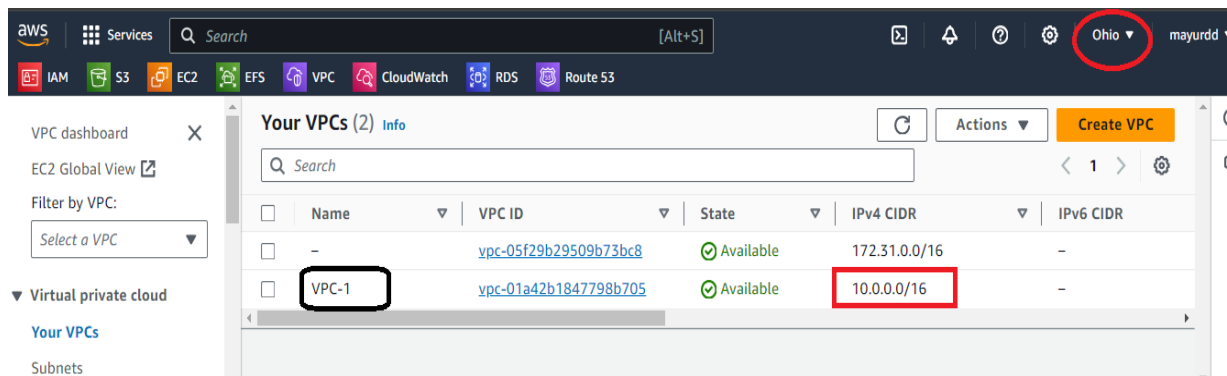


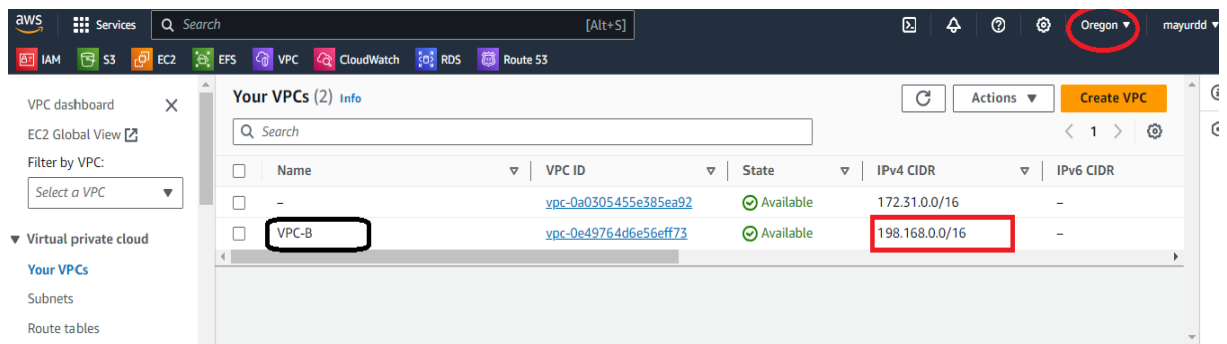
VPC (Peering Connections)

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

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

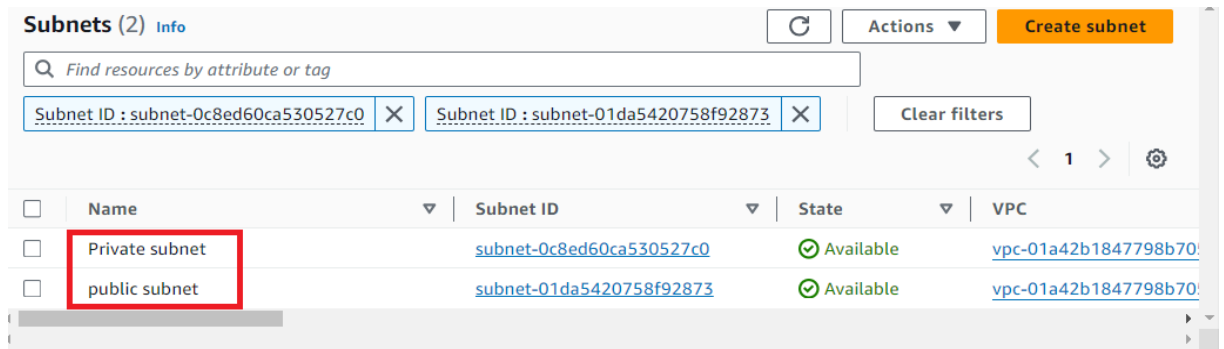


2. VPC in Second Region with CIDR (192.168.0.0/16)



- **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....



Subnets (2) Info

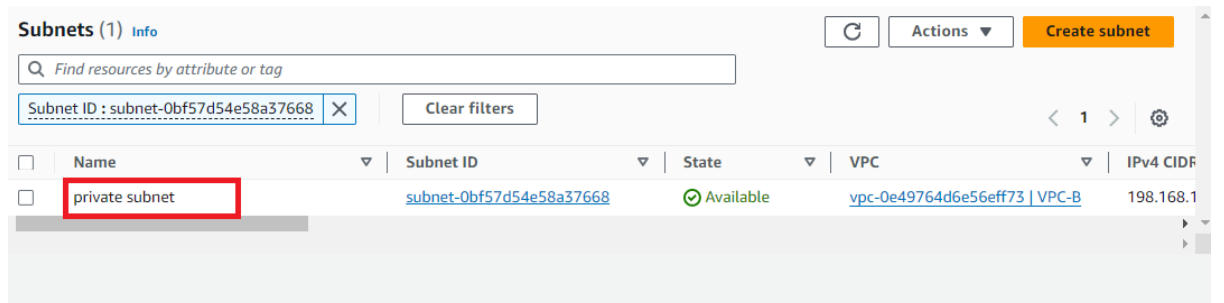
Find resources by attribute or tag

Subnet ID : subnet-0c8ed60ca530527c0 X Subnet ID : subnet-01da5420758f92873 X Clear filters

<input type="checkbox"/>	Name	Subnet ID	State	VPC
<input type="checkbox"/>	Private subnet	subnet-0c8ed60ca530527c0	Available	vpc-01a42b1847798b70
<input type="checkbox"/>	public subnet	subnet-01da5420758f92873	Available	vpc-01a42b1847798b70

- **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....



Subnets (1) Info

Find resources by attribute or tag

Subnet ID : subnet-0bf57d54e58a37668 X Clear filters

<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR
<input type="checkbox"/>	private subnet	subnet-0bf57d54e58a37668	Available	vpc-0e49764d6e56eff73 VPC-B	198.168.1

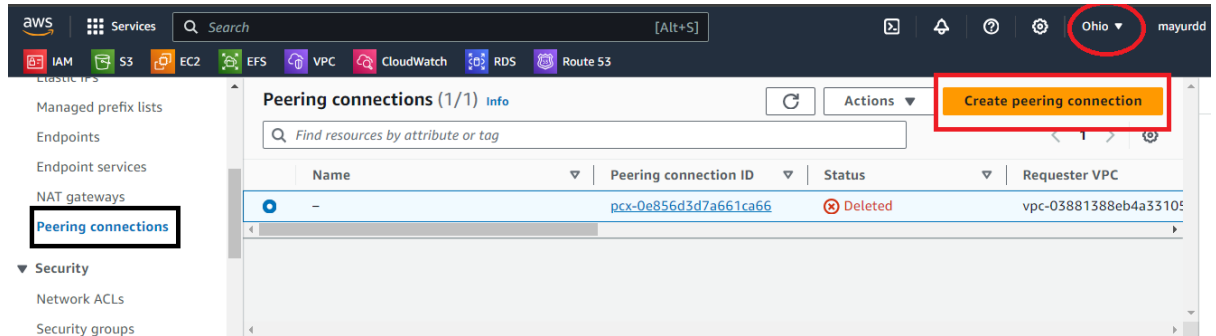
Error Checking: - 1) After Creating Instance (private instance) and (public instance) In First VPC, Check where you can ping each other.....???

2) Is we Added ICMP traffic in Security Group....???

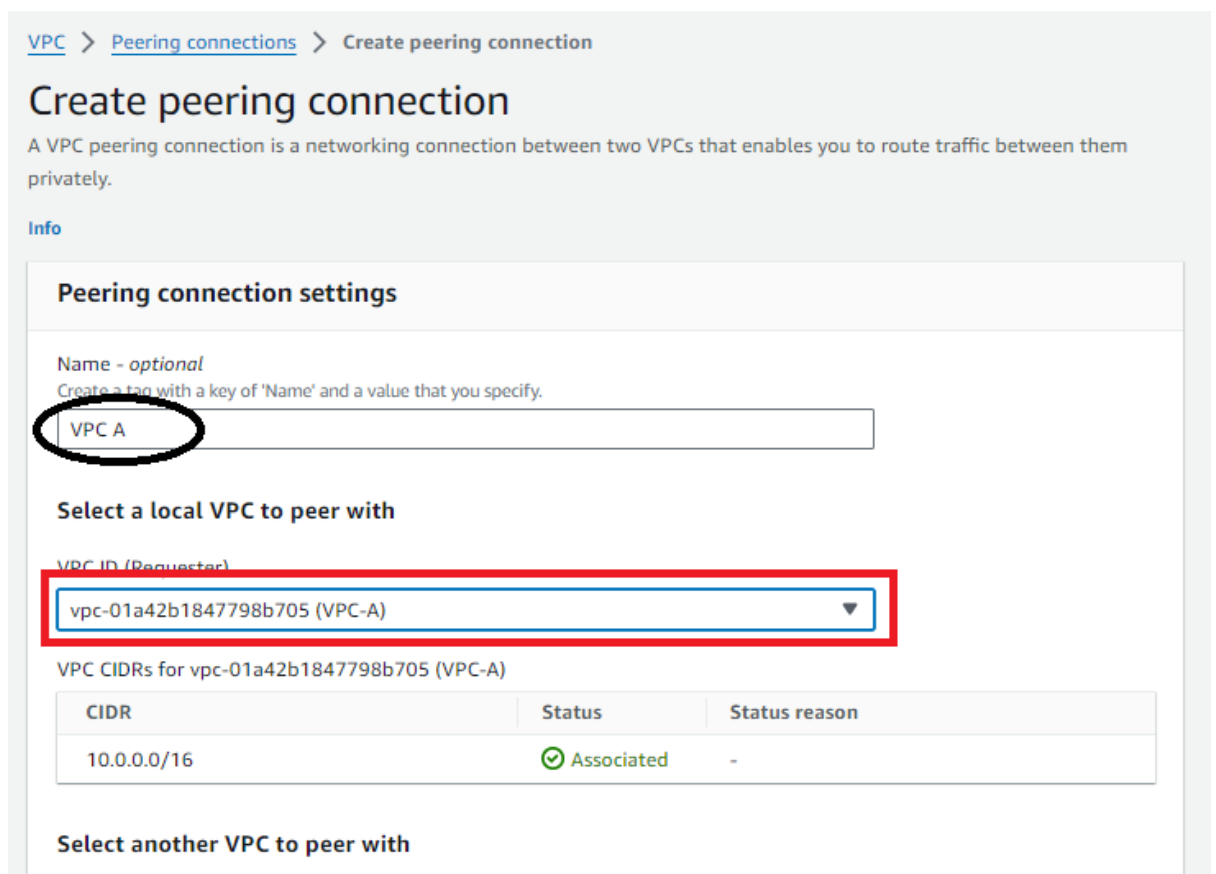
Peering Private and public VPC

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

Select another VPC to peer with

Account

☒ My account

☐ Another account

Region

☐ This Region (us-east-2)

☒ Another Region

US West (Oregon) (us-west-2)

VPC ID (Acceptor)

vpc-0e49764d6e56eff73

Tags

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.

Key


Value - optional

Q Name X Q VPC A X Remove

Add new tag

You can add 49 more tags.

