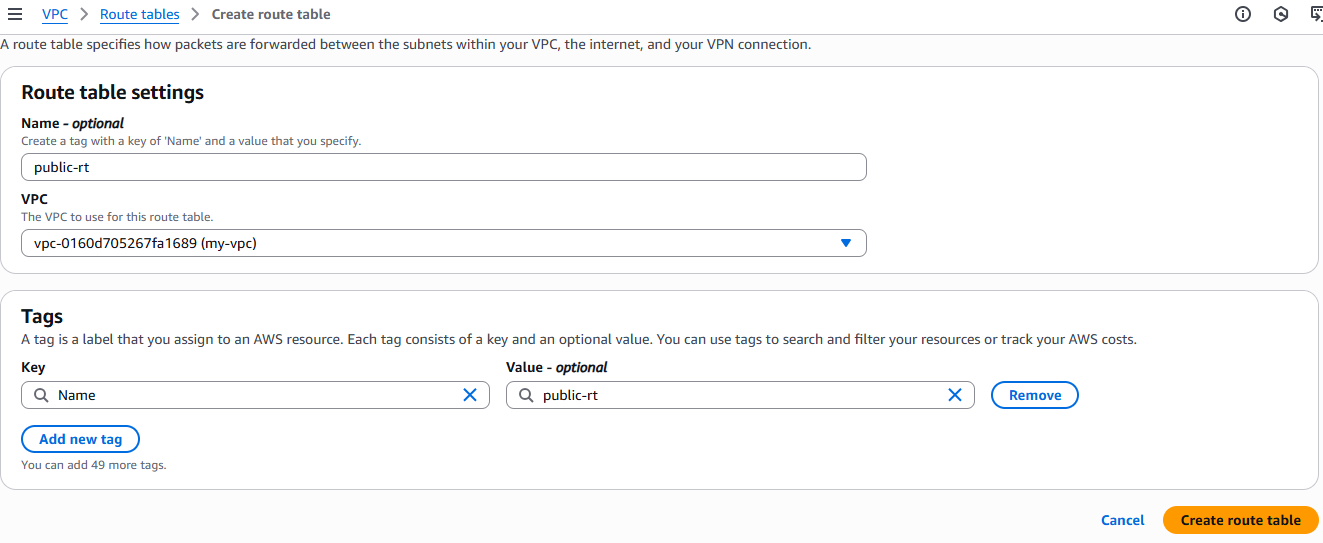
Attach Internet gateway to created VPC

**STEPS:**

Create Route Table

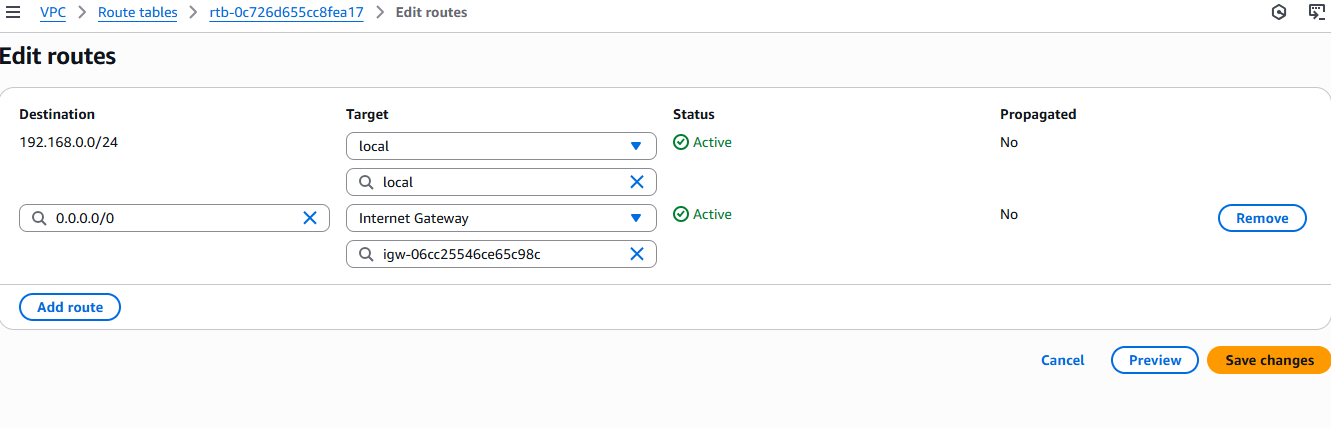
Public route Table

VPC ---> Route Table --->create route tables

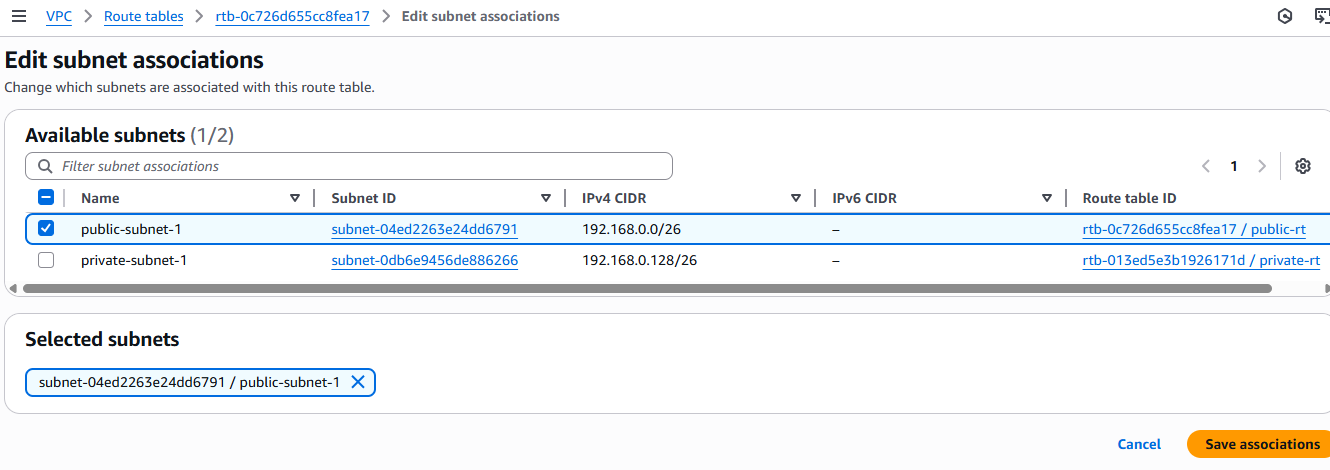


After creation

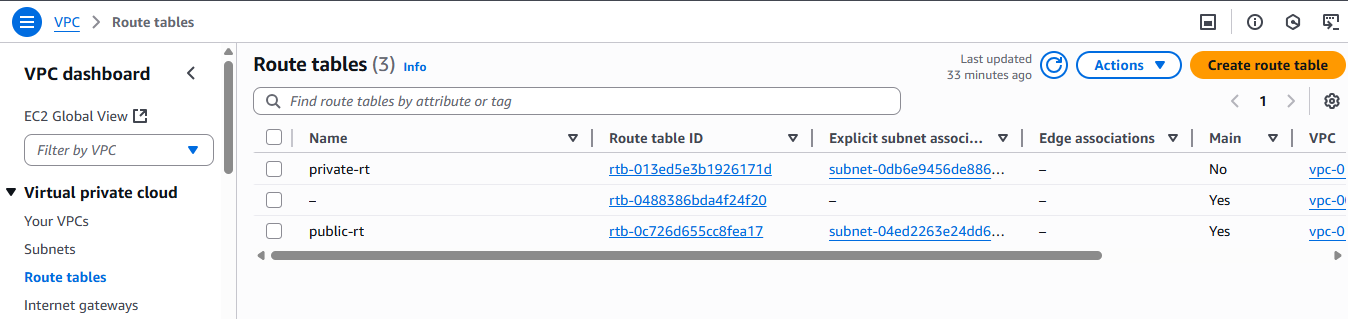
Route Table --->Select created route ---> Actions ---> Edit routes

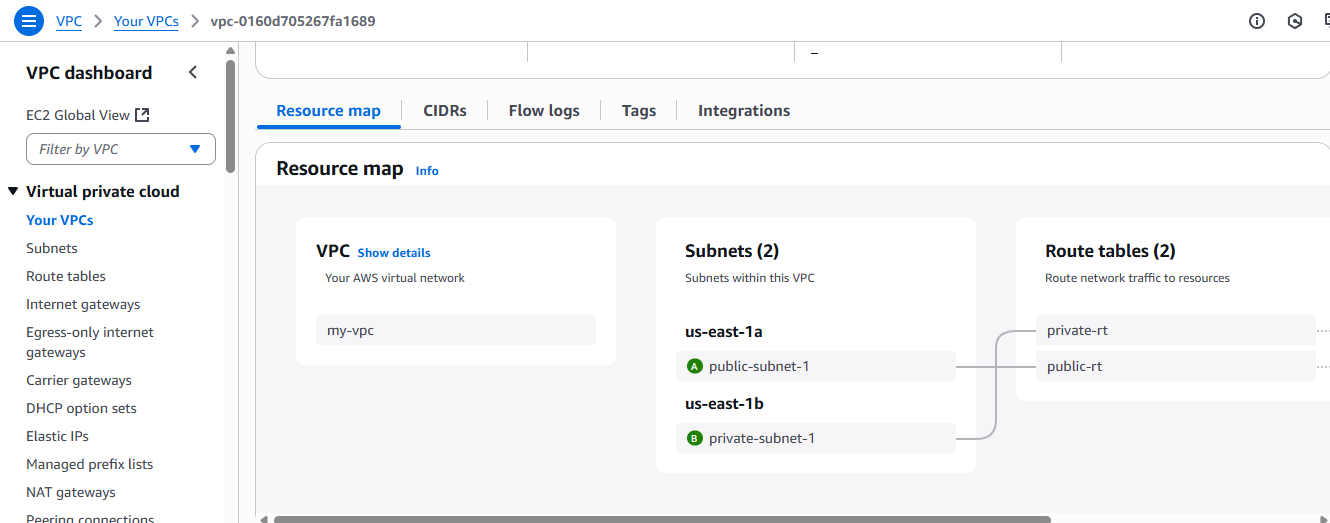


Route Table --->Select created route ---> Actions ---> Edit subnet association



Create Private Route Table as like Public Route Table.

