CREATE THREE VPCs IN THREE DIFFERENT REGIONS AND CONNECT THE VPCs USING TRANSIT GATEWAY

❖ What is Amazon VPC?

With Amazon Virtual Private Cloud (Amazon VPC), you can launch AWS resources in a logically isolated virtual network that you've defined. This virtual network closely resembles a traditional network that you'd operate in your own data centre, with the benefits of using the scalable infrastructure of AWS.

❖ What is Transit Gateway?

A transit gateway is a network transit hub that you can use to interconnect your virtual private clouds (VPCs) and on-premises networks. As your cloud infrastructure expands globally, inter region peering connects transit gateways together using the AWS global infrastructure.

Create VPCs in THREE DIFFERENT REGIONS:

- 1.Log in to your AWS account & select Ohio region & do search for VPC in the search box.
- 2.Click on create VPC & select VPC AND MORE, go down click on create VPC.
- 3. After that choose CALIFORNIA & OREGON and create VPCs in those regions.
- 4. Follow the steps mentioned in below snapshots.

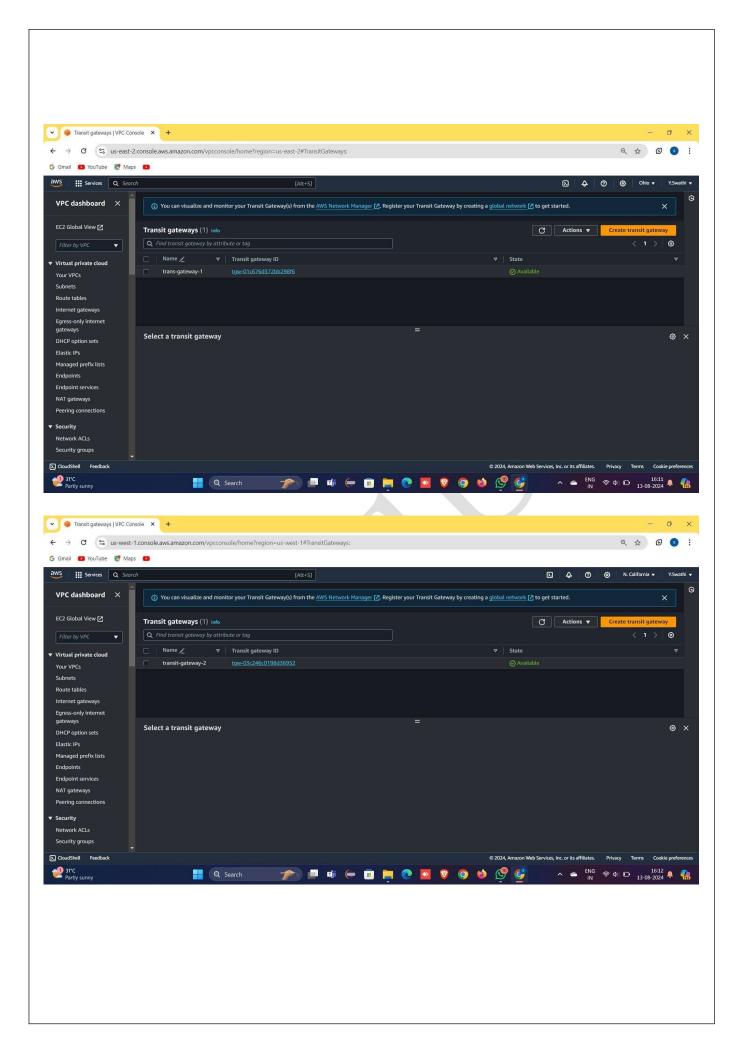


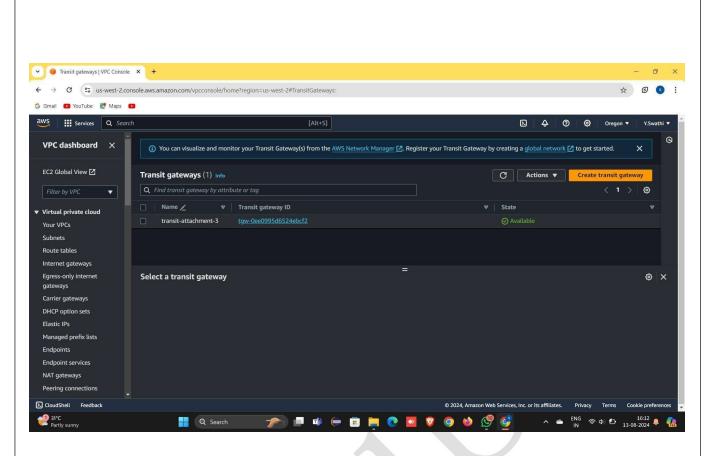
3. Below snapshots shows the VPCs that are created in CALIFORNIA & OREGON.





