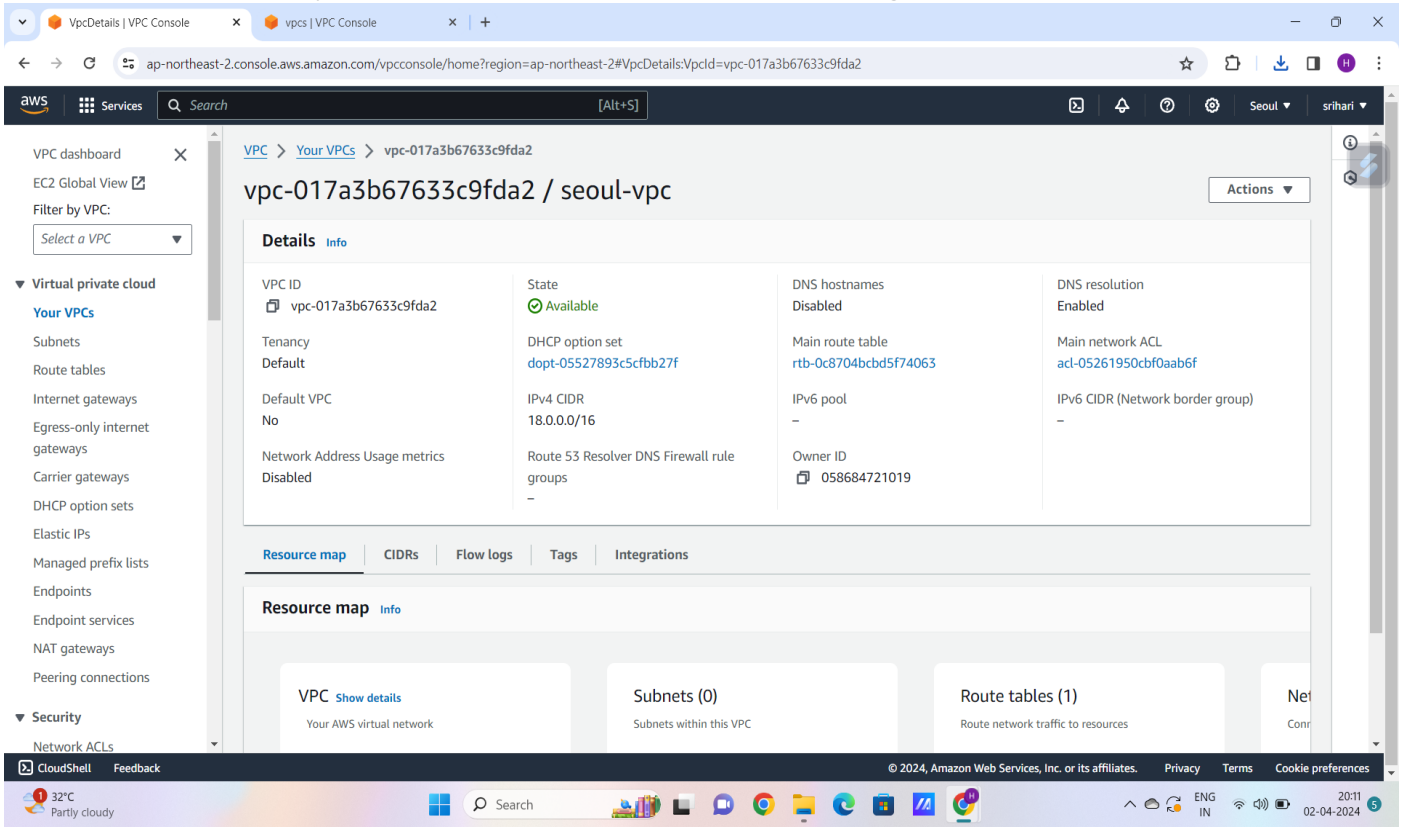
CONNECT TWO VPC'S IN DIFFERENT REGIONS THROUGH PEERING

