VPC (Peering Connections)

➢ Creating Two (2) VPC'S In Different Regions

1. VPC in **First Region** with CIDR (10.0.0.0/16)

2. VPC in **Second Region** with CIDR (192.168.0.0/16)

☐ Create Private and public subnets In VPC First…

Note:- Public subnet means we are just assigning Internet Gateway and adding Internet Gateway in Route Tables as simple as that….

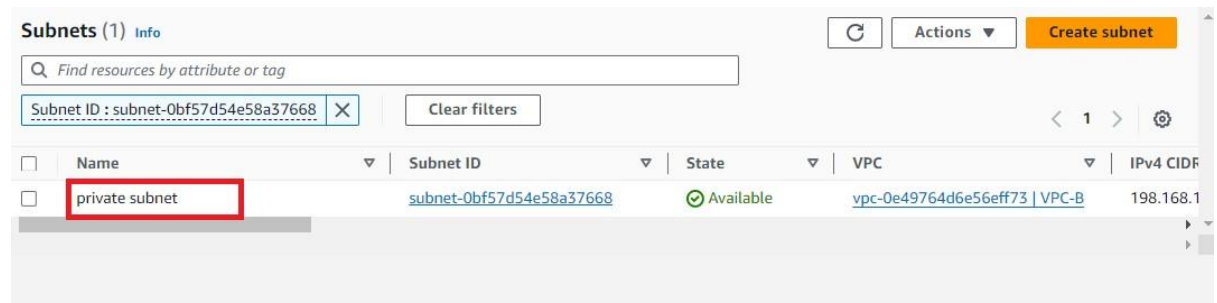## ☐ Create Private subnets In VPC Second…

Note:- Private means we are not assigning Internet Gateway and Doesn't assigning Internet Gateway in Route Tables as simple as that….
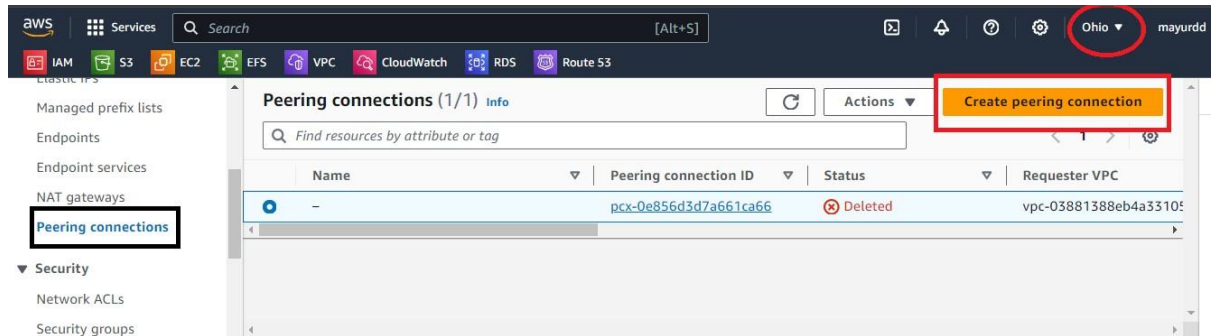