- Create Transit Gateway in three regions:
- 1. Go to transit gateway and select "Create Transit Gateway".
- 2. Now create transit gateway in three different regions.
- 3. Snapshots of transit gateway are attached below.



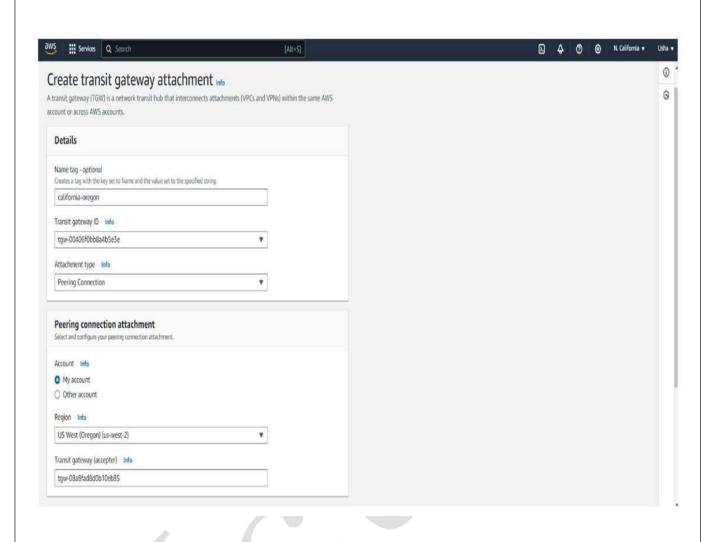


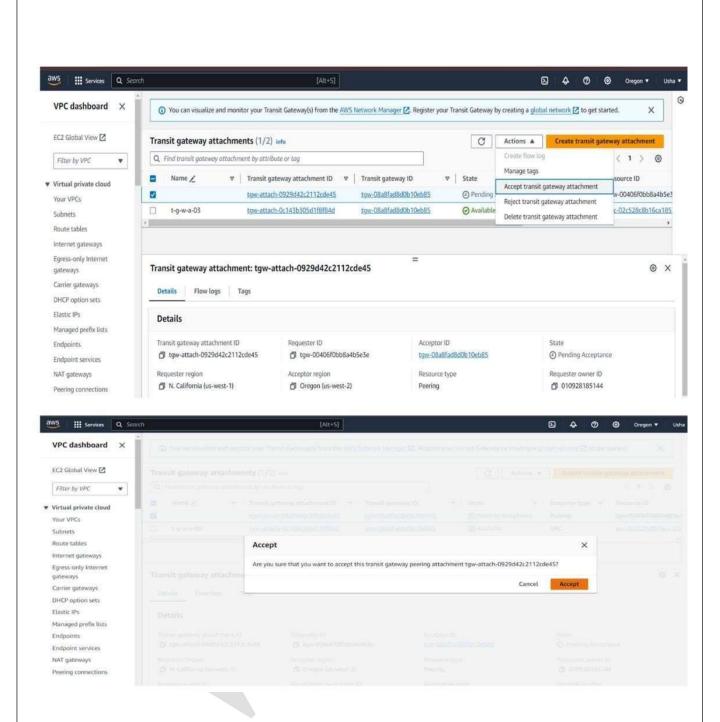
Create Transit Gateway Attachment in THREE Regions:

- 1. Go to transit gateway attachment & Create "Transit Gateway Attachment" & attach to transit gateway.
- 2. while creating transit gateway attachment for single region, select attachment

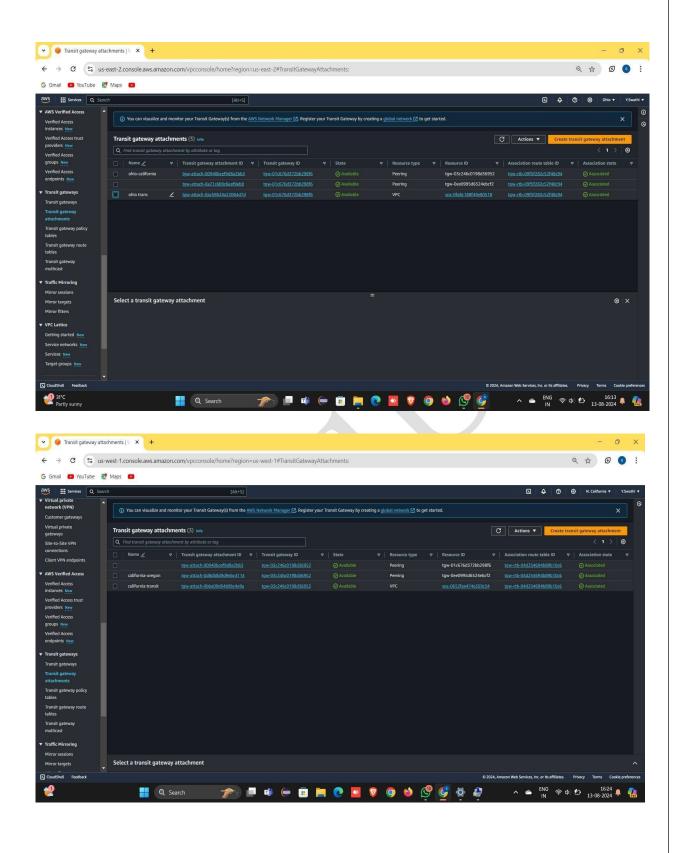
Type attach VPC & for two or more regions give PEERING CONNECTION.

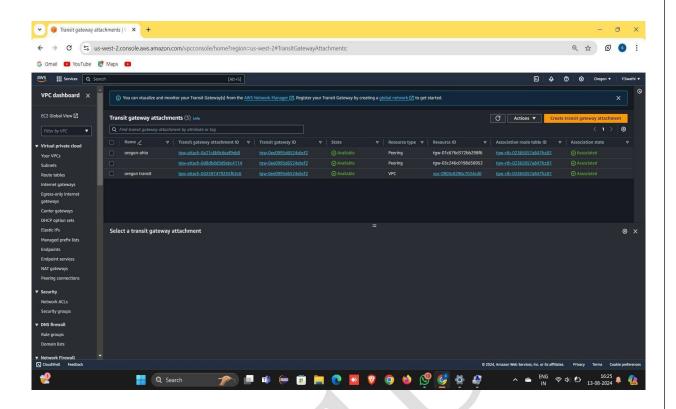
- 3. After sending a request from one region to another region, you must accept the transit gateway attachment request then only it will be available.
- 4. some snapshots attached below.





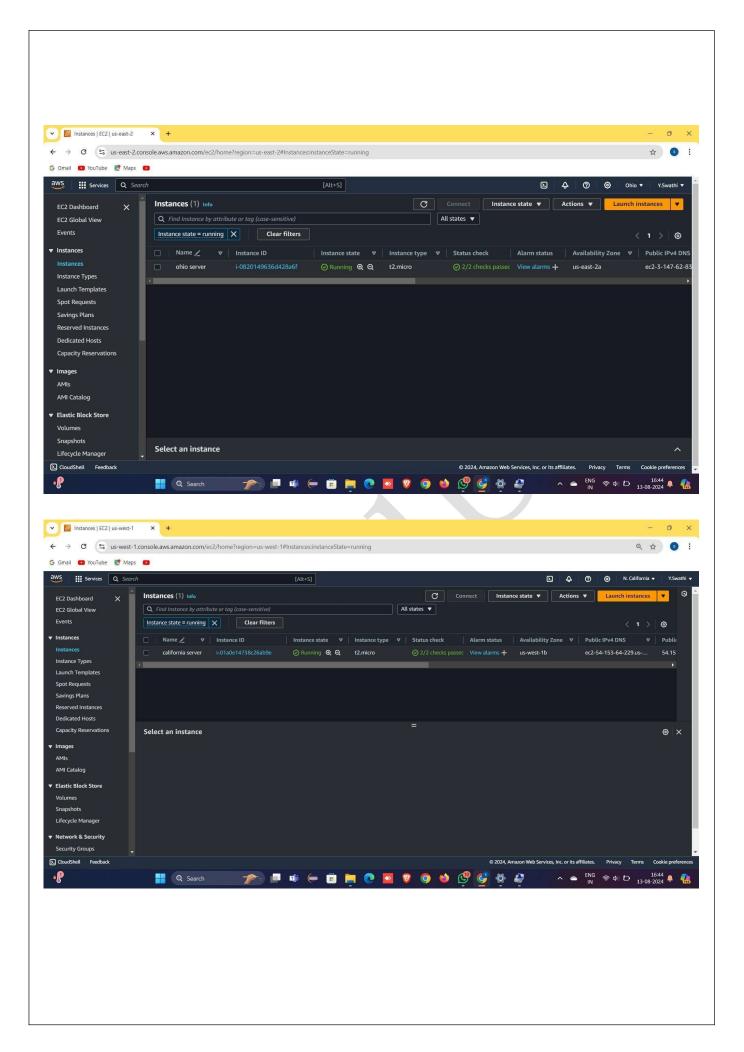
5. Below snapshots shows that transit gateway attachment from region – region. i.e., Ohio-California, California-Oregon, Oregon-Ohio.

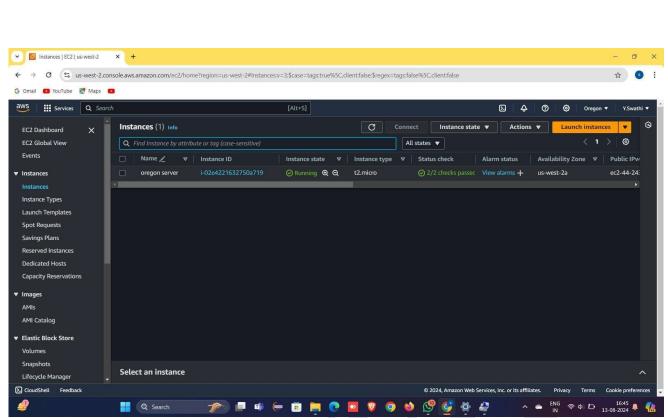




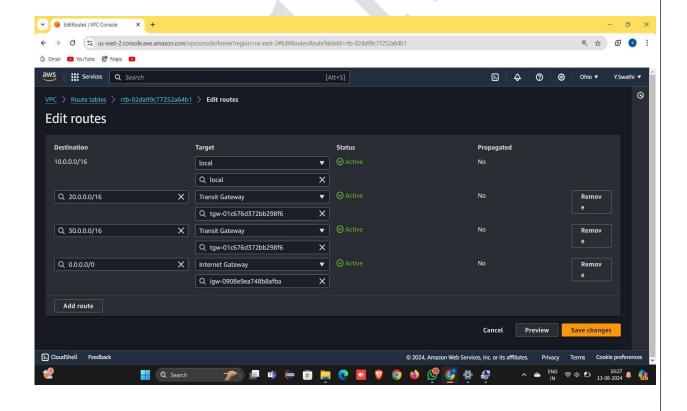
Create EC2 instance:

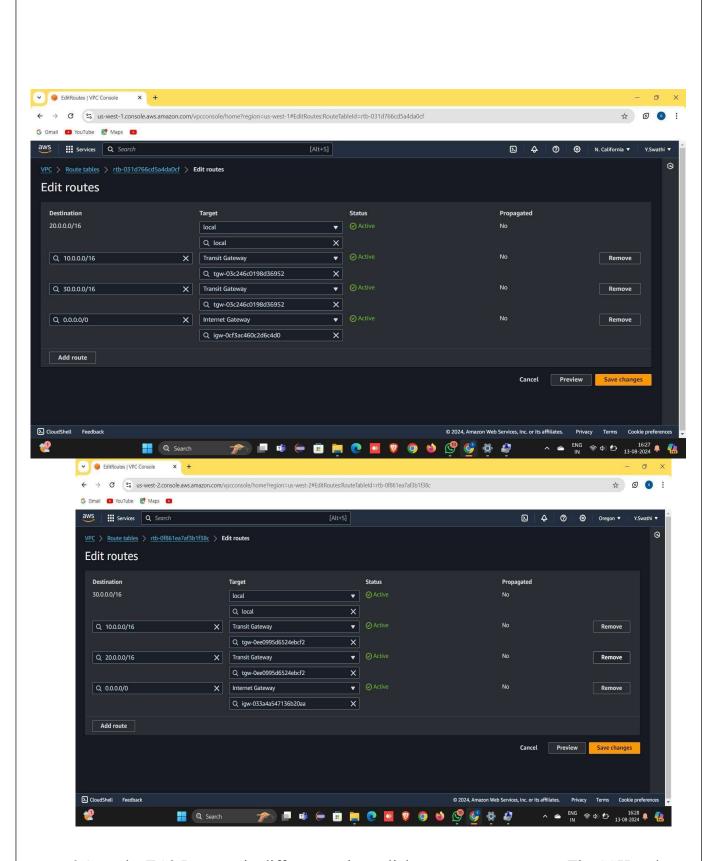
- 1. create three EC2 Instance for three VPCs.
- 2. Go to instance launch instance create key pair network(edit) select security group launch instance.
- 3. some EC2 snapshots are attached below.





- 4. After creating EC2 Instances, go to route tables & edit the routes &save changes.
- 5. Some snapshots of route tables are given below.





6.Goto the EC2 Instance in different regions click on connect - copy The SSH and paste it in git bash & connect.

7.Directly connect to the server through EC2 Instance.

OUTPUT:

