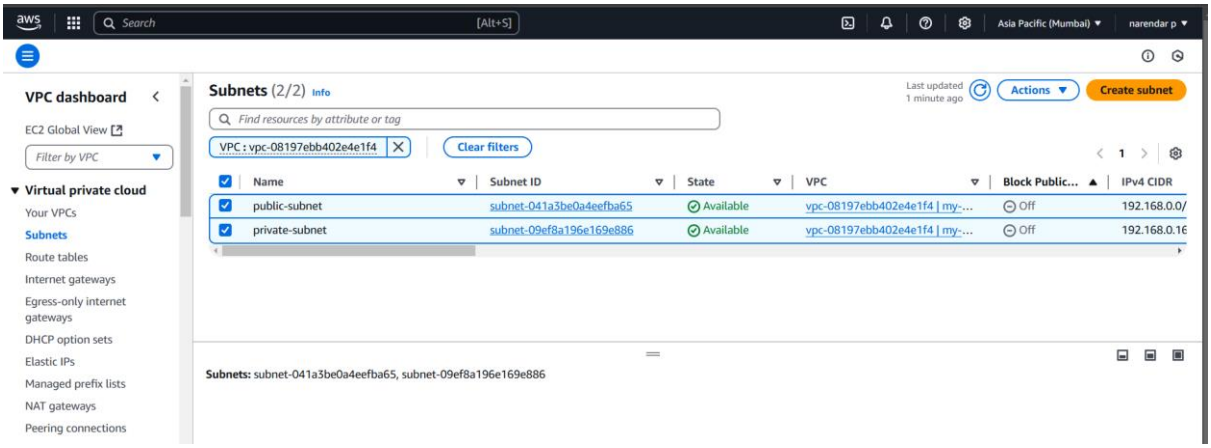
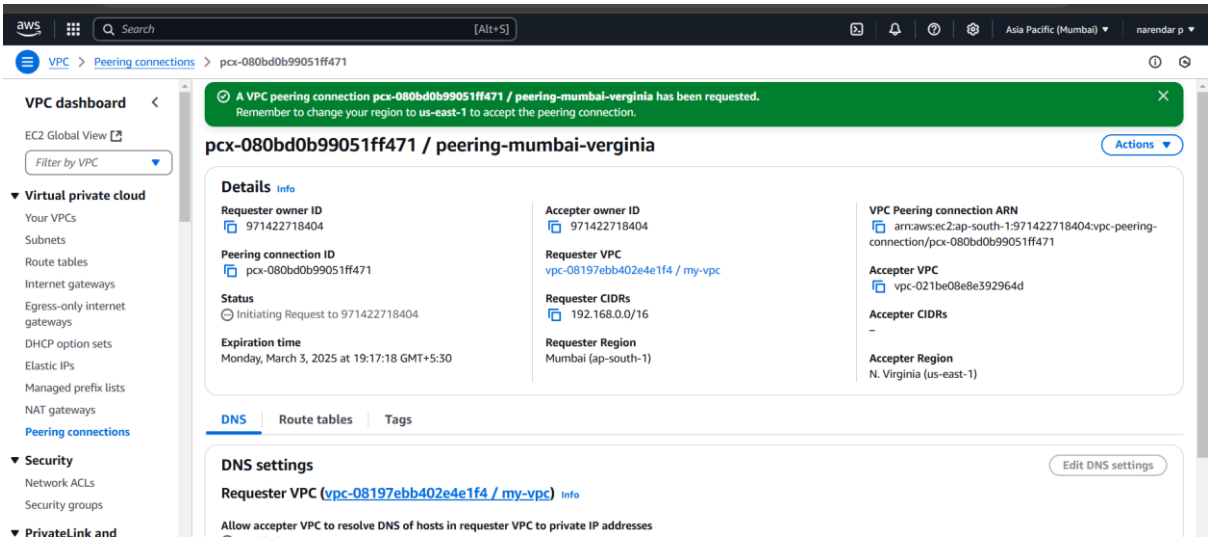
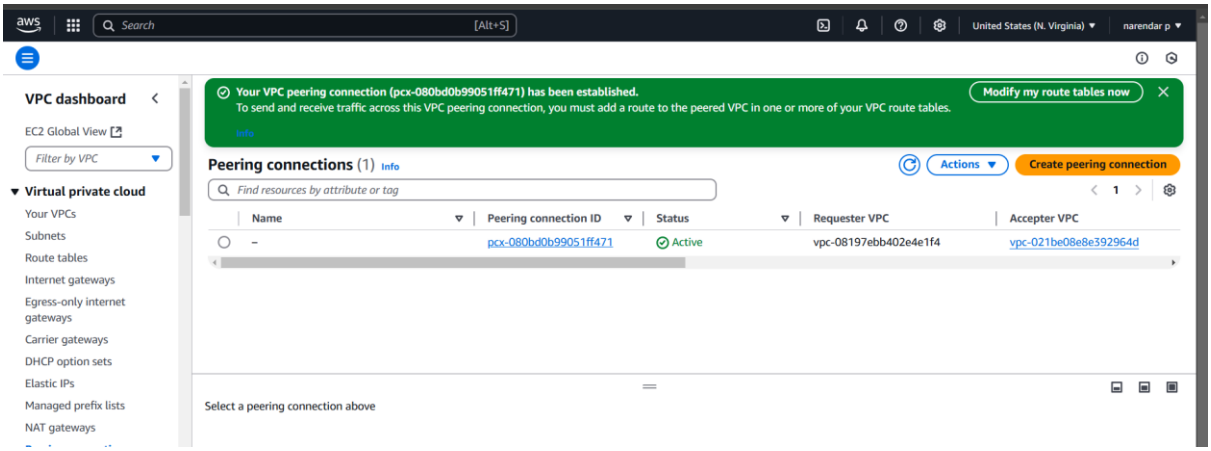
TASK ON VPC 02

