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TRAINER: Mr. Madhukar

#### **ASSIGNMENT – 2**

### 1. Create transit gateway in two different accounts?

Transit Gateway is a service that facilitates connectivity between two and more Virtual Private Clouds (vpc) in same or different regions or different accounts.

Create transit gateway in two different accounts we need to follow several steps in both different accounts:

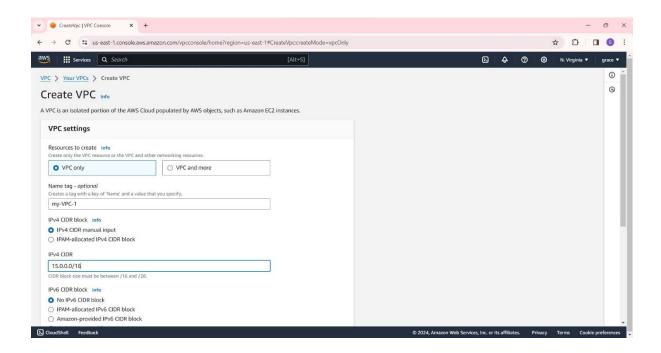
- 1. Create VPC.
- 2. Create subnet and internet gateway.
- 3. Create route tables and associate their subnets.
- 4. Create transit gateway and their attachments.
- 5. Create static route in transit gateway route table.
- 6. Launch EC2 instance.

Step 1: In first account in California region, second account in Virginia.

**Step 2:** Create VPC in California and Virginia.

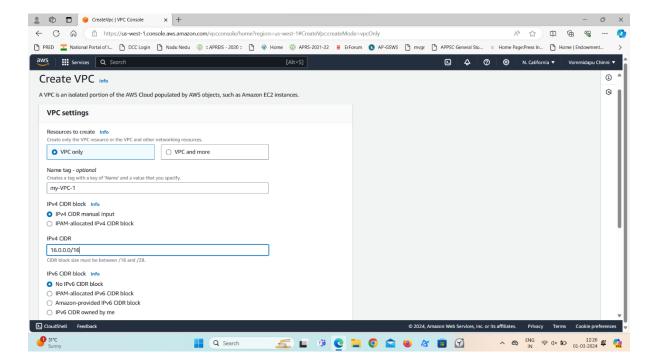
- 1. Search VPC, open VPC dash board.
- 2. Click on create VPC.
- 3. Give name and IPV4 CIDR as 15.0.0.0/16.
- 4. Create VPC.

#### ❖ VPC in California:



# ❖ VPC in Virginia:

Give IPV4 CIDR as 16.0.0.0/16.

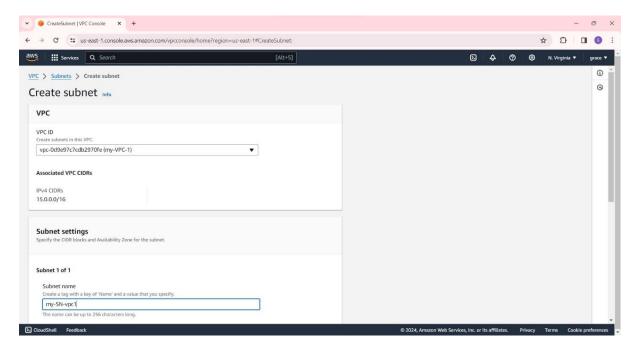


# Step 3: Create subnet

In VPC dashboard click on subnet.

