

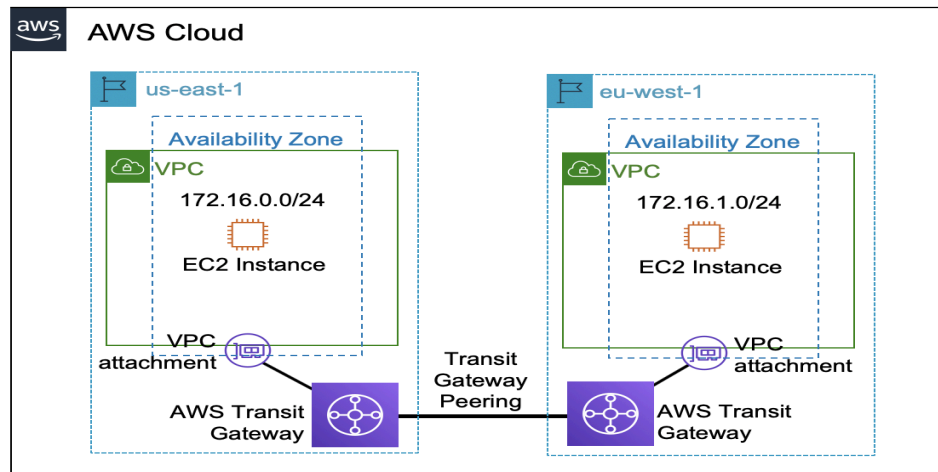
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## TRANSIT GATEWAYS:

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. All network traffic between AWS data centers is automatically encrypted at the physical layer.

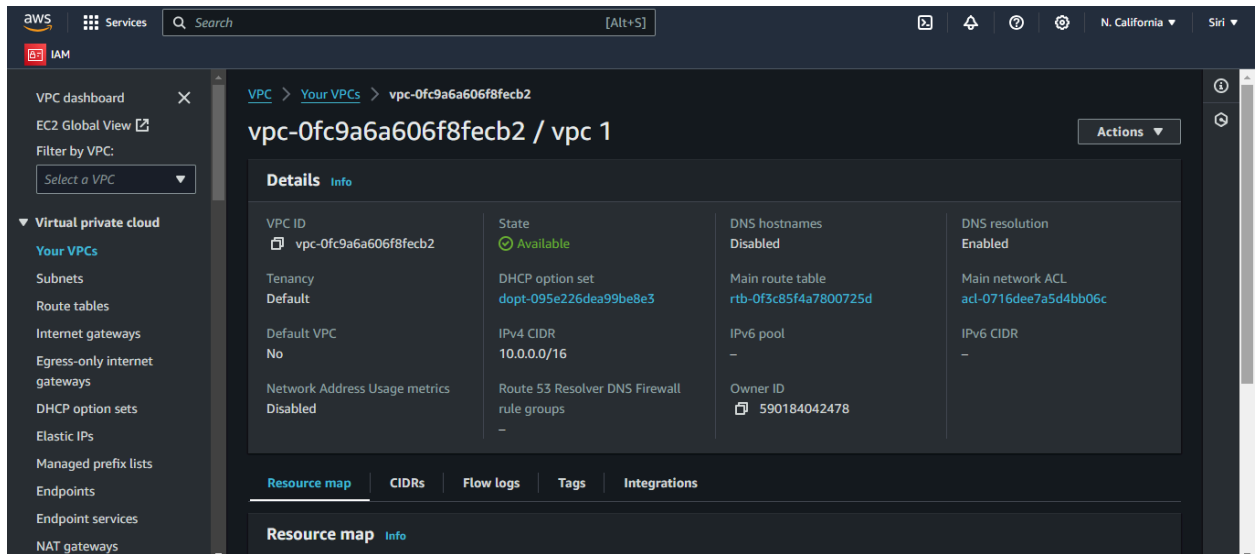


### Process of peering to transit gateways in two different regions:

#### 1. Create a vpc :

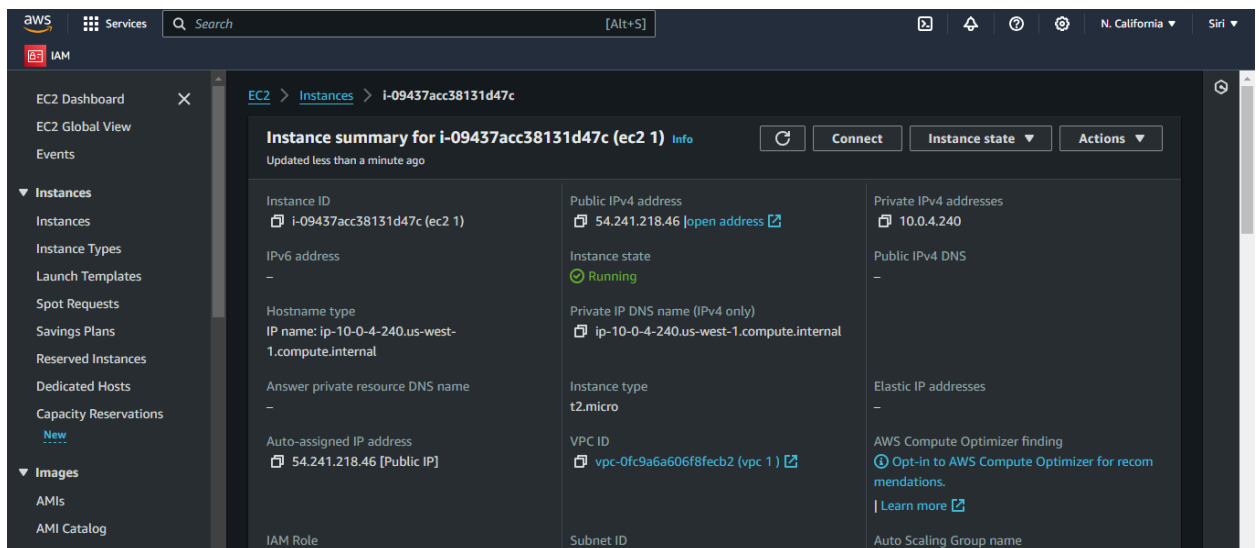
- Create vpc in any region here I have taken California. Create vpc along with subnets internet gateway, route tables.
- Here its important to attach internet gateway to vpc and then edit routes and add internet gateway

- In the route tables we find subnet associations add subnet and save changes.

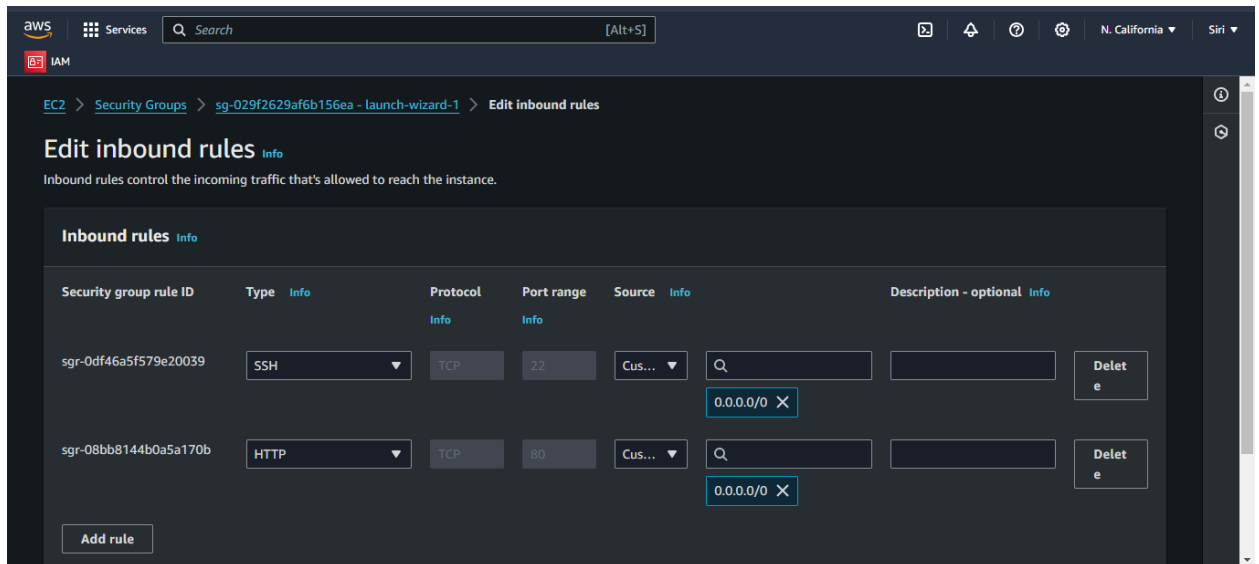


## 2.We need to launch an ec2 instance:

- Launch an ec2 instance with a key pair and edit the networks enable automatic ip address generate.