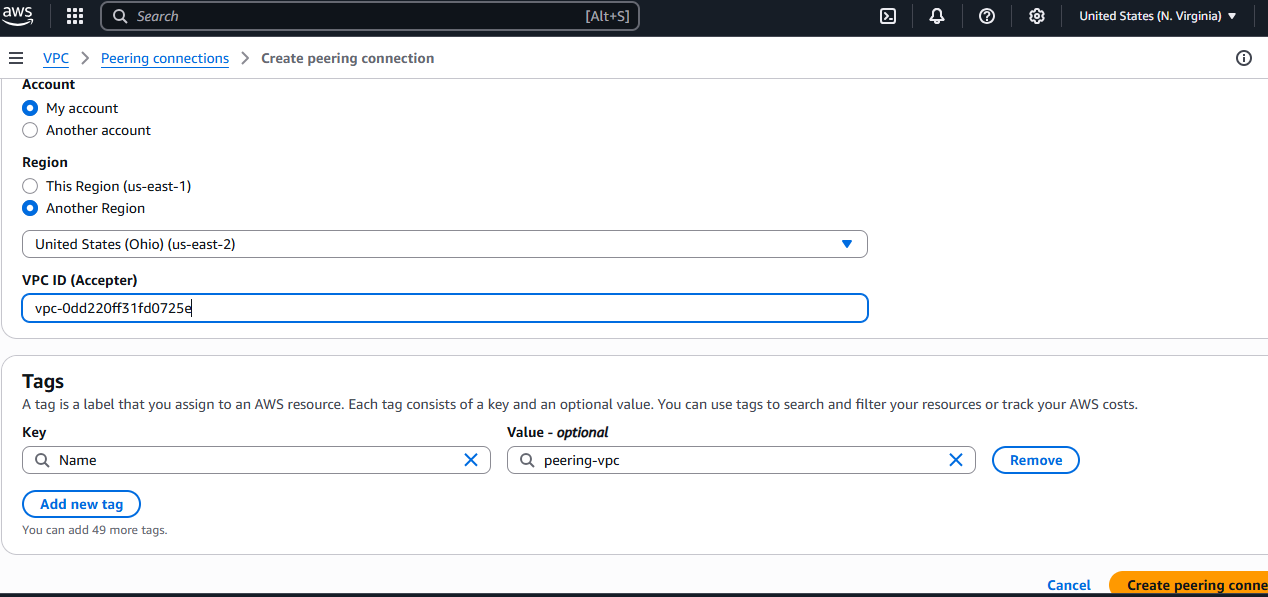




1. **Enable VPC peering for cross region.**

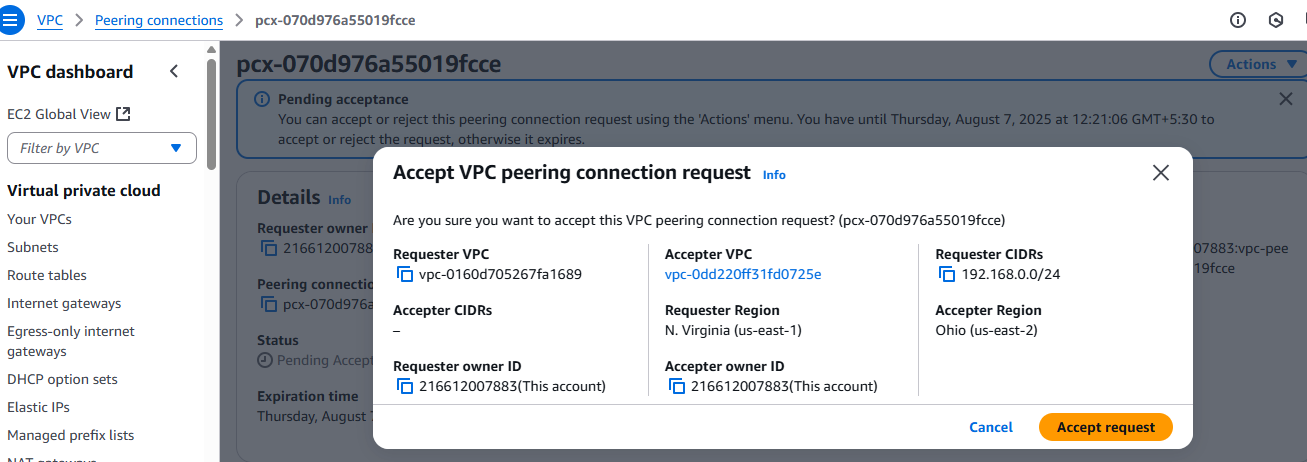
First to create two VPC on different regions A and B.

In region\_A to create VPC peering

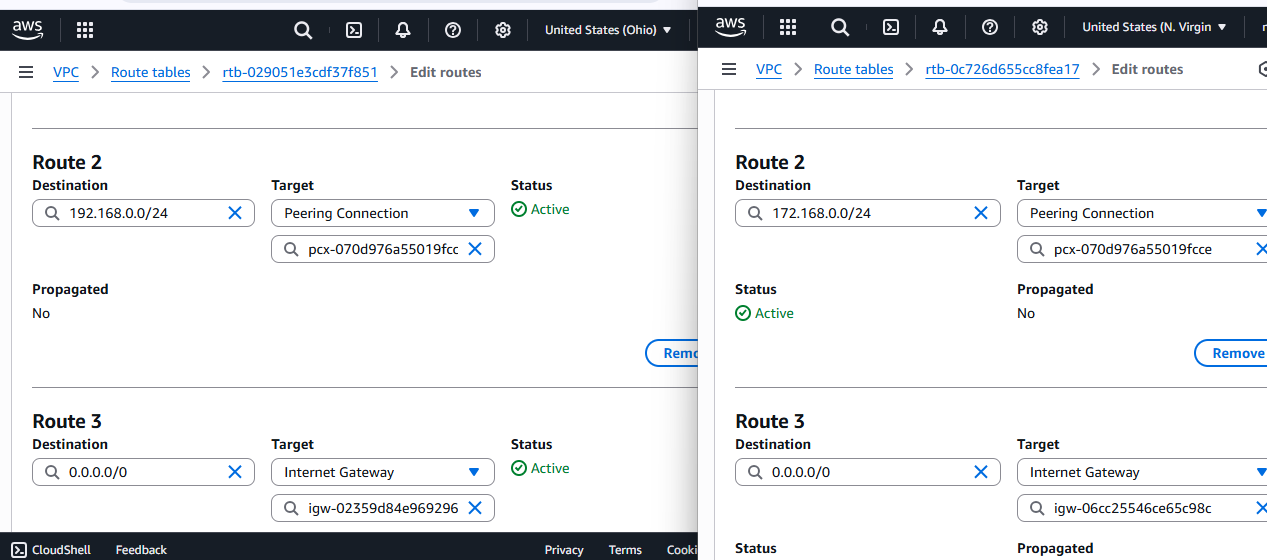


send a request to another region\_B

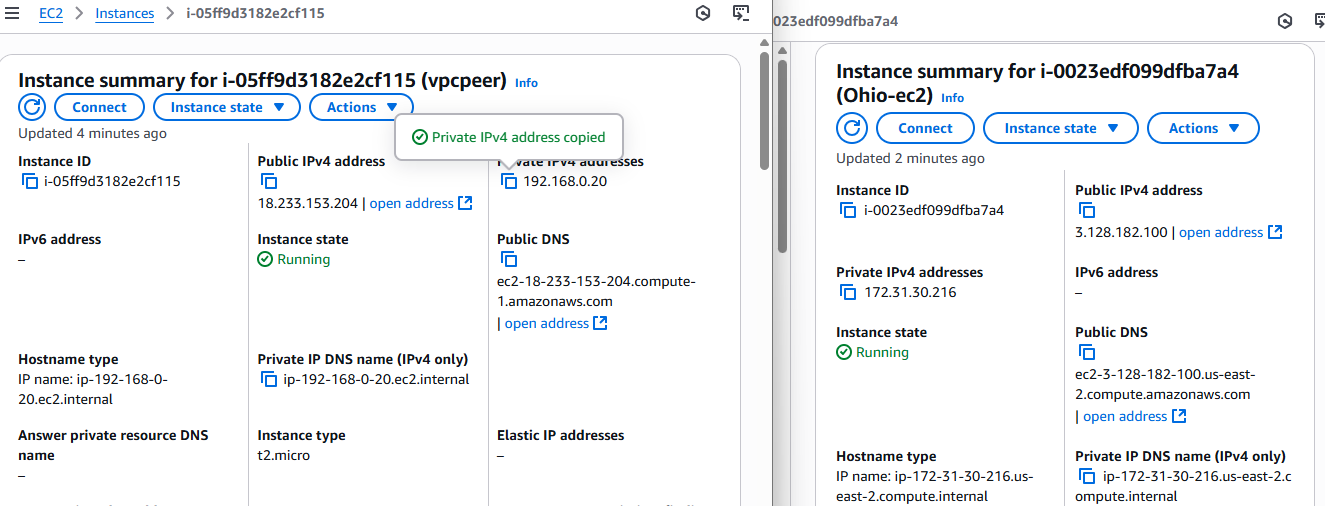
Then the region\_B accept the region\_A request.

