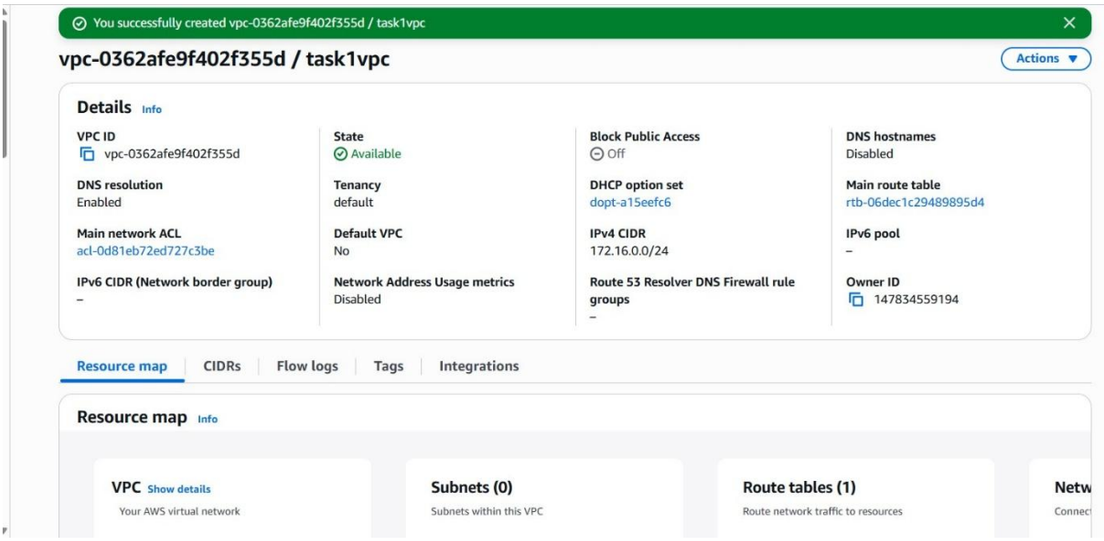
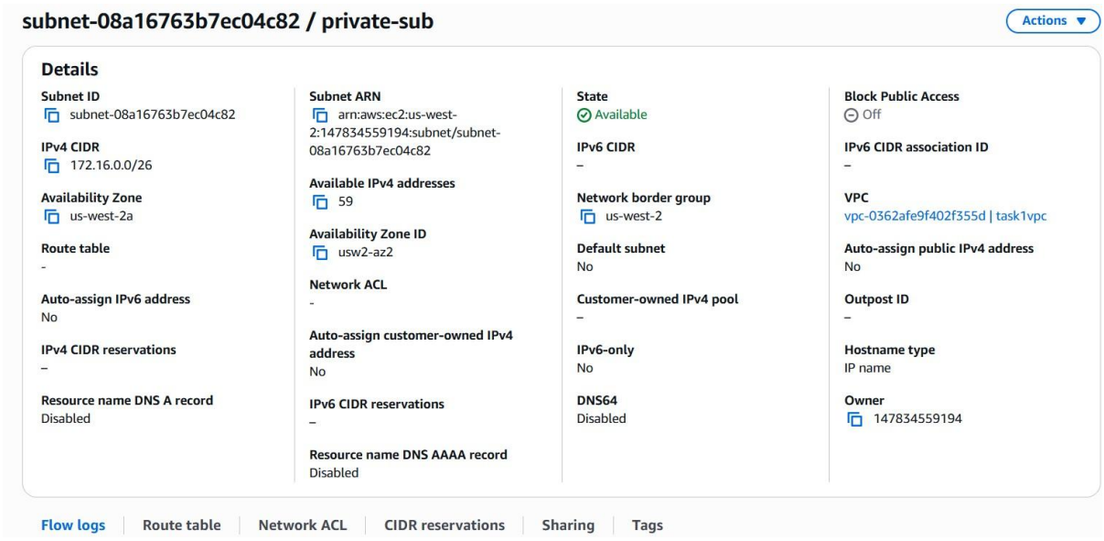
1) Create one VPC, with 1 one public subnet and 1 private subnet.

