

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 have defined. This virtual network resembles a traditional network that you would 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 VPCs and on premises networks. As your cloud infrastructure expands globally, inter region peering connects transit gateways together using the AWS global infrastructure.

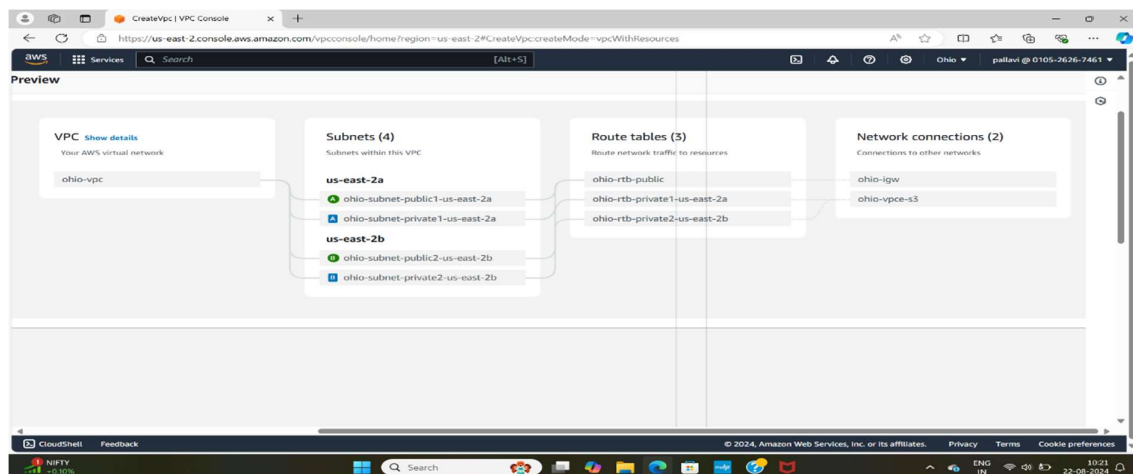
CREATE VPCs in THREE DIFFERENT REGIONS:

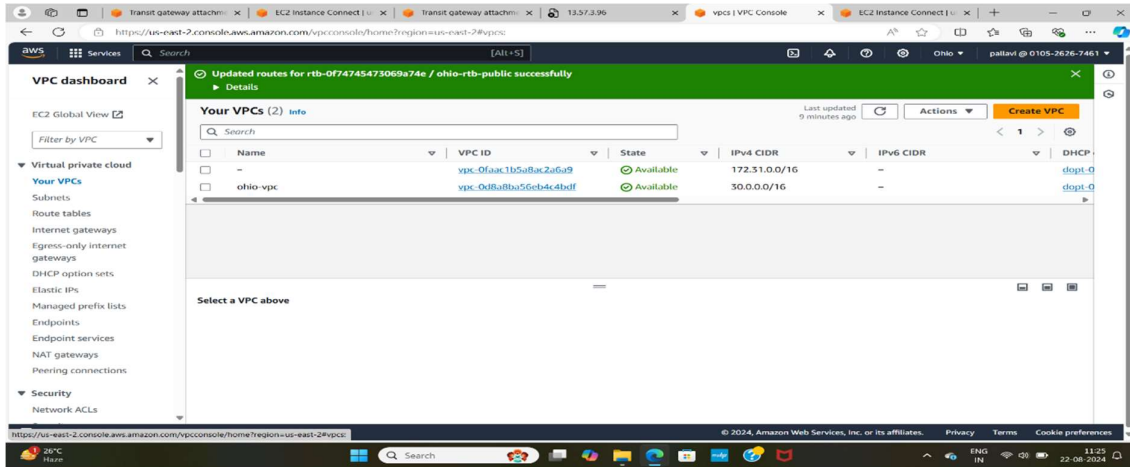
- Ohio
- California
- Oregon.