Error Checking: - 1) After Creating Instance (private instance) and (public instance) In First VPC, Check where you can ping each other…..???
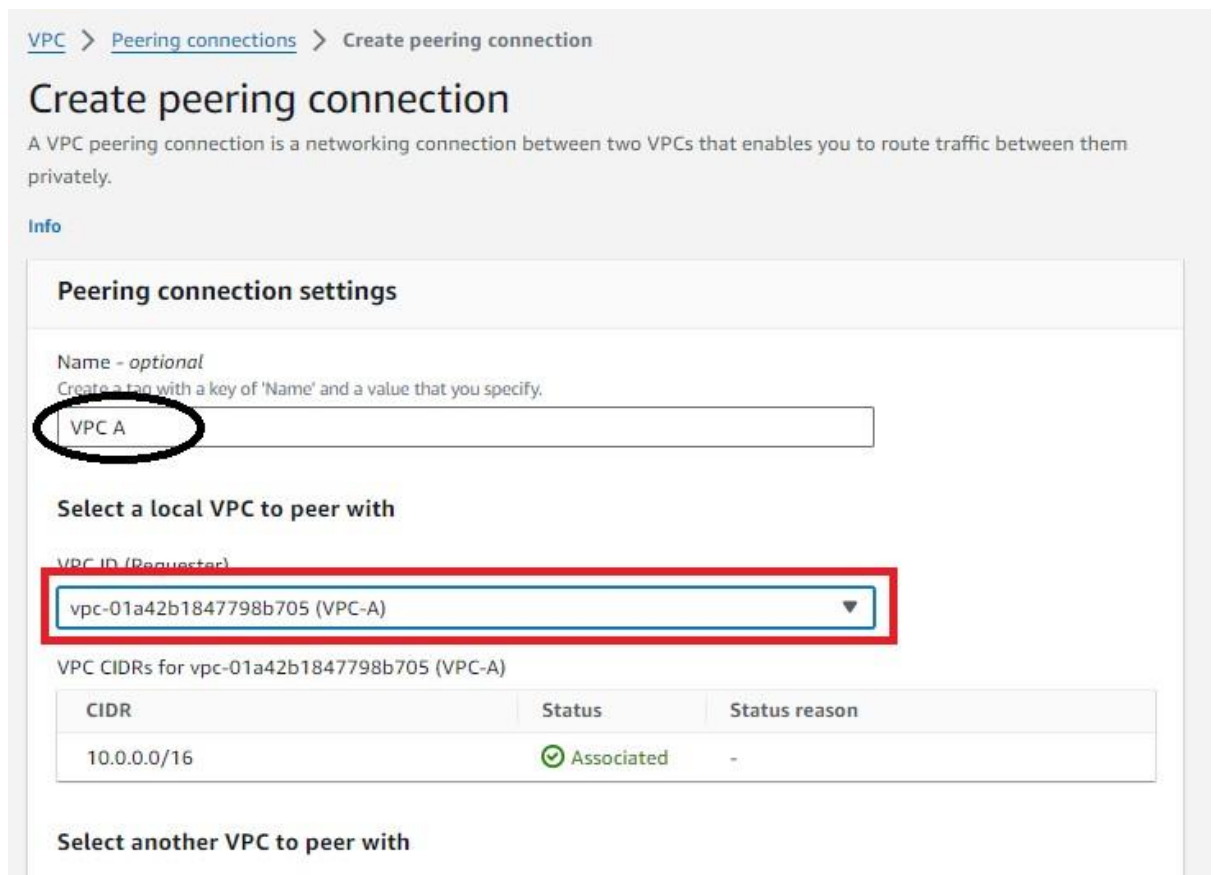2) Is we Added ICMP traffic in Security Group....???

Peering Private and public VPC

VPC 1 configuration

1. Click on Create peering connection (Configuration in first VPC)

2. Select VPC name and **Requester ID**

3. Click On **Another Region**, **Select The Region** and **Enter Receiver** **VPC ID**

4. Request Sent Successfully To Another Region VPC …

VPC 2 configuration

1. Accept The Request
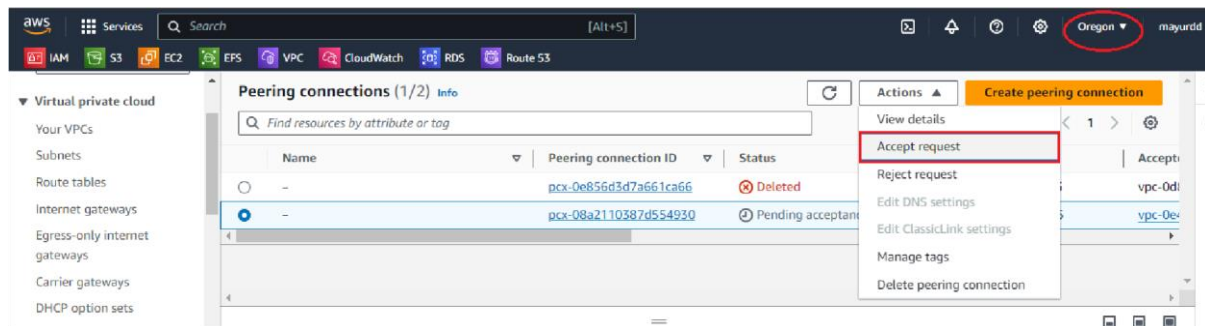
2. VPC peering connection Has been Established….
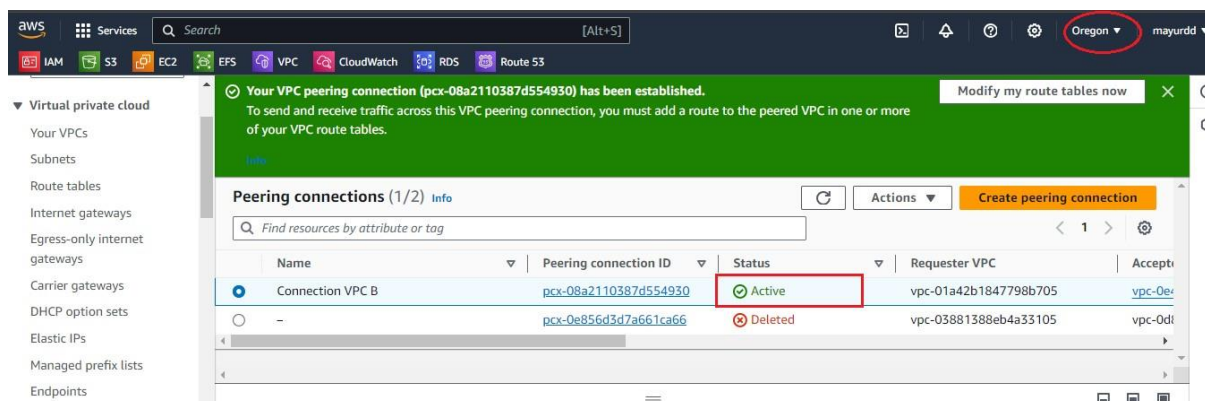
Route Table Configuration

1. ## Adding VPC 1 subnet in VPC 2 route table

   ❖ Copy The subnet of first VPC

   ❖ Paste It into Second VPC route table

   ❖ **Subnet Added in route table successfully….**

2. Adding VPC 2 subnet in VPC 1 route table

❖ Copy The subnet of Second VPC

❖ Paste It into First VPC route table
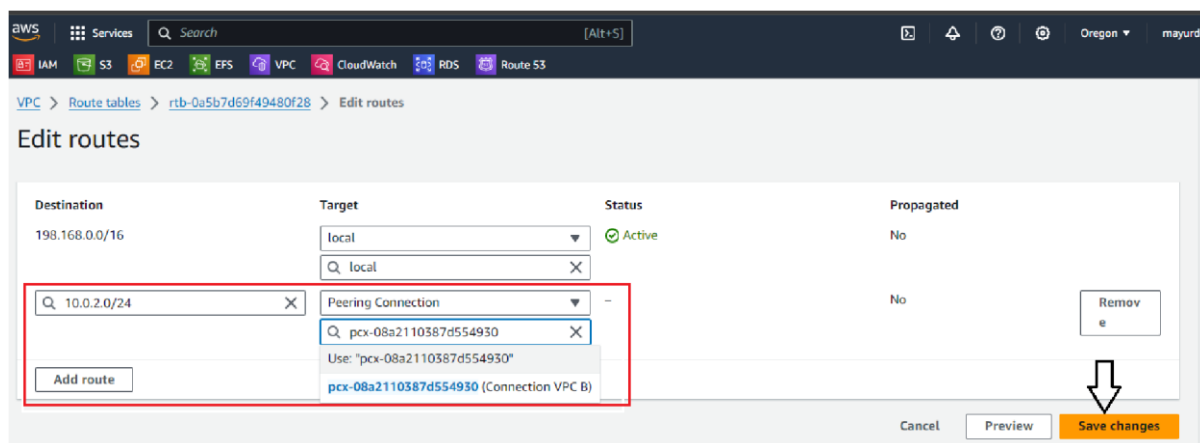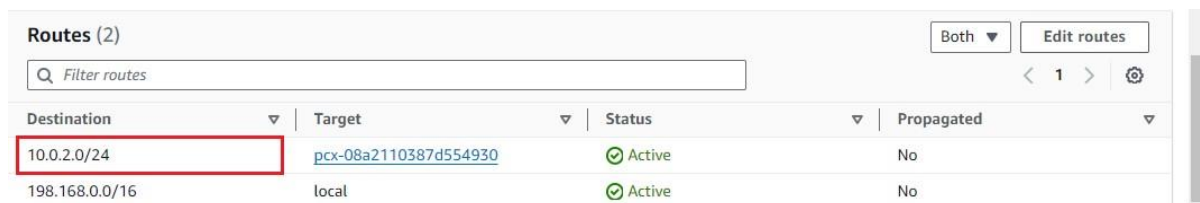

❖ **Subnet Added in route table successfully….**

Result:-

We are successfully able to ping public cloud instance to private cloud instances:-

```
  ,      #_
  ~\_   ####_        Amazon Linux 2023
 ~~  \_#####\
 ~~     \###|
 ~~       \#/ ___    https://aws.amazon.com/linux/amazon-linux-2023
  ~~       V~' '->
   ~~~         /
     ~~._.   _/
        _/ _/
      _/m/'
[ec2-user@ip-10-0-2-254 ~]$ ping  198.168.1.246
PING 198.168.1.246 (198.168.1.246) 56(84) bytes of data.
64 bytes from 198.168.1.246: icmp_seq=1 ttl=127 time=51.1 ms
64 bytes from 198.168.1.246: icmp_seq=2 ttl=127 time=51.1 ms
^C
--- 198.168.1.246 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 51.056/51.056/51.057/0.000 ms
[ec2-user@ip-10-0-2-254 ~]$
```

And hence we are pinging each other it means now we can able to get ssh access of each other as well…..