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?

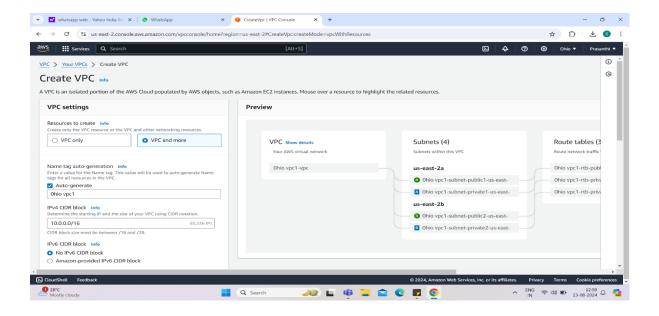
A transit gateway is a network transit hub that you can use to interconnect your virtual private clouds (VPCs) and on-premises networks. As your cloud infrastructure expands globally, interregion peering connects transit gateways together using the AWS global infrastructure.

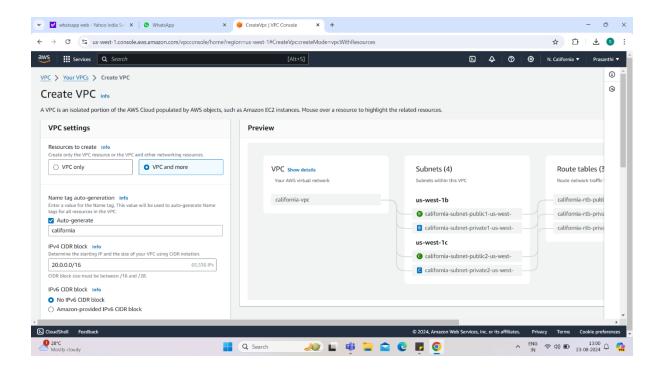
Create VPCs in THREE DIFFERENT REGIONS (Ohio California Oregon):

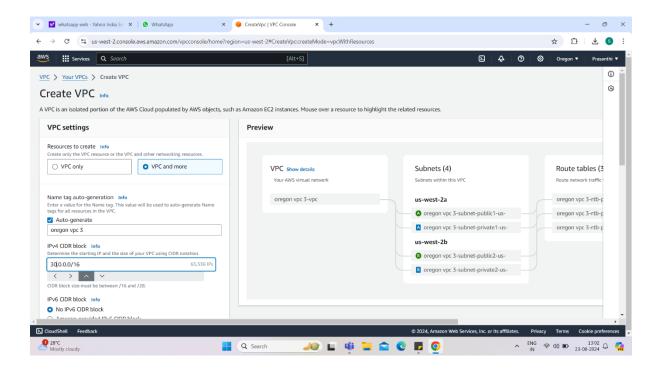
Regions: ohio, California, Oregon.

STEPS:

- 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.