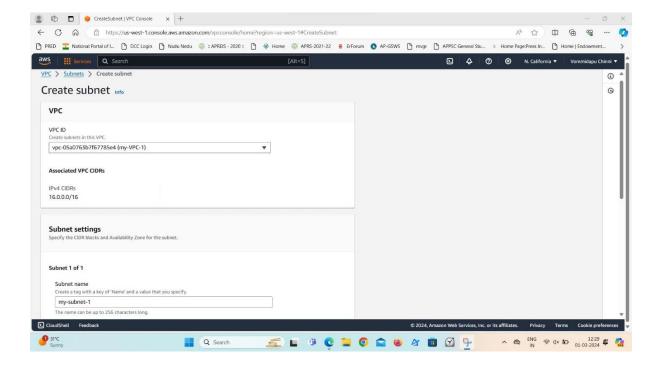
Select VPC ID and name the subnet and give IP as 15.0.0.0/24

❖ Subnet in California:



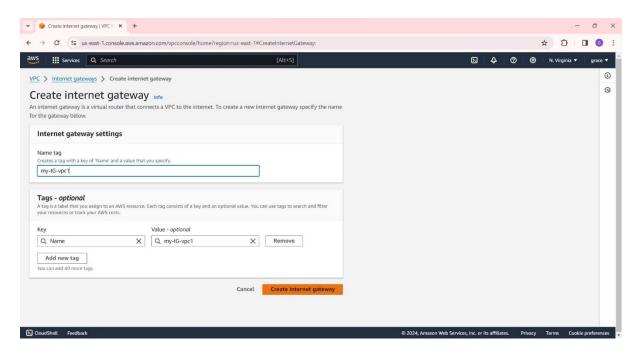
❖ Subnet in Virginia:

Subnet IP as 16.0.0.0/24.

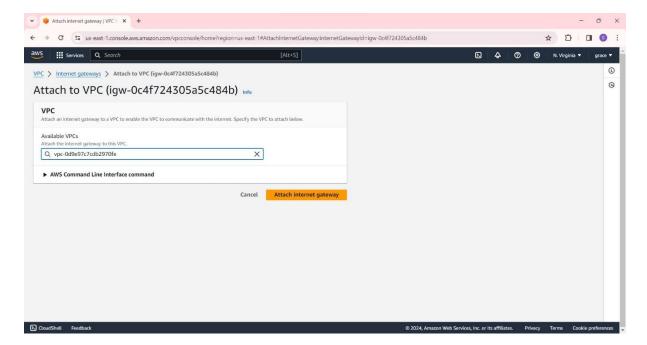


# Step 4: Create Internet Gateway and attach to VPC's.

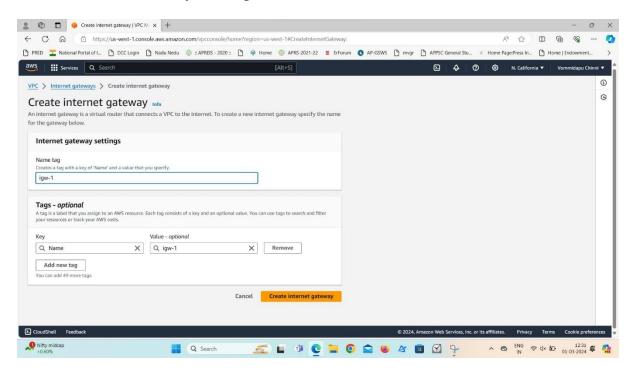
❖ Internet Gateway in California.



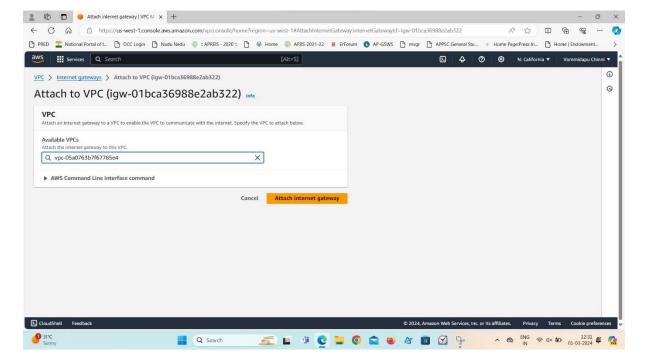
This internet gateway attach to the respected VPC.



Internet Gateway in Virginia.

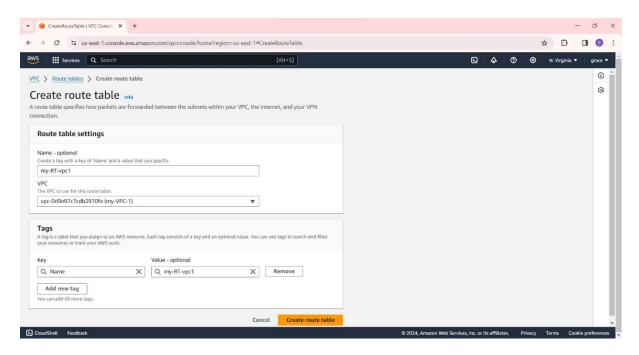


This internet gateway attached to the respected VPC.

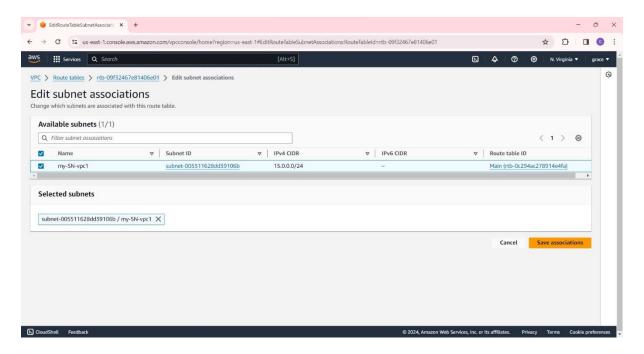


**Step 5:** Create route tables and give subnet association to respected routes.

\* Route table in Virginia.

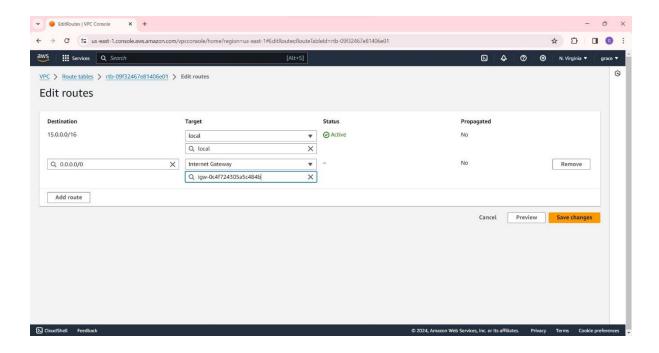


Subnet association

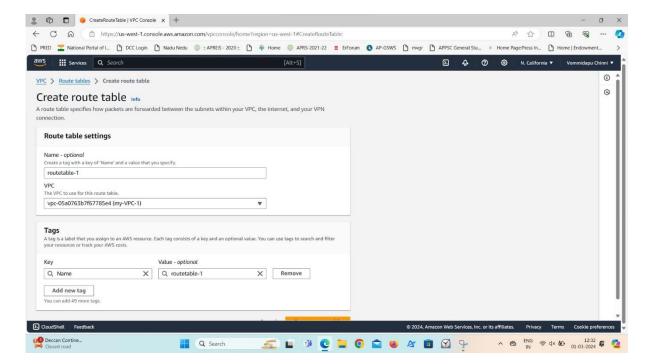


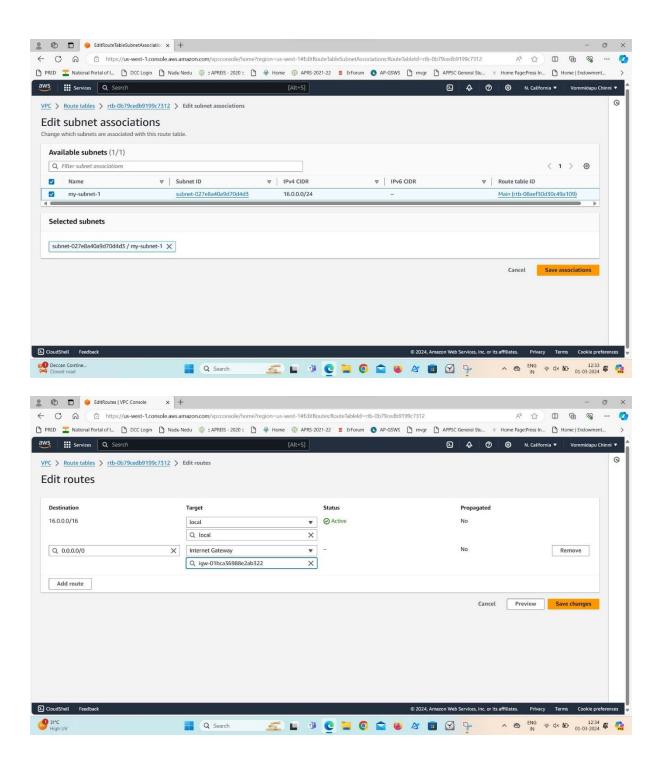
Add internet gate way to the route table.