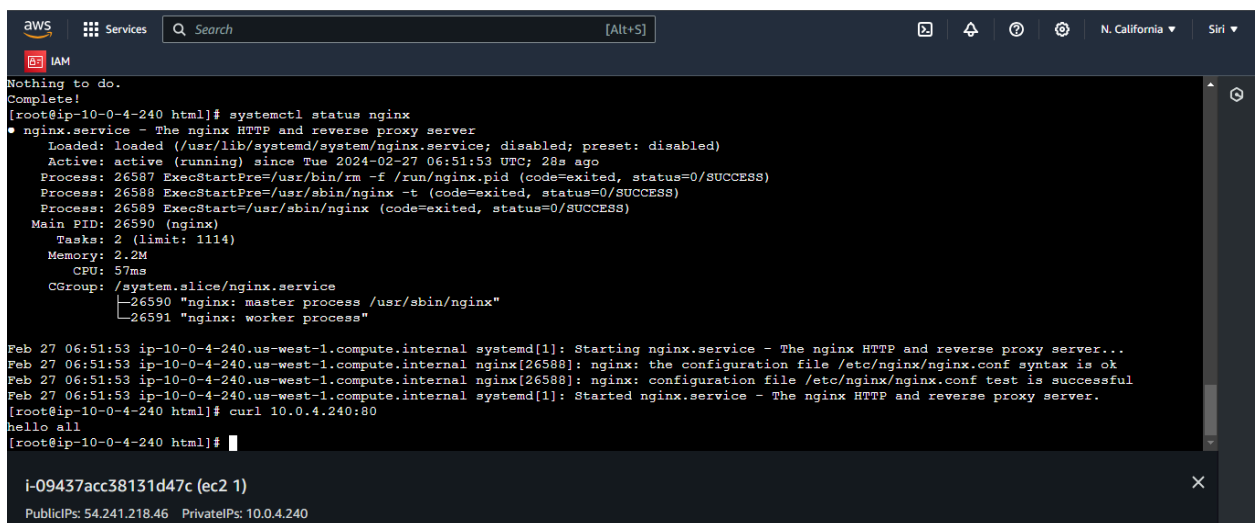


- Next edit the inbound rules. For that go to **instance>security >security groups>edit inbound rules**. There add rule change custom type to http.



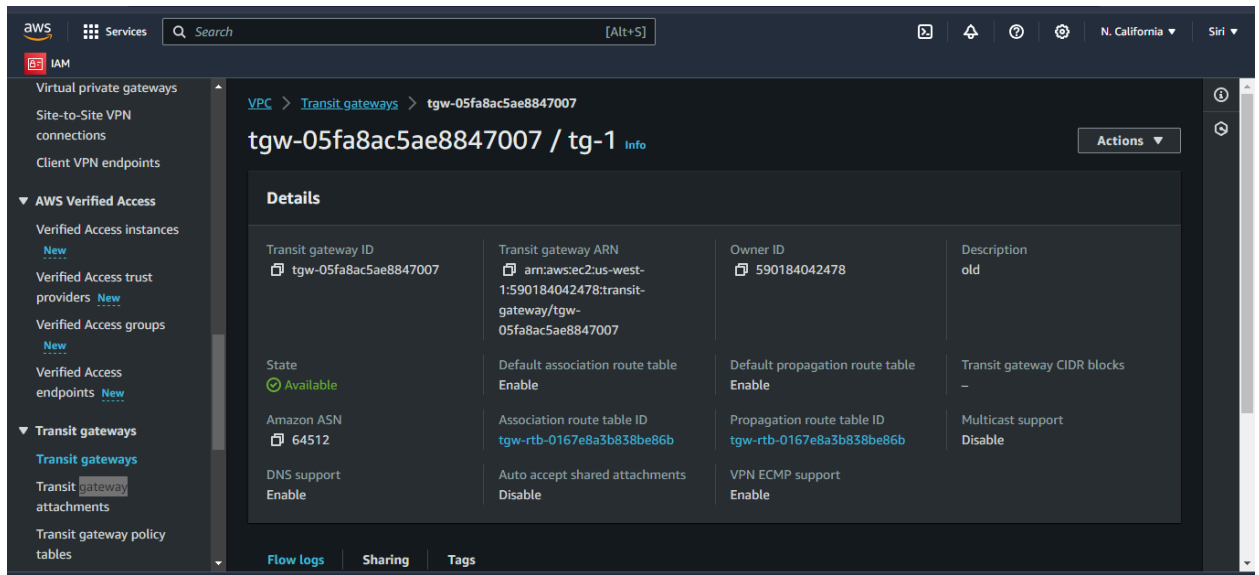
### 3. Connect to the web:

- This is done through opening **instance>connect**. And create some text like hello all.



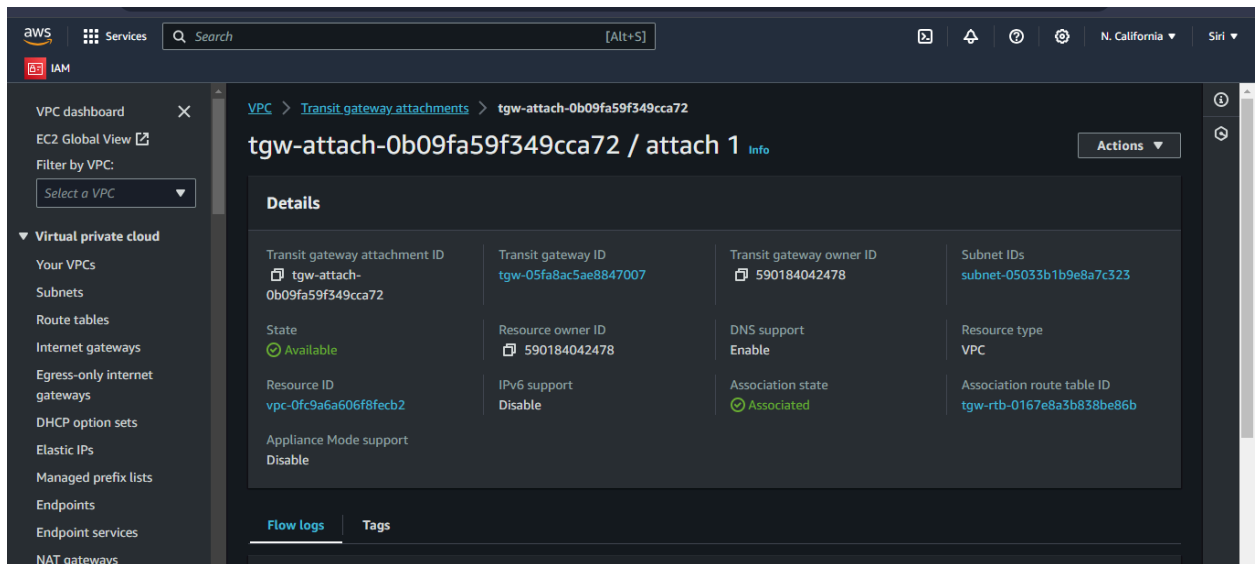
### 4. Create transit gateway

- This is done by `vpc>transit gateway>create transit gateway`.



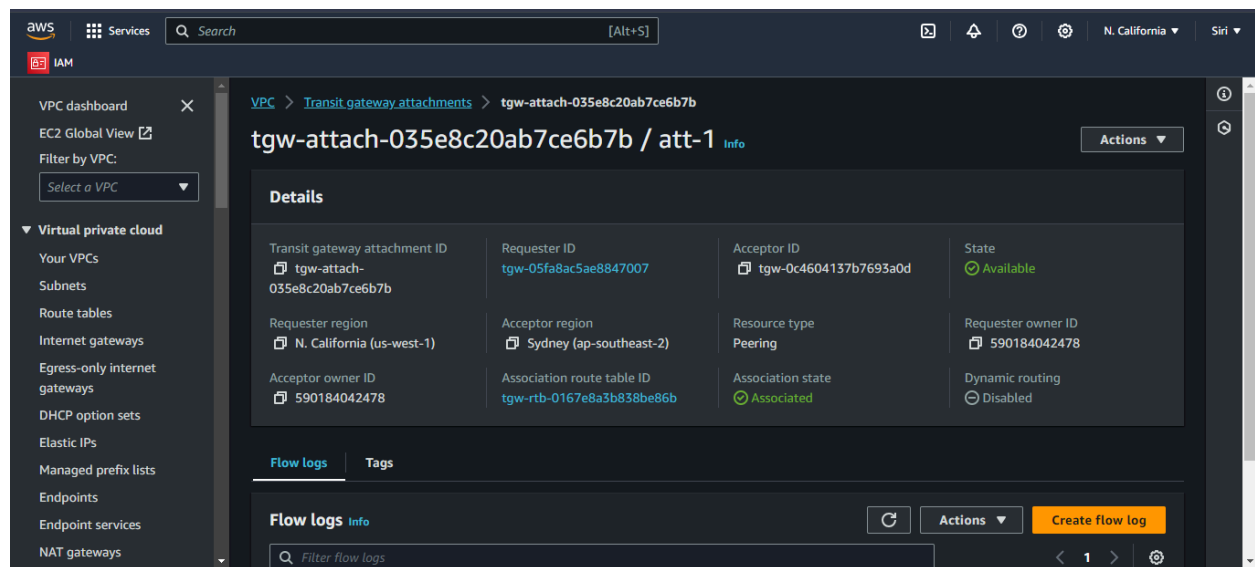
## 5.Create transit gateway attachment.

`Vpc>transit gateway attachment>create transit gateway attachment`.



**[Repeat the same steps from 1 to 5 in other region, SYDNEY.]**

## 6. Create transit gateway attachment to do peering.



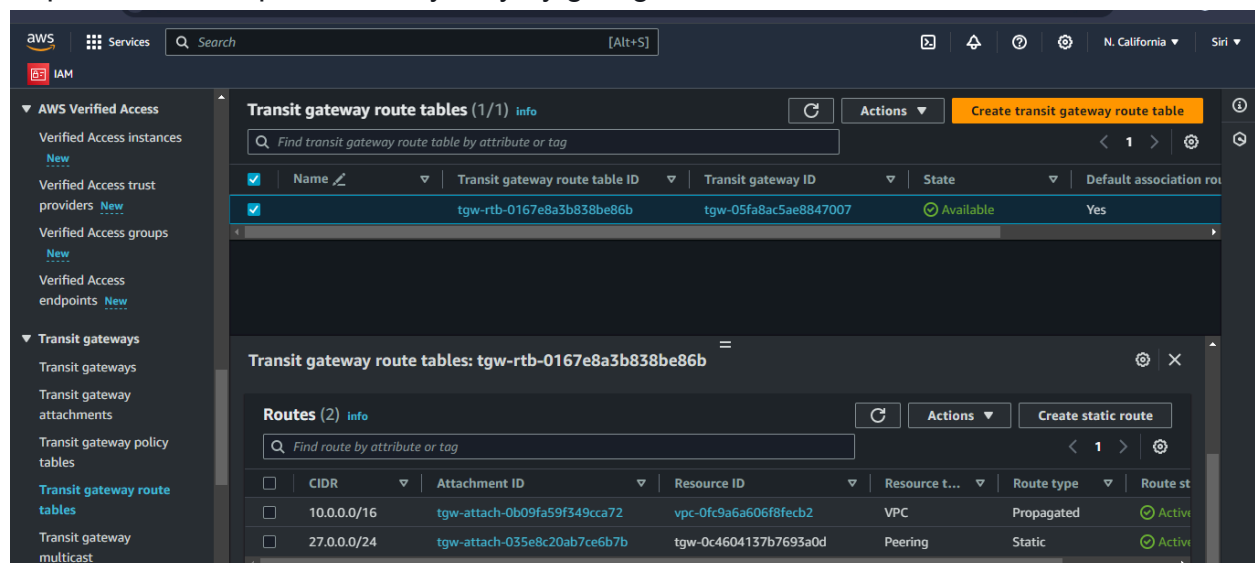
by choosing attachment type as peering and copy paste the id of transit gateway which is created in sydney.

- Then accept the request in sydney region transit gateway attachment.

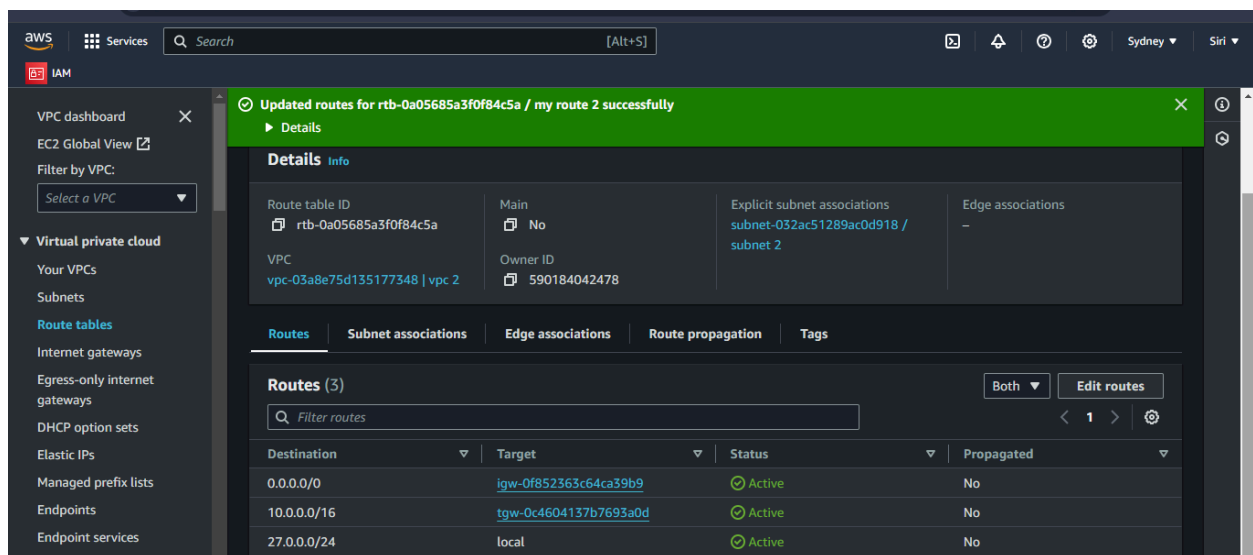
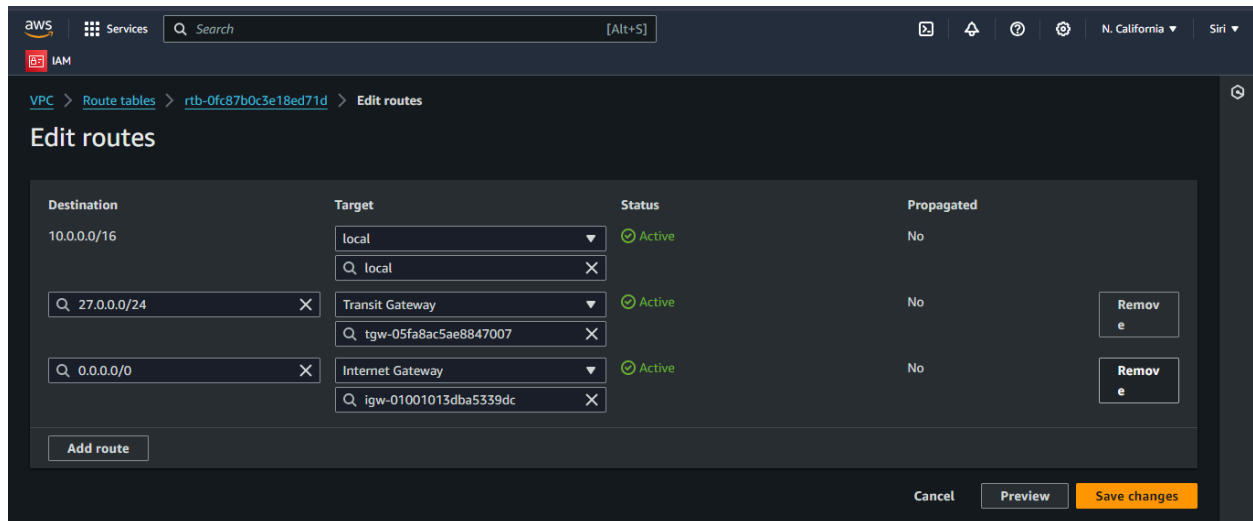
## 7. Now we need to **create static** routes in **both the regions**:

- For that go to transit gateway route tables.
- select the route table.
- routes>create static route
- Give the CIDR number of **sydney** region and vice versa .

Repeat the same process in sydney by giving **California** CIDR number.



8.Finally go to routes in VPC and edit the routes by giving the CIDR number of sydney region and vice versa .Repeat the same process in sydney by giving California CIDR number.Also attach the respective transit gateway.



9.Now connect to the sydney ec2 instance and copy paste the private id of california with the command curl.You can see the text entered in California ec2 instance in sydney.In this way it can be accessed.