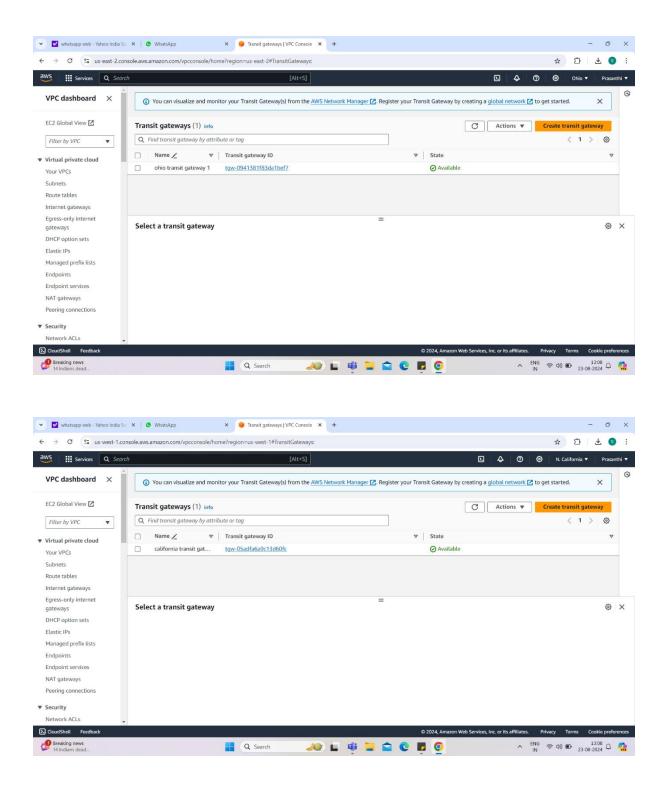


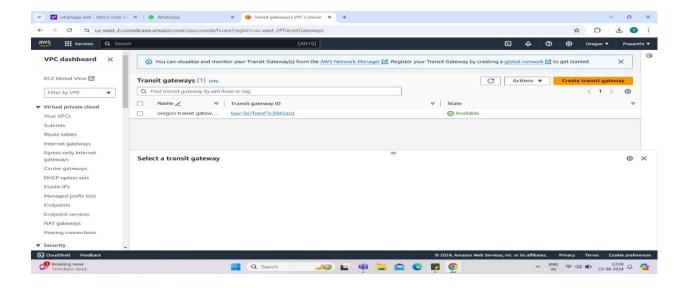




Create Transit Gateway in three regions:

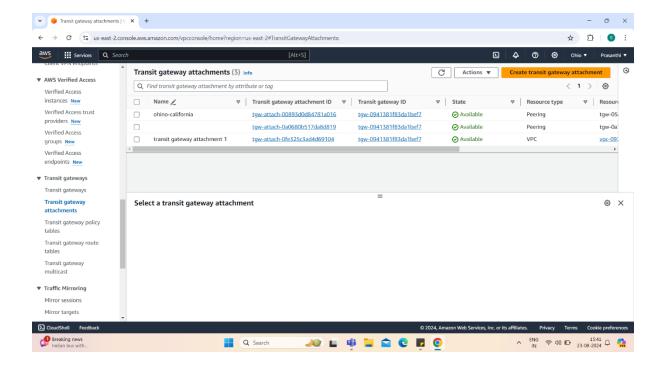
- 1. Go to transit gateway and select "Create Transit Gateway".
- 2. Now create transit gateway in another two regions also.
- 3. Snapshots of transit gateway are attached below.



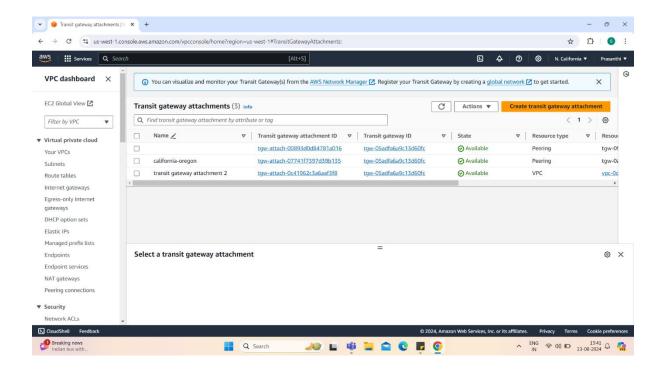


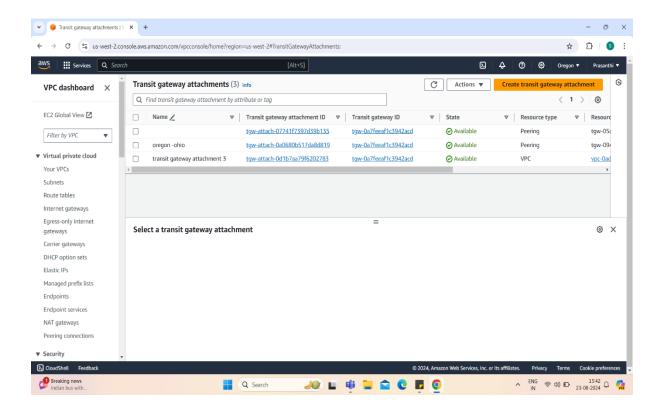
Create Transit Gateway Attachment in THREE Regions:

- 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.



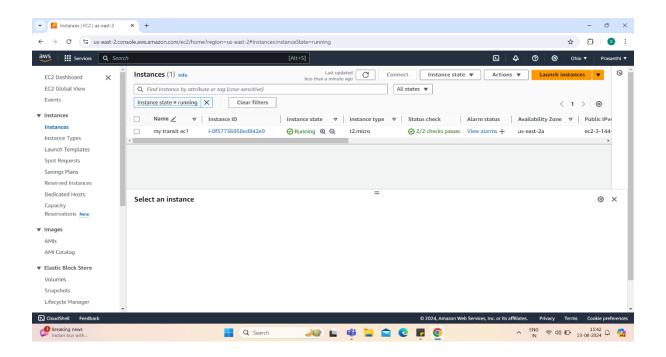
5. Below snapshots shows that transit gateway attachment from region – region. i.e., Ohio-California, California-Oregon, Oregon-Ohio.