Actions  $\rightarrow$  edit routes  $\rightarrow$  add route  $\rightarrow$  internet gateway  $\rightarrow$  select the created igw  $\rightarrow$  give all traffic  $(0.0.0.0/0) \rightarrow$  save changes.



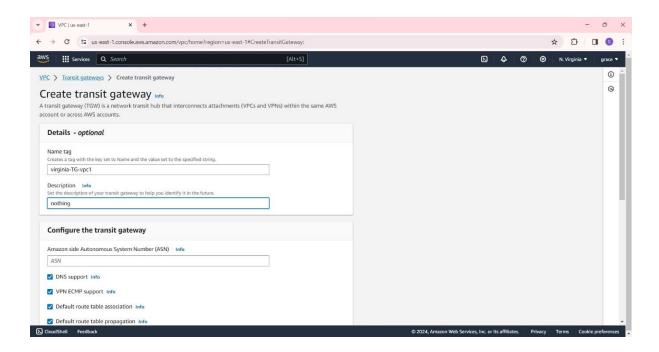
\* Route table in California.



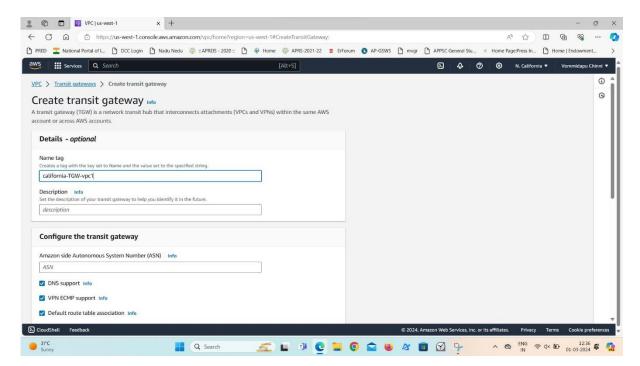


**Step 6:** Create transit gateway.

❖ Transit gateway in Virginia.

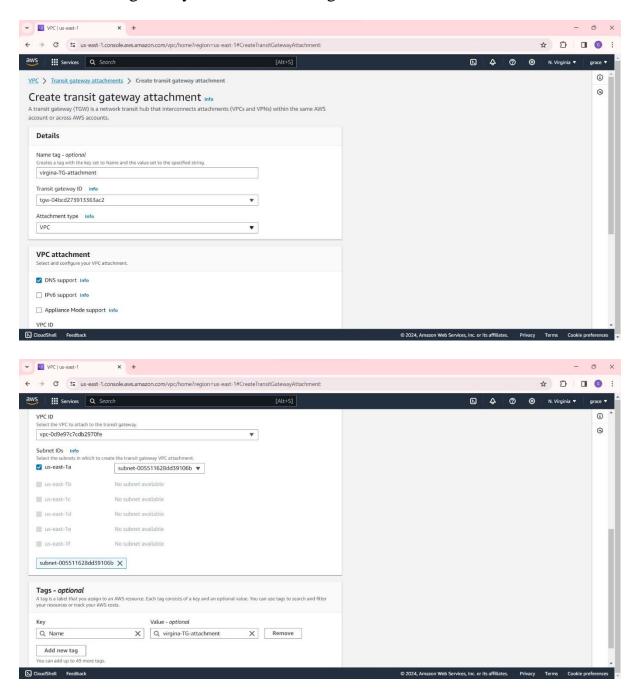


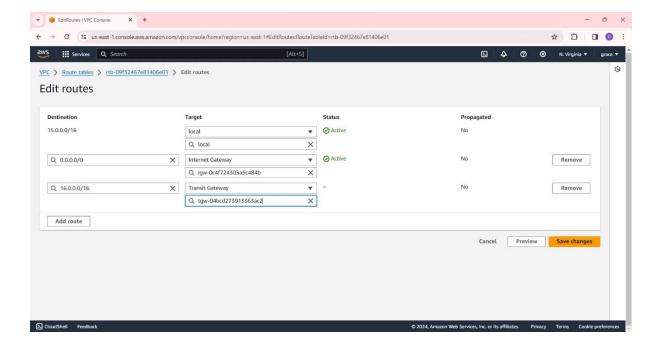
❖ Transit gateway in California.



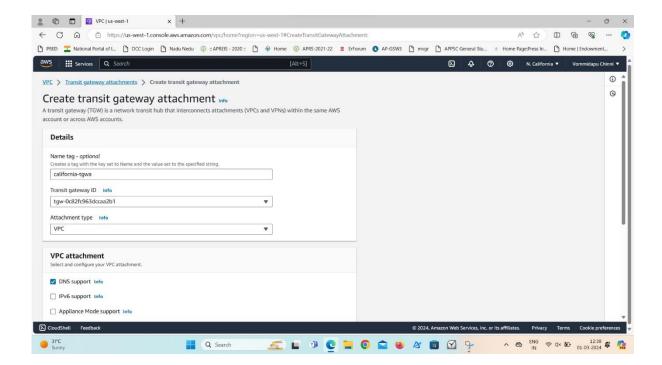
# Step 7: Create transit gateway attachment.

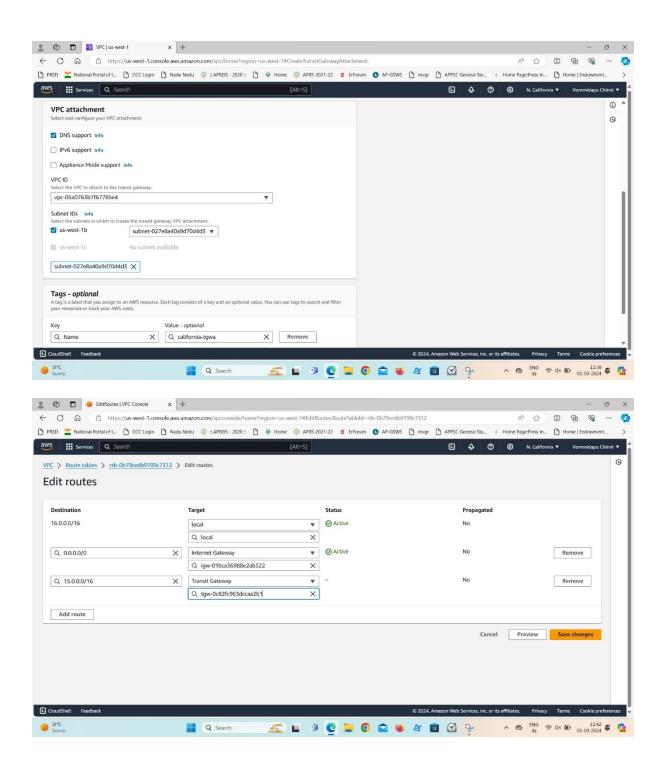
❖ Transit gateway attachment in Virginia.





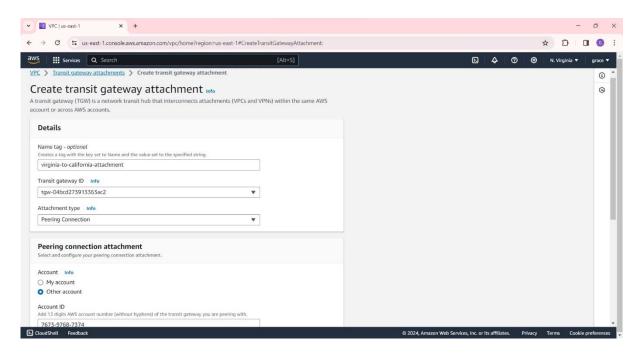
❖ Transit gateway attachment in California.

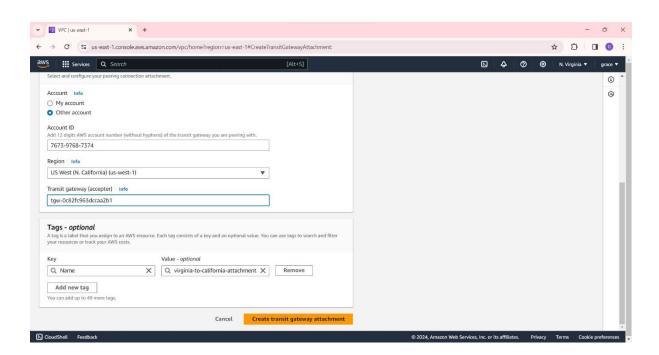




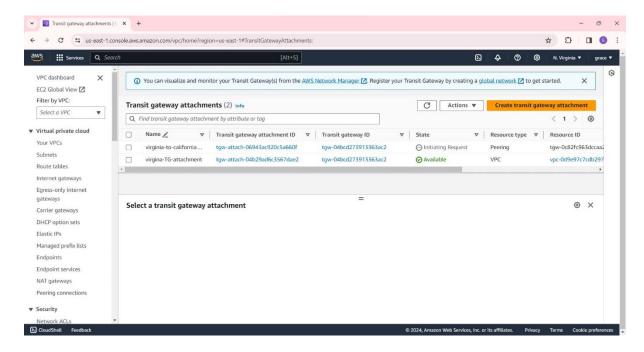
# Step 8: Create transit gateway attachment for peering connection.

Creating transit gateway attachment for connecting two different accounts.

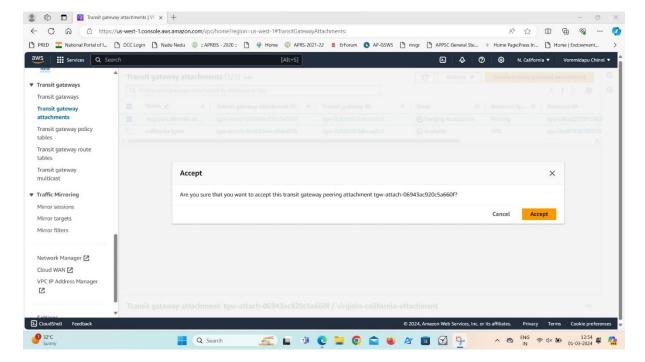


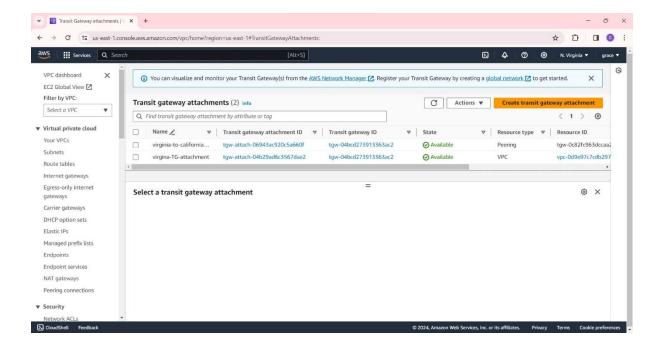


❖ Initiating request in account 1 in Virginia.



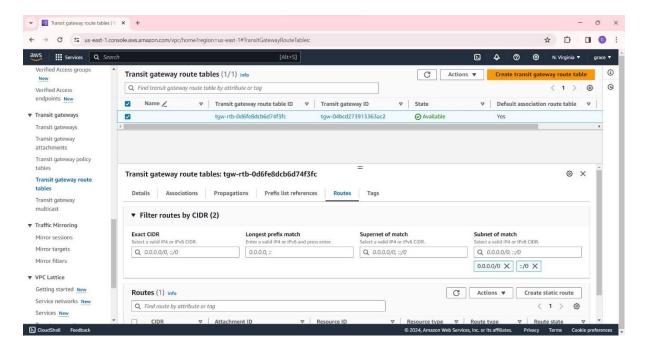
Accepting request in account 2 calofornia.

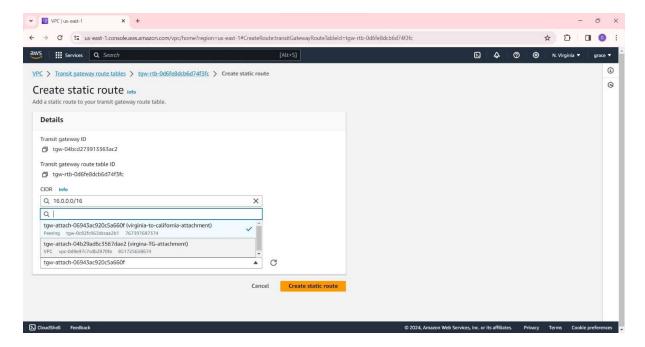




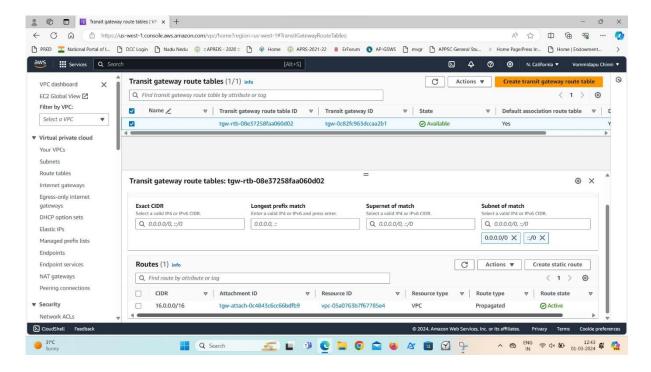
**Step 9:** Create static route table in transit gateway route table.

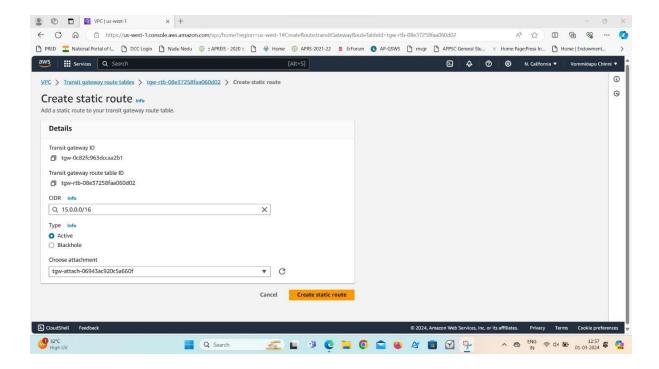
❖ Static route table in Virginia.