STEPS:

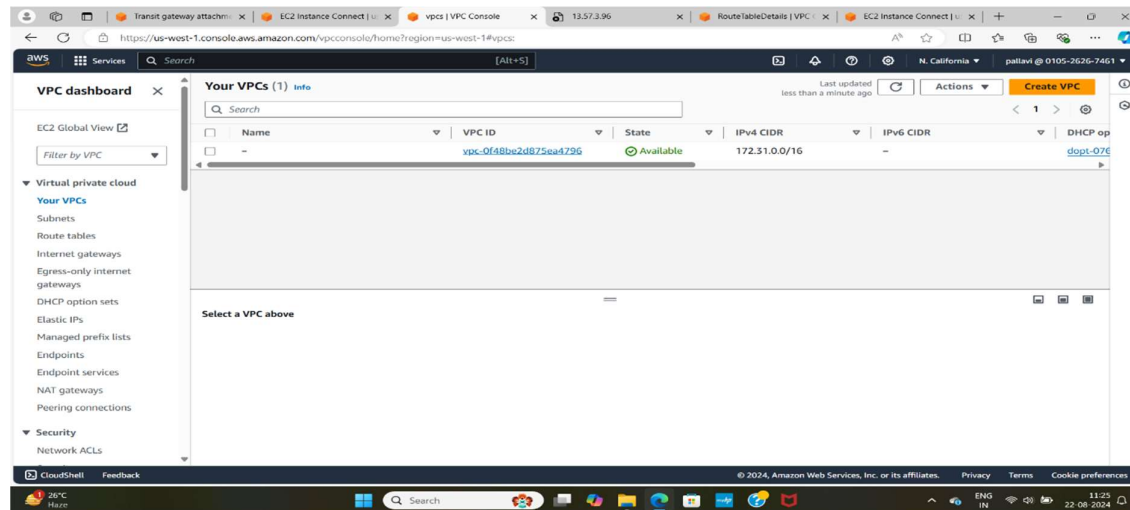
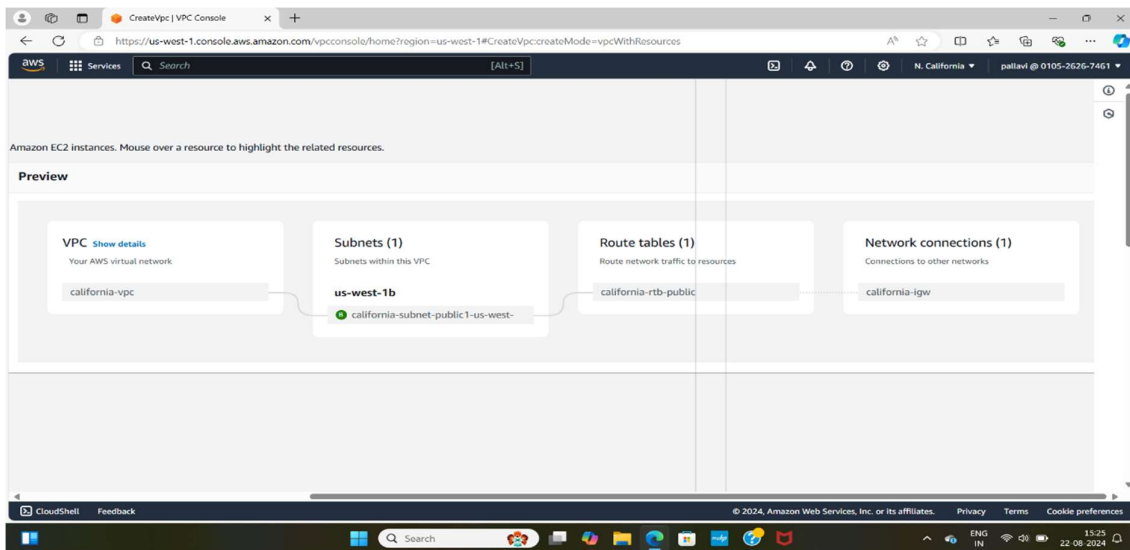
1. Login to AWS Account & Select the regions (Ohio ,California , Oregon).
2. Choose the Ohio region, Click on Create VPC, Select VPC and more and create VPC.
3. Do the same process after selecting the California & Oregon Regions.

OHIO:

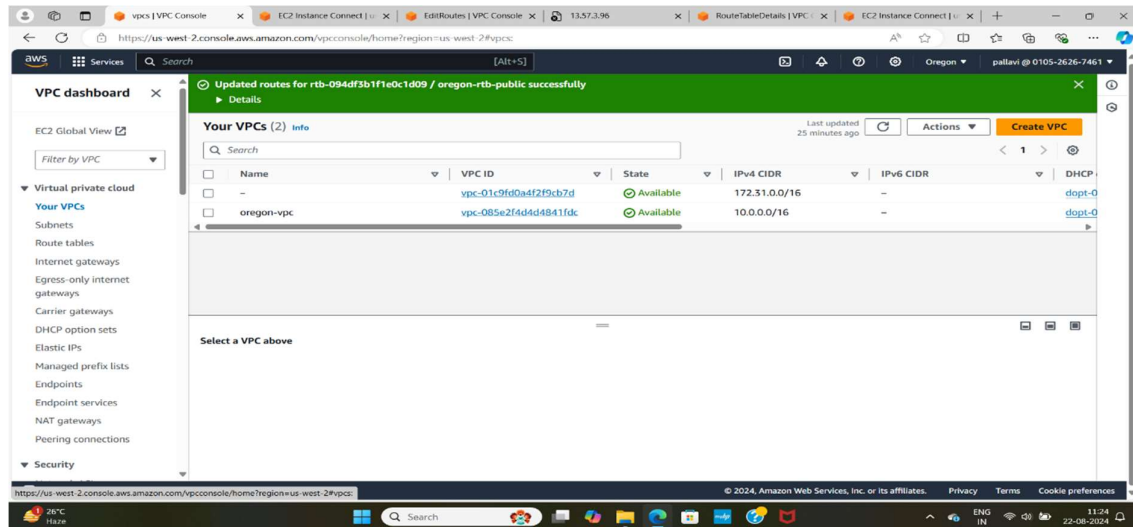
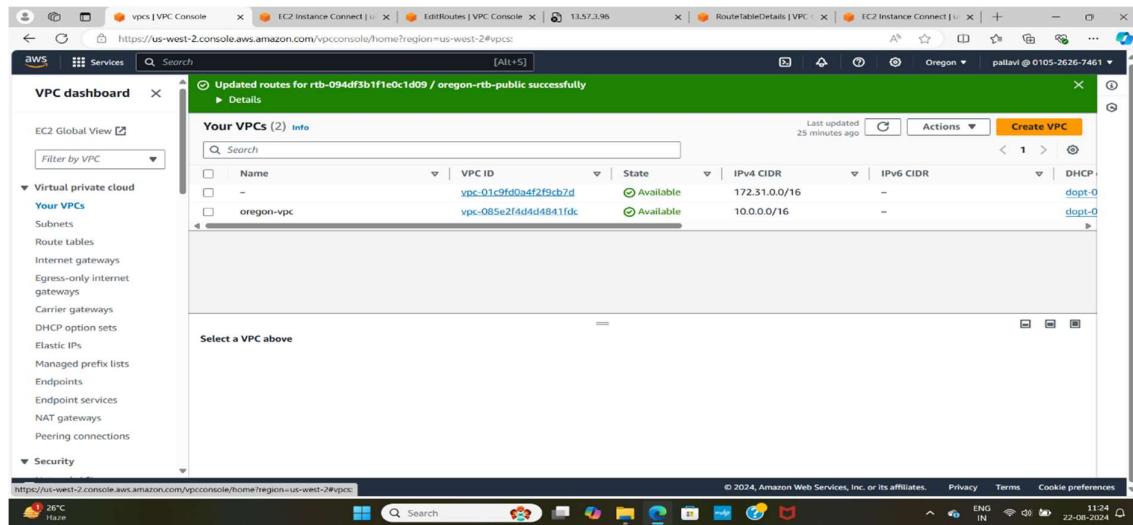




CALIFORNIA:



OREGON:

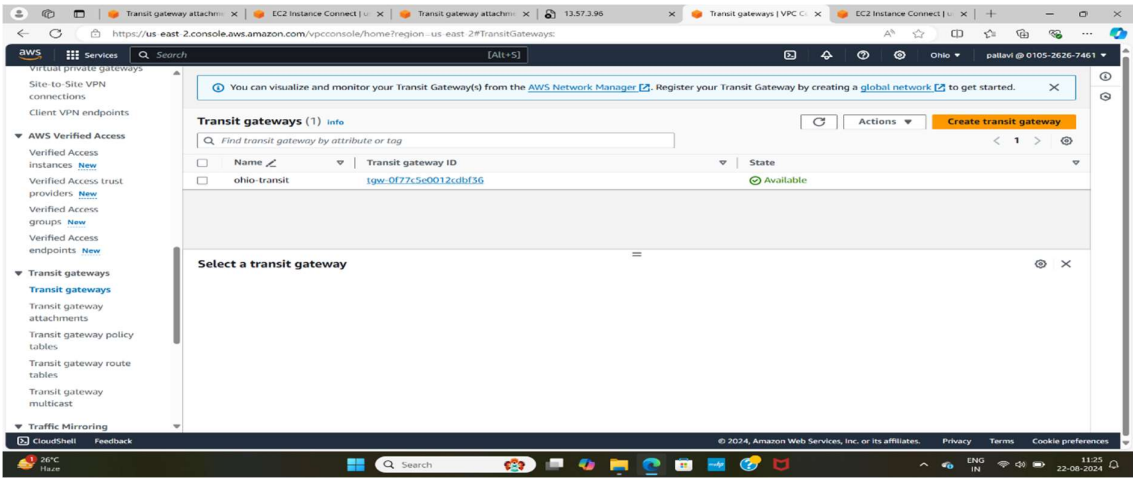


4. Create EC2 instances for 3 regions.

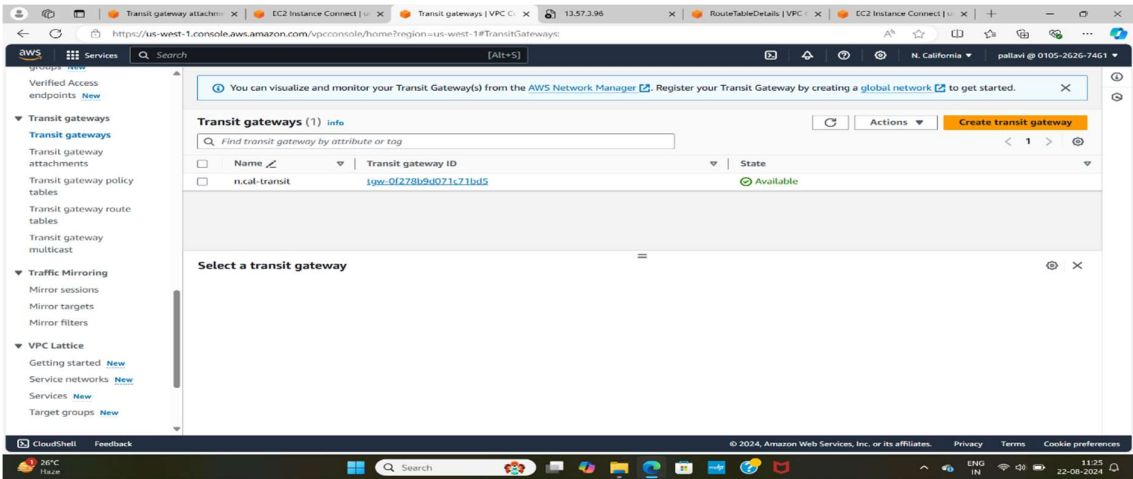
- Launch instance – create key pair - create security group - add security group rule - launch instance

5. Create Transit Gateway for all three regions.

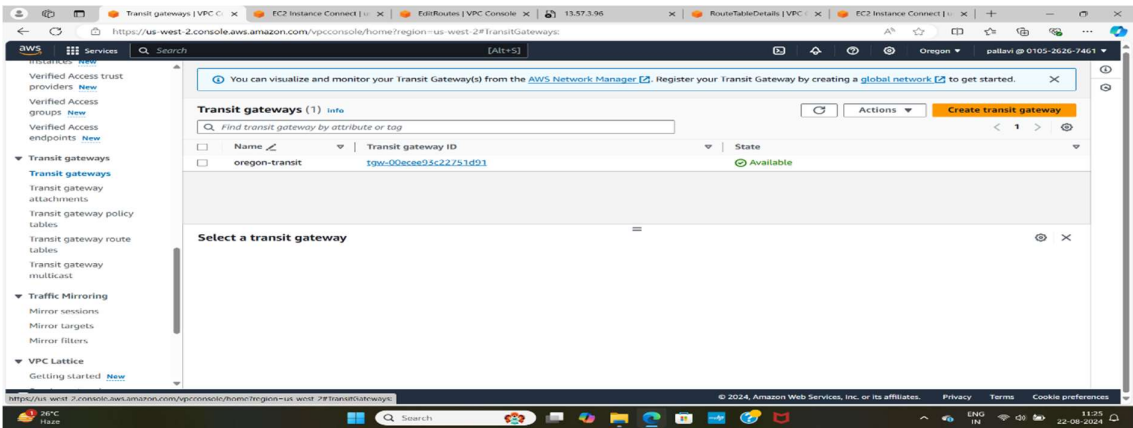
OHIO:



CALIFORNIA:



OREGON:



6. Create 2 transit gateway attachments for each region.

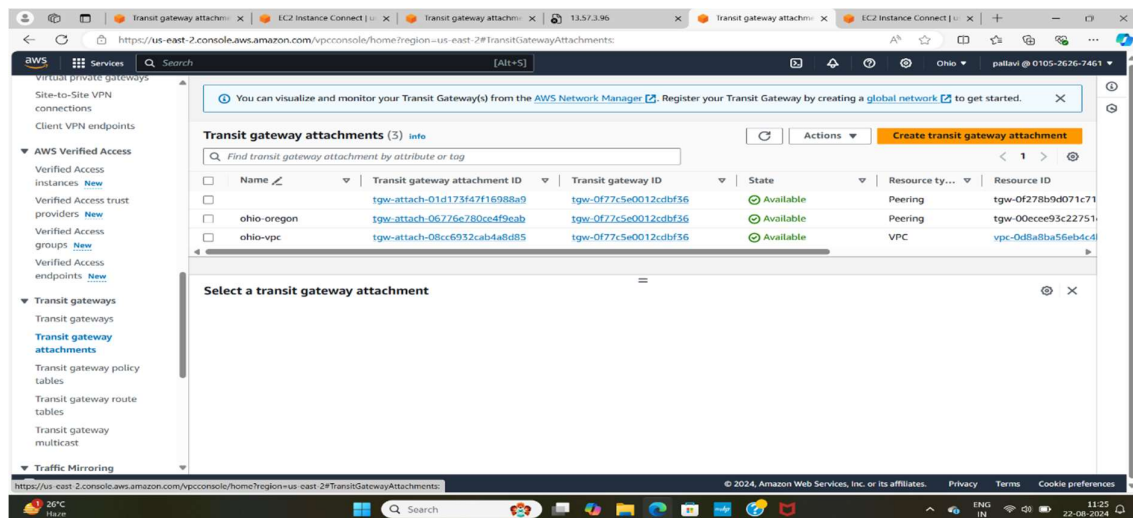
- One for vpc
- Other one for peering connection →

VPC and Peering Connections between the regions:

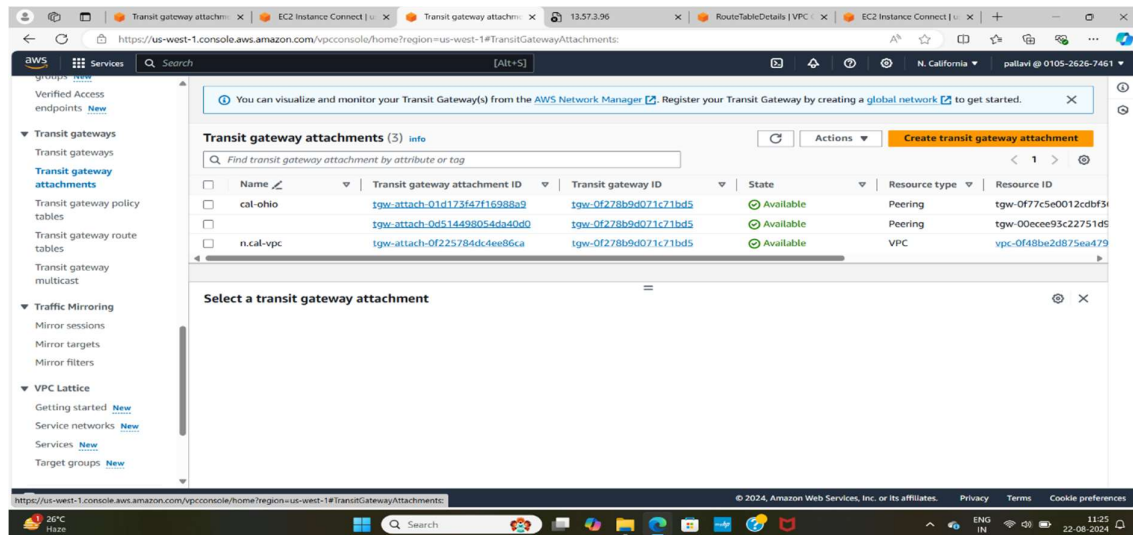
- Ohio – California
- California – Oregon
- Oregon – Ohio

At all regions status should be in available state.