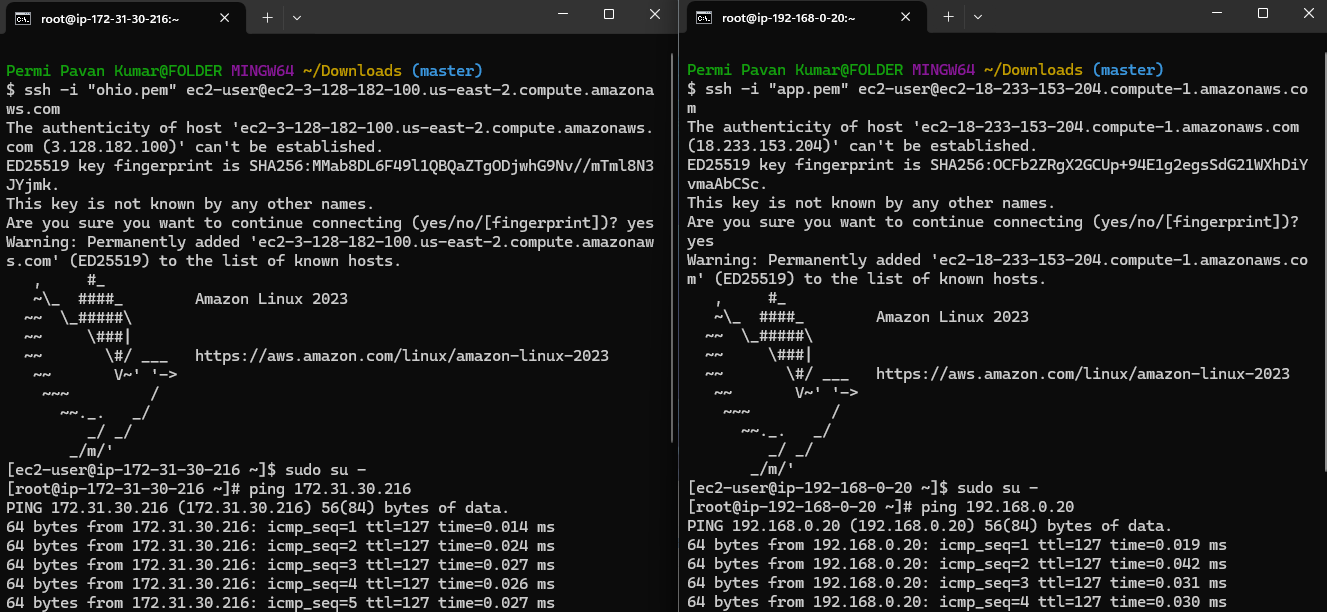


In both the regions go to Route table to edit route



Both region instances.



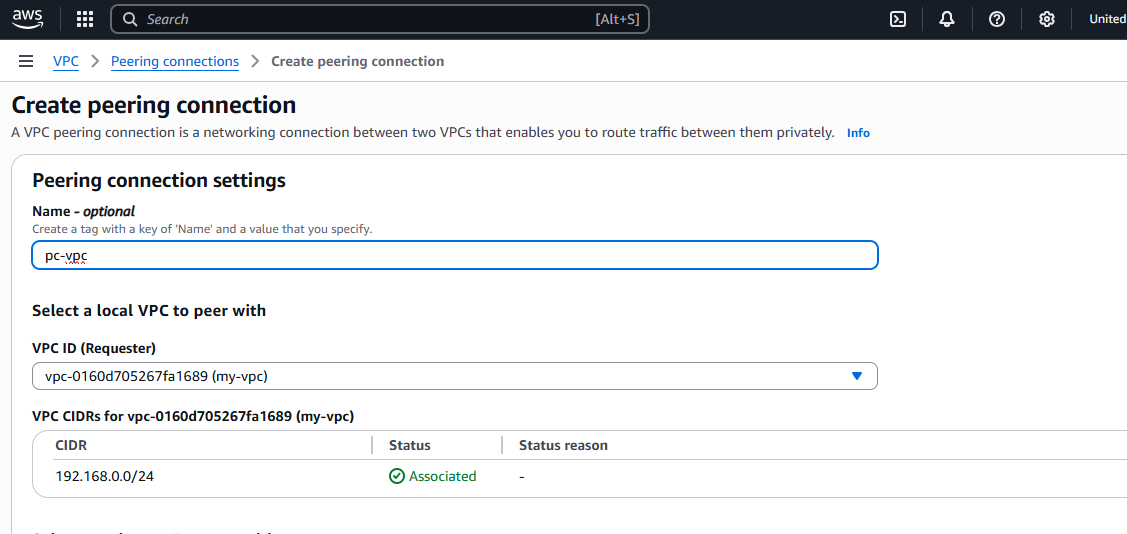


1. **Enable VPC peering for cross account. (You can collaborate with your friend and do this task).**

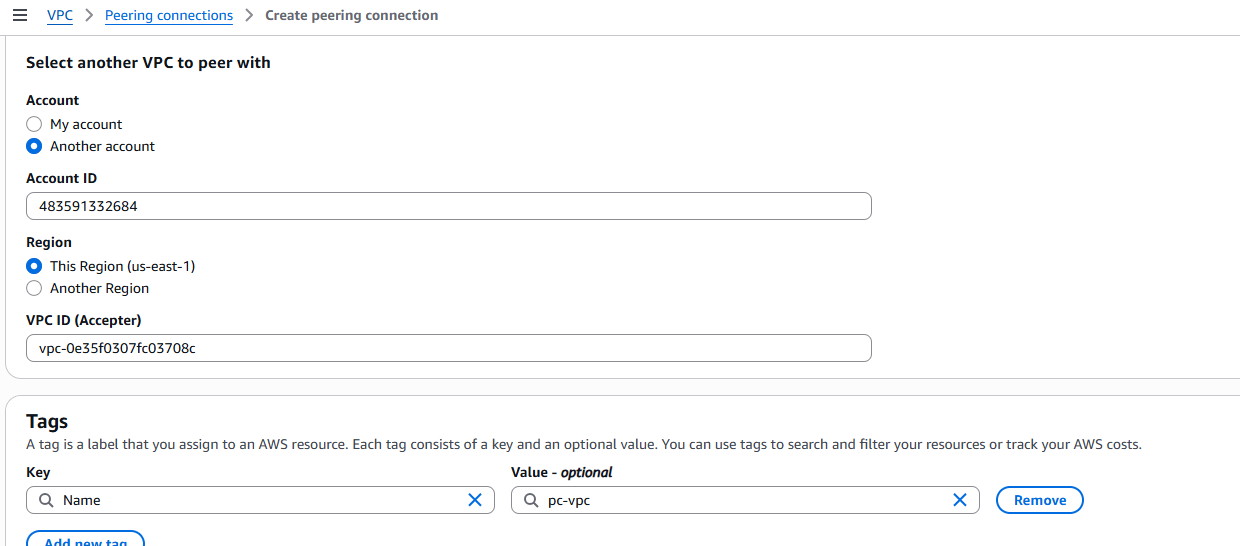
**To VPC Peering**

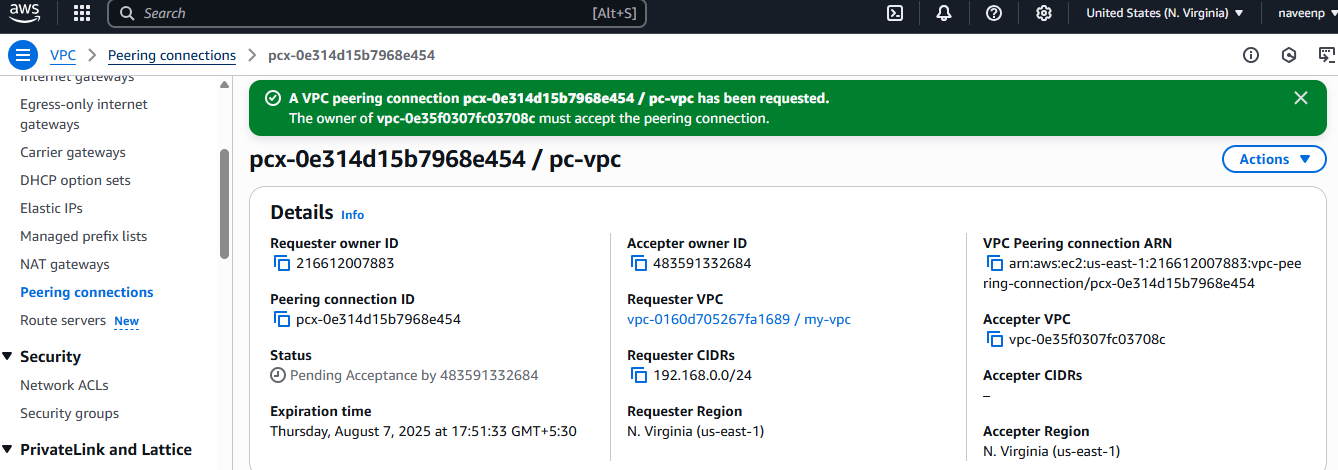
VPC ---> VPC peering ---> Create peering connection

Add your created VPC and VPC CIDR range

****

**Add** your friend account ID, Region and VPC ID.

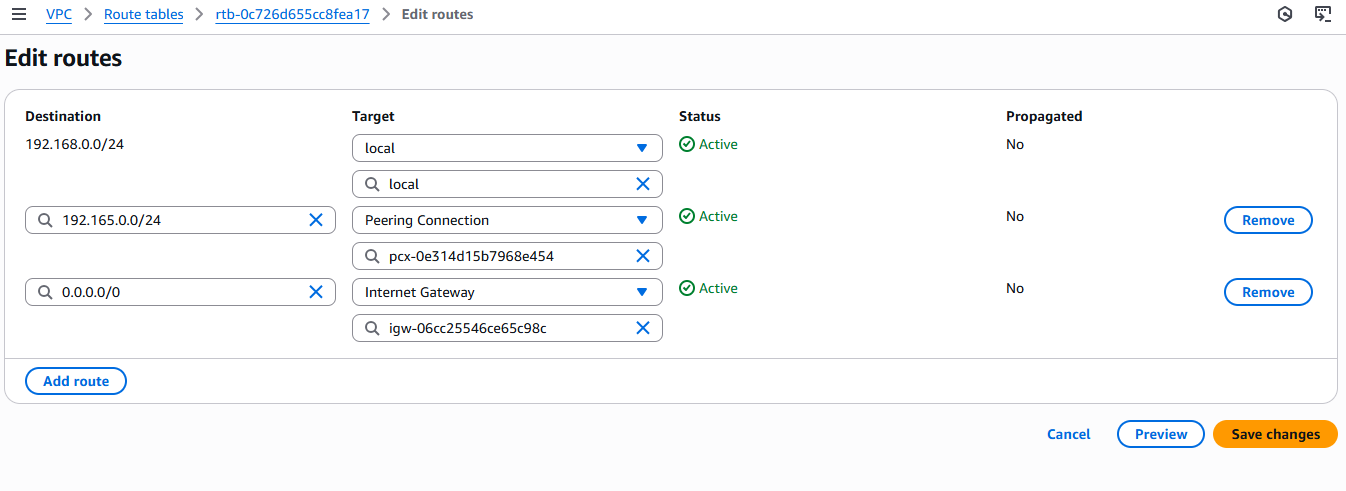
****

****

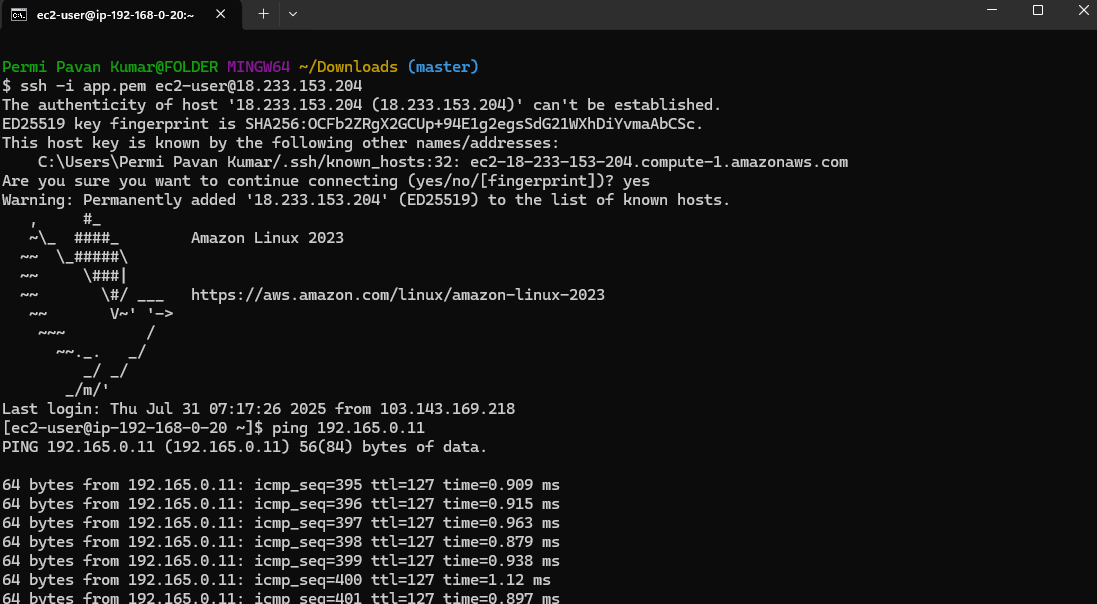
**Edit Routes in Route tables**

VPC ---> Route tables ---> Select created Route --->

Add your’s friend VPC IPv4 CIDR range in peering connection

****

Connect your **ec2 instance with public Ip** and ping with **friend’s private Ip address of ec2 instance** to test the connection.

****

1. **Setup VPC Transist gateway.**

**STEP:1**

To create 4 VPCs

**VPC ---> Your VPCs --->Create VPC**

Ex:-

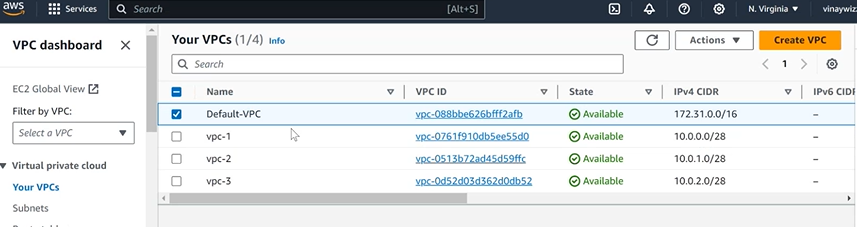
VPC-Public-192.168.0.0/24 and 1 Public subnet-192.168.0.0/24

VPC1-10.0.0.0/28 and 1 Private subnet-10.0.0.0/28

VPC1-10.0.0.0/28 and 1 Private subnet-10.0.0.0/28

VPC2-10.0.1.0/28 and 1 Private subnet-10.0.1.0/28

VPC3-10.0.2.0/28 and 1 Private subnet-10.0.2.0/28



**STEP:2**

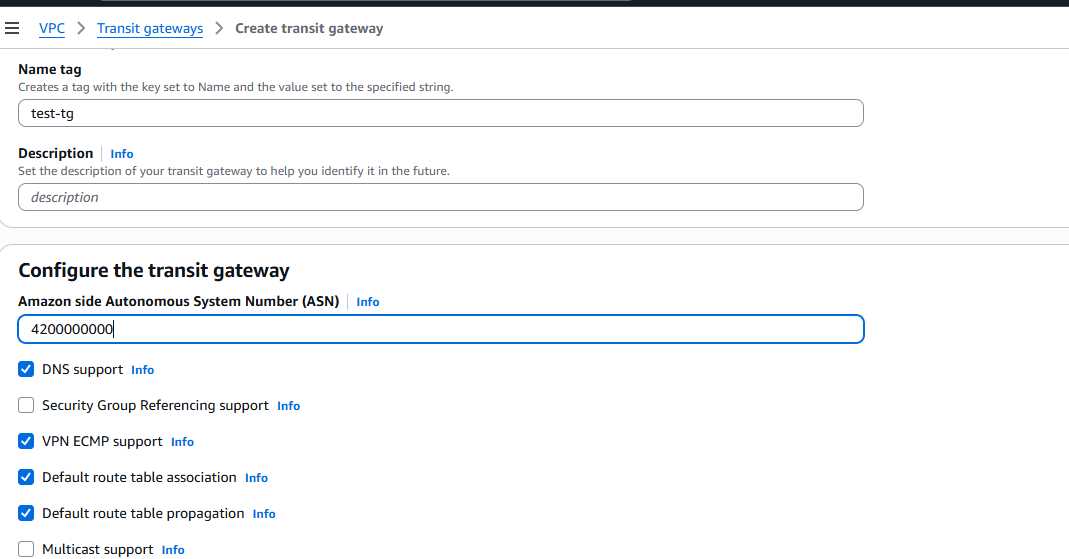
To create 4 subnets for 4 VPCs

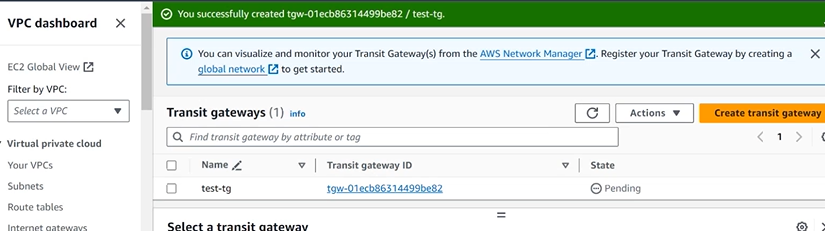
**VPC ---> Subnets --->Create Subnets**

**STEP:3**

To create Transit gateway

**VPC ---> Transist gateway --->Create Transist gateway**

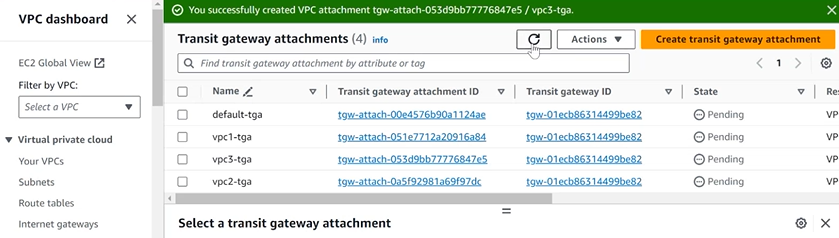
****

****

**STEP:4**

Attach VPC to Transit gateway attachments

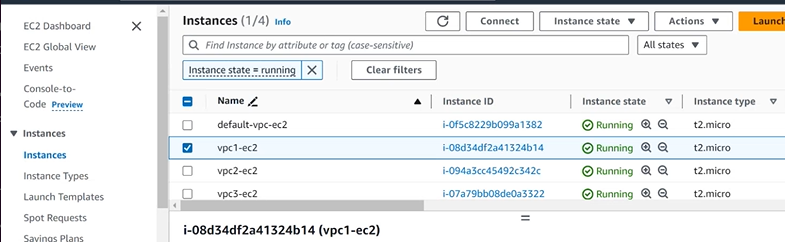
**VPC ---> Transit gateway attachments ---> Create Transit gateway attachments**