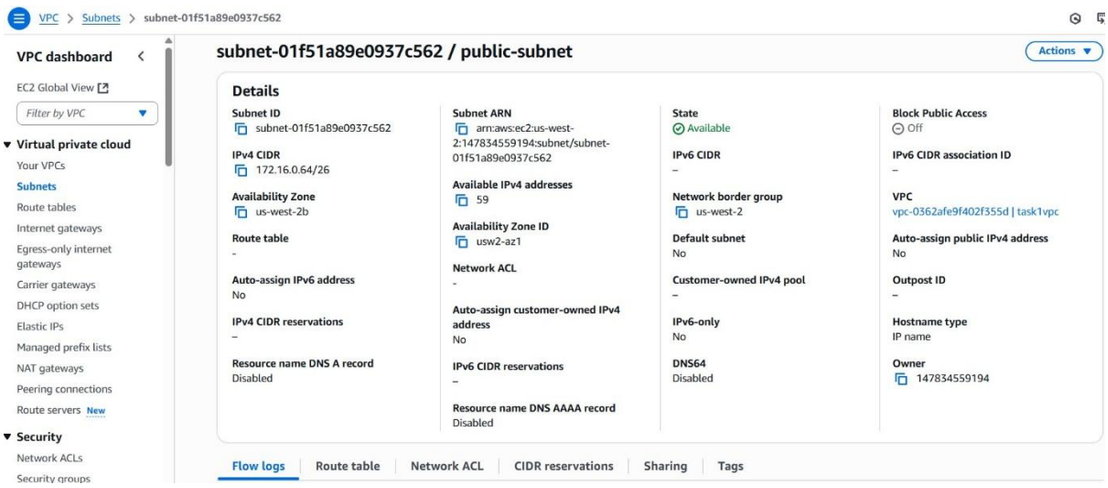
Created one vpc



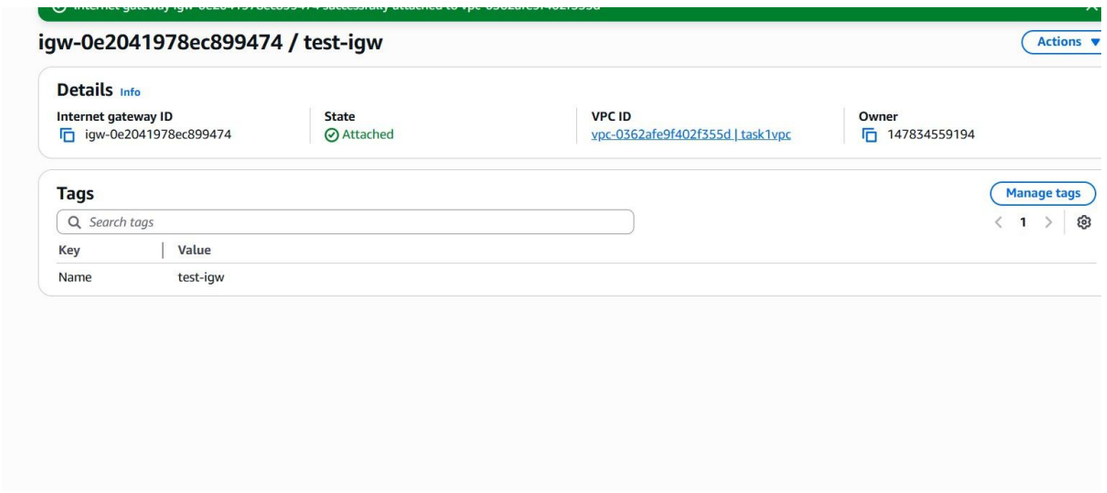
Created private subnet



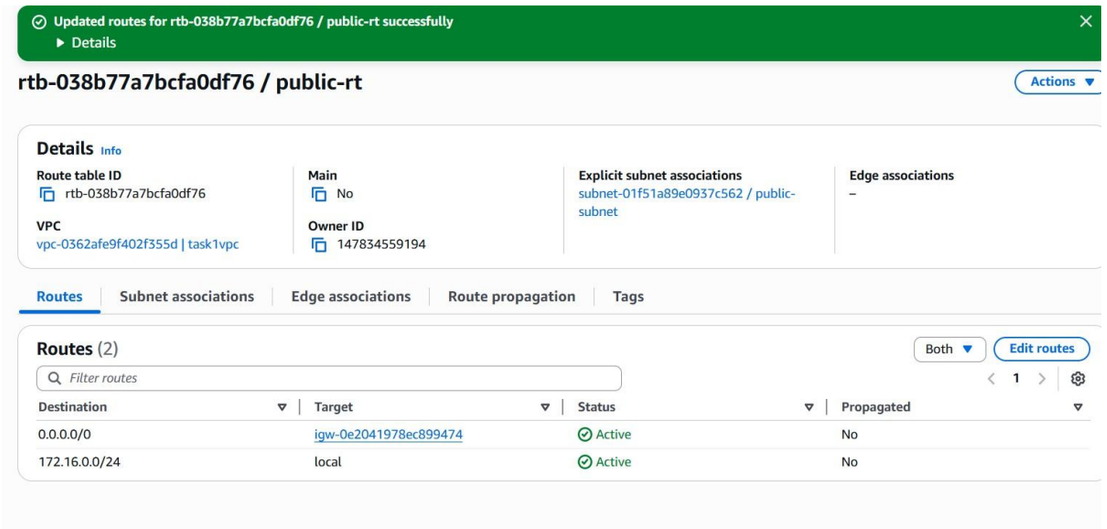
Created public subnet



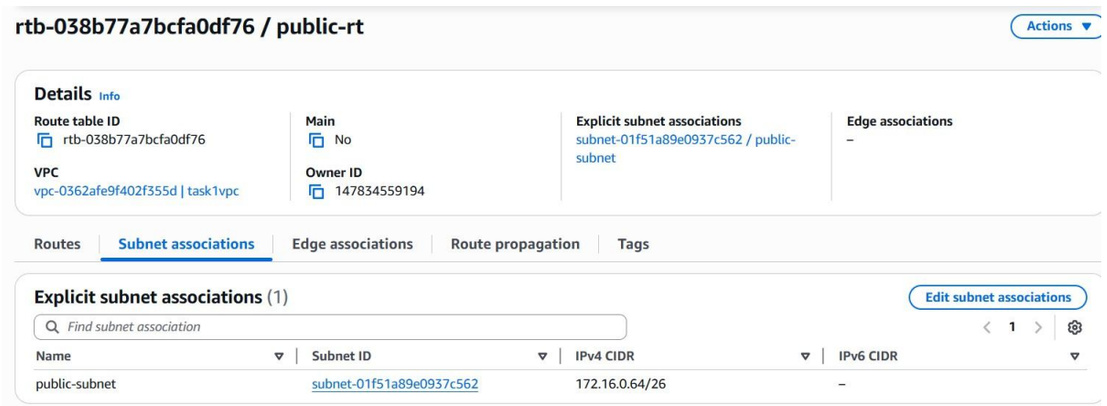
Attached internet gateway to public subnet



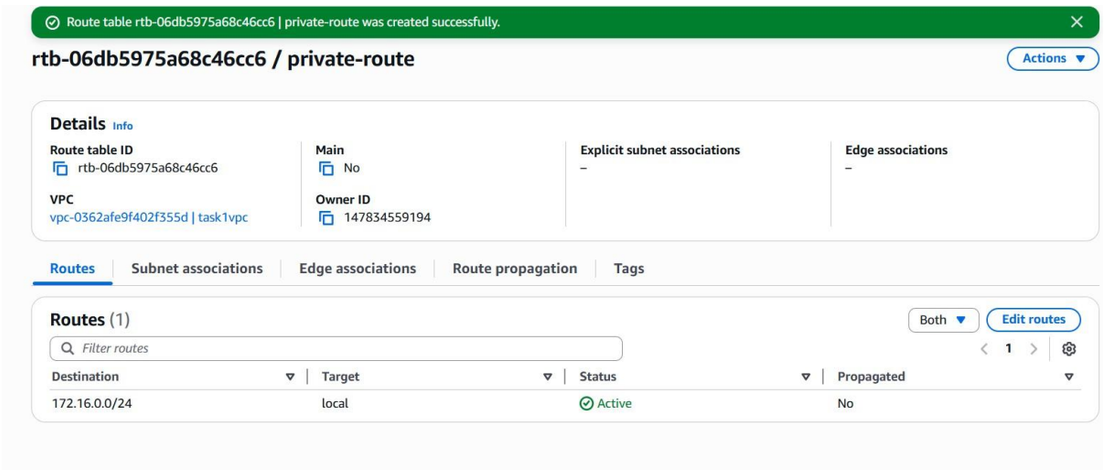
Enabled routing for public subnet

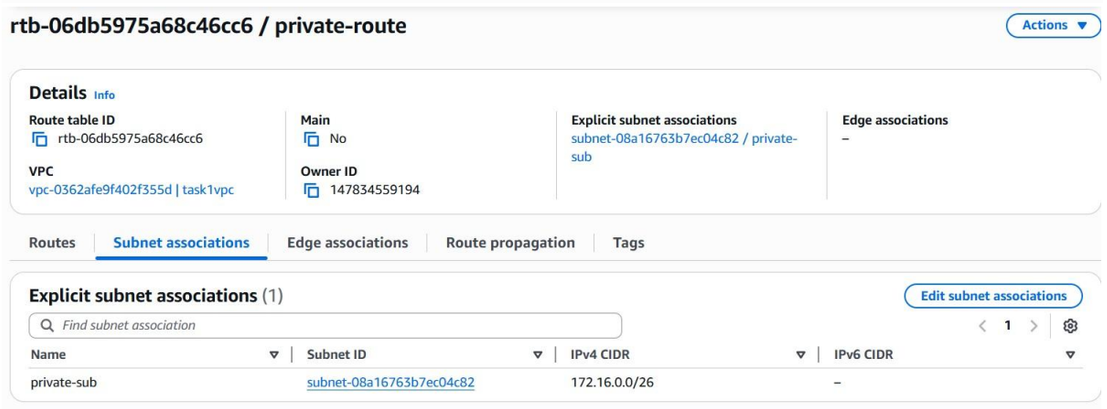


Added public subnet via subnet association so that internet access starts



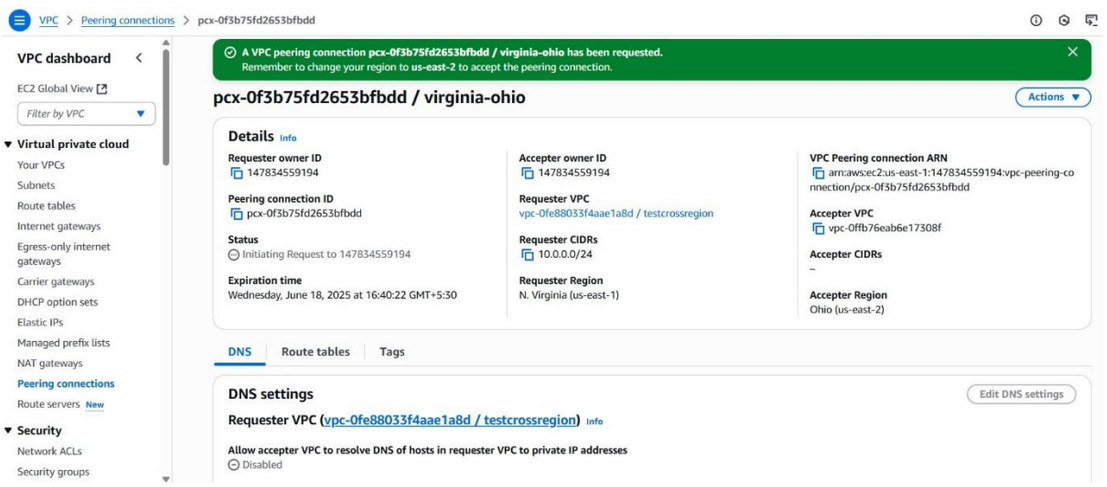
Enabled routing for private subnet by adding route table and associating subnet in that