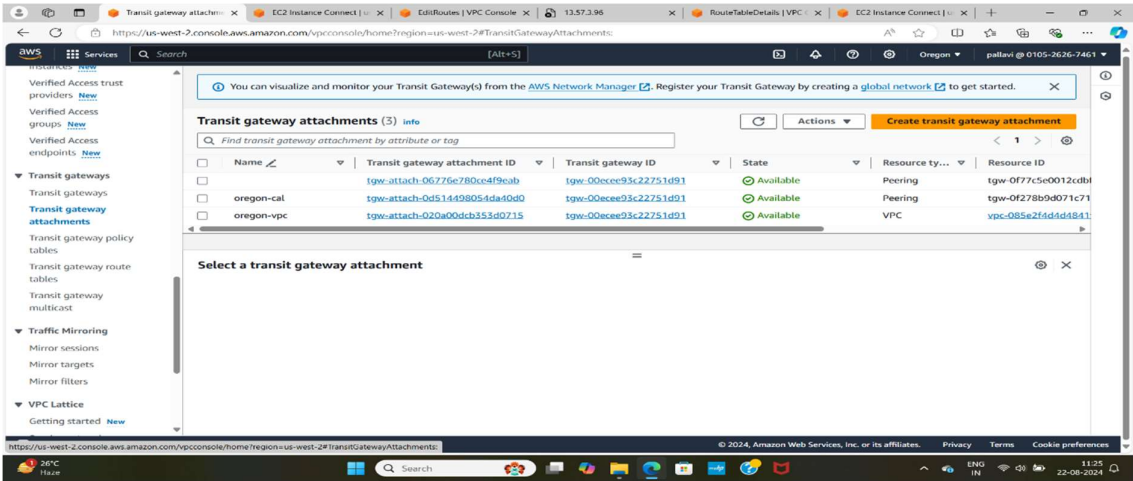
OHIO:



CALIFORNIA:

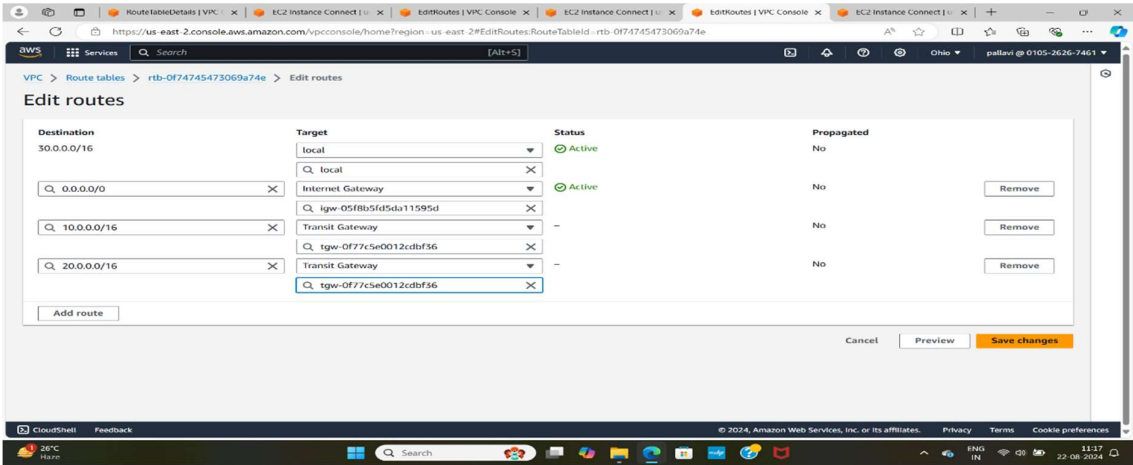


OREGON :