****

To check the attachmentsin**Transit gateway route table.**

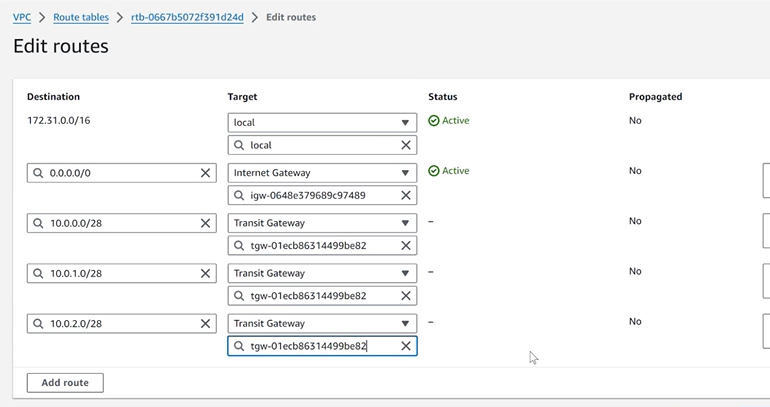
**STEP:5**

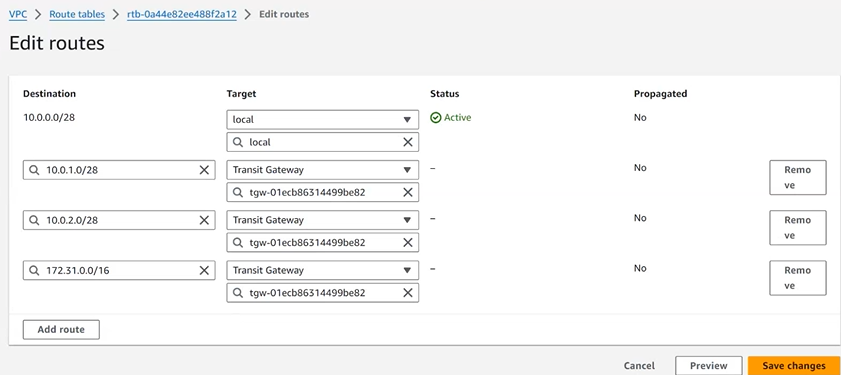
To create 4 instances with 4 created VPCs.

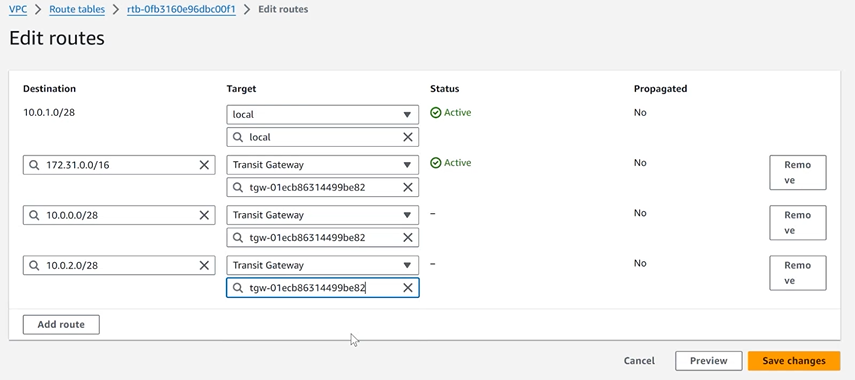


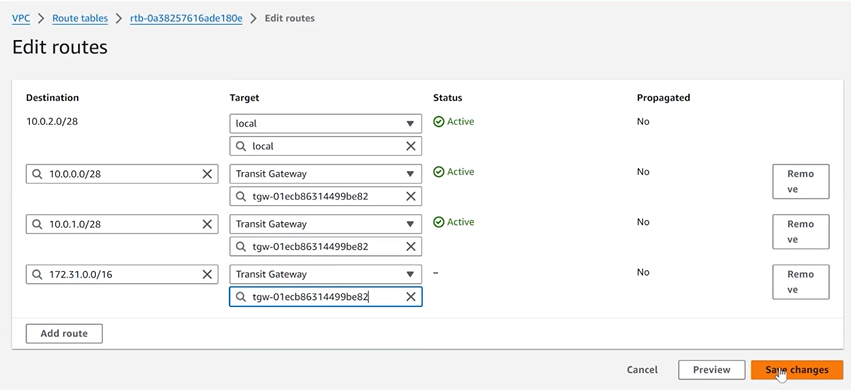
**STEP:6**

Go to edit route in Route table to attach Transit gateway in reqired Route.