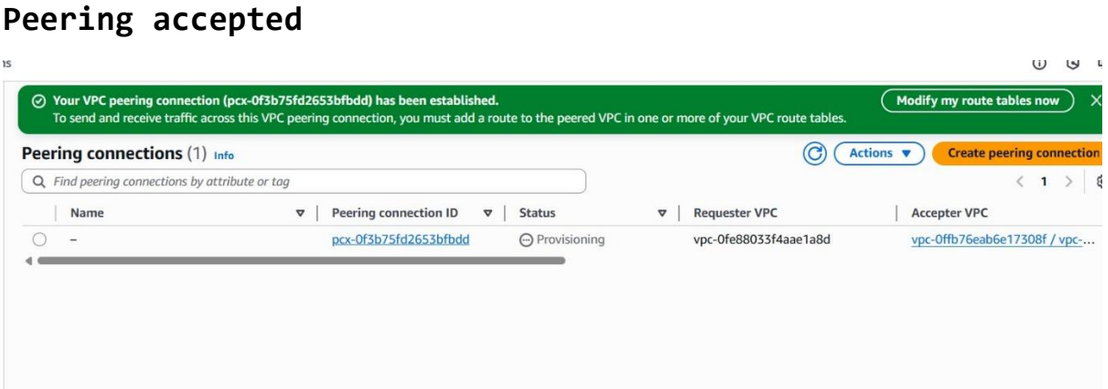


2) Enable VPC peering for cross region.