Cancel Create peering connection



4. Request Sent Successfully To Another Region VPC ...

aws Services Search [Alt+S] Ohio mayurdd

VPC dashboard X

EC2 Global View

Filter by VPC: Select a VPC

Virtual private cloud

Your VPCs

Subnets

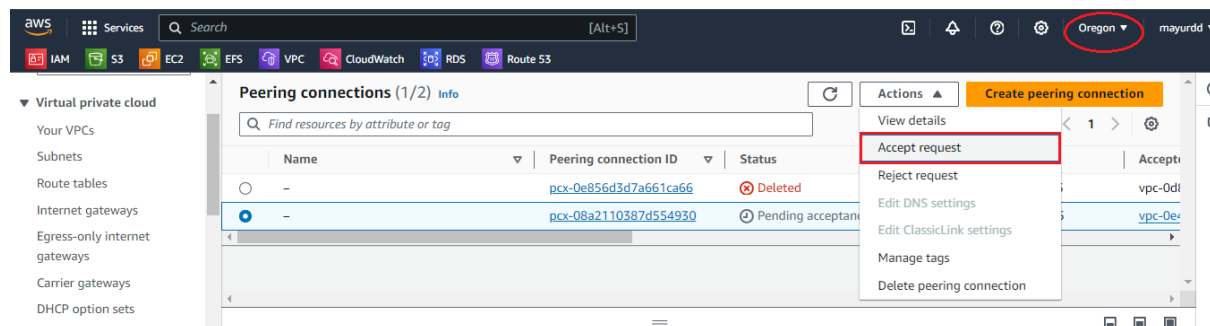
Peering connections (1/2) Info

Find resources by attribute or tag

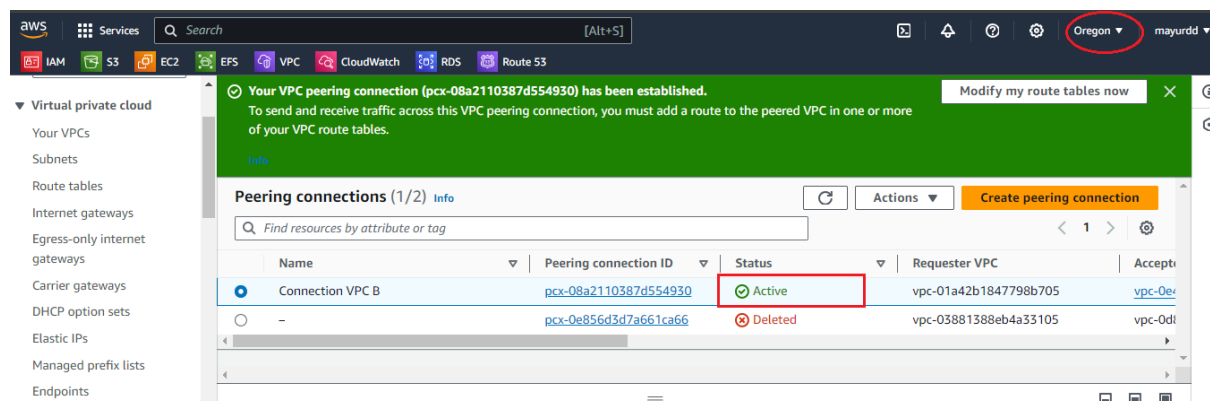
Name	Peering connection ID	Status	Requester VPC
-	pcx-0e856d3d7a661ca66	Deleted	vpc-03881388eb4a33105
VPC A	pcx-08a2110387d554930	Pending acceptance	vpc-01a42b1847798b705

VPC 2 configuration

1. Accept The Request



2. VPC peering connection Has been Established....



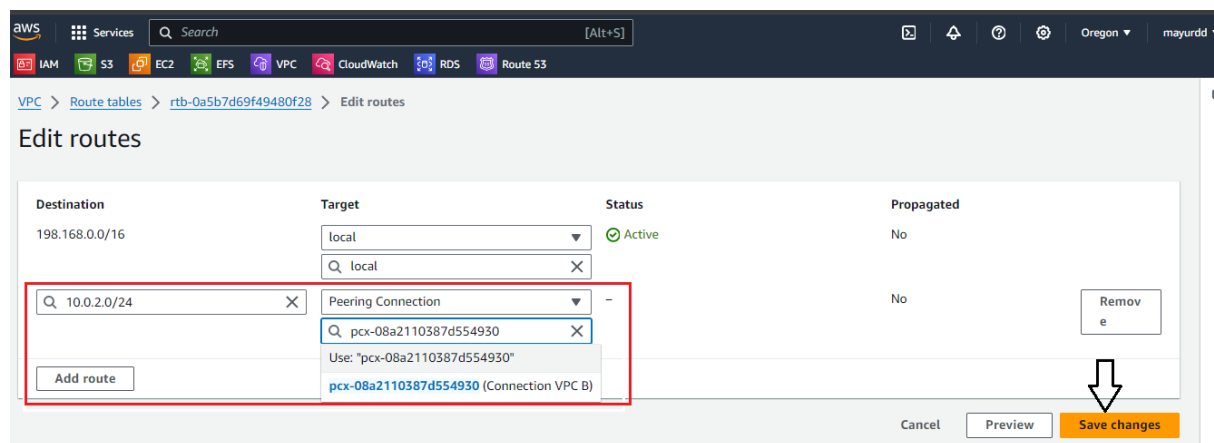
Route Table Configuration

1. Adding VPC 1 subnet in VPC 2 route table

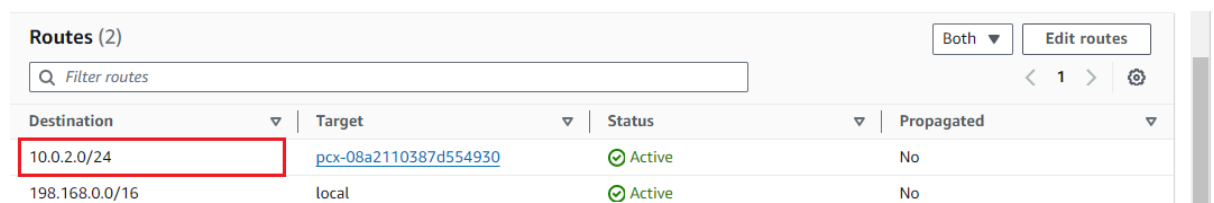
❖ Copy The subnet of first VPC



❖ 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

The screenshot shows the AWS VPC console interface. On the left, the 'Virtual private cloud' sidebar is visible with 'Subnets' highlighted. The main panel displays the details for 'subnet-0bf57d54e58a37668 / private subnet'. The 'Details' section includes:

- Subnet ID: subnet-0bf57d54e58a37668
- Subnet ARN: arn:aws:ec2:us-west-2:412832919872:subnet/subnet-0bf57d54e58a37668
- State: Available
- IPV4 CIDR: 198.168.1.0/24 (highlighted with a red box)
- Available IPv4 addresses: 251
- Availability Zone: us-west-2a
- Route table: rtb-0a5b7d69f49480f28 | VPC B
- Network border group: us-west-2
- Availability Zone ID: usw2-az1
- Default subnet
- IPv6 CIDR: -
- VPC: vpc-0a4076446a56a9f73 | VPC B
- Network ACL: acl-0d42ca38abec73fac
- Auto-assign IPv6 address: -
- Auto-assign customer-owned IPv4: -

❖ Paste It into First VPC route table

The screenshot shows the 'Edit routes' interface for route table 'rtb-0672bb6b4fb420bad'. The table lists the following routes:

Destination	Target	Status	Propagated
10.0.0.0/16	local	Active	No
198.168.1.0/24	Peering Connection	Active	No
0.0.0.0/0	Internet Gateway	Active	No

The '198.168.1.0/24' route is highlighted with a red box. The 'Add route' button is visible at the bottom left, and 'Cancel', 'Preview', and 'Save changes' buttons are at the bottom right.

❖ Subnet Added in route table successfully....

Routes (3)				Both ▾	Edit routes
<input type="text" value="Filter routes"/>				< 1 >	
Destination ▾	Target ▾	Status ▾	Propagated ▾		
0.0.0.0/0	igw-0f4c4ac2c356d6044	Active	No		
10.0.0.0/16	local	Active	No		
198.168.1.0/24	pcx-08a2110387d554930	Active	No		

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 100lms
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.....