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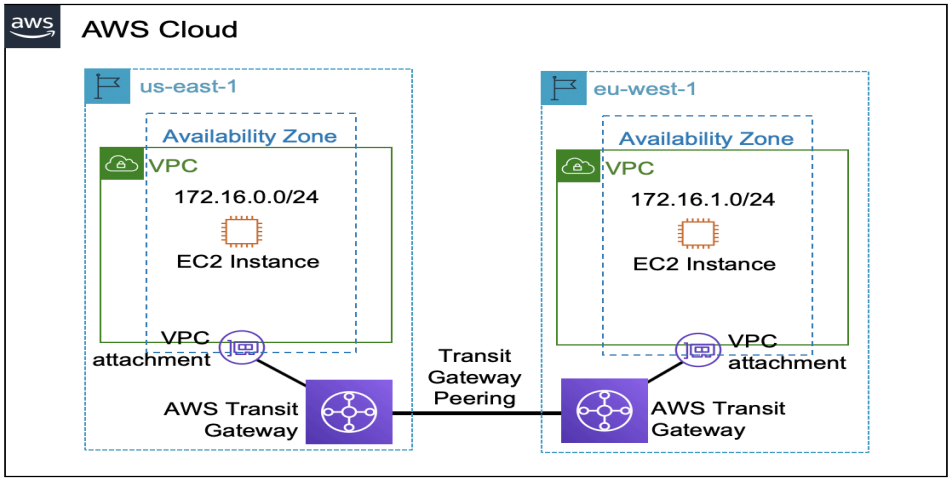
TRANSIT GATEWAYS:

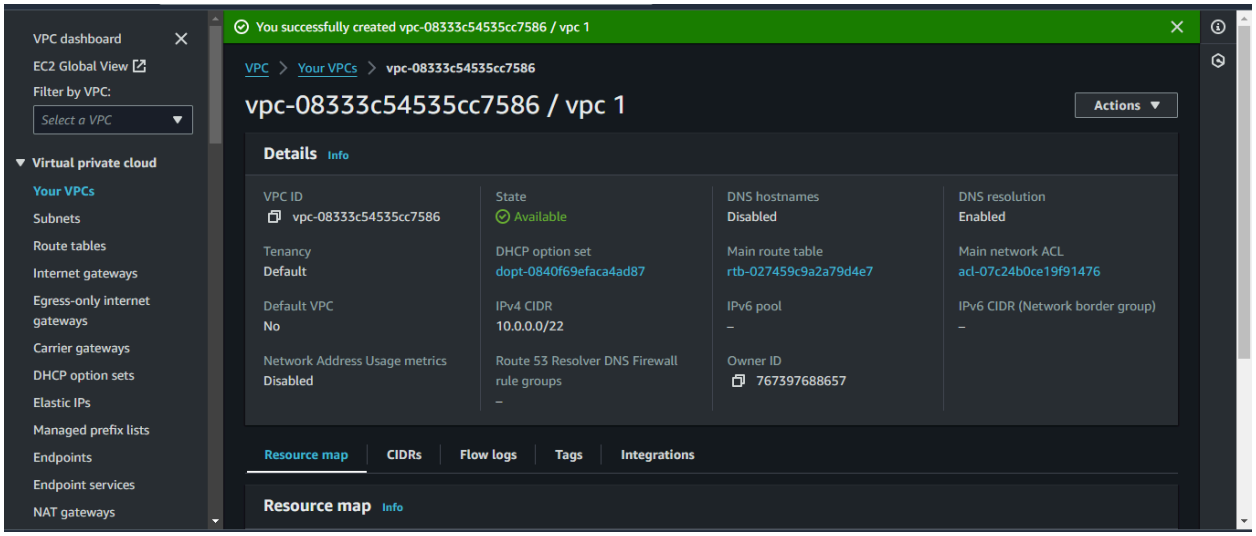
A *transit gateway* is a network transit hub that you can use to interconnect your virtual private clouds (VPCs) and on-premises networks. As your cloud infrastructure expands globally, inter-Region peering connects transit gateways together using the AWS Global Infrastructure. All network traffic between AWS data centers is automatically encrypted at the physical layer.



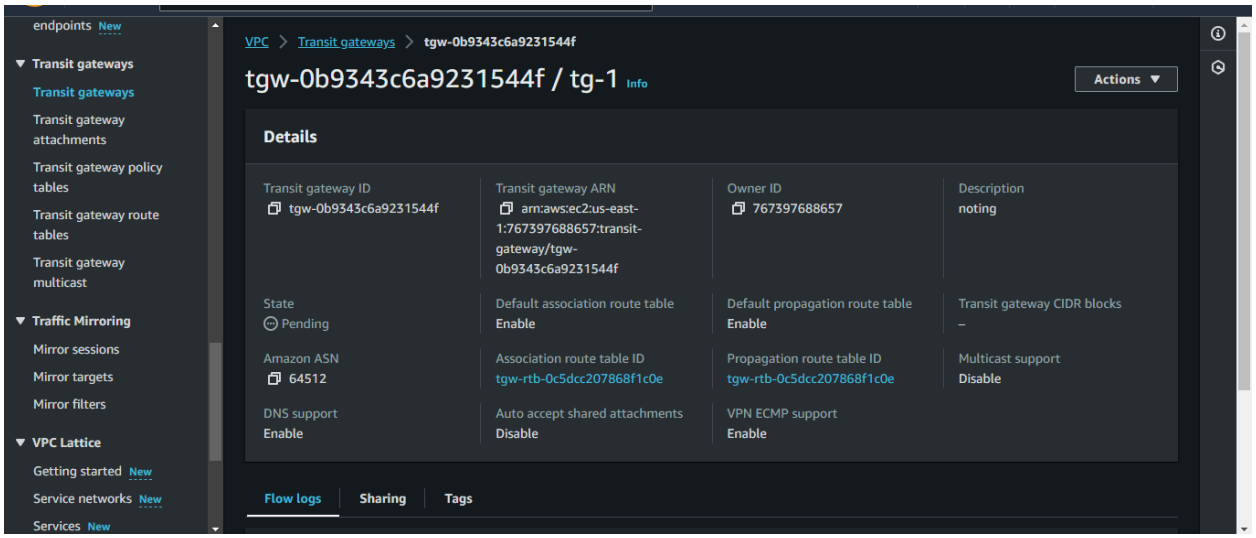
PROCESS OF PEERING TWO TRANSIT GATEWAYS IN TWO DIFFERENT REGIONS:

1.CREATE VPC in VIRGINIA REGION:

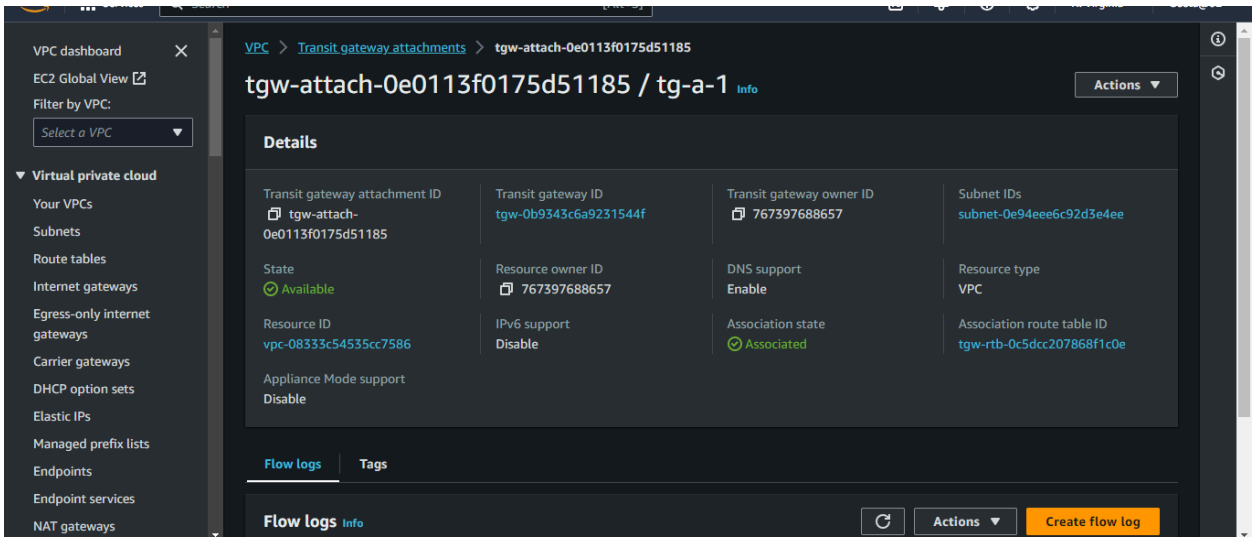
VPC include subnets, internet gateways,routetables.



2.CREATE TRANSIT GATEWAY.



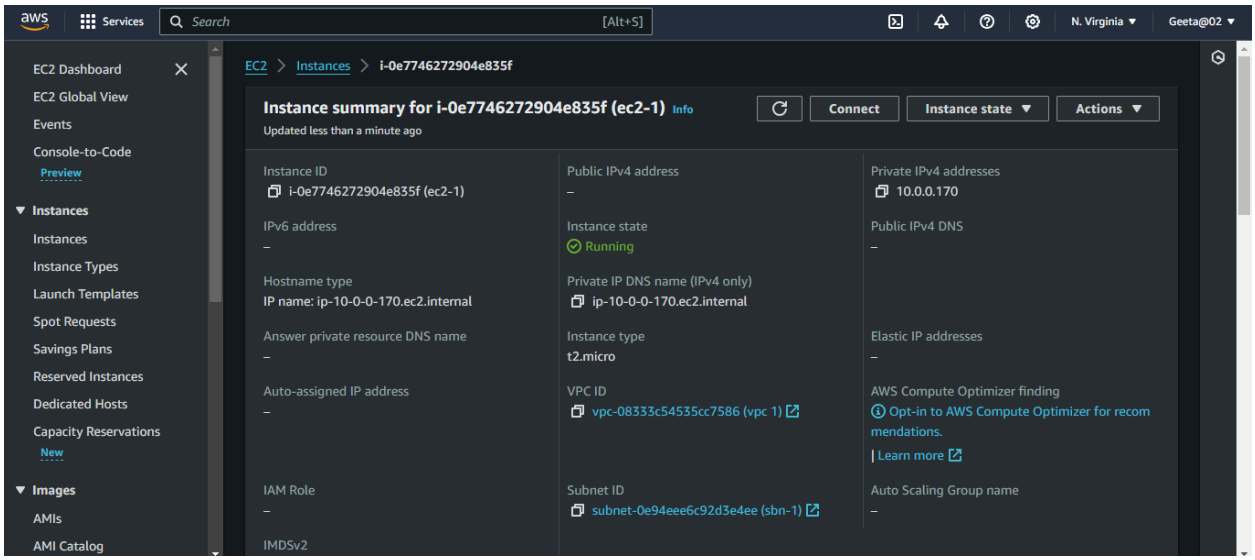
3.CREATE TRANSIT GATEWAY ATTACHMENT:



4.THEN EDIT ROUTES IN VPC ADD THE TRANSIT GATEWAY.

For that we need to go to vpc> route table>select route>add route>select transit gateway.