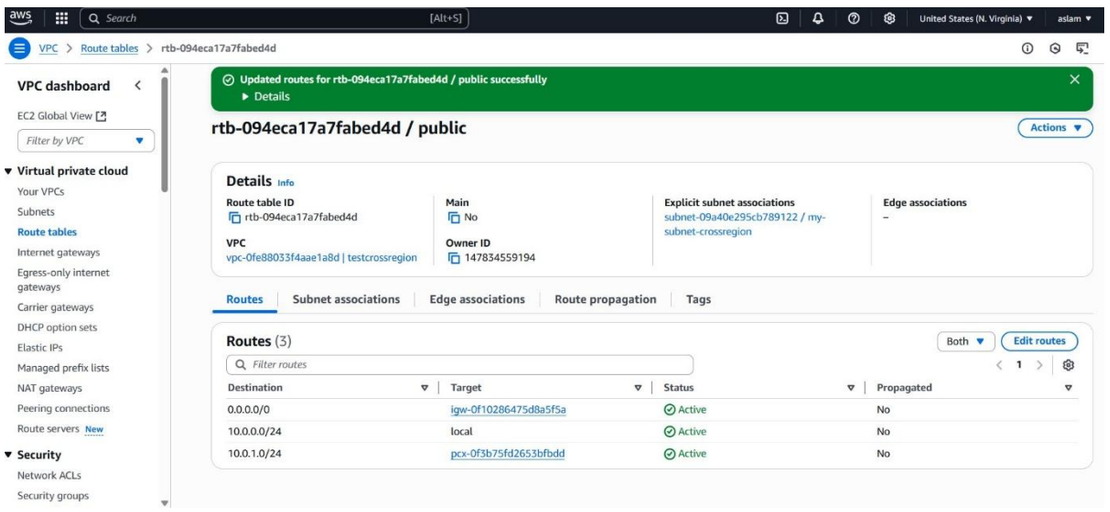
Created peering requested

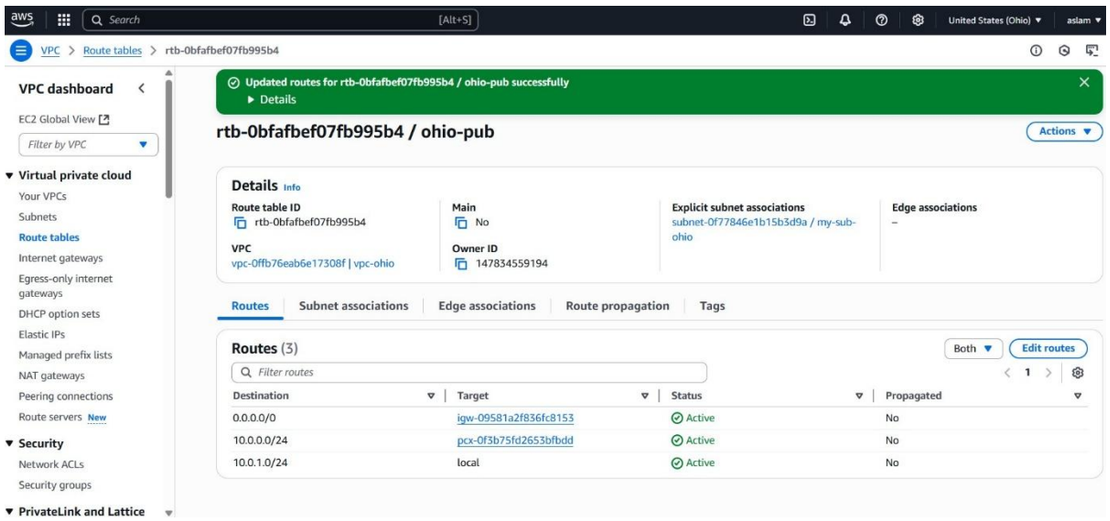


Peering accepted

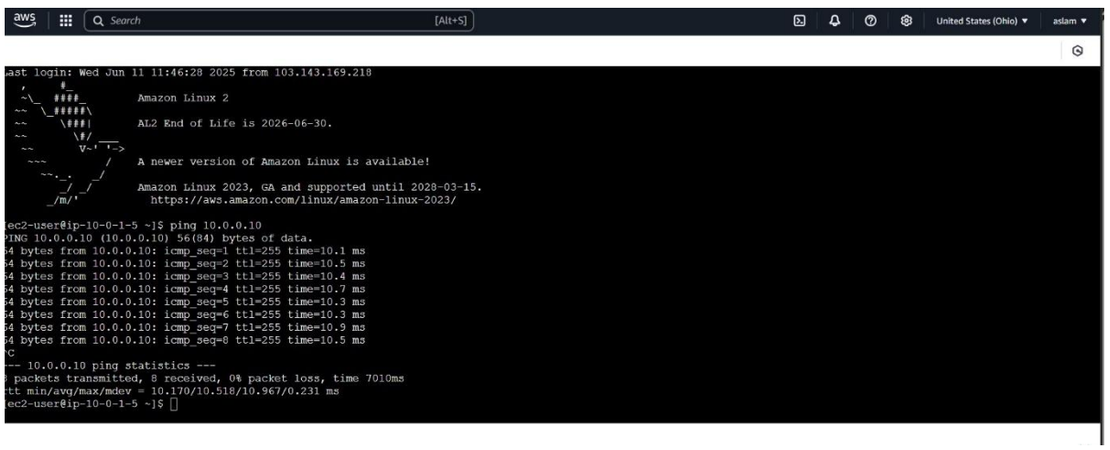


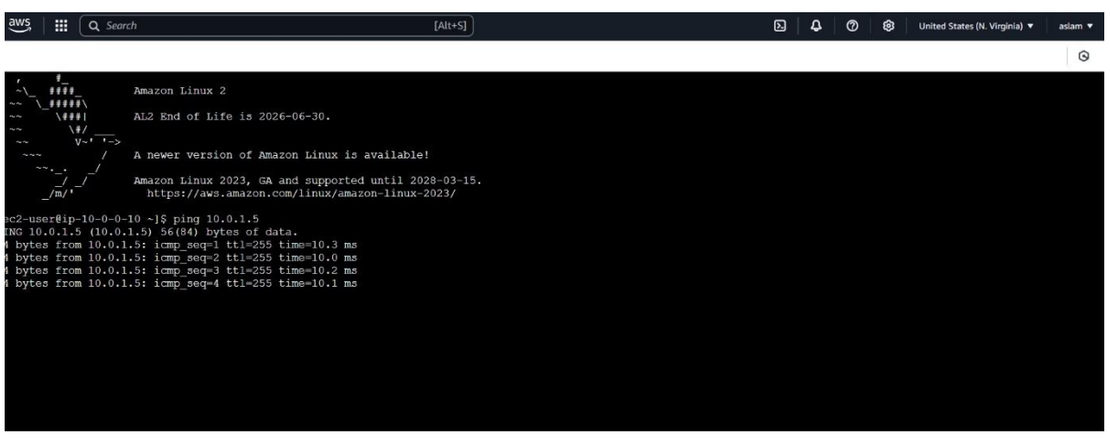
Added routes in both the regions





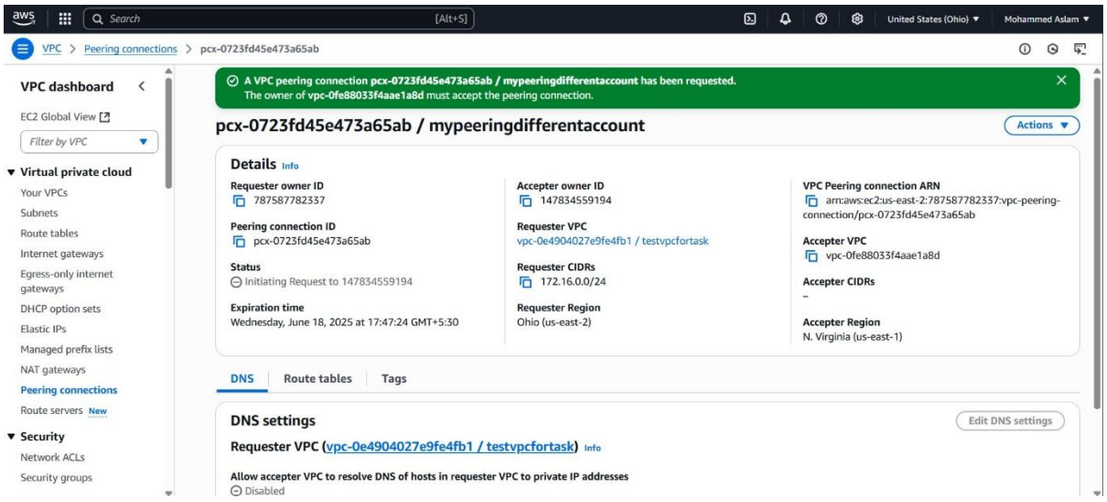
Pinging from both regions



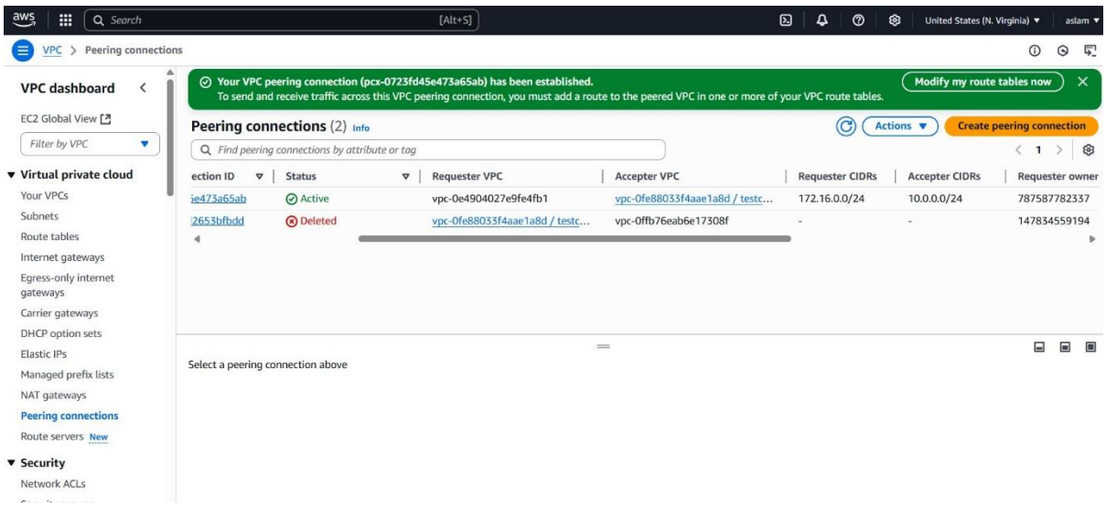


3) Enable VPC peering for cross account. (You can collaborate with your friend and do this task).

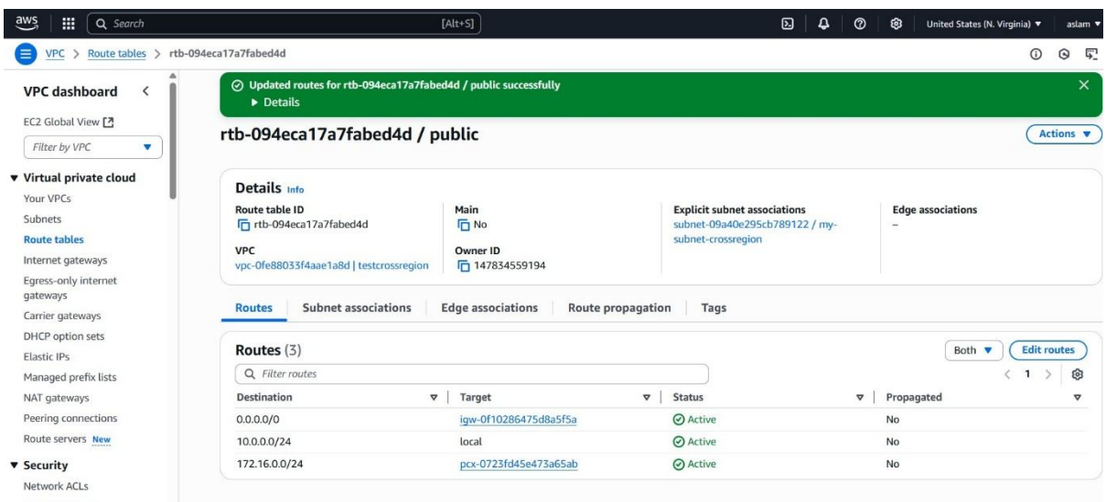
Peering requested from my account 787587782337 from ohio