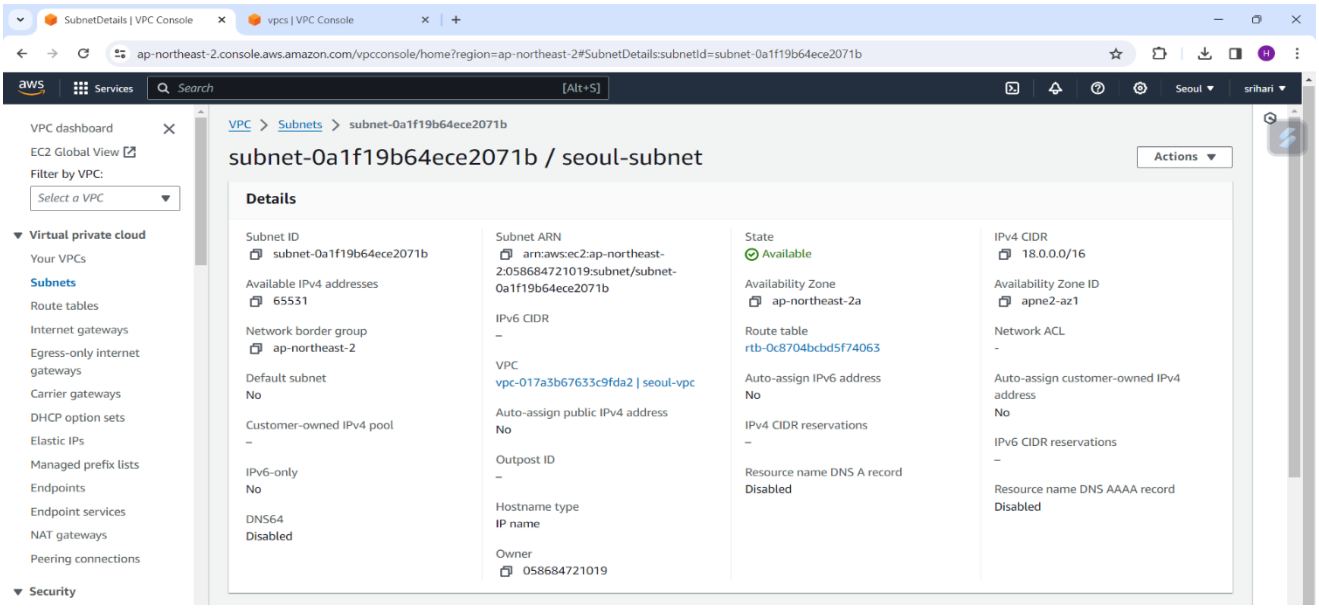
By K.Manichandu

CREATING A PEERING CONNECTION BETWEEN TWO VPC's IN TWO DIFFERENT REGIONS

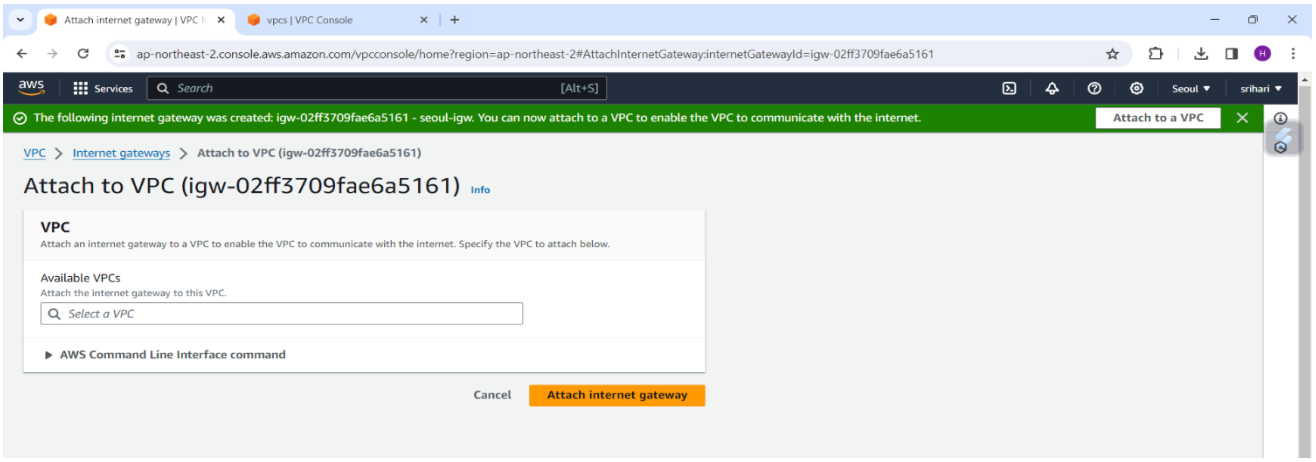
- Peering is the exchange of data directly between internet service providers, rather than via the internet.
- First we need two VPC's in two different regions and launch an EC2 instance in the respective subnets of the two regions.
- So firstly create two VPC's in two different regions.



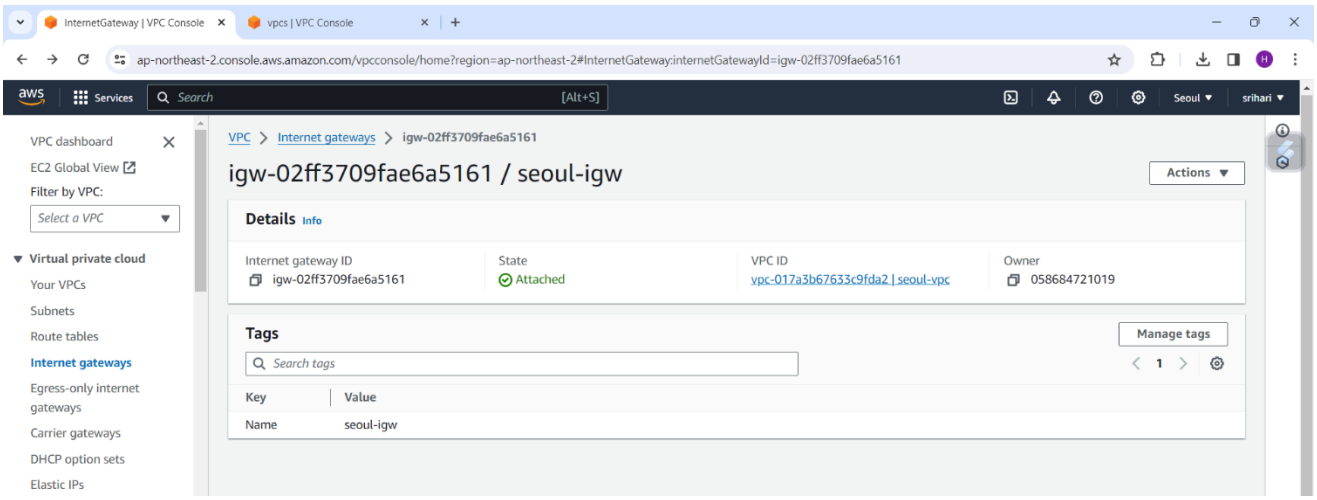
- Here I created a vpc in seoul region and its name is Seoul-vpc with CIDR 18.0.0.0/16
- Now I have to create a subnet, route table and an internet gateway(igw) for this vpc in seoul.
- Now a subnet is created in this vpc named Seoul-subnet.



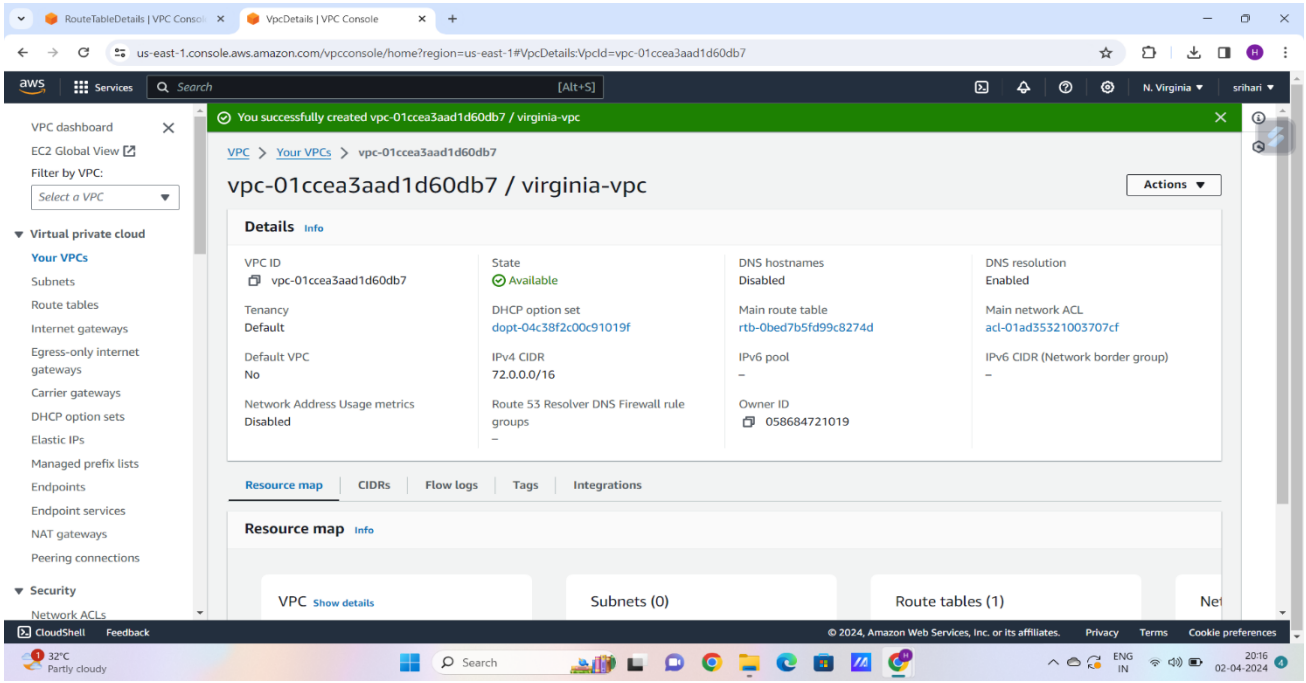
- Now create an internet gateway and attach to this vpc.



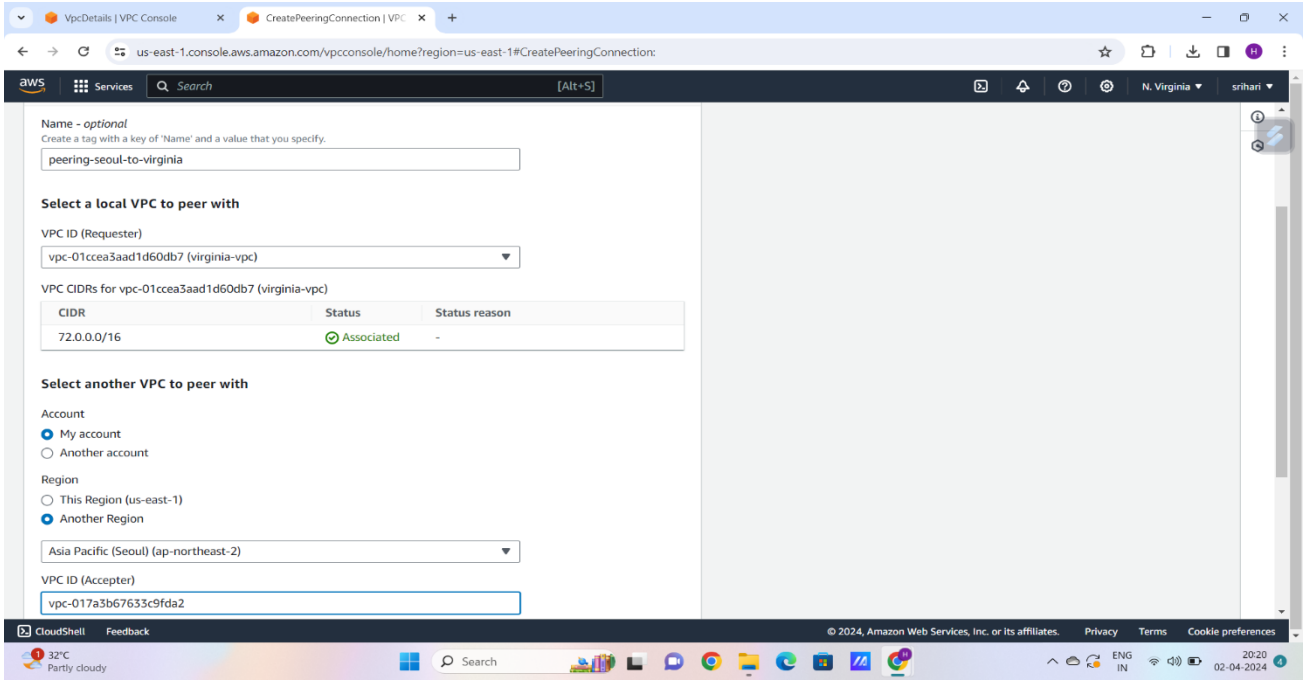
- The attached igw to a vpc should be looking like this.



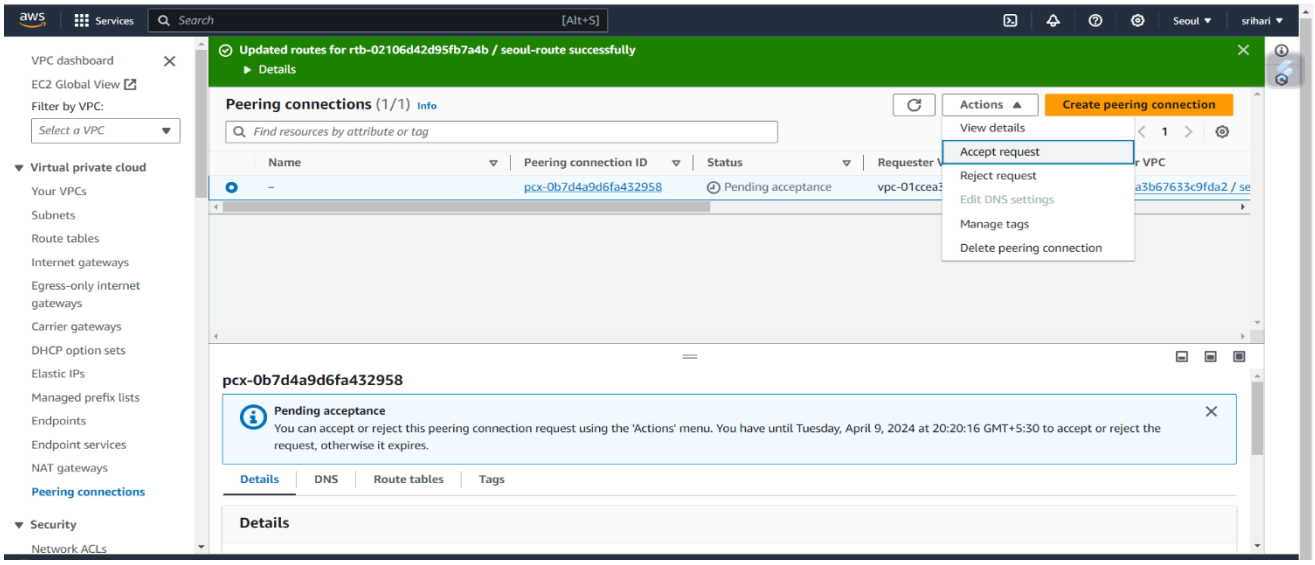
- Now create a route table for this subnet and assosciate the subnet and go to edit routes and add internet gateway connection in the route.
- Create another VPC in another region and repeat the same process for this VPC.



- Here I created a VPC in virginia region with CIDR 72.0.0.0/16
- Now add a peering connection for these two VPC's by going to the peering connections in VPC section.
- Here the requestor is the vpc you are present working and acceptor is the vpc in another region.

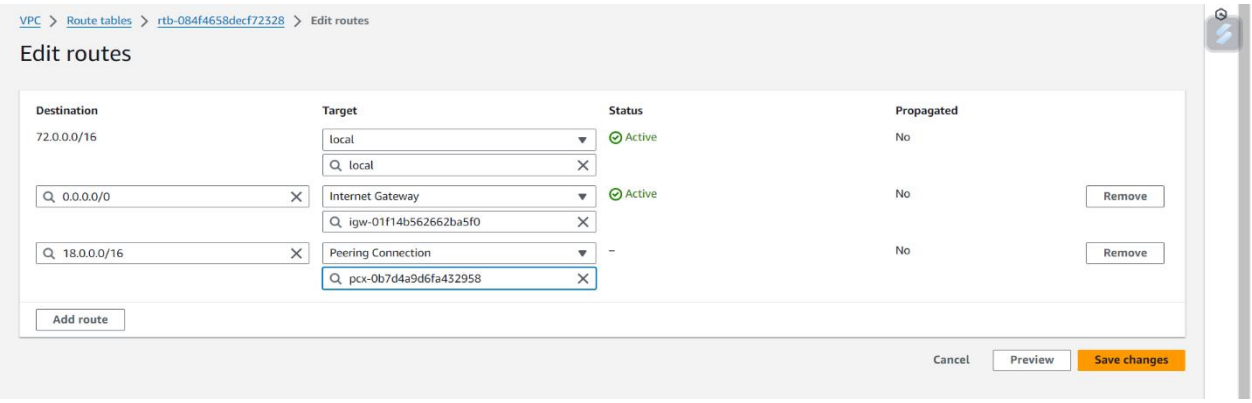


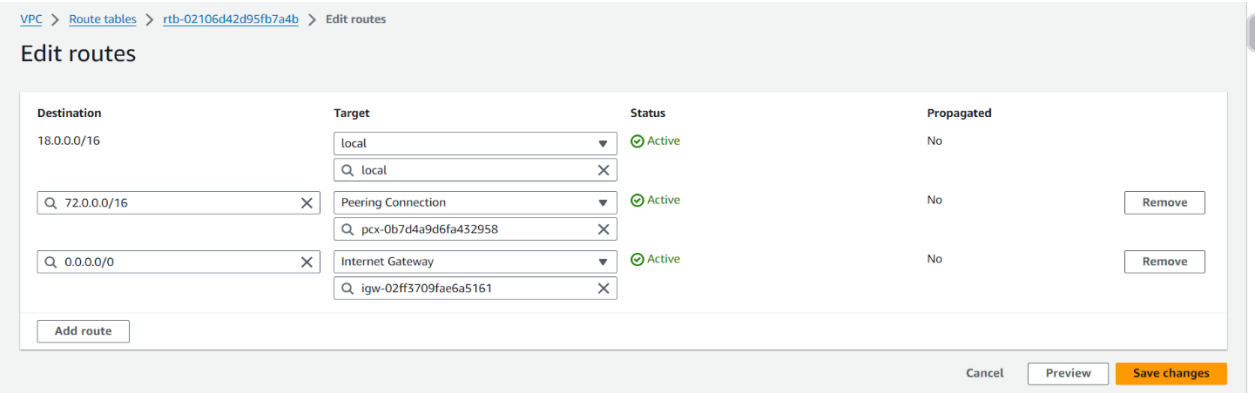
- Here select another region option for you to connect VPC in another region.
- Now the request to connect has been sent and go to another region and accept the peering connection.
- After you accept the request, you have to go the route tables of both



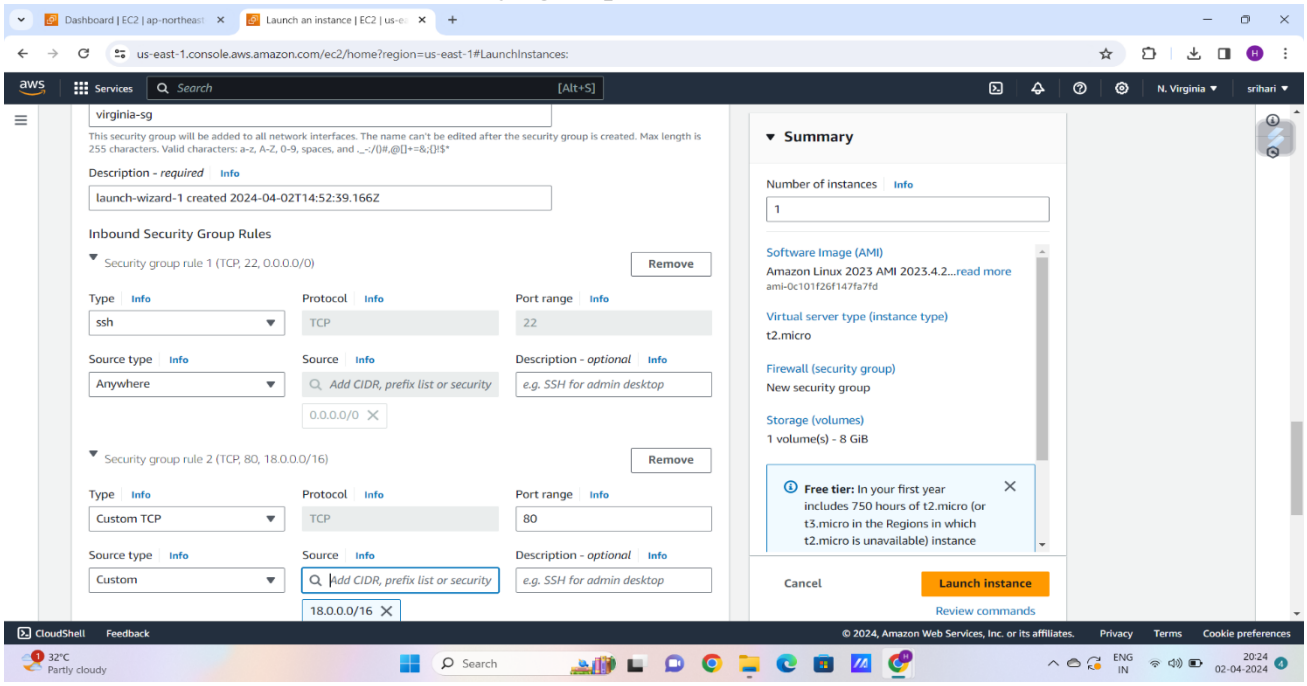
Subnets of VPC's and enable peering.

- To enable peering go to edit routes and give CIDR of other VPC as destination and peering as target.

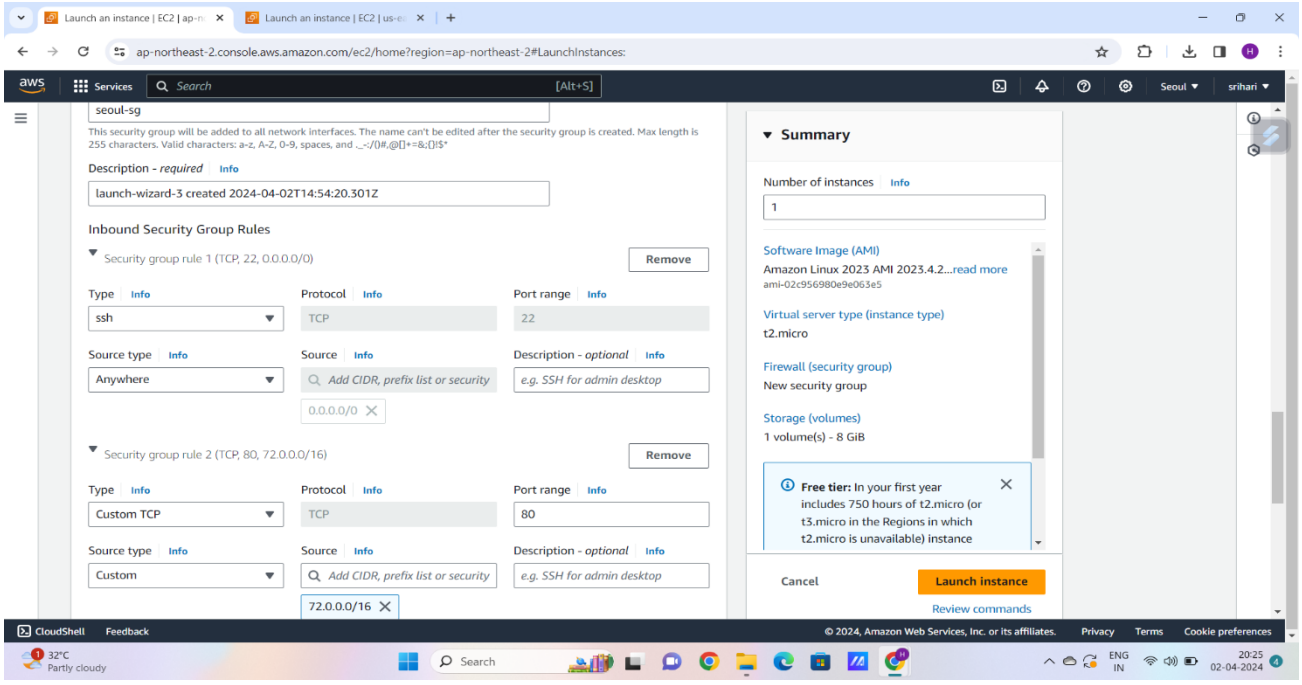




- So as shown above both route tables has to be given these routes. Now the peering connection has been enabled.
- Now launch instances in both of the subnets in these two VPC's.
- Before launching these two instances create security groups for these instances and add a security group rule for these instances.



- Here the port range will be 80 for these two security groups and source type will be custom TCP and source will be the CIDR of the other VPC.



- After creating the security groups for both of these instances , launch these instances.

- Now connect to the instances and write the script as follows

Sudo -i

Yum install nginx -y

cd /usr/share/nginx/html

rm index.html

vi index.html

- The script above is given to install nginx in both of the ec2 instances and modify the content in the index.html.
- The last command is given to edit the index.html and you can write whatever you want in the index page.
- Now after completing this process copy the IP of seoul EC2 and give a curl operation in virginia EC2 with the seoul IP.
- It should display the index page of seoul EC2 and viceversa.
- The picture shows us the index of seoul EC2 in virginia EC2. And viceversa is achieved. Now PEERING is SUCCESSFUL between two VPC'S.