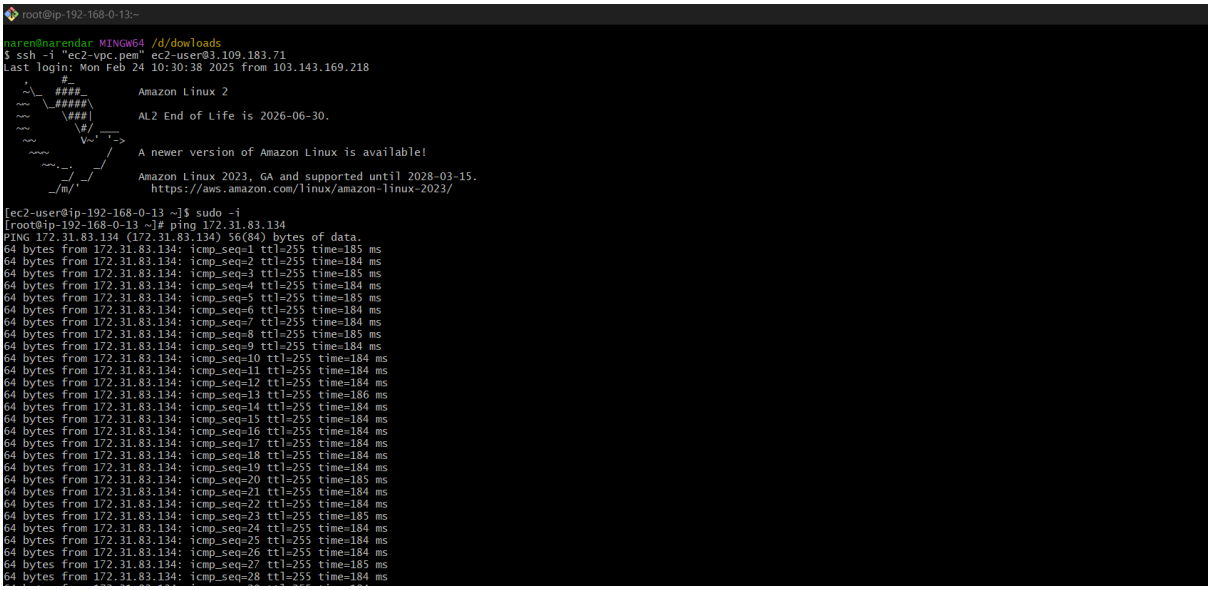
1) Create one VPC, with 1 one public subnet and 1 private subnet:



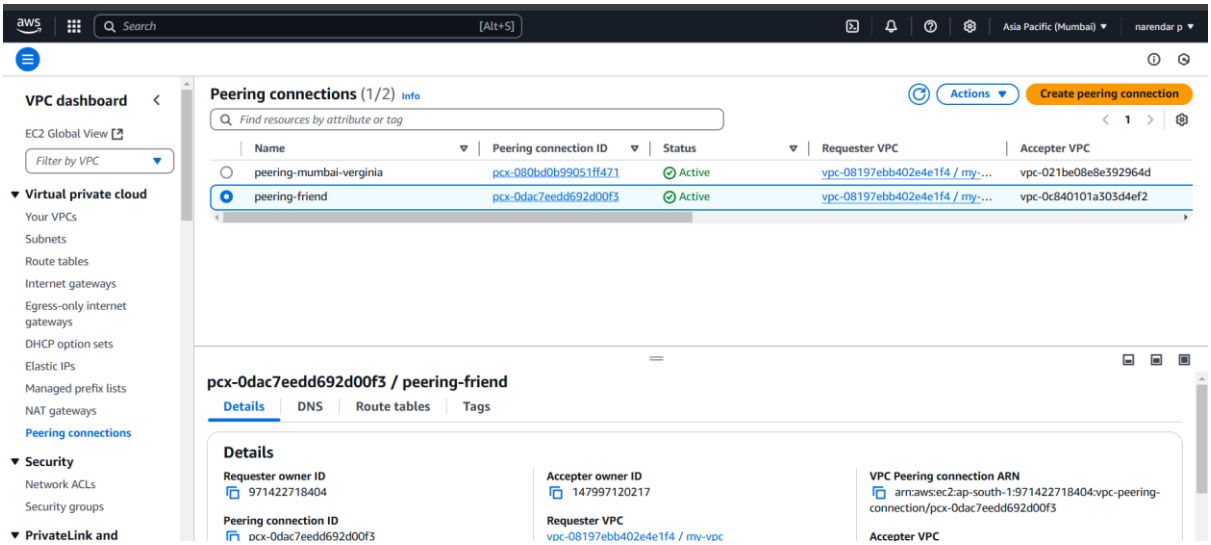
2) Enable VPC peering for cross region:

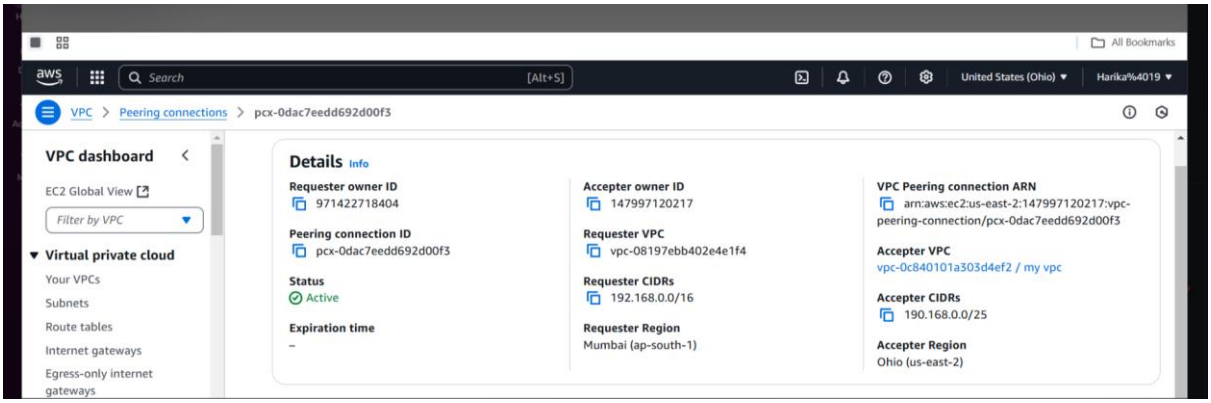






3) Enable VPC peering for cross account. (You can collaborate with your friend and do this task:




All Bookmarks
aws
Search
[Alt+S]
United States (Ohio)
Harika%4019
VPC > Peering connections > pcx-0dac7eedd692d00f3
VPC dashboard
EC2 Global View
Filter by VPC
Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only internet gateways
Details Info
Requester owner ID
971422718404
Peering connection ID
pcx-0dac7eedd692d00f3
Status
Active
Expiration time
–
Accepter owner ID
147997120217
Requester VPC
vpc-08197ebb402e4e1f4
Requester CIDRs
192.168.0.0/16
Requester Region
Mumbai (ap-south-1)
VPC Peering connection ARN
arn:aws:ec2:us-east-2:147997120217:vpc-peering-connection/pcx-0dac7eedd692d00f3
Accepter VPC
vpc-0c840101a303d4ef2 / my vpc
Accepter CIDRs
190.168.0.0/25
Accepter Region
Ohio (us-east-2)

Amazon Linux 2
AL2 End of Life is 2026-06-30.
A newer version of Amazon Linux is available!
Amazon Linux 2023, GA and supported until 2028-03-15.
https://aws.amazon.com/linux/amazon-linux-2023/
[ec2-user@ip-192-168-0-13 ~]$ sudo -i
[root@ip-192-168-0-13 ~]# ping 172.31.83.134
PING 172.31.83.134 (172.31.83.134) 56(84) bytes of data.
64 bytes from 172.31.83.134: icmp_seq=1 ttl=255 time=185 ms
64 bytes from 172.31.83.134: icmp_seq=2 ttl=255 time=184 ms
64 bytes from 172.31.83.134: icmp_seq=3 ttl=255 time=185 ms
64 bytes from 172.31.83.134: icmp_seq=4 ttl=255 time=184 ms
64 bytes from 172.31.83.134: icmp_seq=5 ttl=255 time=185 ms
64 bytes from 172.31.83.134: icmp_seq=6 ttl=255 time=184 ms
64 bytes from 172.31.83.134: icmp_seq=7 ttl=255 time=184 ms
64 bytes from 172.31.83.134: icmp_seq=8 ttl=255 time=185 ms
64 bytes from 172.31.83.134: icmp_seq=9 ttl=255 time=184 ms
64 bytes from 172.31.83.134: icmp_seq=10 ttl=255 time=184 ms
64 bytes from 172.31.83.134: icmp_seq=11 ttl=255 time=184 ms
64 bytes from 172.31.83.134: icmp_seq=12 ttl=255 time=184 ms
64 bytes from 172.31.83.134: icmp_seq=13 ttl=255 time=186 ms
64 bytes from 172.31.83.134: icmp_seq=14 ttl=255 time=184 ms
64 bytes from 172.31.83.134: icmp_seq=15 ttl=255 time=184 ms
64 bytes from 172.31.83.134: icmp_seq=16 ttl=255 time=184 ms
64 bytes from 172.31.83.134: icmp_seq=17 ttl=255 time=184 ms
64 bytes from 172.31.83.134: icmp_seq=18 ttl=255 time=184 ms
64 bytes from 172.31.83.134: icmp_seq=19 ttl=255 time=184 ms
64 bytes from 172.31.83.134: icmp_seq=20 ttl=255 time=185 ms
64 bytes from 172.31.83.134: icmp_seq=21 ttl=255 time=184 ms
64 bytes from 172.31.83.134: icmp_seq=22 ttl=255 time=184 ms
64 bytes from 172.31.83.134: icmp_seq=23 ttl=255 time=185 ms
64 bytes from 172.31.83.134: icmp_seq=24 ttl=255 time=184 ms
64 bytes from 172.31.83.134: icmp_seq=25 ttl=255 time=184 ms
64 bytes from 172.31.83.134: icmp_seq=26 ttl=255 time=184 ms

4) **Setup VPC Transit Gateway:**

Connection between default vpc to vpc1:

```
[ec2-user@ip-172-31-17-45 ~]$ ping 10.0.0.4
PING 10.0.0.4 (10.0.0.4) 56(84) bytes of data.
64 bytes from 10.0.0.4: icmp_seq=127 ttl=254 time=1.95 ms
64 bytes from 10.0.0.4: icmp_seq=128 ttl=254 time=1.34 ms
64 bytes from 10.0.0.4: icmp_seq=129 ttl=254 time=3.20 ms
64 bytes from 10.0.0.4: icmp_seq=130 ttl=254 time=1.32 ms
64 bytes from 10.0.0.4: icmp_seq=131 ttl=254 time=1.27 ms
64 bytes from 10.0.0.4: icmp_seq=132 ttl=254 time=1.37 ms
64 bytes from 10.0.0.4: icmp_seq=133 ttl=254 time=1.57 ms
64 bytes from 10.0.0.4: icmp_seq=134 ttl=254 time=1.36 ms
64 bytes from 10.0.0.4: icmp_seq=135 ttl=254 time=1.25 ms
64 bytes from 10.0.0.4: icmp_seq=136 ttl=254 time=1.29 ms
64 bytes from 10.0.0.4: icmp_seq=137 ttl=254 time=1.37 ms
64 bytes from 10.0.0.4: icmp_seq=138 ttl=254 time=1.39 ms
64 bytes from 10.0.0.4: icmp_seq=139 ttl=254 time=1.34 ms
64 bytes from 10.0.0.4: icmp_seq=140 ttl=254 time=1.43 ms
64 bytes from 10.0.0.4: icmp_seq=141 ttl=254 time=1.40 ms
64 bytes from 10.0.0.4: icmp_seq=142 ttl=254 time=1.35 ms
64 bytes from 10.0.0.4: icmp_seq=143 ttl=254 time=1.46 ms
64 bytes from 10.0.0.4: icmp_seq=144 ttl=254 time=1.35 ms
64 bytes from 10.0.0.4: icmp_seq=145 ttl=254 time=1.31 ms
64 bytes from 10.0.0.4: icmp_seq=146 ttl=254 time=1.39 ms
64 bytes from 10.0.0.4: icmp_seq=147 ttl=254 time=1.31 ms
64 bytes from 10.0.0.4: icmp_seq=148 ttl=254 time=1.34 ms
64 bytes from 10.0.0.4: icmp_seq=149 ttl=254 time=1.41 ms
64 bytes from 10.0.0.4: icmp_seq=150 ttl=254 time=1.37 ms
64 bytes from 10.0.0.4: icmp_seq=151 ttl=254 time=1.33 ms
64 bytes from 10.0.0.4: icmp_seq=152 ttl=254 time=1.34 ms
```

Connection vpc1 to vpc2:

```
64 bytes from 10.0.0.4: icmp_seq=154 ttl=254 time=1.34 ms
64 bytes from 10.0.0.4: icmp_seq=155 ttl=254 time=2.57 ms
64 bytes from 10.0.0.4: icmp_seq=156 ttl=254 time=1.28 ms
64 bytes from 10.0.0.4: icmp_seq=157 ttl=254 time=1.36 ms
^C
--- 10.0.0.4 ping statistics ---
157 packets transmitted, 31 received, 80% packet loss, time 159021ms
rtt min/avg/max/mdev = 1.253/1.480/3.205/0.398 ms
[ec2-user@ip-172-31-17-45 ~]$ ping
Usage: ping [-aAbBdDfhLnOqrRUvV64] [-c count] [-i interval] [-I interface]
            [-m mark] [-M pmtudisc_option] [-l preload] [-p pattern] [-Q tos]
            [-s packetsize] [-S sndbuf] [-t ttl] [-T timestamp_option]
            [-w deadline] [-W timeout] [hop1 ...] destination
Usage: ping -6 [-aAbBdDfhLnOqrRUvV] [-c count] [-i interval] [-I interface]
             [-l preload] [-m mark] [-M pmtudisc_option]
             [-N nodeinfo_option] [-p pattern] [-Q tclass] [-s packetsize]
             [-S sndbuf] [-t ttl] [-T timestamp_option] [-w deadline]
             [-W timeout] destination
[ec2-user@ip-172-31-17-45 ~]$ ping 10.0.1.11
PING 10.0.1.11 (10.0.1.11) 56(84) bytes of data.
64 bytes from 10.0.1.11: icmp_seq=19 ttl=254 time=1.37 ms
64 bytes from 10.0.1.11: icmp_seq=20 ttl=254 time=0.907 ms
64 bytes from 10.0.1.11: icmp_seq=21 ttl=254 time=1.49 ms
64 bytes from 10.0.1.11: icmp_seq=22 ttl=254 time=0.881 ms
64 bytes from 10.0.1.11: icmp_seq=23 ttl=254 time=0.864 ms
64 bytes from 10.0.1.11: icmp_seq=24 ttl=254 time=0.786 ms
64 bytes from 10.0.1.11: icmp_seq=25 ttl=254 time=0.844 ms
```

Connection between vpc2 to vpc3:

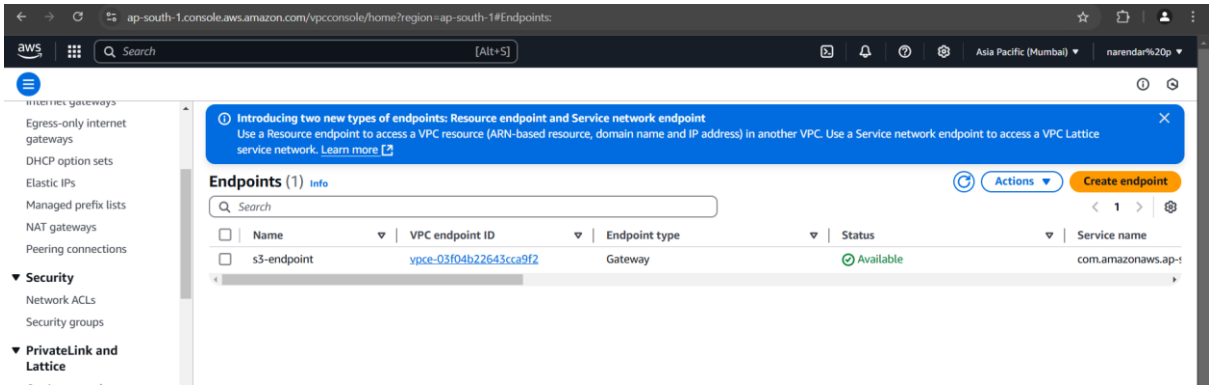
```
[ec2-user@ip-172-31-17-45 ~]$ ping 10.0.2.11
PING 10.0.2.11 (10.0.2.11) 56(84) bytes of data.
64 bytes from 10.0.2.11: icmp_seq=1 ttl=254 time=3.32 ms
64 bytes from 10.0.2.11: icmp_seq=2 ttl=254 time=1.57 ms
64 bytes from 10.0.2.11: icmp_seq=3 ttl=254 time=1.52 ms
64 bytes from 10.0.2.11: icmp_seq=4 ttl=254 time=1.64 ms
64 bytes from 10.0.2.11: icmp_seq=5 ttl=254 time=1.60 ms
64 bytes from 10.0.2.11: icmp_seq=6 ttl=254 time=2.27 ms
64 bytes from 10.0.2.11: icmp_seq=7 ttl=254 time=2.13 ms
64 bytes from 10.0.2.11: icmp_seq=8 ttl=254 time=1.54 ms
64 bytes from 10.0.2.11: icmp_seq=9 ttl=254 time=1.56 ms
64 bytes from 10.0.2.11: icmp_seq=10 ttl=254 time=1.56 ms
64 bytes from 10.0.2.11: icmp_seq=11 ttl=254 time=1.53 ms
64 bytes from 10.0.2.11: icmp_seq=12 ttl=254 time=1.54 ms
64 bytes from 10.0.2.11: icmp_seq=13 ttl=254 time=2.62 ms
64 bytes from 10.0.2.11: icmp_seq=14 ttl=254 time=1.61 ms
^C
--- 10.0.2.11 ping statistics ---
15 packets transmitted, 14 received, 6% packet loss, time 14021ms
rtt min/avg/max/mdev = 1.520/1.862/3.321/0.521 ms
[ec2-user@ip-172-31-17-45 ~]$
```

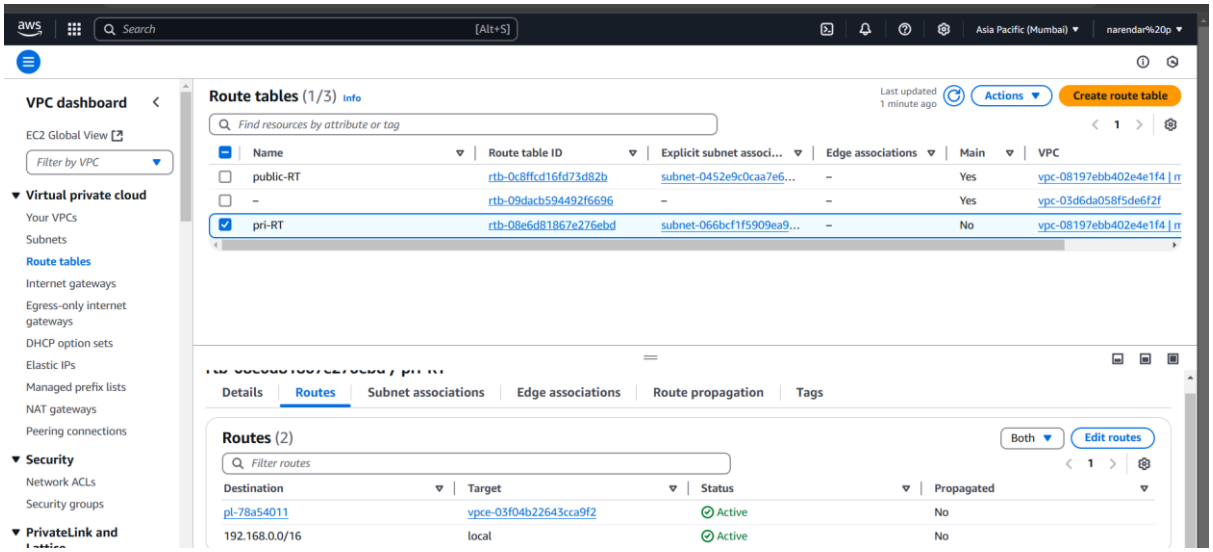
Connection between vpc3 to default vpc:

```
     ~~      \###|       AL2 End of Life is 2025-06-30.
     ~~       \#/ ___
      ~~       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-10-0-0-4 ~]$ ping 172.31.17.45
PING 172.31.17.45 (172.31.17.45) 56(84) bytes of data.
64 bytes from 172.31.17.45: icmp_seq=1 ttl=254 time=1.94 ms
64 bytes from 172.31.17.45: icmp_seq=2 ttl=254 time=1.34 ms
64 bytes from 172.31.17.45: icmp_seq=3 ttl=254 time=1.34 ms
64 bytes from 172.31.17.45: icmp_seq=4 ttl=254 time=1.41 ms
64 bytes from 172.31.17.45: icmp_seq=5 ttl=254 time=1.27 ms
```

5) Setup VPC End Point:






```
[root@ip-192-168-0-21 ~]# vi test.pem
[root@ip-192-168-0-21 ~]# ls
test.pem
[root@ip-192-168-0-21 ~]# ll
total 4
-rw-r--r-- 1 root root 1680 Feb 25 07:18 test.pem
[root@ip-192-168-0-21 ~]# chmod 400 test.pem
[root@ip-192-168-0-21 ~]# ssh -i test.pem ec2-user@192.168.0.7
The authenticity of host '192.168.0.7 (192.168.0.7)' can't be established.
ECDSA key fingerprint is SHA256:nXkEBR2L9MR+51BW6FtdOca7bDOP1aMQrzLbPSqzxjg.
ECDSA key fingerprint is MD5:e4:db:f0:7c:27:18:a2:23:46:a9:37:fd:9b:7b:9d:a7.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.0.7' (ECDSA) to the list of known hosts.
   ,     #_
   ~\_  ####_        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-192-168-0-7 ~]$ sudo -i
[root@ip-192-168-0-7 ~]# aws s3 ls
Unable to locate credentials. You can configure credentials by running "aws conf
igure".
[root@ip-192-168-0-7 ~]# aws configure
AWS Access Key ID [None]: AKIA6ELKOLHCLKZ4JVMQ
AWS Secret Access Key [None]: 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
Default region name [None]: ap-south-1
Default output format [None]: json
[root@ip-192-168-0-7 ~]# aws s3 ls
2025-02-24 12:21:35 my-vpc-flowlogs-0102
[root@ip-192-168-0-7 ~]#
```