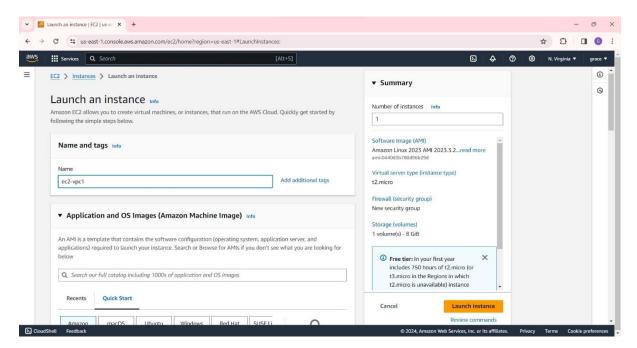
**Static route table in California.** 



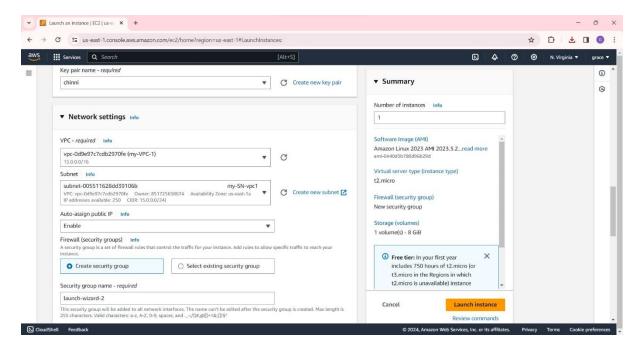


### Step 10: Launch instance.

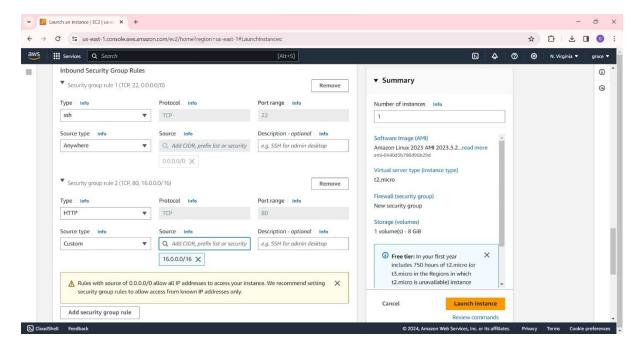
❖ Launching an instance in Virginia.



#### Select respected VPC and subnet.

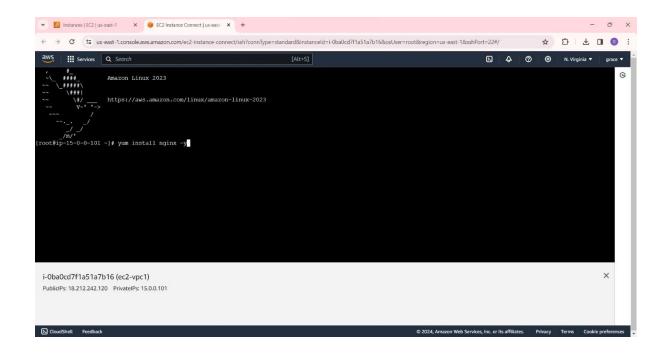


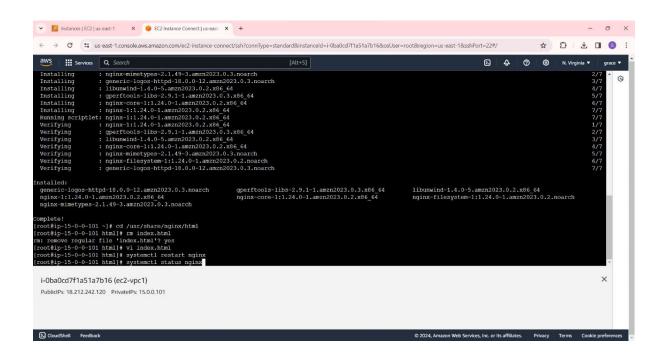
Give inbound security group rules.

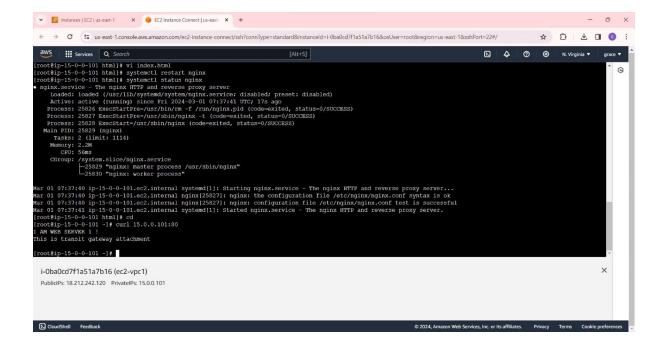


Launch instance.

Connect to the server.







❖ Launching an instance in California.