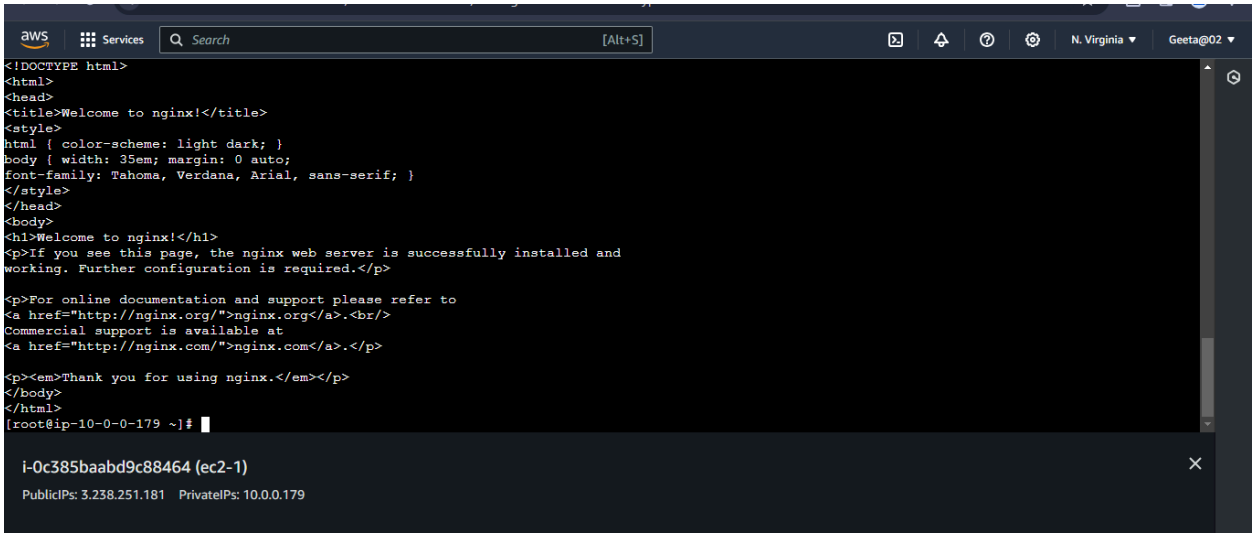
5.THEN LAUNCH AN EC2 INSTANCE.



6.THEN ADD EDIT INBOUND RULES.

For that open the instance>security>security group>edit inbound rules>add rule>select type as http>save changes.

7.THEN CONNECT TO THE INSTANCE .



8.REPEAT STEP ONE TO EIGHT IN THE OTHER REGION(MUMBAI).

9.THEN CREATE TRANSIT GATE WAY ATTACHMENT FOR PEERING:

On the navigation pane, choose Transit Gateway Attachments.

Choose Create transit gateway attachment.

For Transit gateway ID, choose the transit gateway for the attachment. You can choose a transit gateway that you own or a transit gateway that was shared with you.

For Attachment type, choose Peering Connection.

Optionally enter a name tag for the attachment.

For Account, choose My account.

For Region, choose the Region that the transit gateway is located in.

For Transit gateway (accepter), enter the ID of the transit gateway that you want to attach.

Choose Create transit gateway attachment.

Here open virginia region and copy paste the transit gateway id of mumbai region.

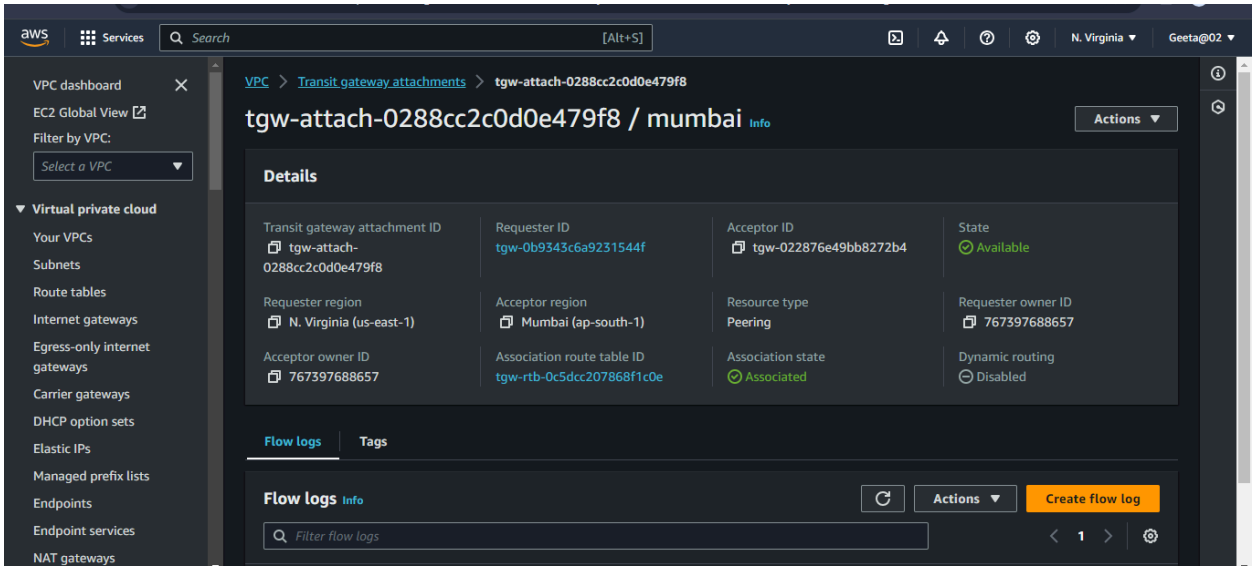
10.Accept a peering attachment request

To activate the peering attachment, the owner of the accepter transit gateway must accept the peering attachment request. This is required even if both transit gateways are in the same account. The peering attachment must be in the pendingAcceptance state. Accept the peering attachment request from the Region that the accepter transit gateway is located in the region

On the navigation pane, choose Transit Gateway Attachments.

Select the transit gateway peering attachment that's pending acceptance.

Choose Actions, Accept transit gateway attachment.



Add the static route to the transit gateway route table.

11.CREATE STATIC ROUTE TABLES

choose Transit Gateway Route Tables.

Select the route table for which to create a route.

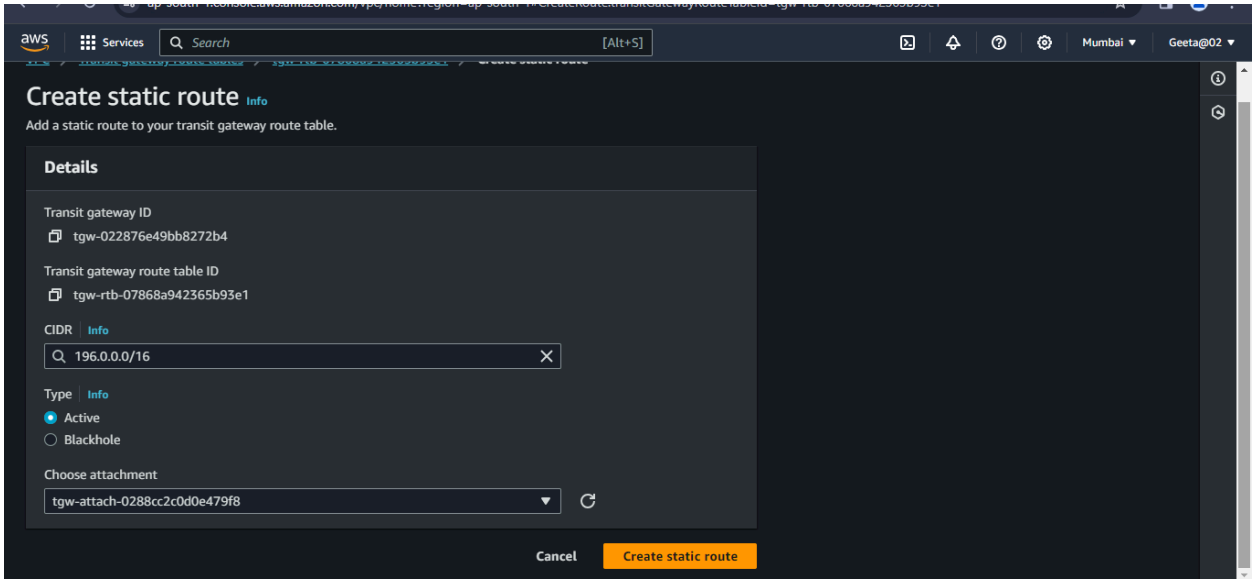
Choose Actions, Create static route.

On the Create static route page, enter the CIDR block for which to create the route. For example, specify the CIDR block of a VPC that's attached to the peer transit gateway.

Choose the peering attachment for the route.

Choose Create static route.

Do the same in both VIRGINIA and MUMBAI regions.



12.Finally connect to the ec2 instance in MUMBAI and cpy paste the private id of Virginia with the command curl u can access without any installation as we already installation is done in Virgina region