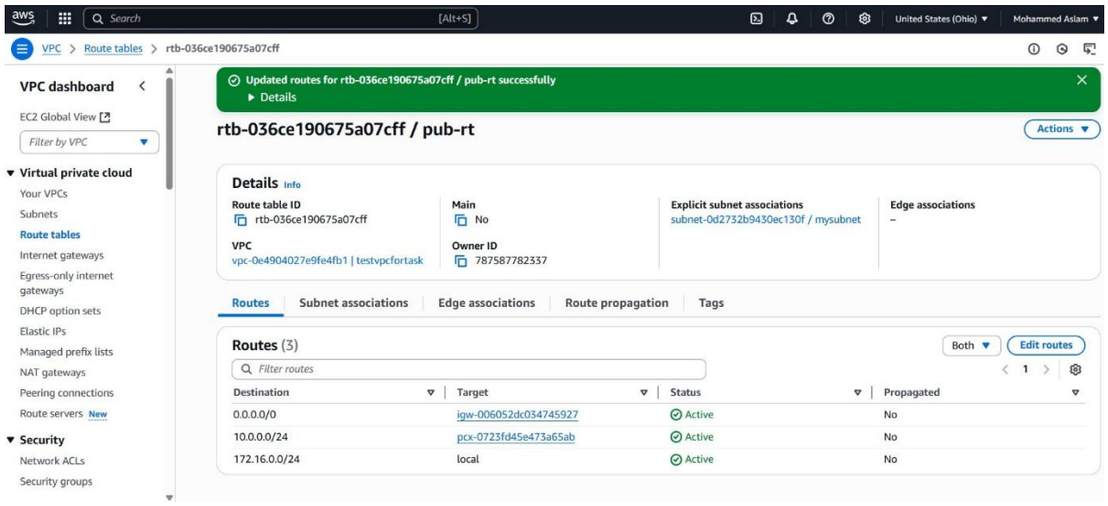
Peering accepted from my account 147834559194 in vergenia



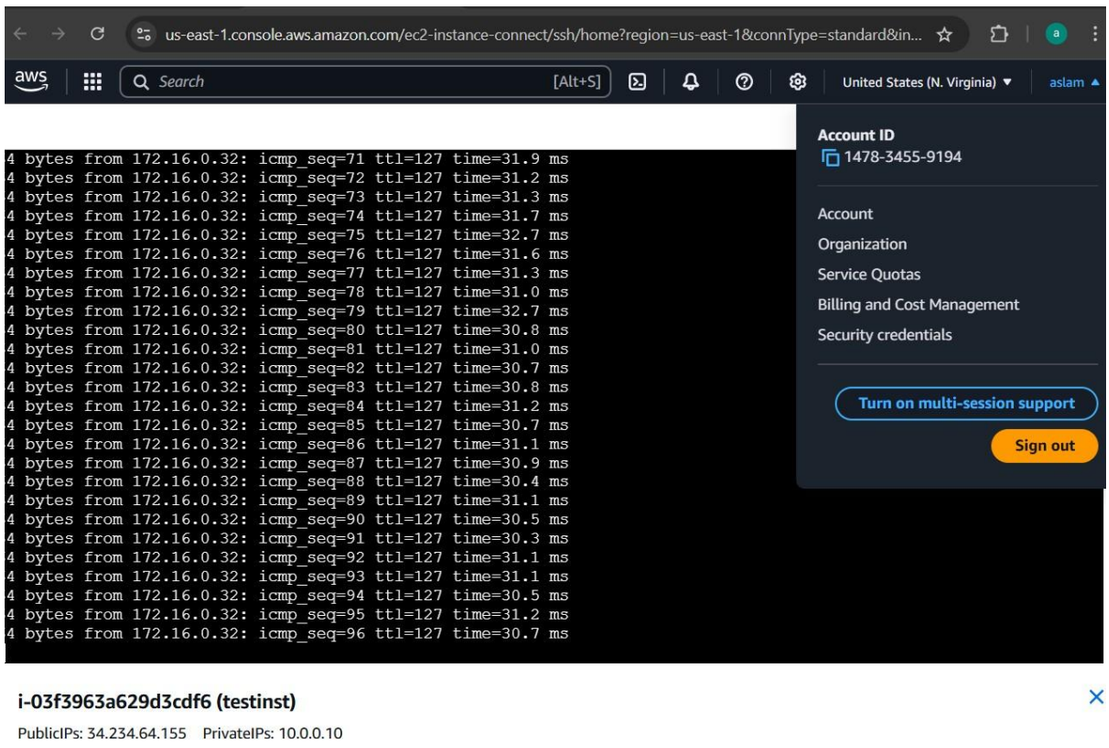
Added route in virginia 147834559194



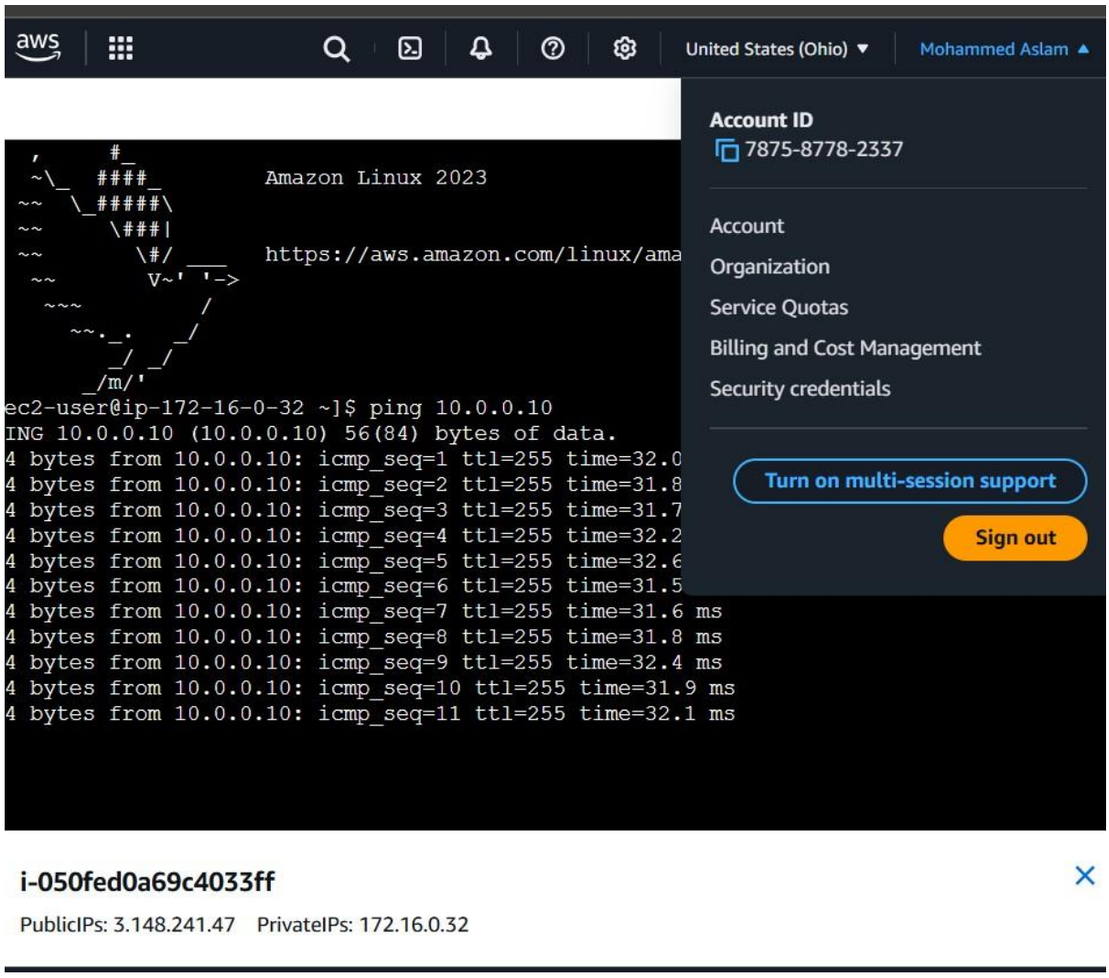
Added route in ohio 787587782337



Pinging from account 147834559194

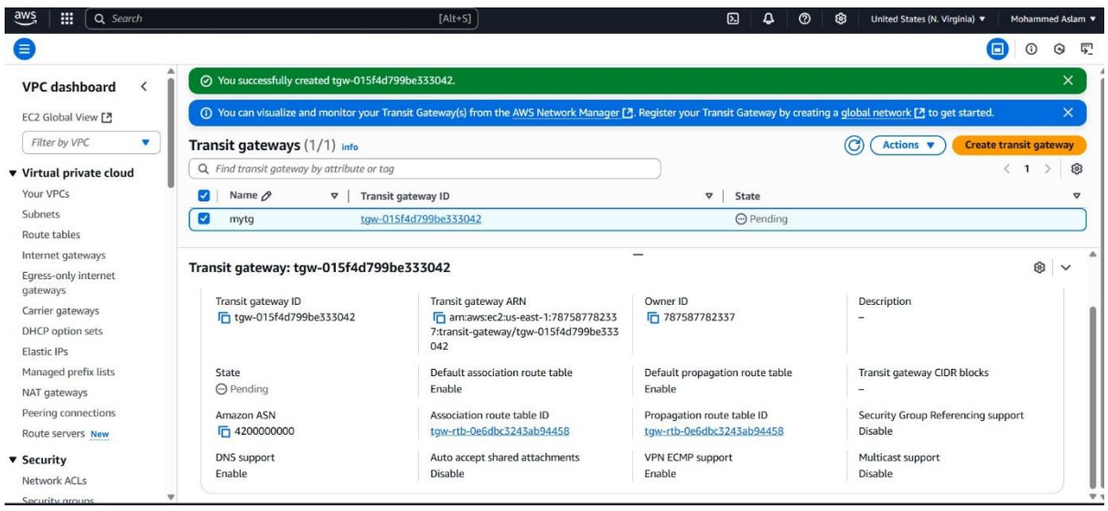


Pinging from 787587782337

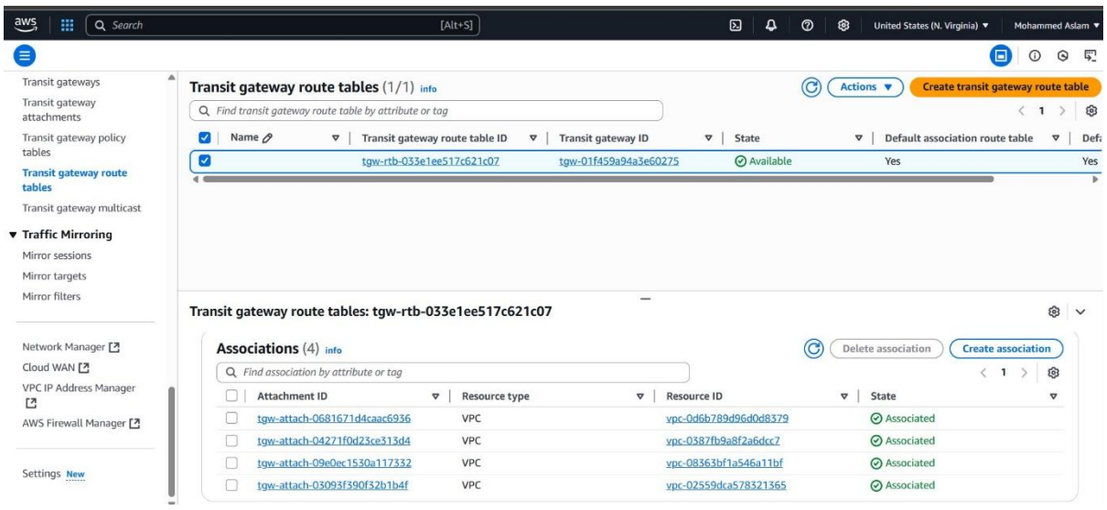


4) Setup VPC Transist gateway.

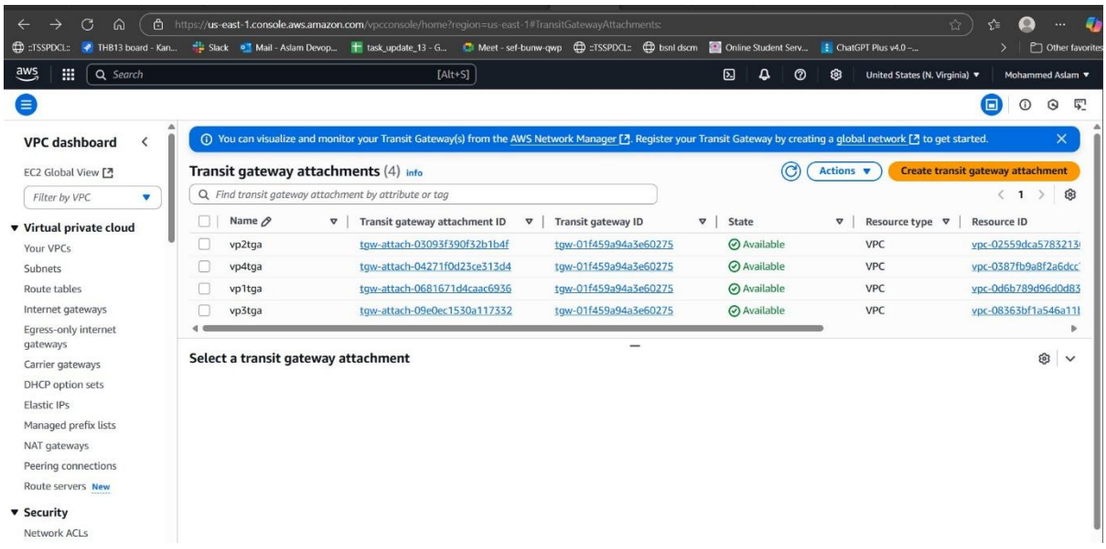
Added transit gateway



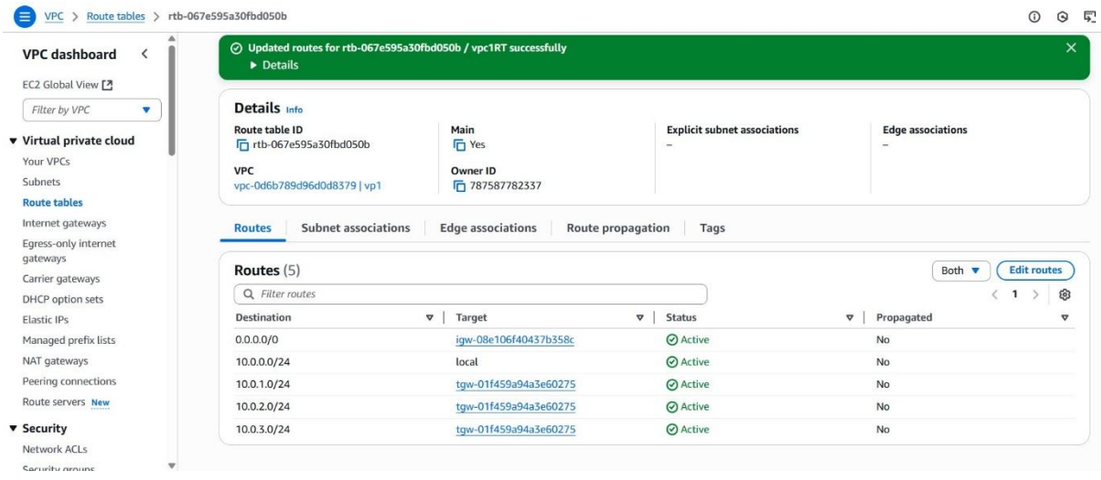
Automatically routes got added in transit gateway after creation



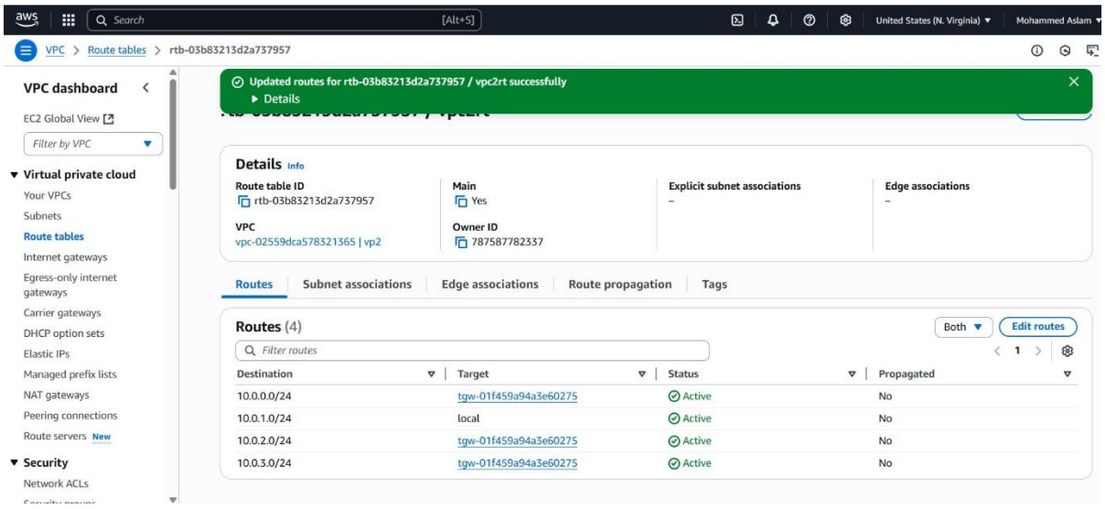
Attached all four vps created in transit gateway



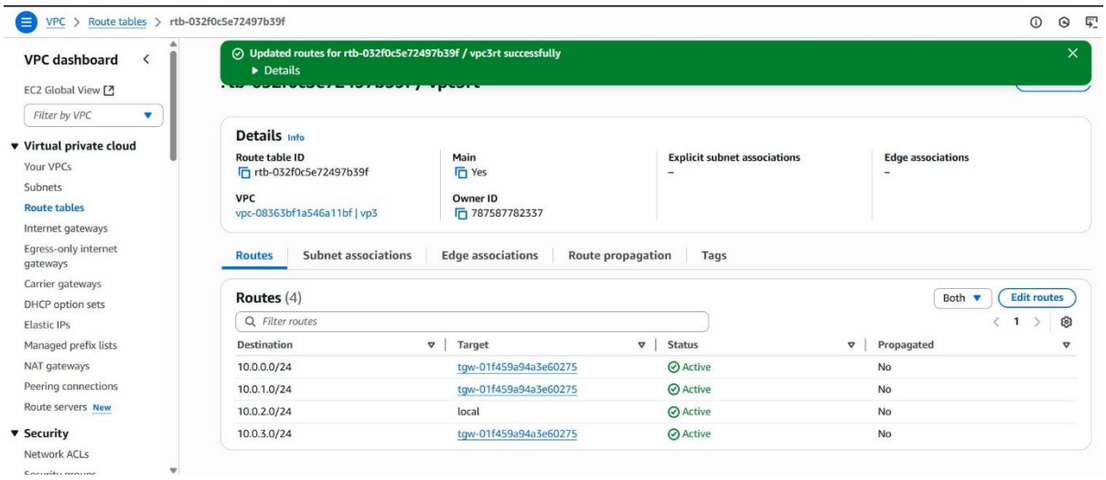
Added routes manually in route table of four vpc



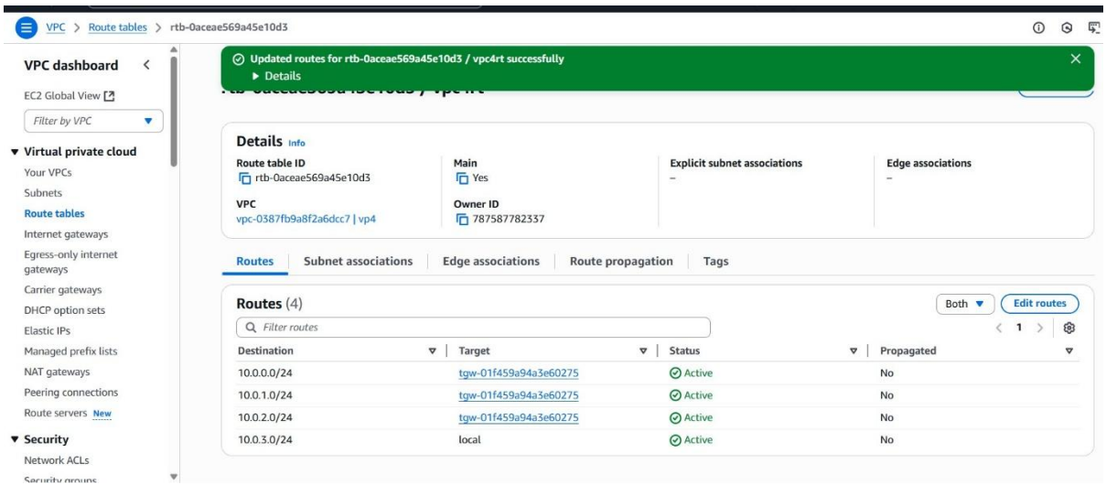
Added routes manually in route table of four vpc



Added routes manually in route table of four vpc

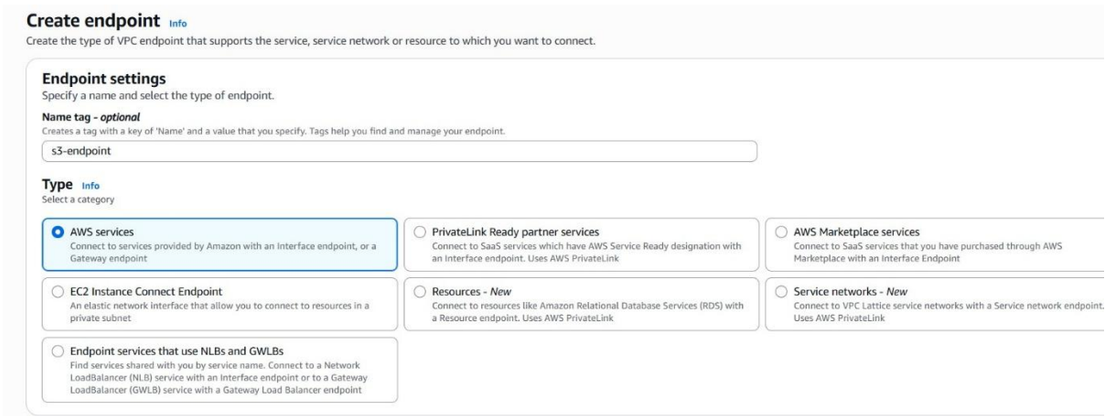


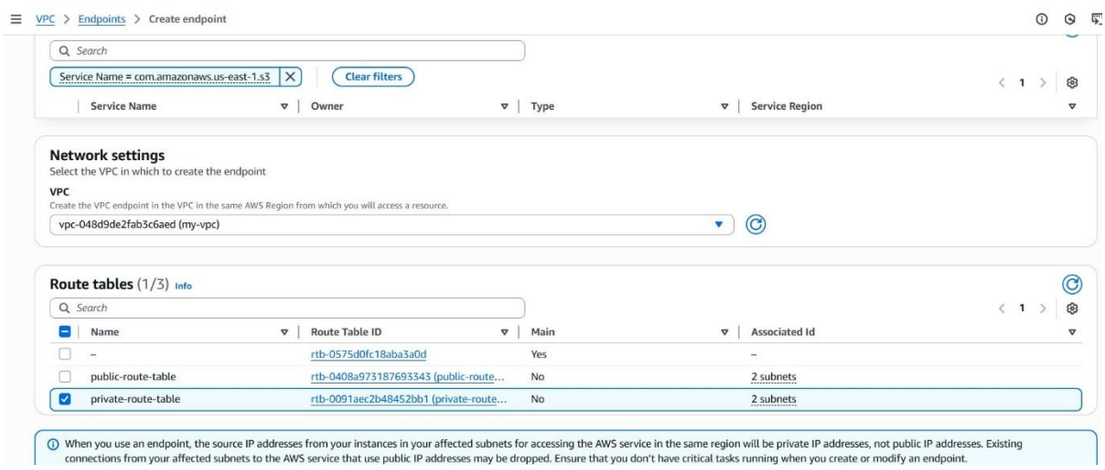
Added routes manually in route table of four vpc

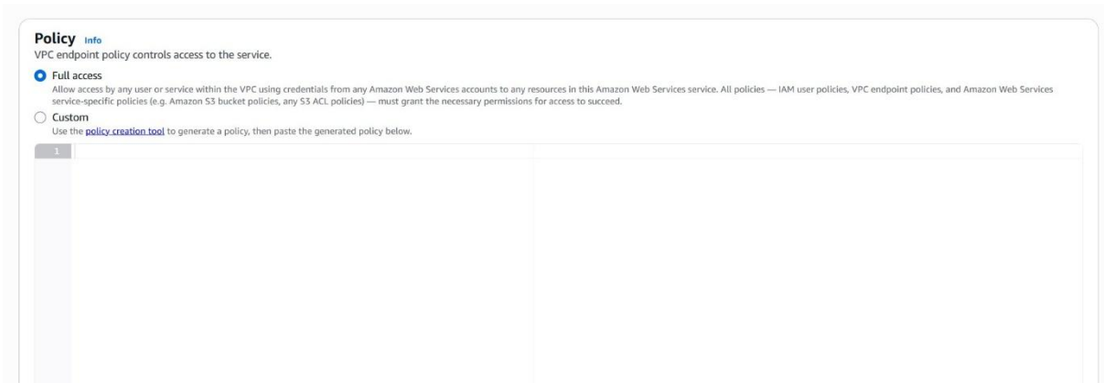


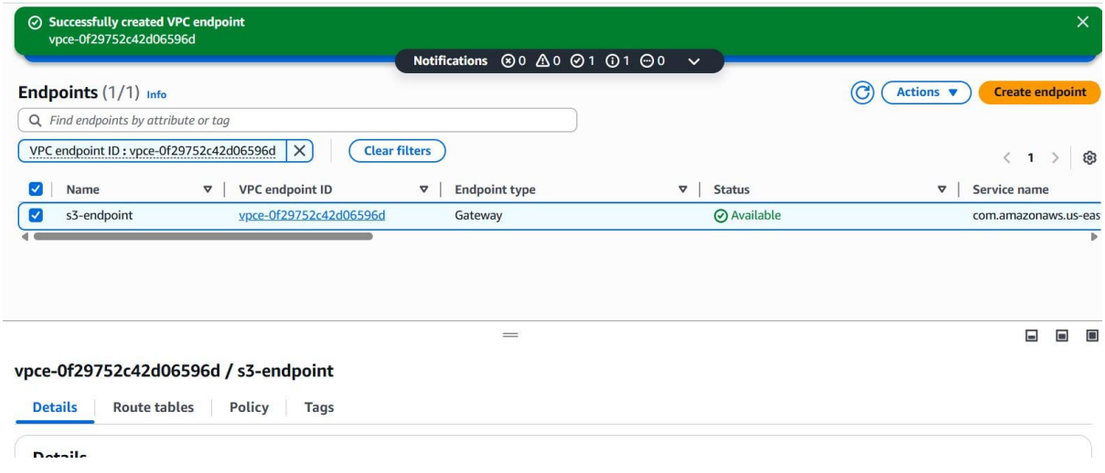
5) Setup VPC End Point.

Created one endpoint for vpc which is enabling communication internally/privately to s3









vpce-0f29752c42d06596d / s3-endpoint

Details | Route tables | Policy | Tags

Details

Endpoint ID vpce-0f29752c42d06596d	**Status** Available	**Creation time** Wednesday, June 11, 2025 at 13:12:49 GMT+5:30	**Endpoint type** Gateway
VPC ID vpc-048d9de2fab3c6aed (my-vpc)	**Status message** –	**Service name** com.amazonaws.us-east-1.s3	**Private DNS names enabled** No
Service region us-east-1			

Tested the endpoint is working or not by using 2 ec2 instances one I kept in public and one in private.

10.0.2.100 is public machine in this machine it worked

```
[ec2-user@ip-10-0-2-100 ~]$ aws s3 ls
Unable to locate credentials. You can configure credentials by running "aws conf
igure".
[ec2-user@ip-10-0-2-100 ~]$ aws configure
AWS Access Key ID [None]: AKIA3OX7D23A7XAVGVGK
AWS Secret Access Key [None]: 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
Default region name [None]: us-east-1
Default output format [None]: text
[ec2-user@ip-10-0-2-100 ~]$ aws configure
AWS Access Key ID [****************GVGK]: AKIA3OX7D23A7XAVGVGK
AWS Secret Access Key [****************znqH]: y1688ZmfffexyNJnwc/kpRdda7uI8pvJR+
2EznqH
Default region name [us-east-1]: us-east-1
Default output format [text]: json
[ec2-user@ip-10-0-2-100 ~]$ aws s3 ls
2025-06-11 02:28:37 mys3-7997533
[ec2-user@ip-10-0-2-100 ~]$
```

10.0.0.202 is private instance it didn’t worked earlier later after configuration of end point it worked in this I had initially taken ssh of public machine and later took the ssh of private machine and after the configuration completion of access key I used the command aws s3 ls and it worked as shown in the screenshot.

```
[ec2-user@ip-10-0-2-100 ~]$ ssh -i hplap.pem ec2-user@10.0.0.202
Last login: Wed Jun 11 06:45:58 2025 from 10.0.2.100
   ,     #_
   ~\_  ####_        Amazon Linux 2
  ~~  \_#####\
  ~~     \###|       AL2 End of Life is 2026-06-30.
  ~~       \#/ ___
   ~~       V~' '->
    ~~~         /    A newer version of Amazon Linux is available!
      ~~._.   _/
         _/ _/       Amazon Linux 2023, GA and supported until 2028-03-15.
       _/m/'           https://aws.amazon.com/linux/amazon-linux-2023/

[ec2-user@ip-10-0-0-202 ~]$ aws s3 ls
Unable to locate credentials. You can configure credentials by running "aws configure".
[ec2-user@ip-10-0-0-202 ~]$ aws configure
AWS Access Key ID [None]: AKIA3OX7D23A7XAVGVGK
AWS Secret Access Key [None]: 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
Default region name [None]: us-east-1
Default output format [None]: json
[ec2-user@ip-10-0-0-202 ~]$ aws s3 ls
2025-06-11 02:28:37 mys3-7997533
[ec2-user@ip-10-0-0-202 ~]$
```