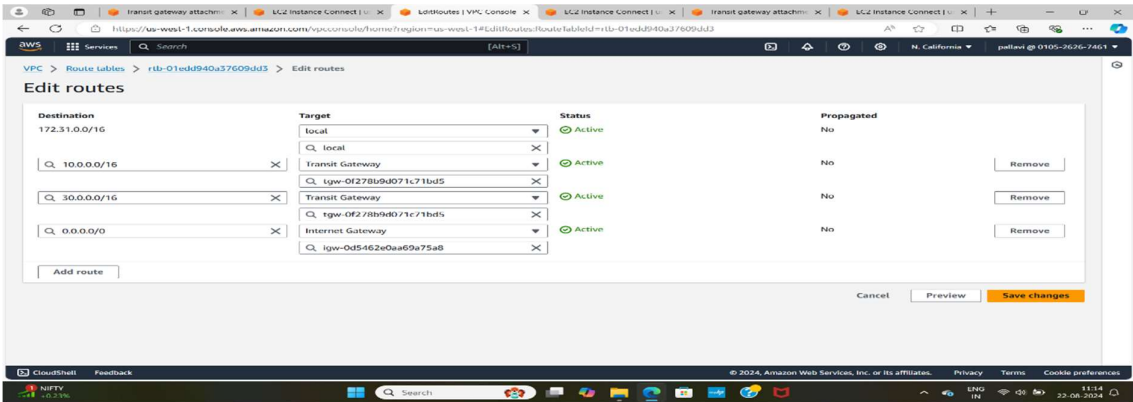


7. Go to route tables & edit the routes & save changes.

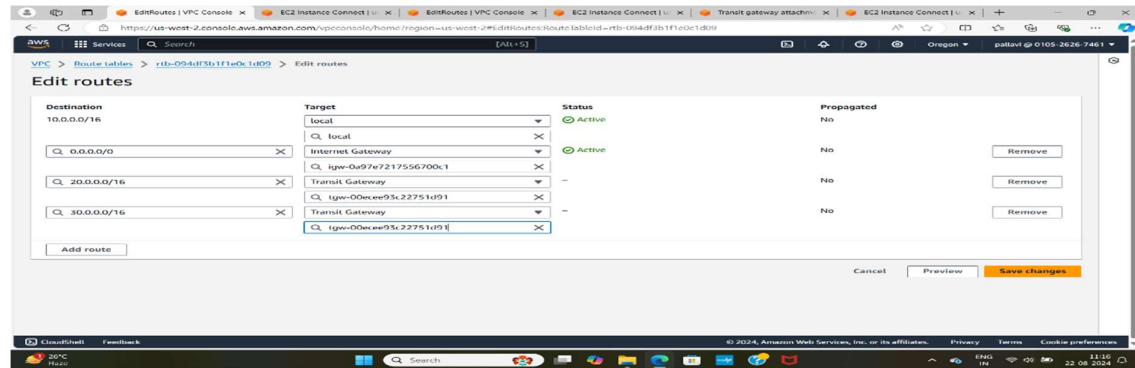
OHIO :



CALIFORNIA:

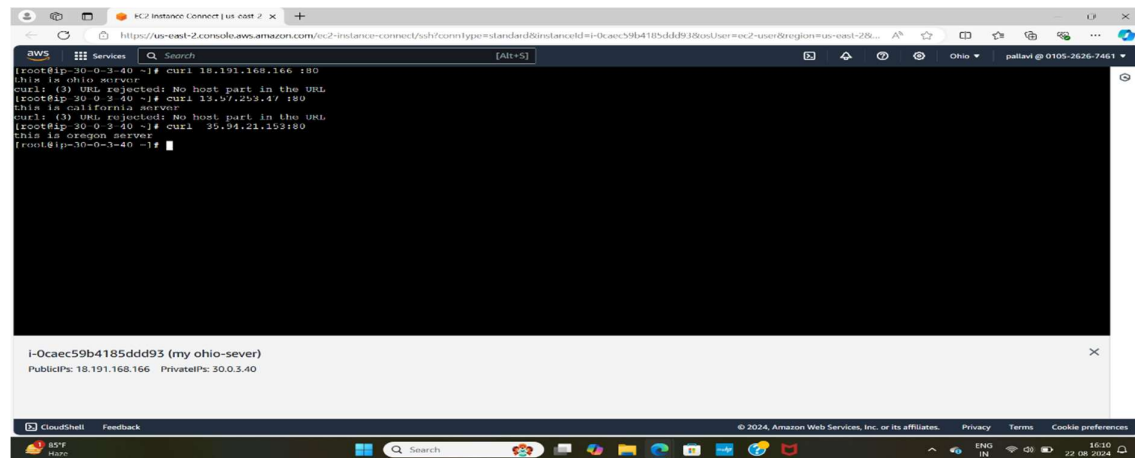


OREGON:

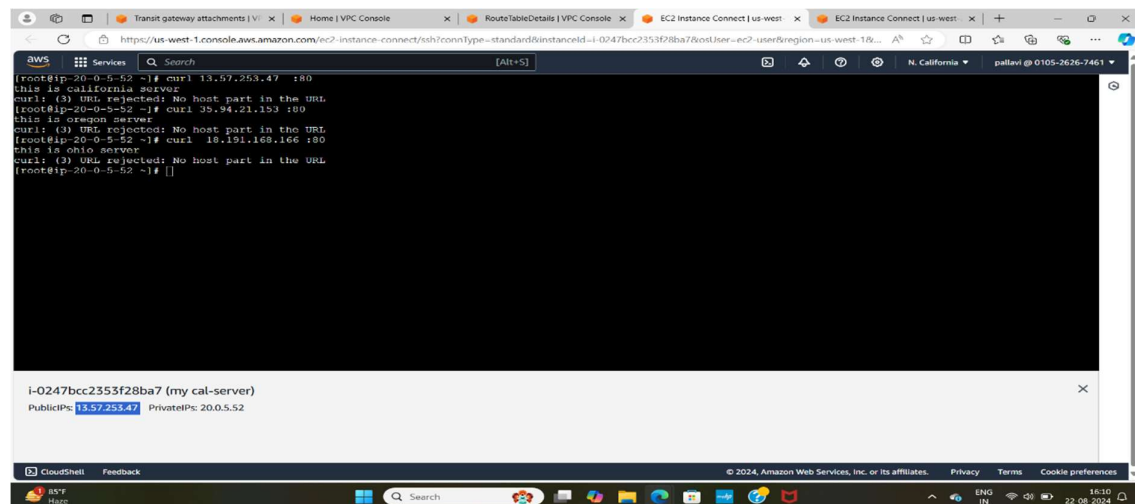


8. Go to EC2 instance and connect the server git bash in all three regions.

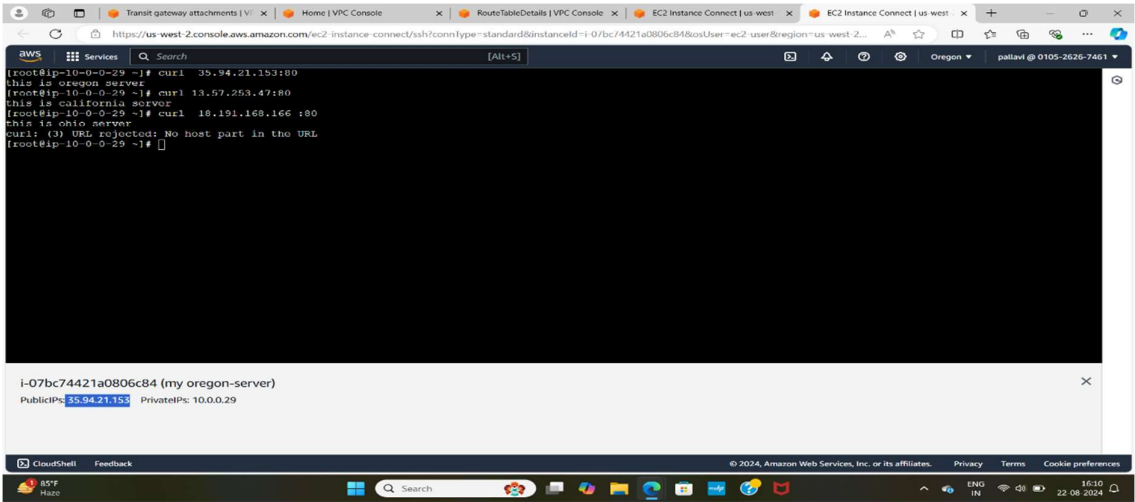
OHIO:



CALIFORNIA:



OREGON:



THE END