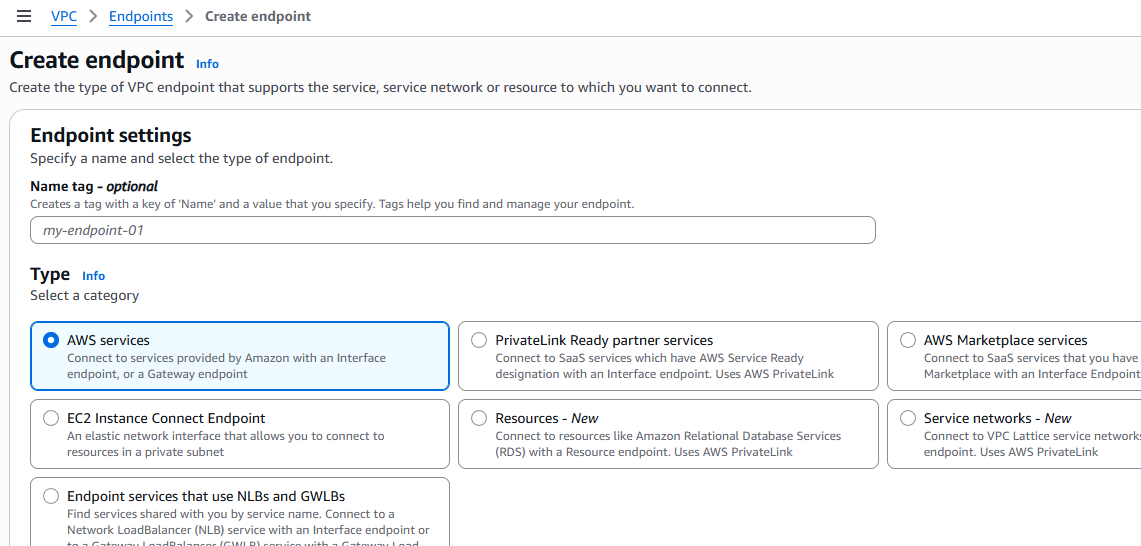




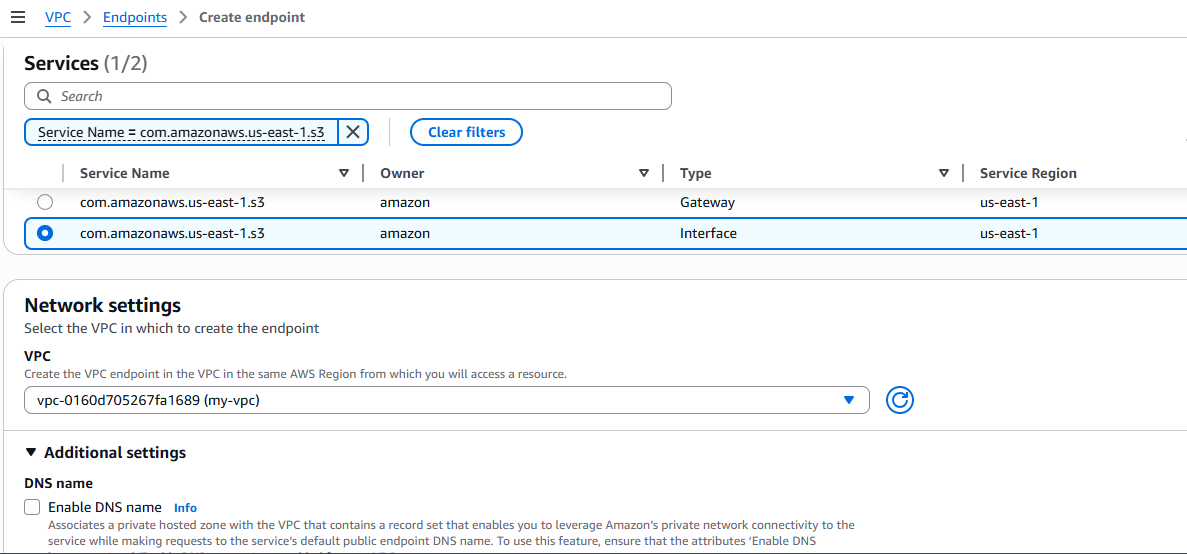


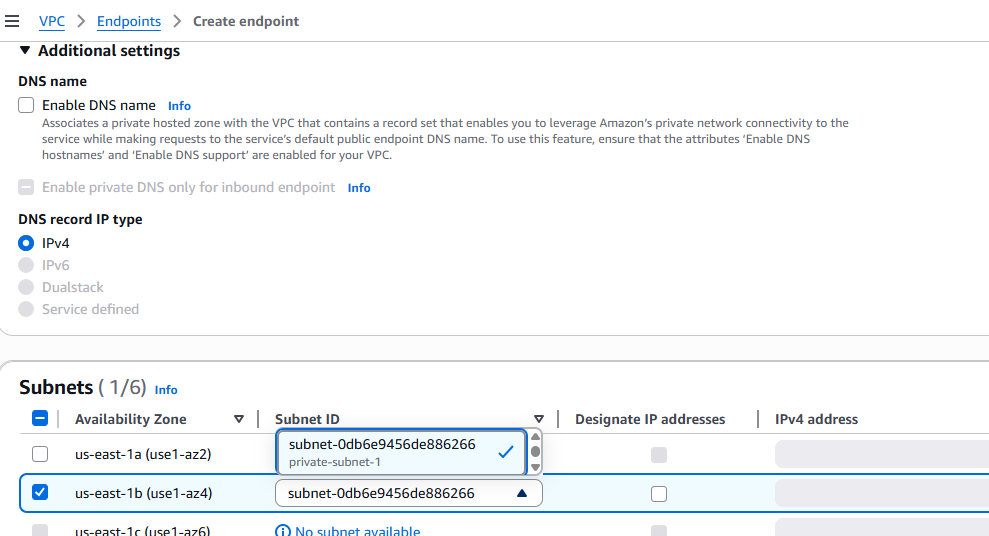
1. **Setup VPC End Point.**

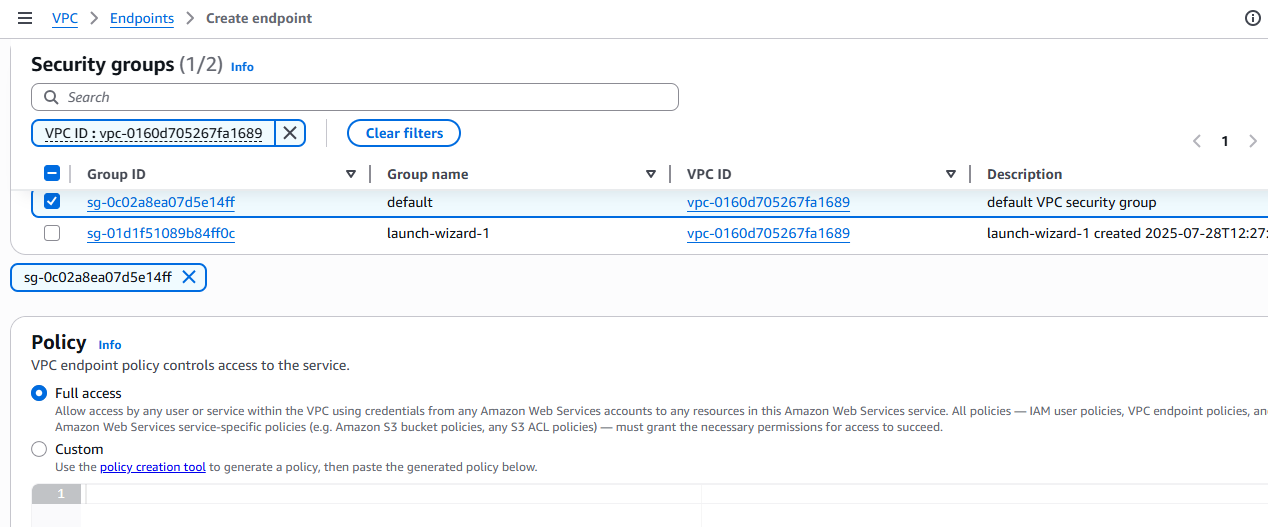
VPC ---> Endpoints ---> Create endpoint

****

Select **Service Name = com.amazonaws.us-east-2.s3** in Services

****

****

****

Click create endpoint