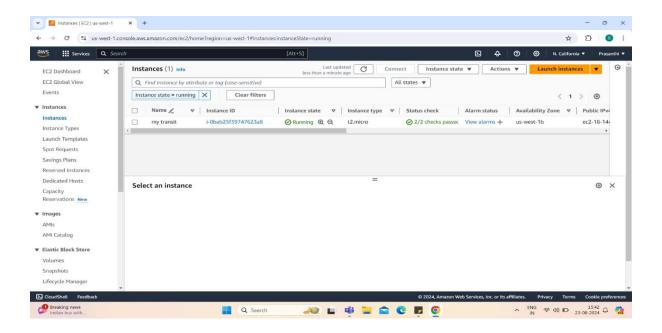


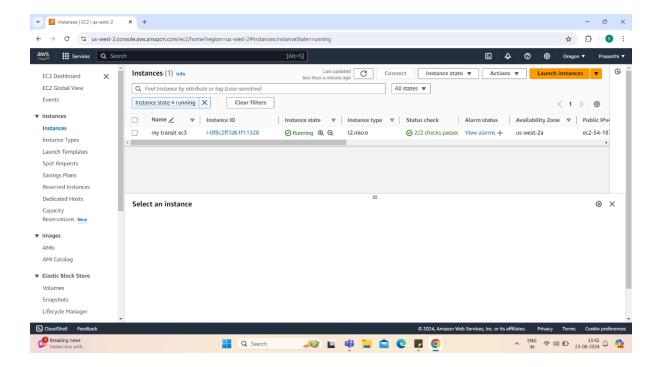


Create EC2 instance:

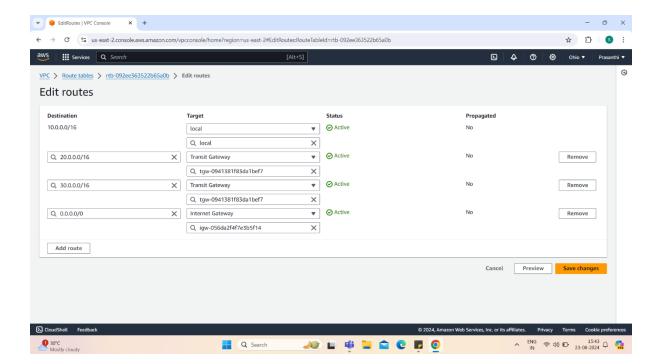
- 1. create three EC2 Instance for three VPCs.
- 2. Go to instance launch instance create key pair—network(edit)—select security group launch instance.
- 3. some EC2 snapshots are attached below.

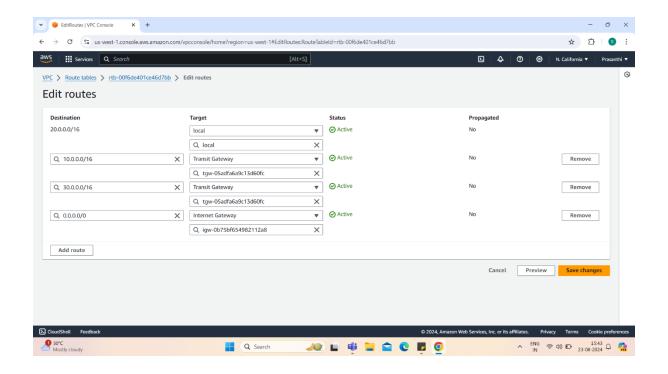


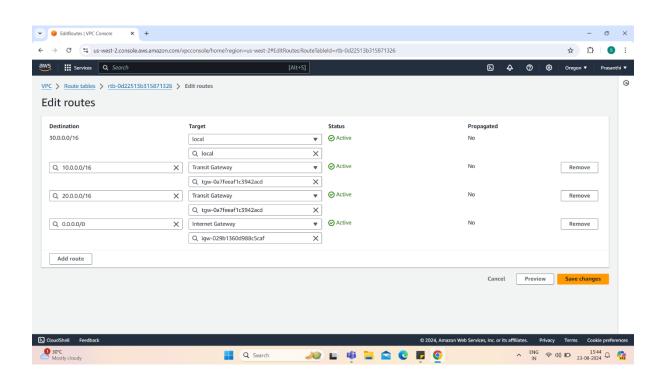




- 4. After creating EC2 Instances, go to route tables & edit the routes &save changes.
- 5. Some snapshots of route tables are given below.







- 6. Goto the EC2 Instance click on connect copy The SSH and paste it in git bash & connect.
- 7. Directly connect to the server through EC2 Instance.

OUTPUT:

