**Create two VPC's in different regions and connect the two vpc's.**

BY

Cheerlaswapna

1. **Create VPCs:**

* Go to the AWS Management Console.
* Navigate to the VPC dashboard.
* Click on "Create VPC".
* Specify the details such as VPC name, IPv4 CIDR block, and the region where you want to create the VPC.
* Repeat the above steps to create another VPC in a different region.

**2. Create Subnets:**

* Within each VPC, create subnets in different Availability Zones (AZs) to ensure high availability.
* Associate each subnet with the respective VPC.

**3. Internet Gateway (IGW):**

* Attach an Internet Gateway to each VPC to enable internet access.
* Update the route tables of the subnets to route traffic to the Internet Gateway.

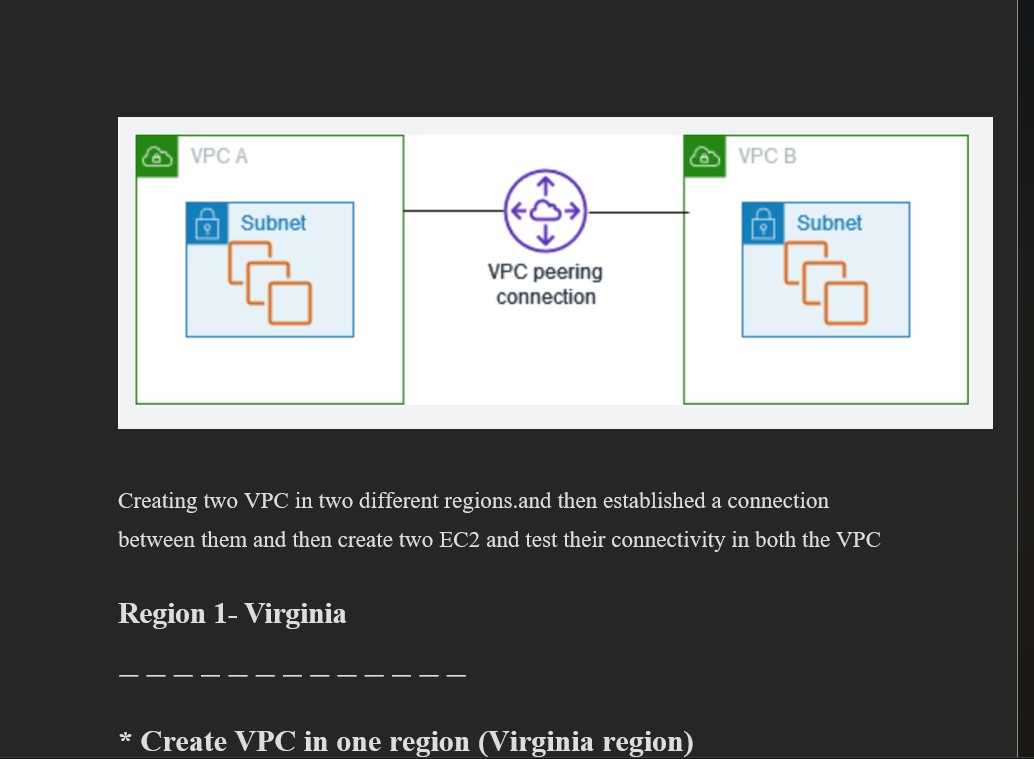
**4. Create VPC Peering Connection:**

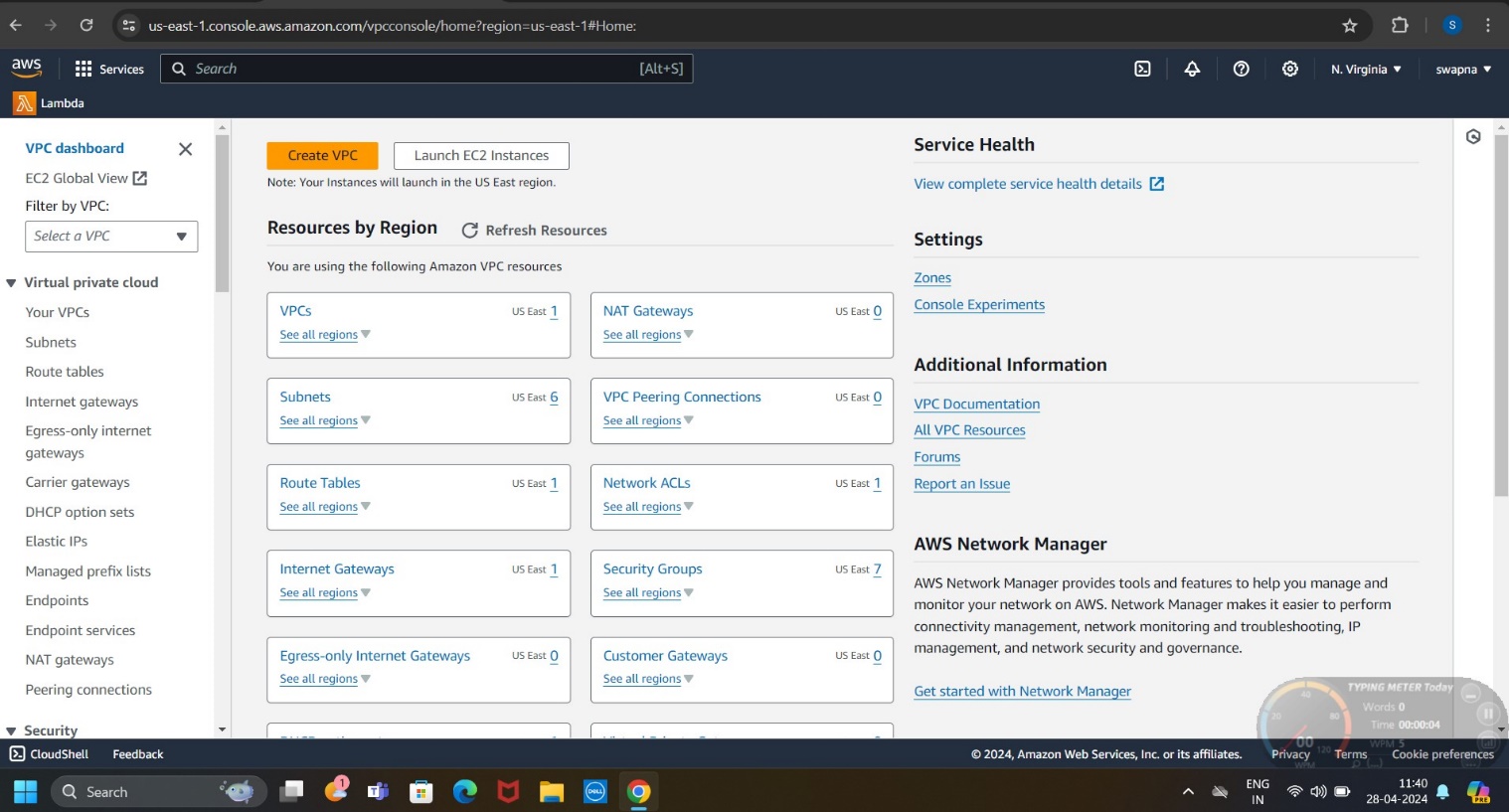
* Navigate to the VPC dashboard.
* Click on "Peering Connections" and then "Create Peering Connection".
* Select the first VPC as the requester and the second VPC as the accepter.
* Update the route tables of both VPCs to allow traffic to flow through the peering connection.

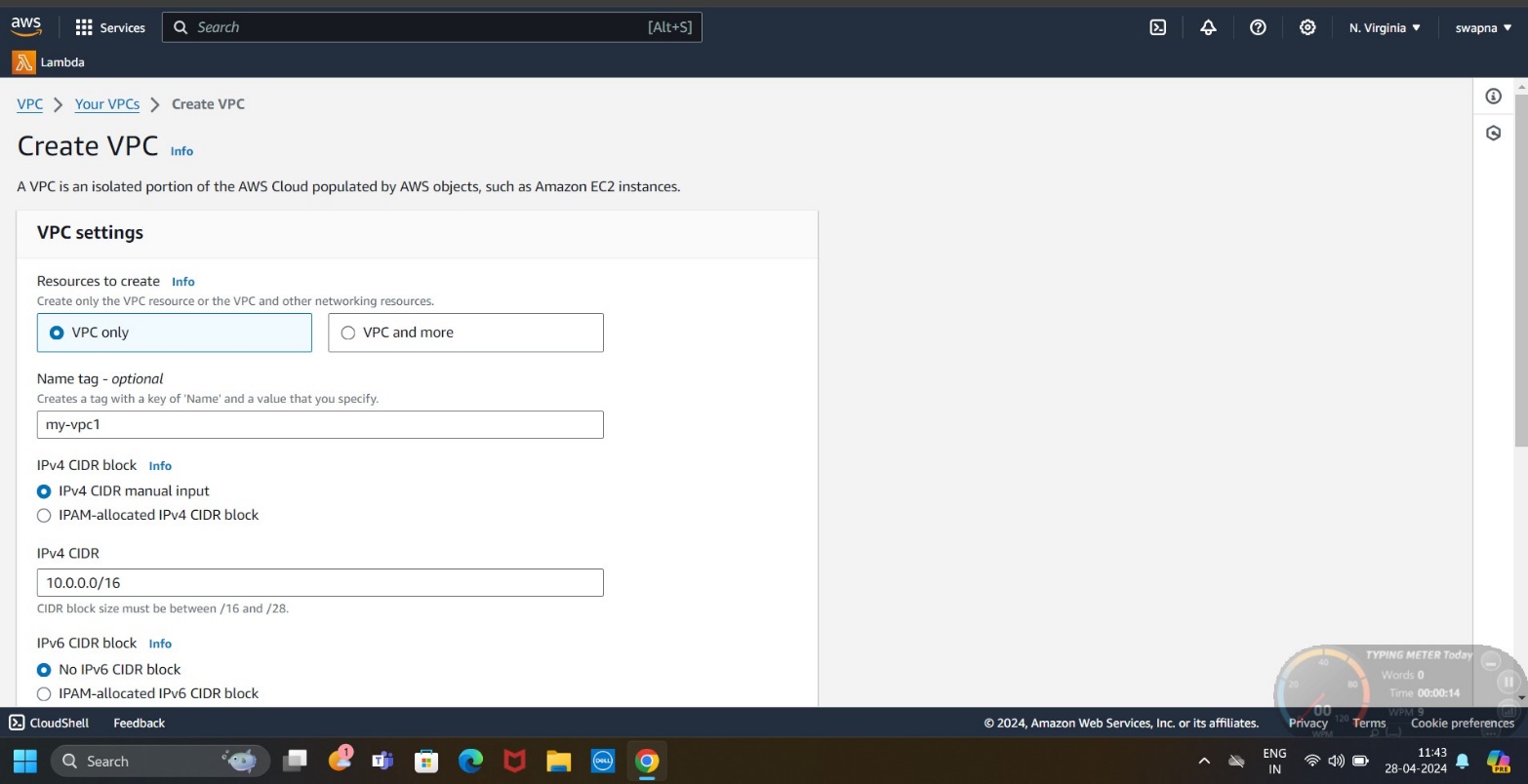
**5. Update Security Groups and Network Access Control Lists (NACLs):**

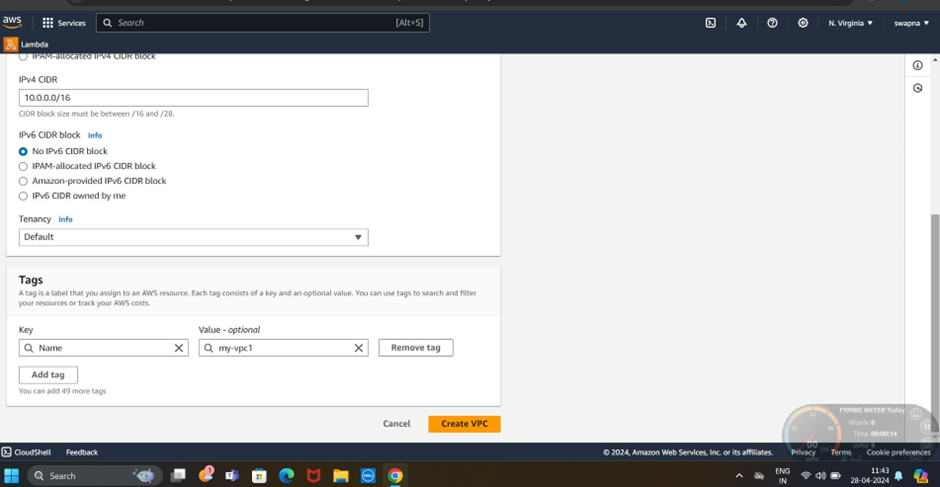
* Update security groups and NACLs to allow traffic between the peered VPCs as per your requirements.

**6. Testing:**

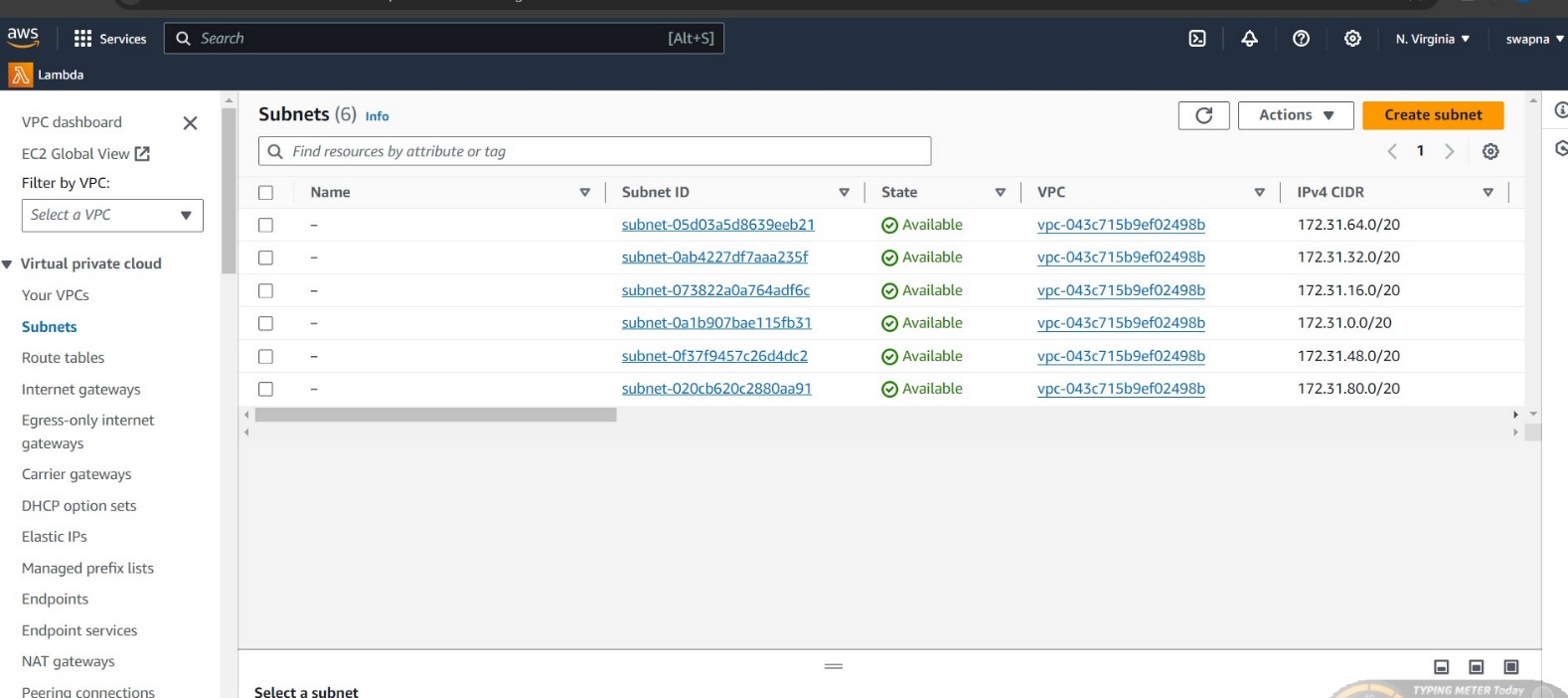


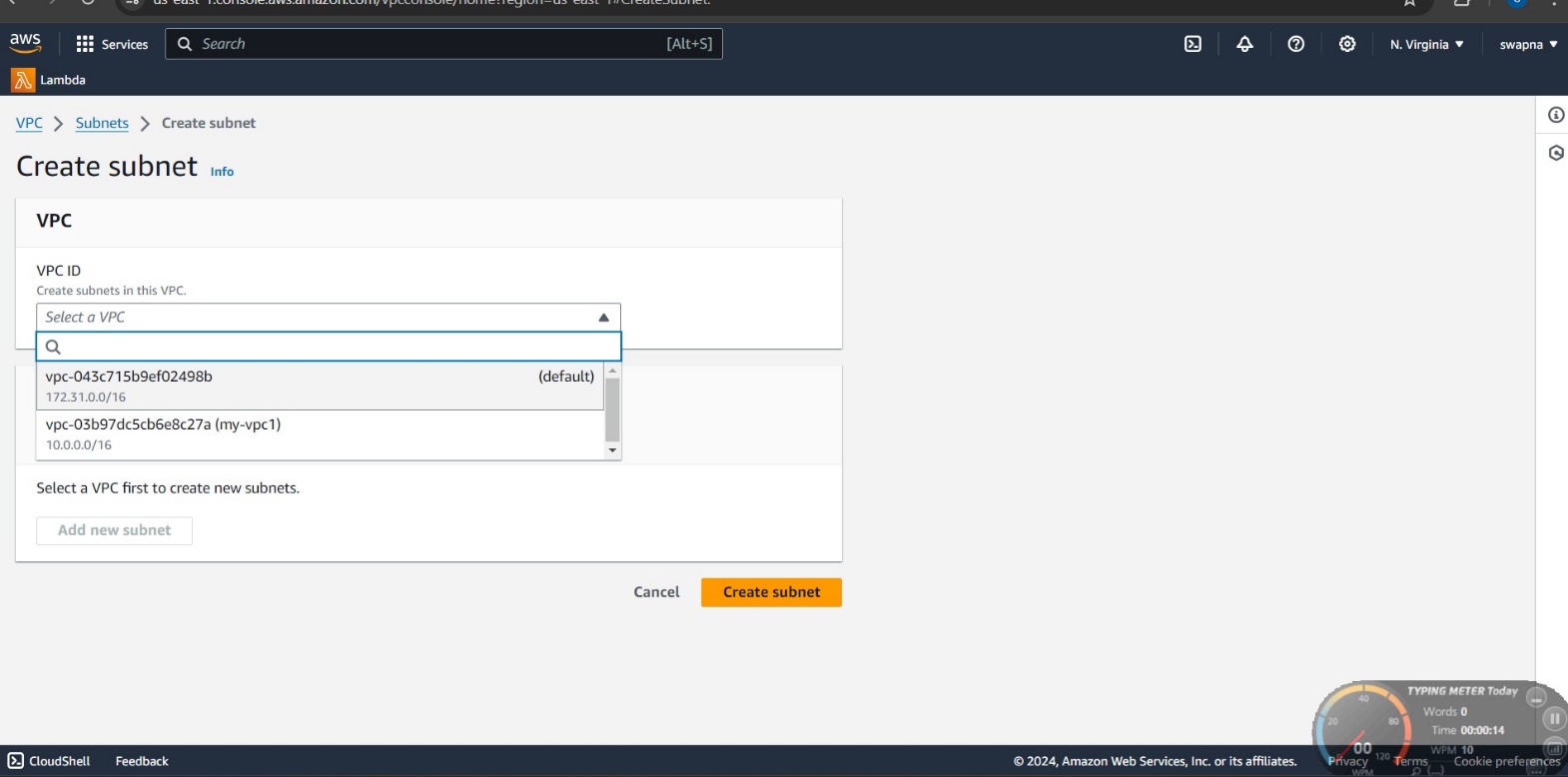
\*To creat vpc1 in virginia

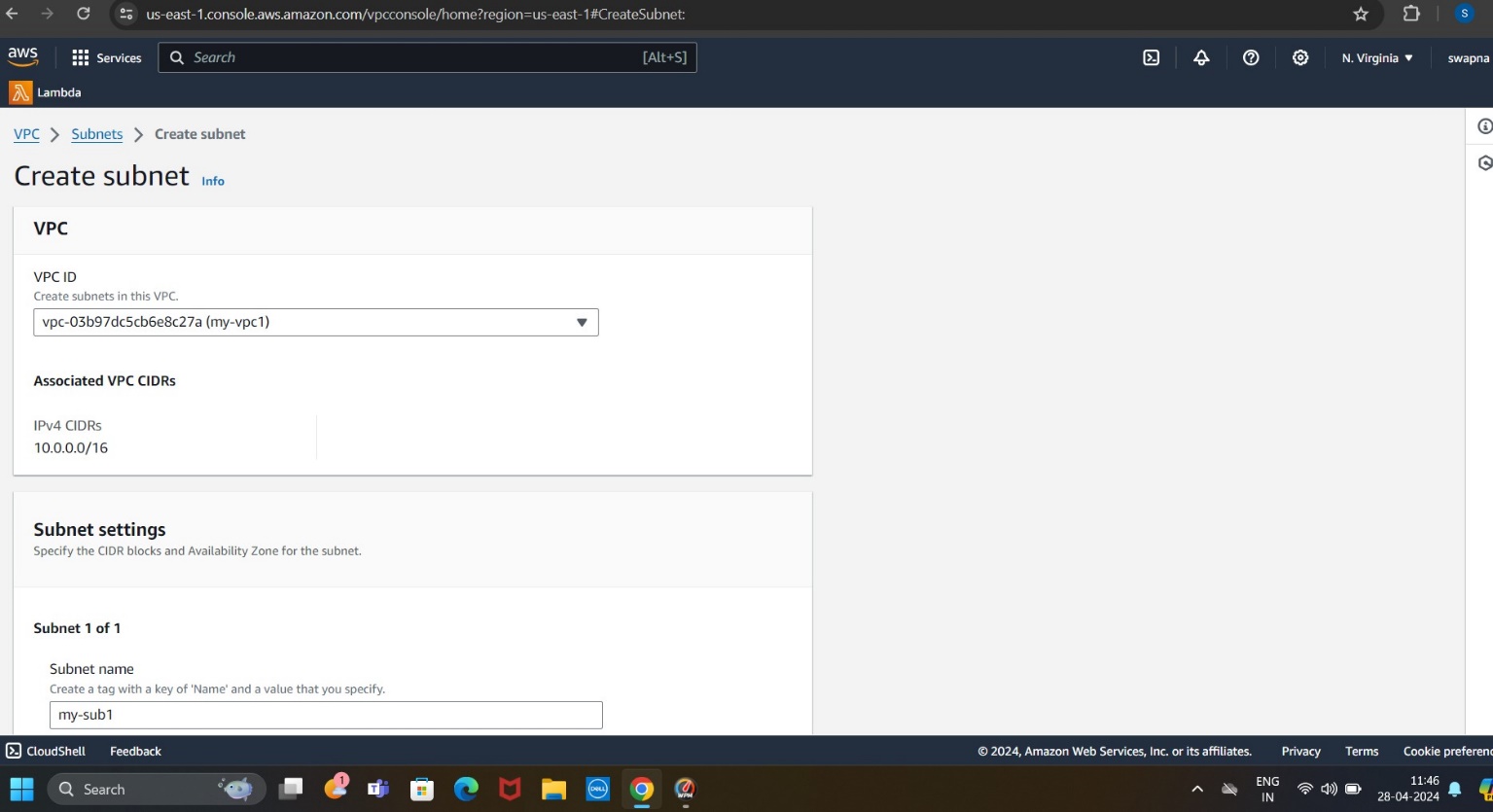


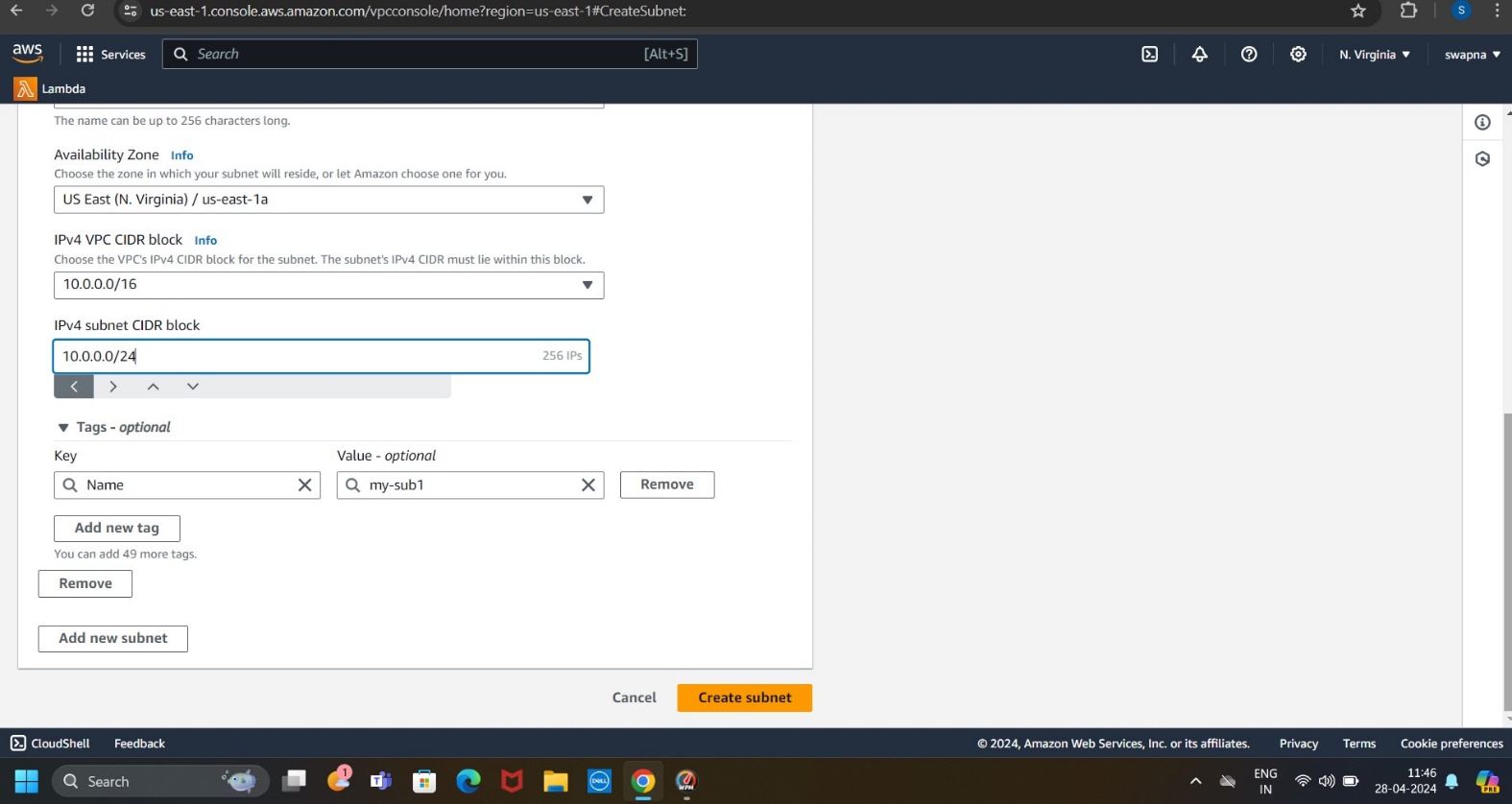


\*To create asubnet1

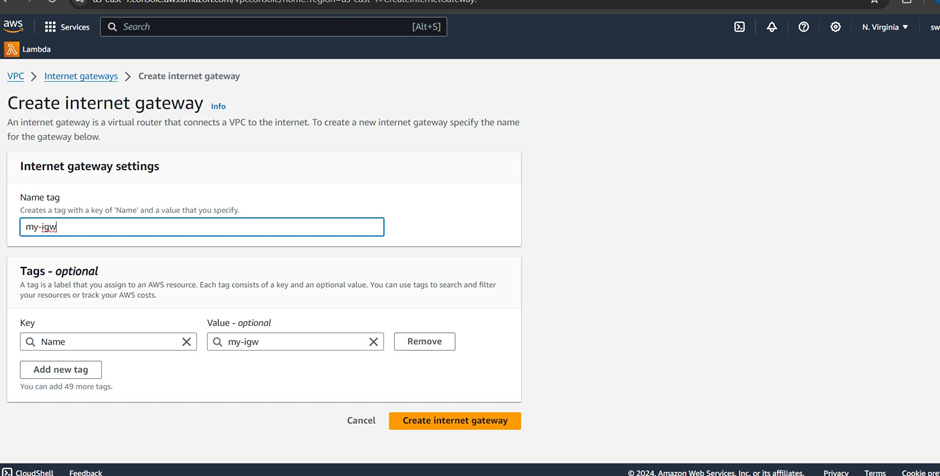




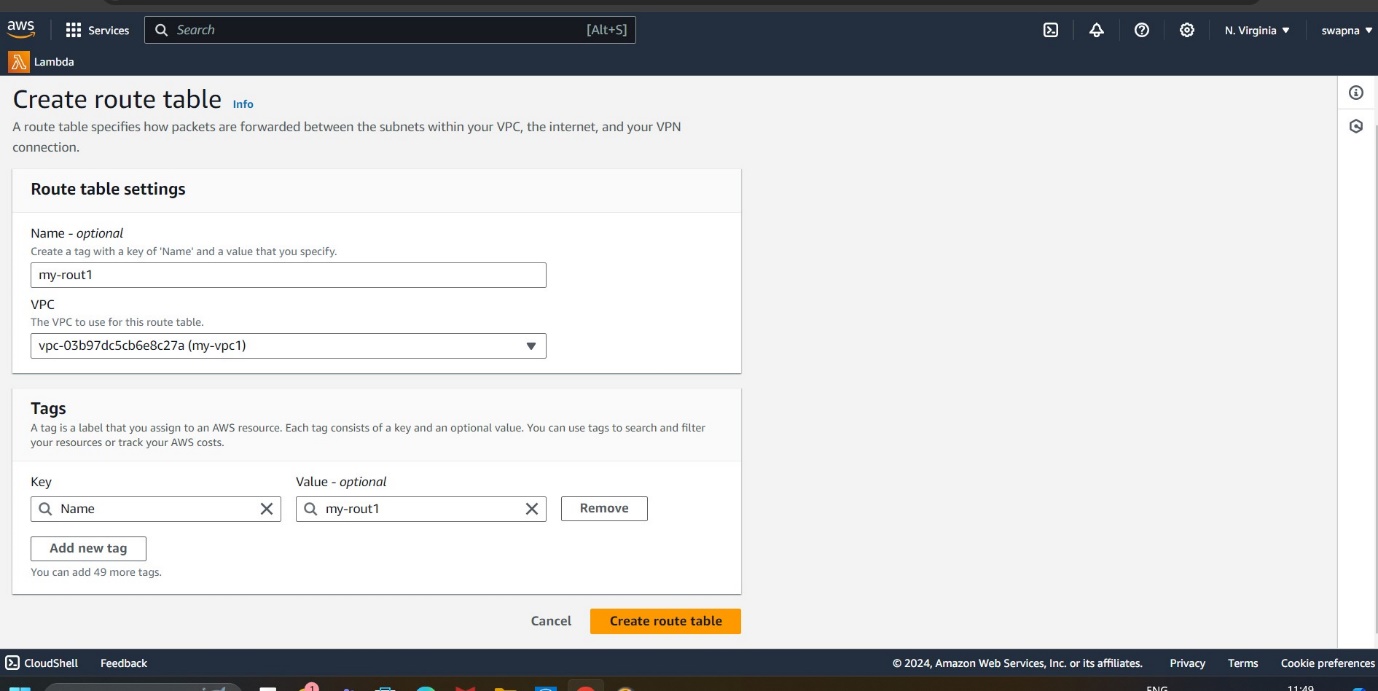




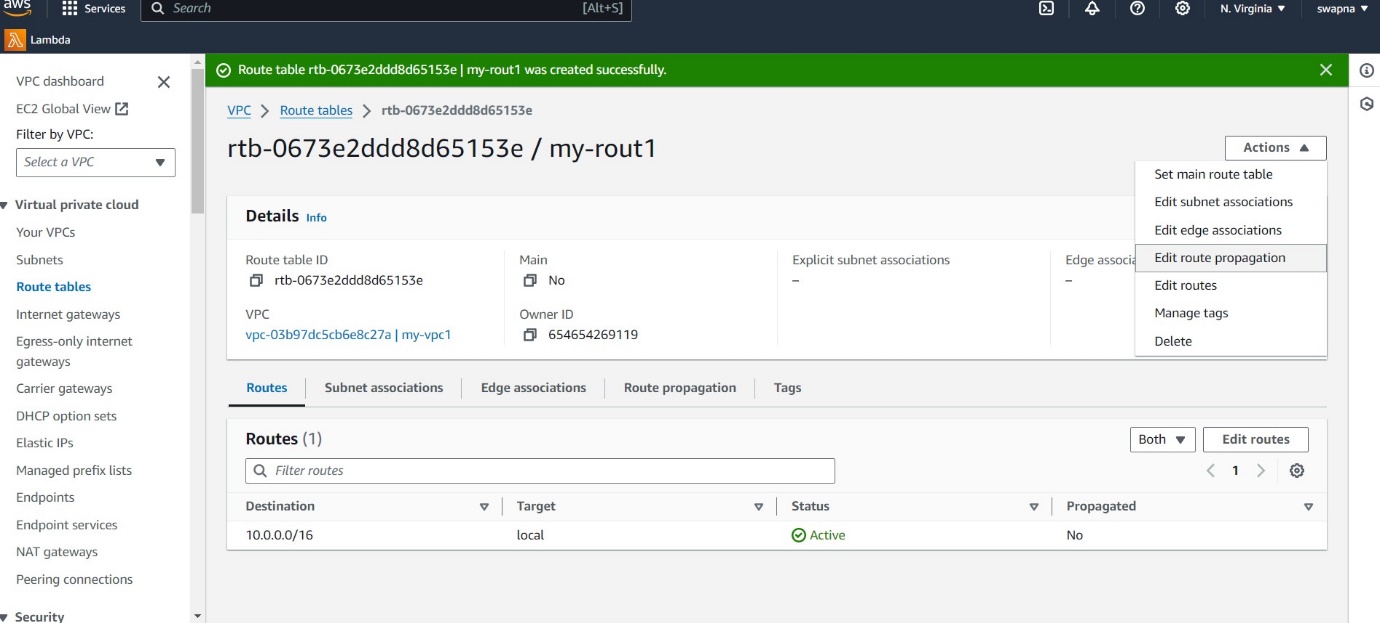
\*To create a internet getway



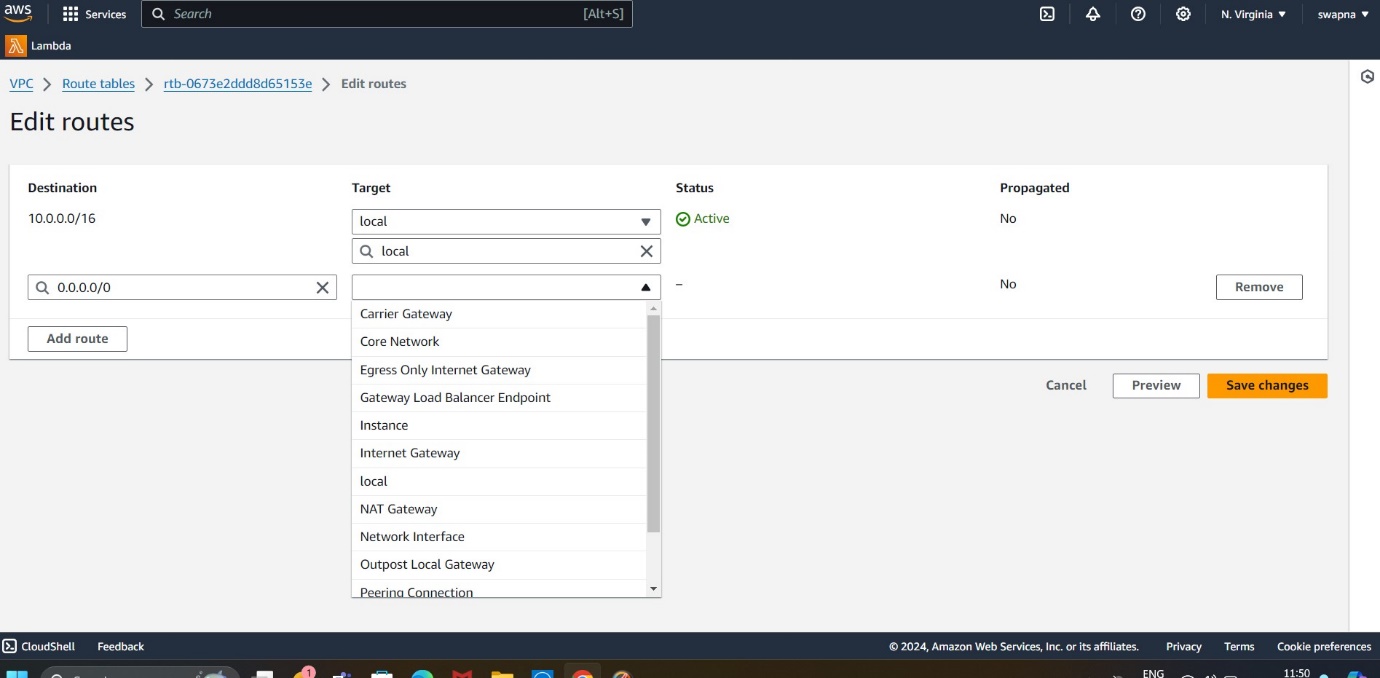


\*To create a route table 

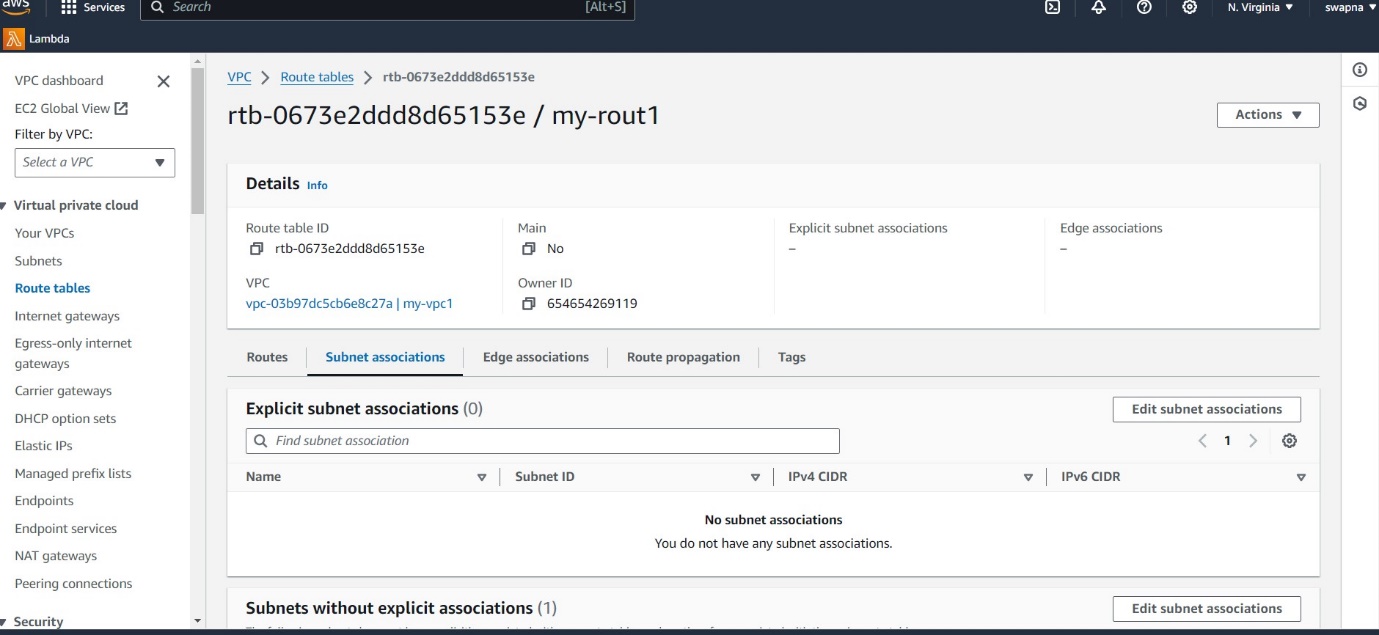
\*To edite route table

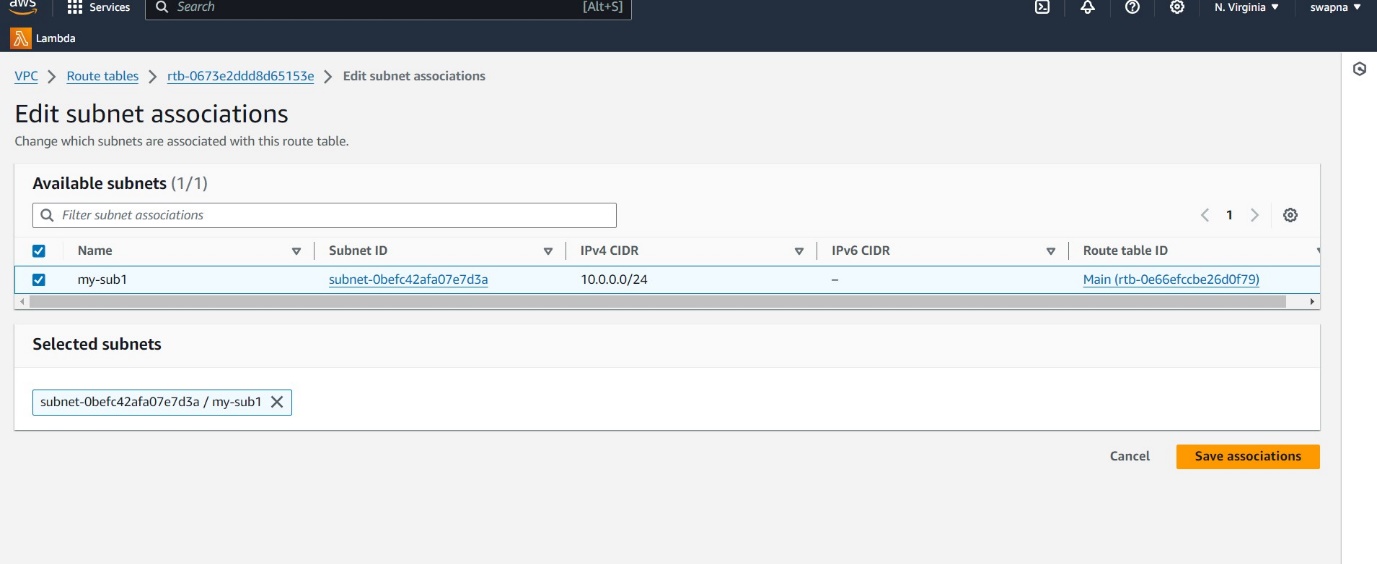


* Adda to internet gatway

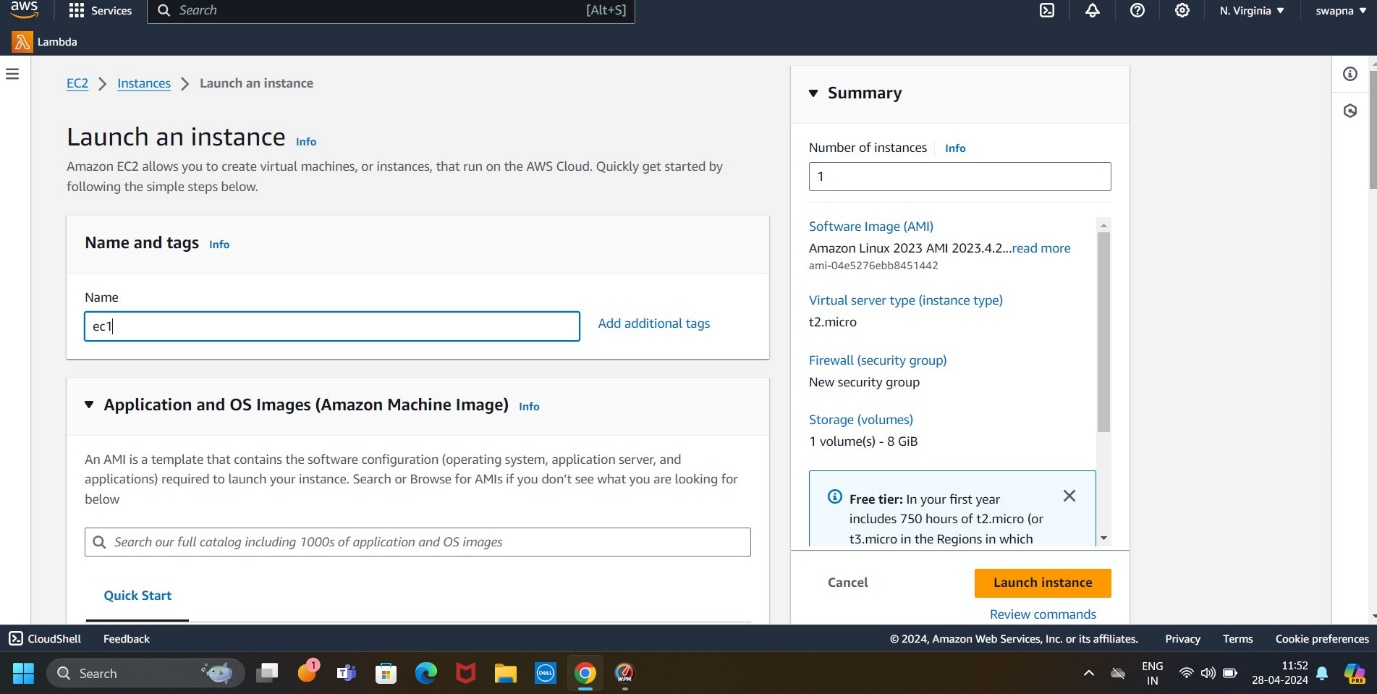


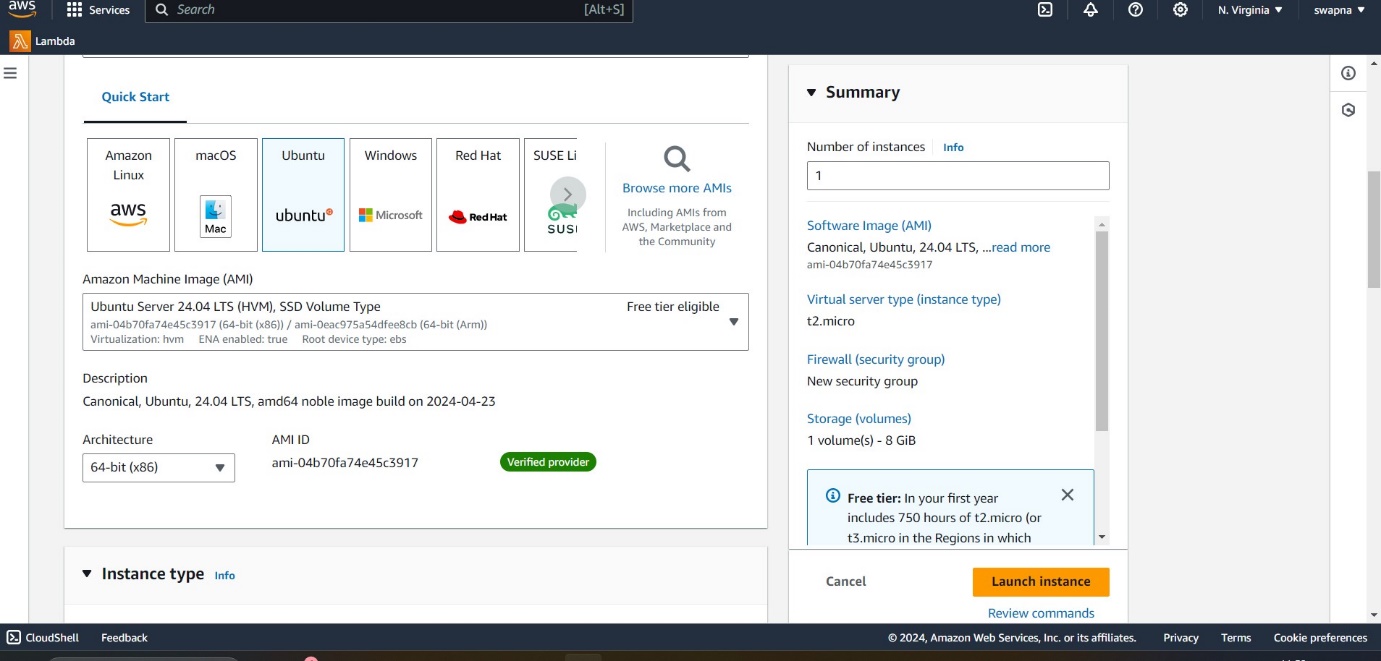
\*To edite subnet associations

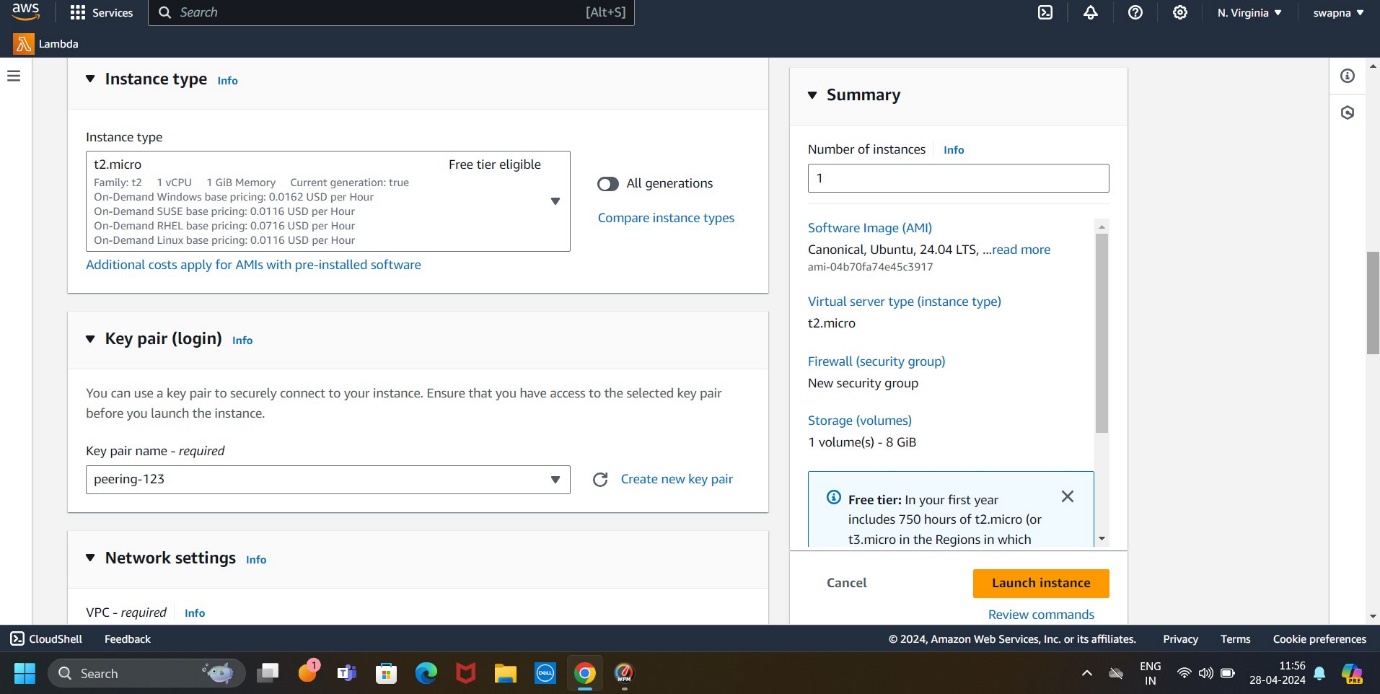


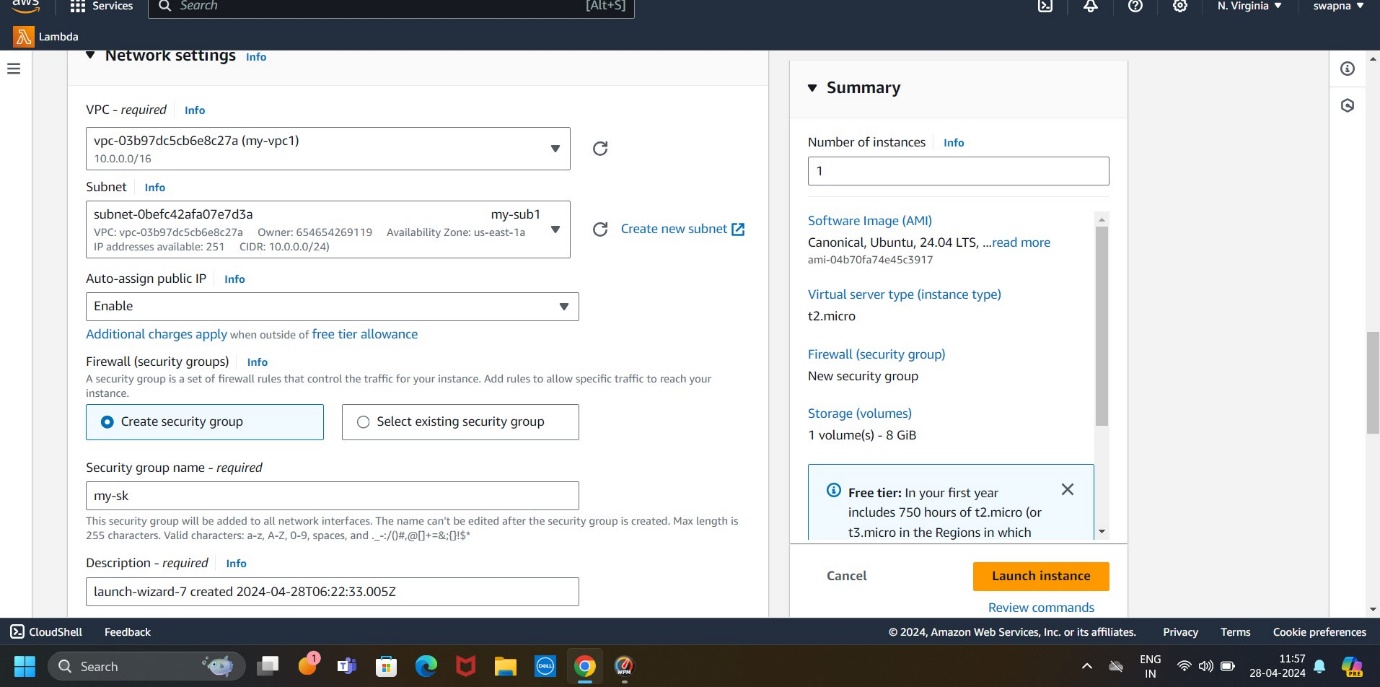


\*To creat a ec2 instance

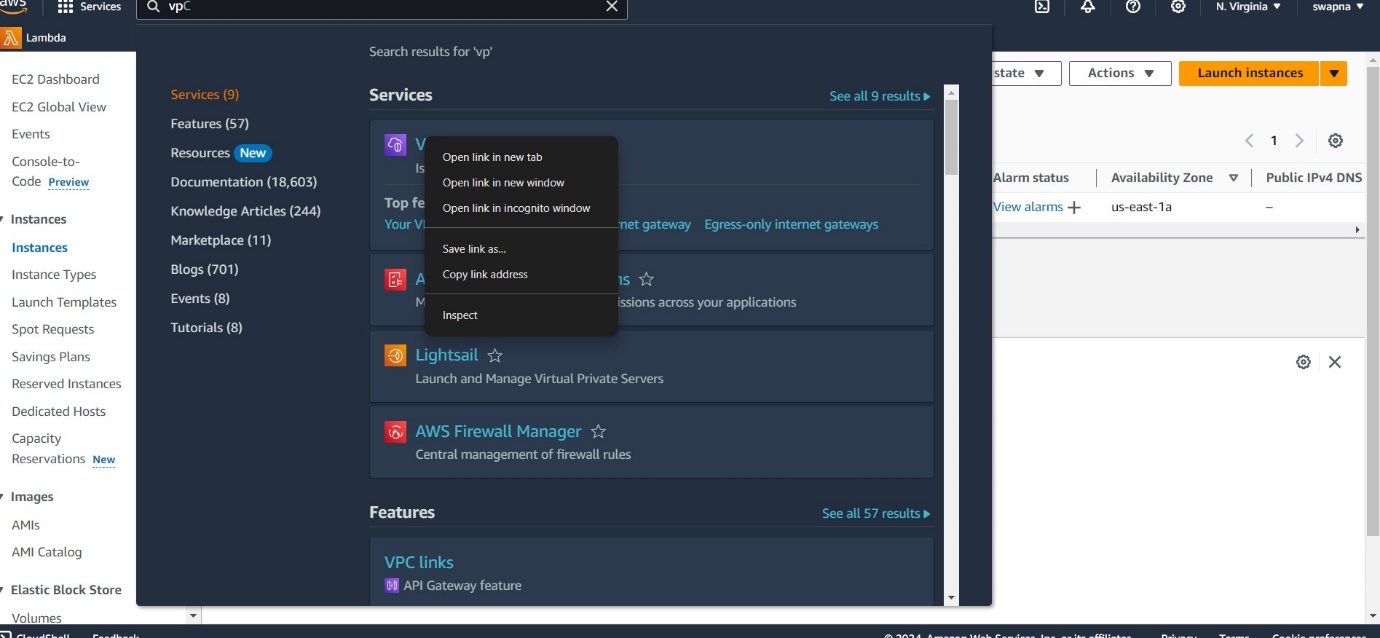




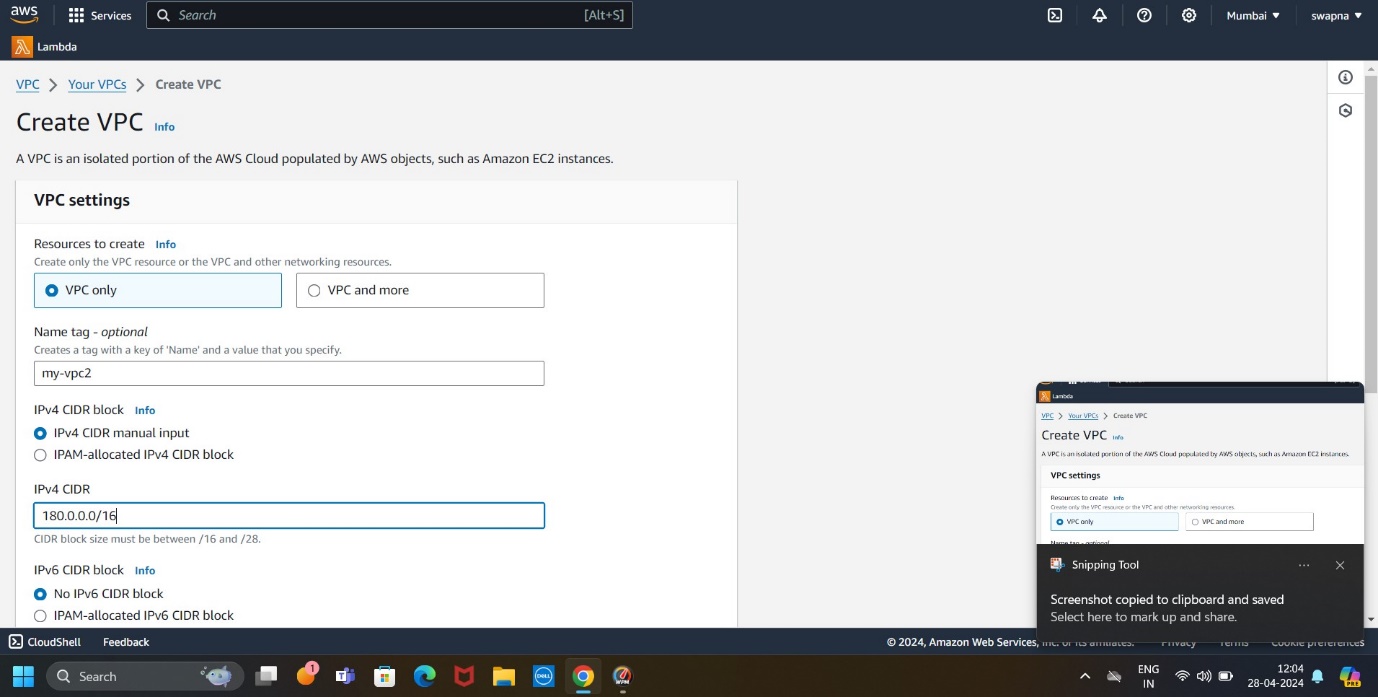
\*To create keypair 



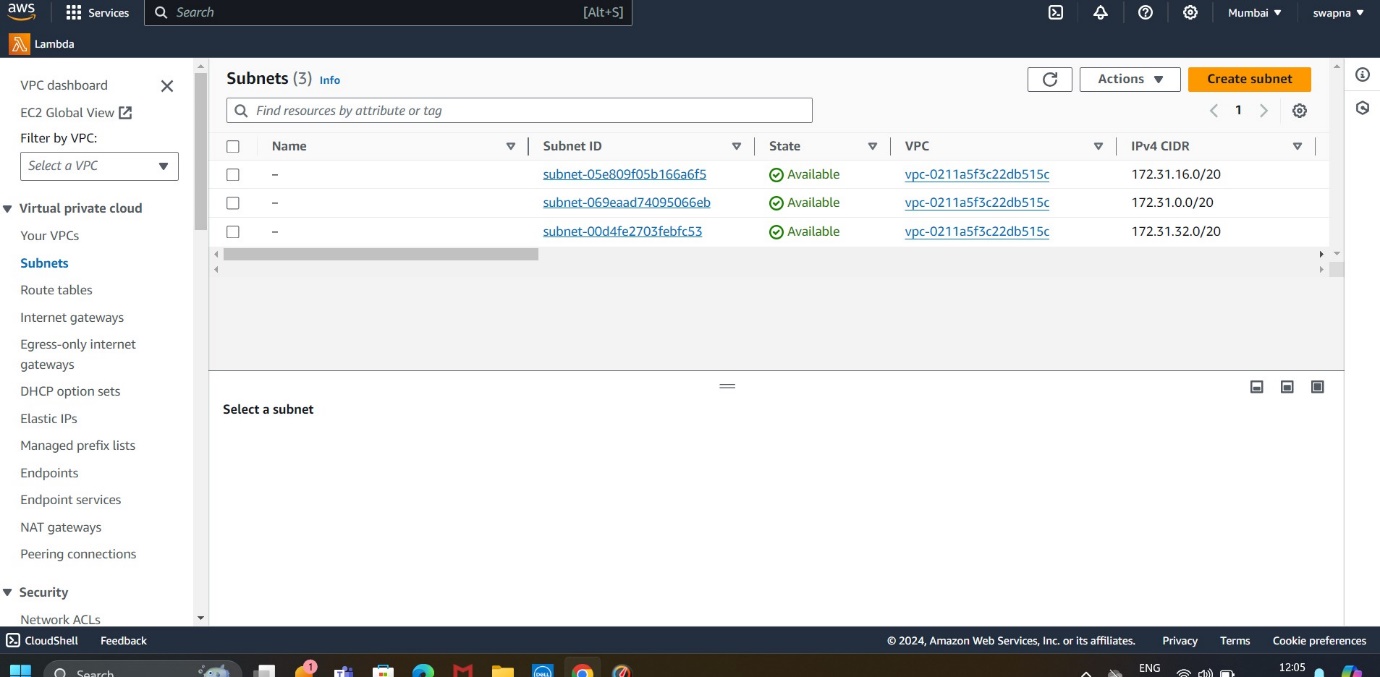
\*To creat vpc2 in mumbai

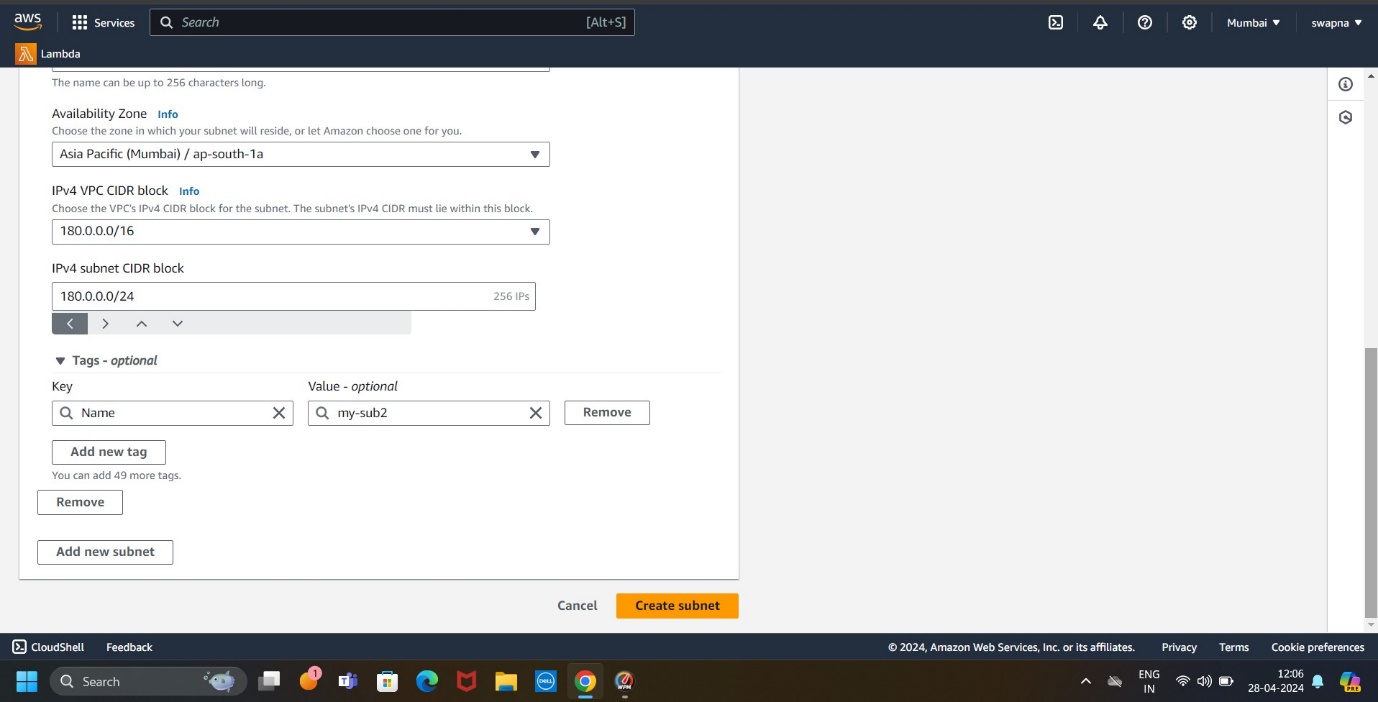


\*To create vpc2

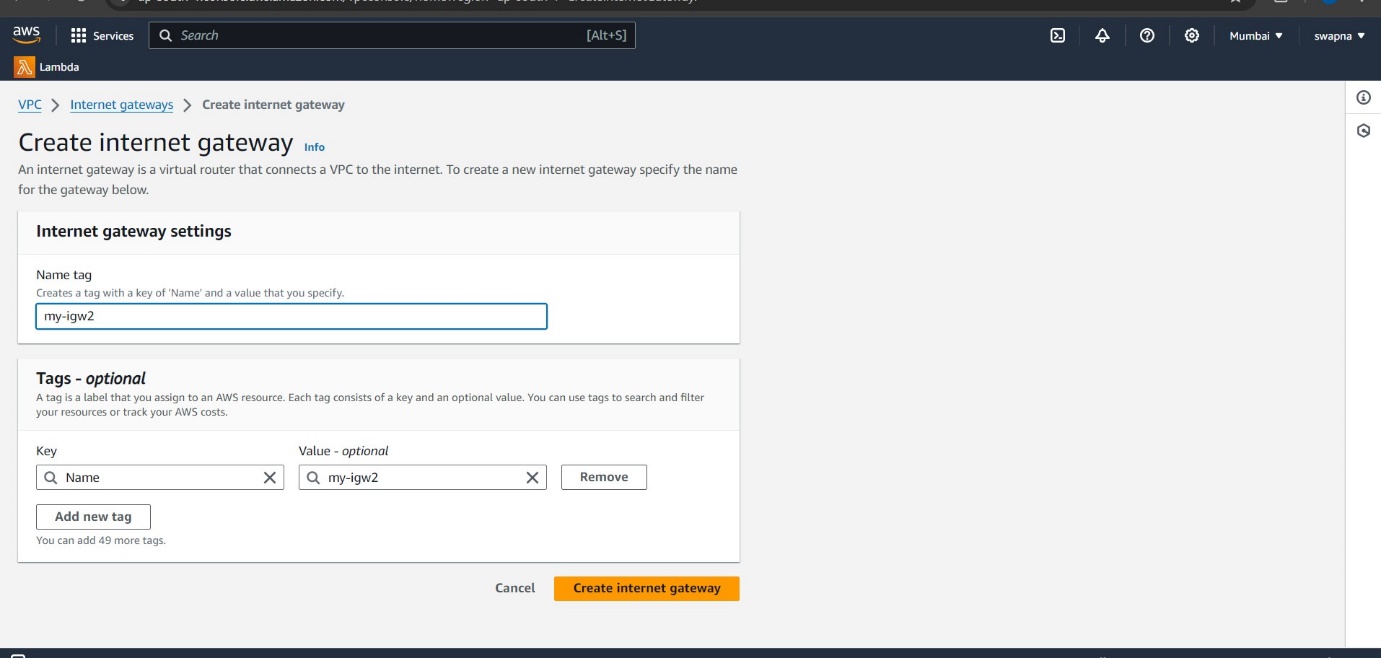


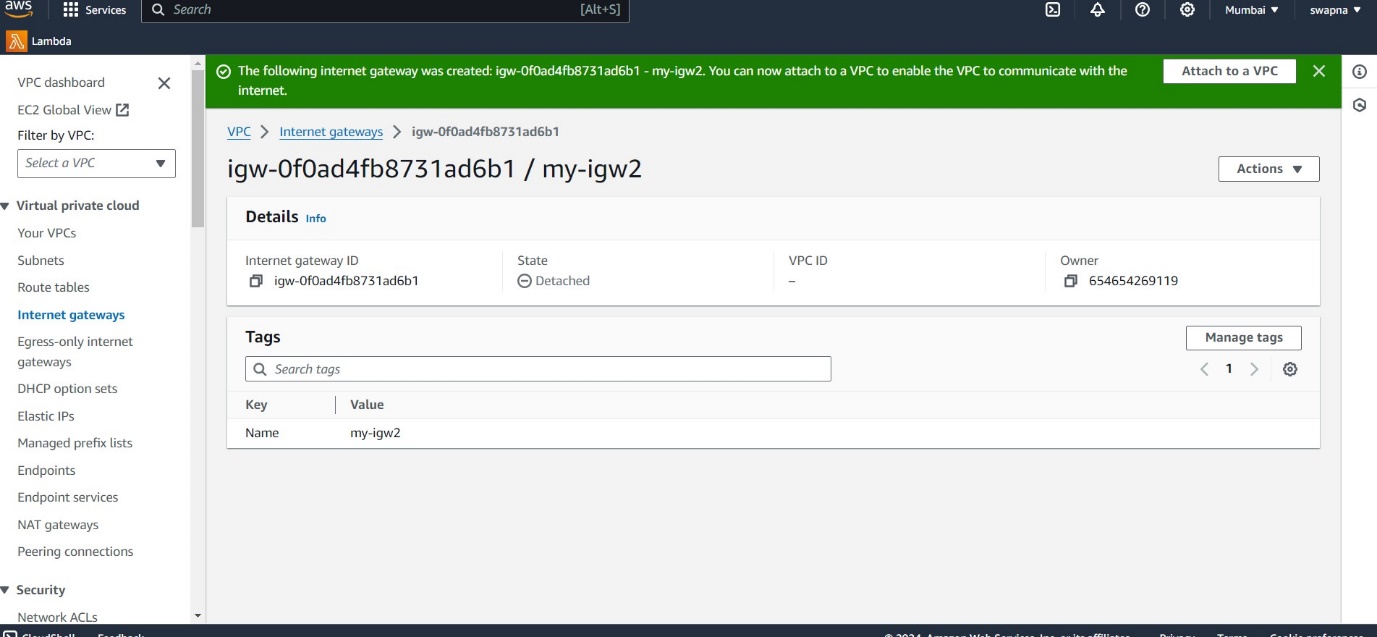
\*To create subnet2



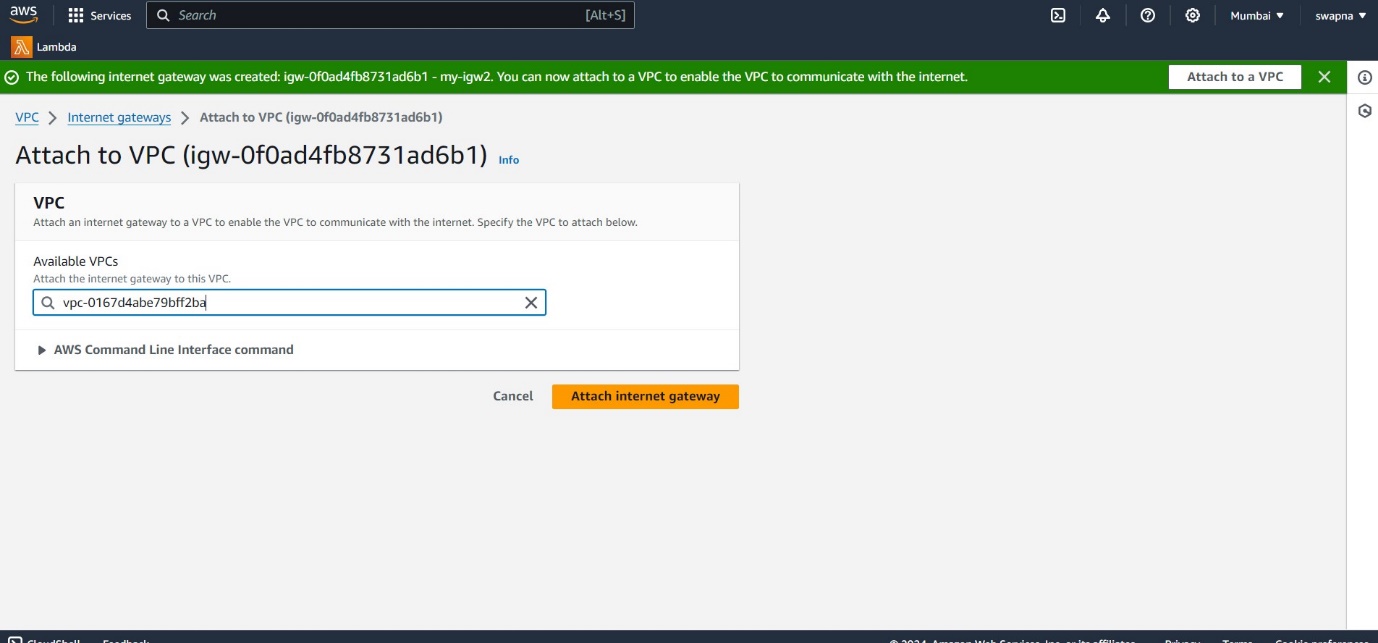


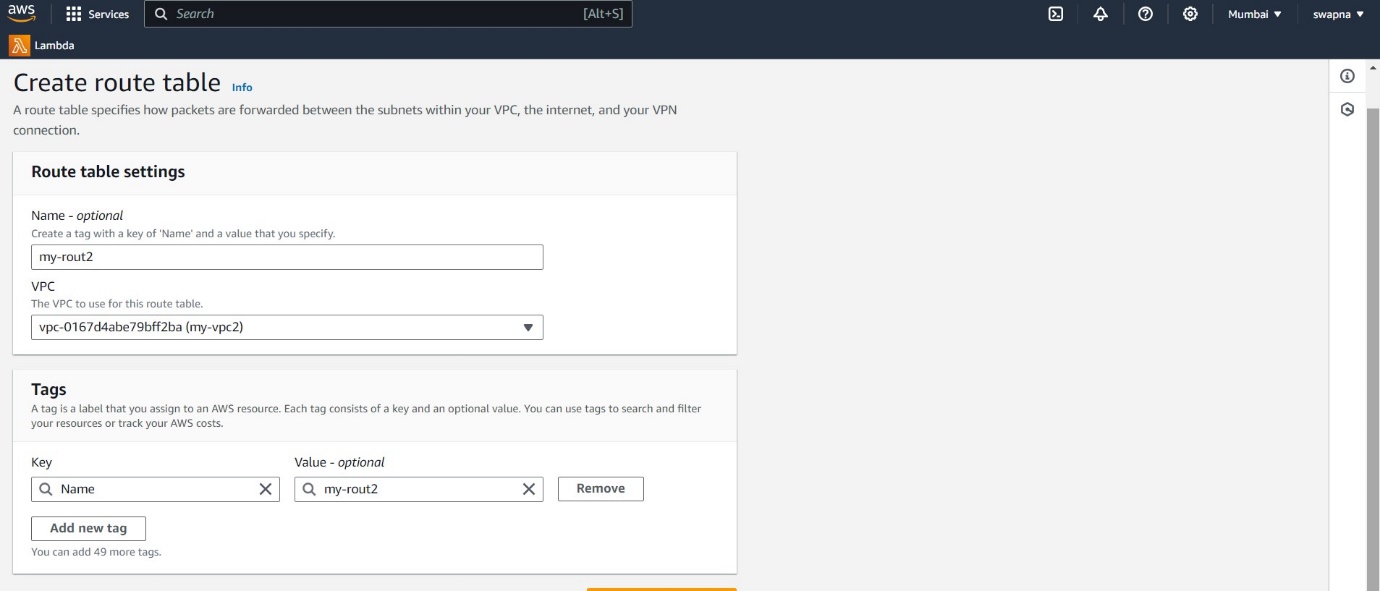
\*To create a internat gateway2



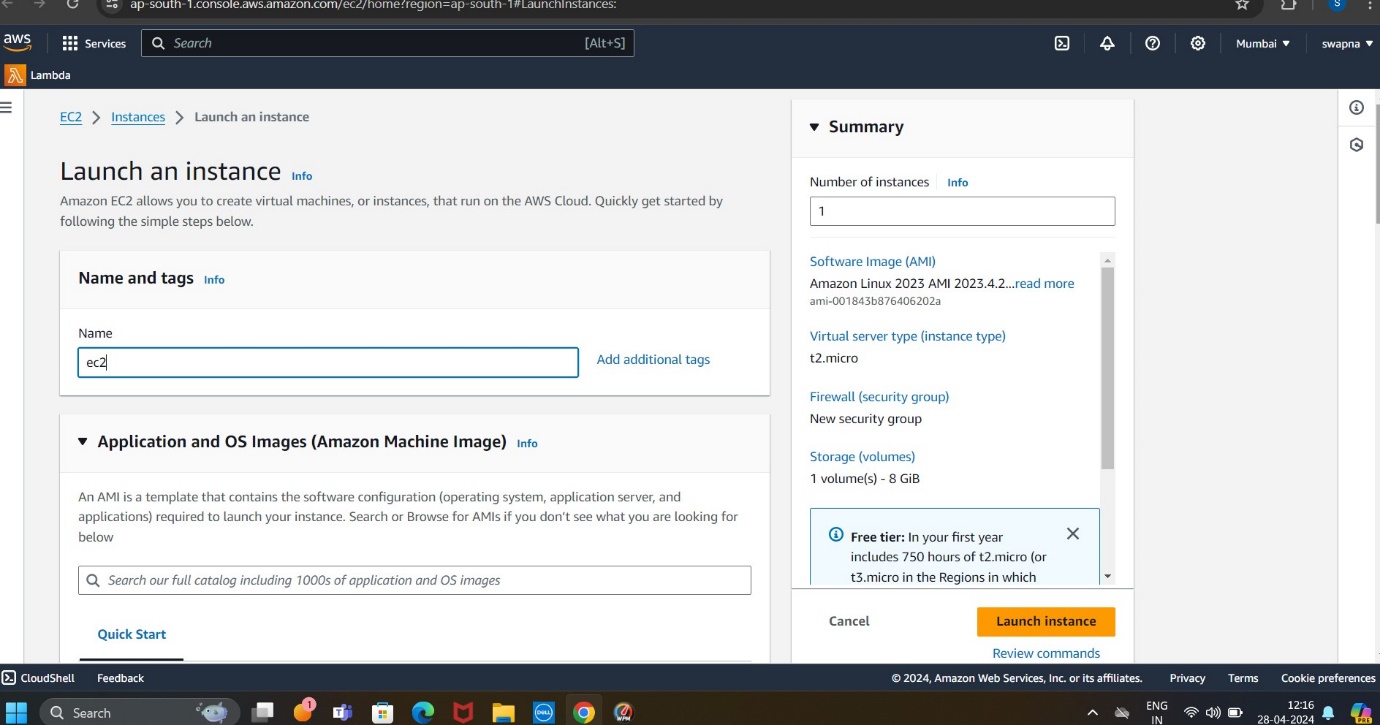


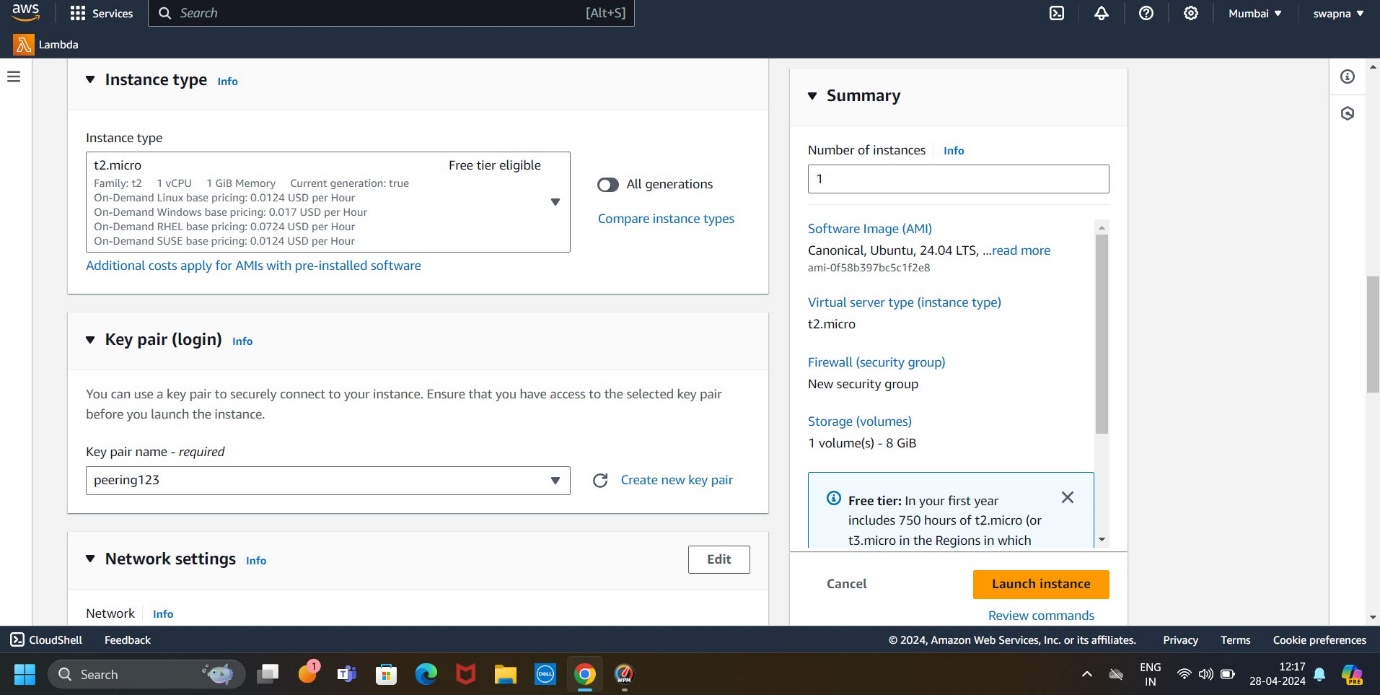
\*Attach internet getway to vpc

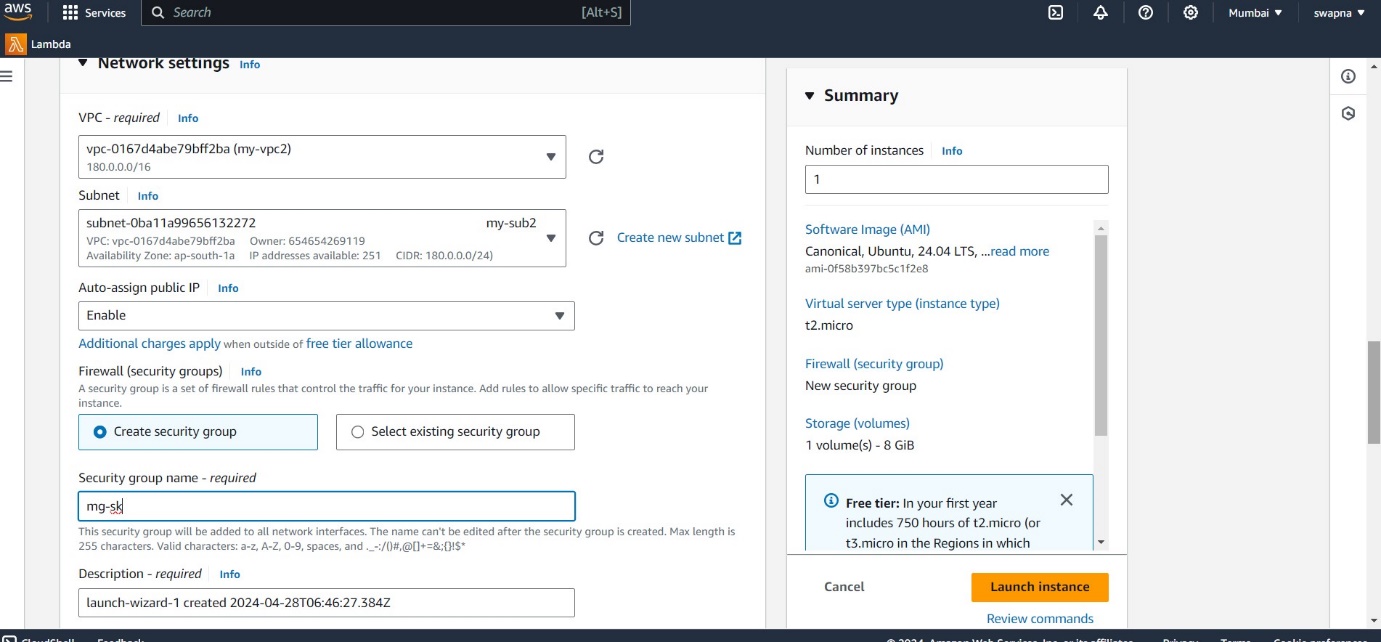


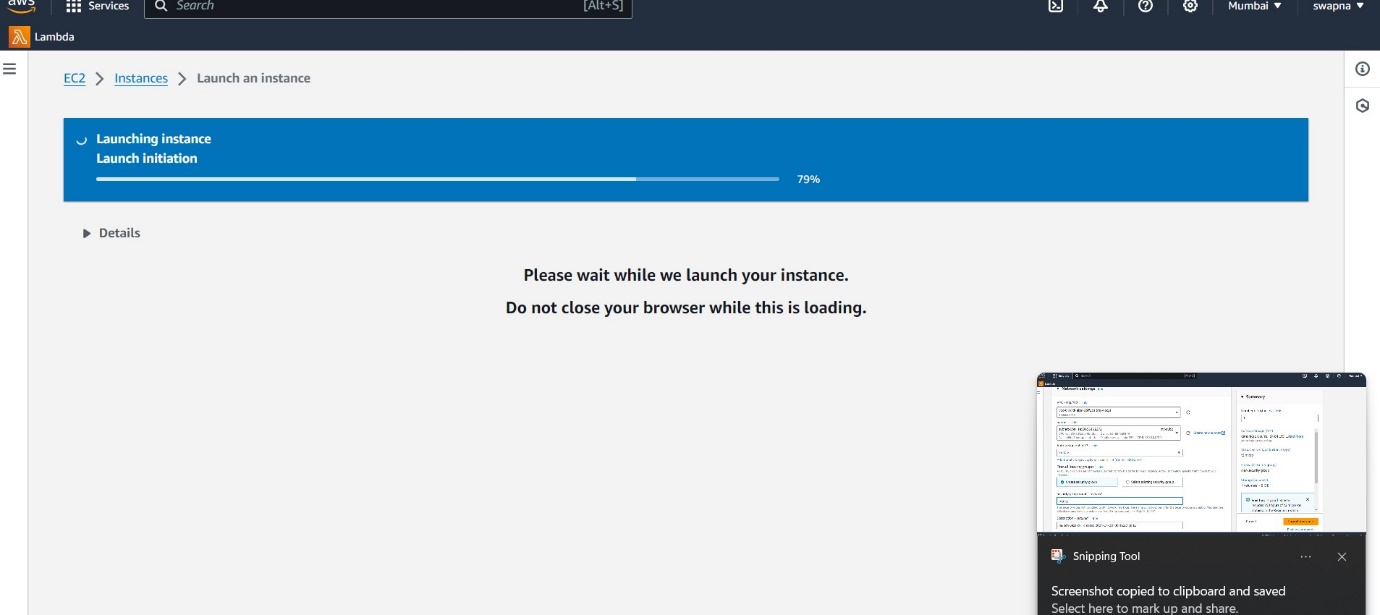
\*To create a route table2 

\*To create a ec2 instance

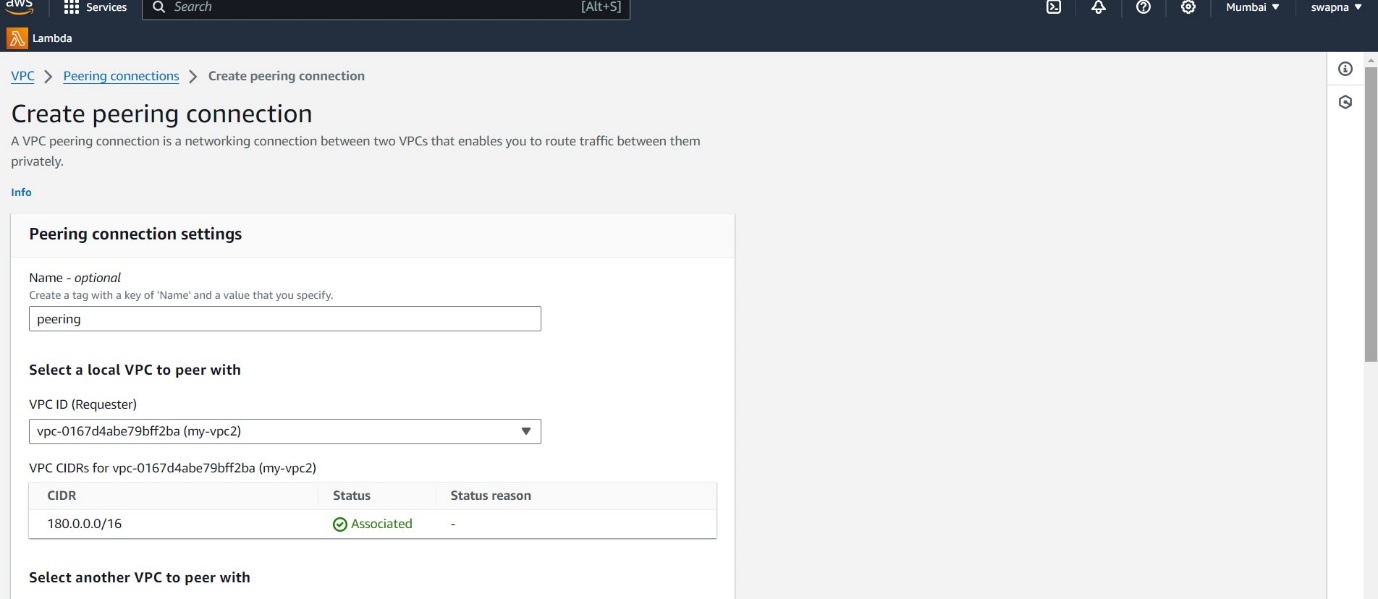




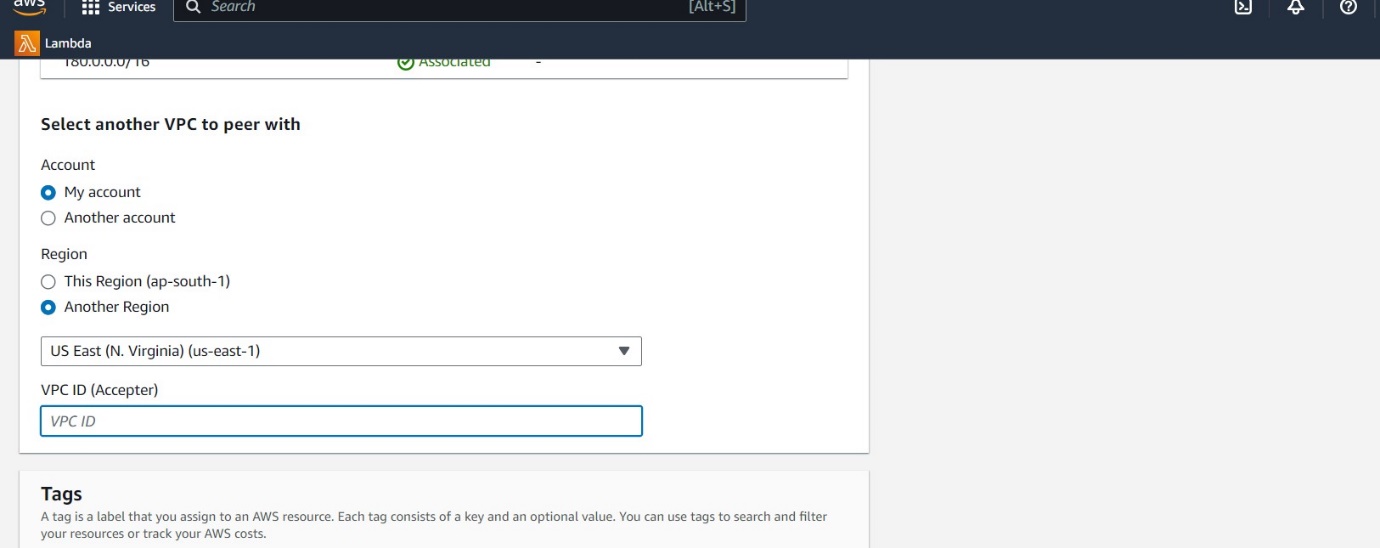


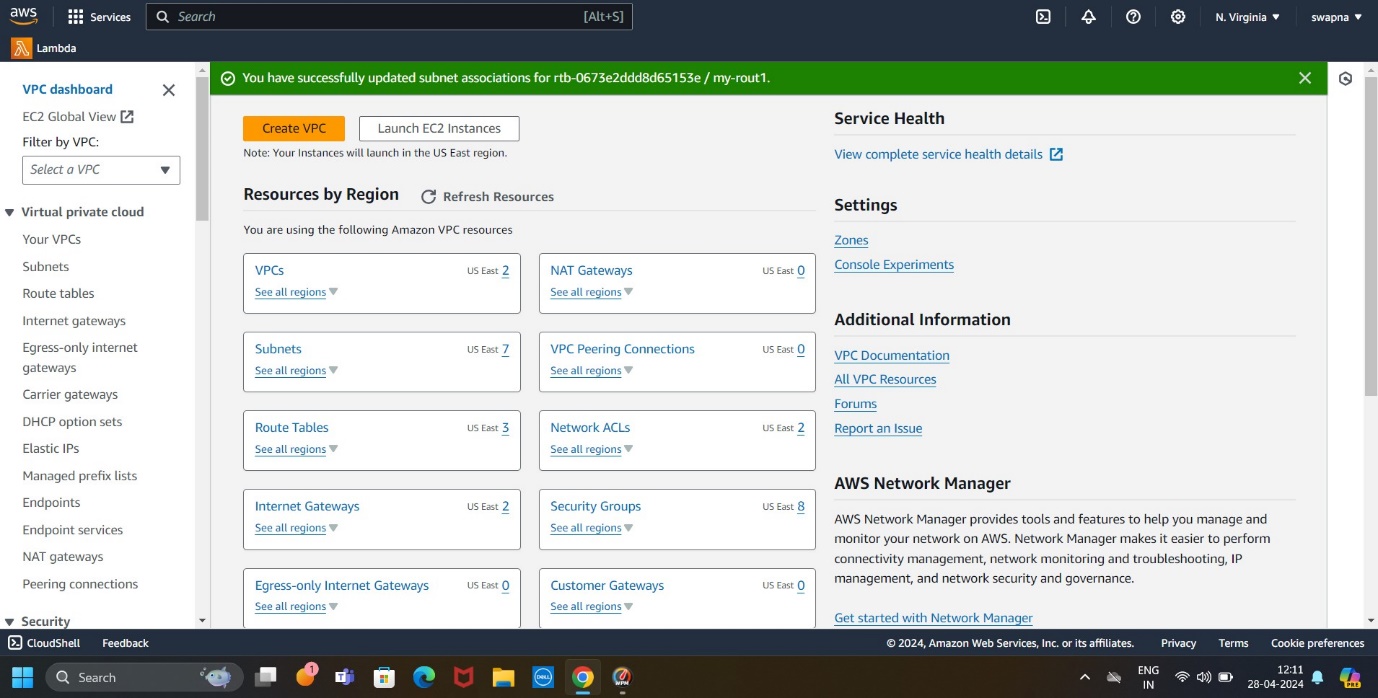


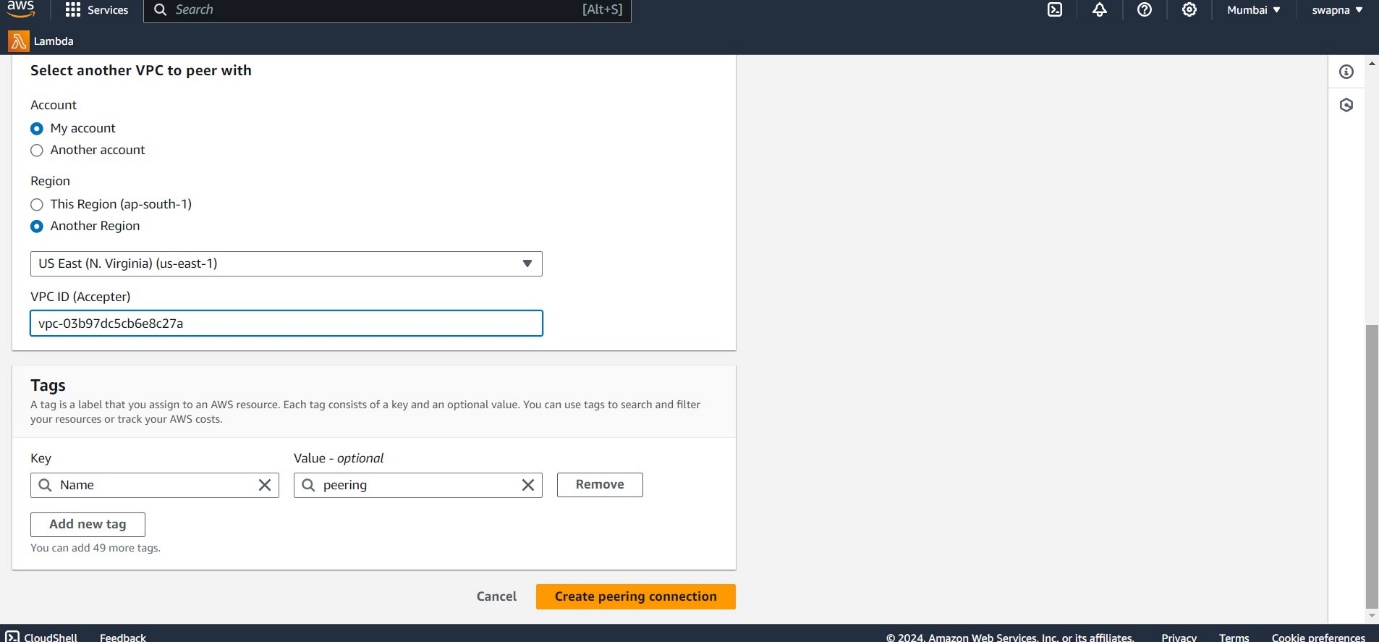
\*To create a peering



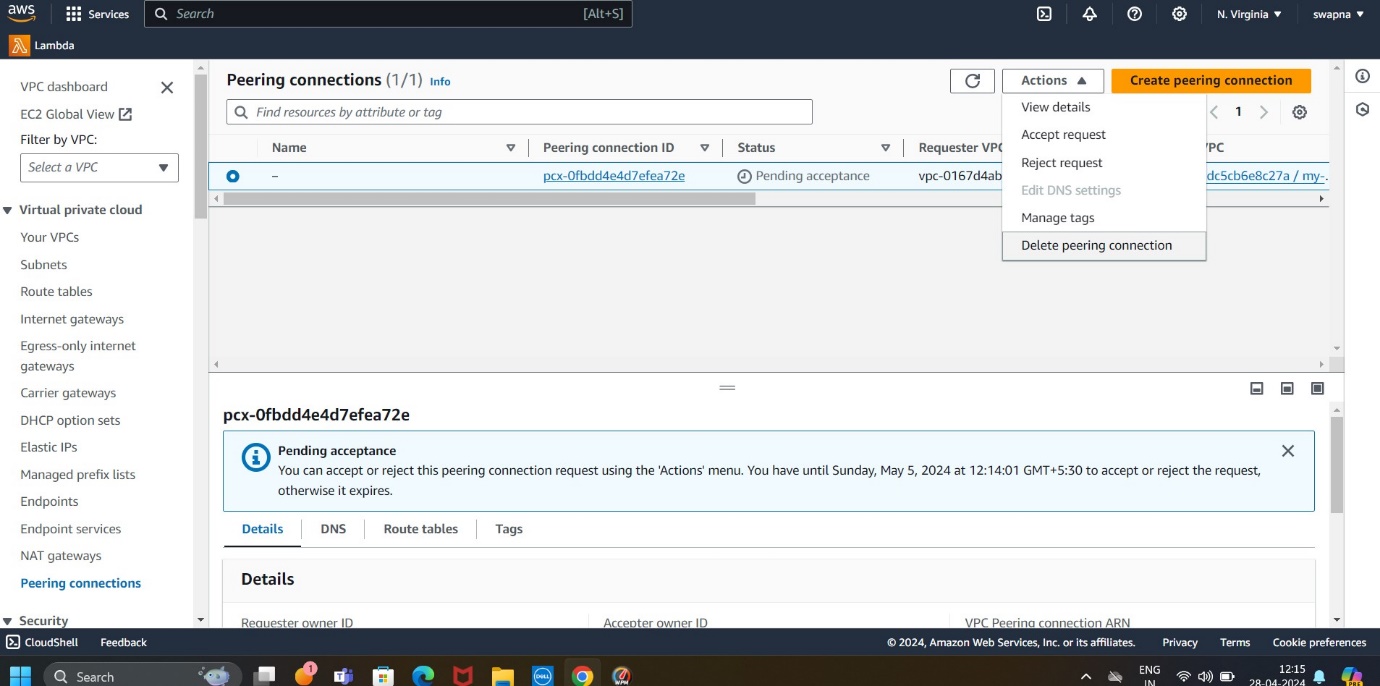
\*To secelect another region (vpc1 id)



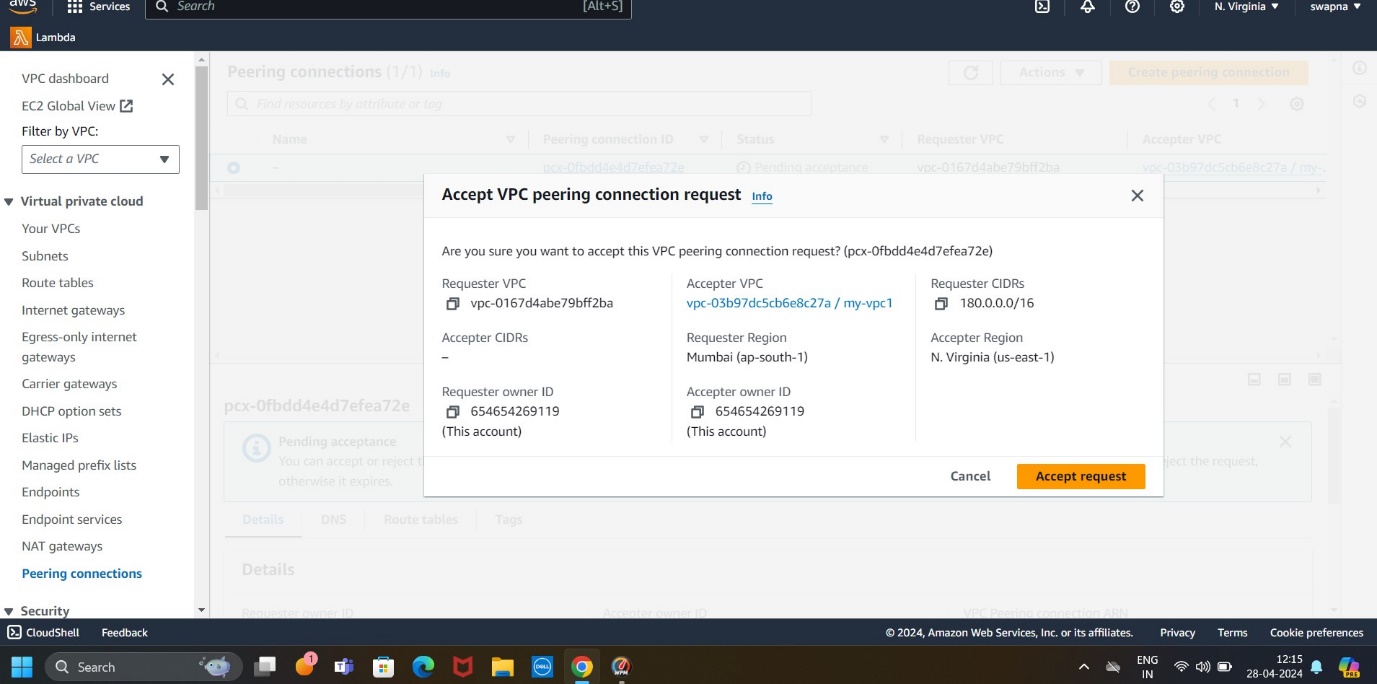




\*To request accept peering

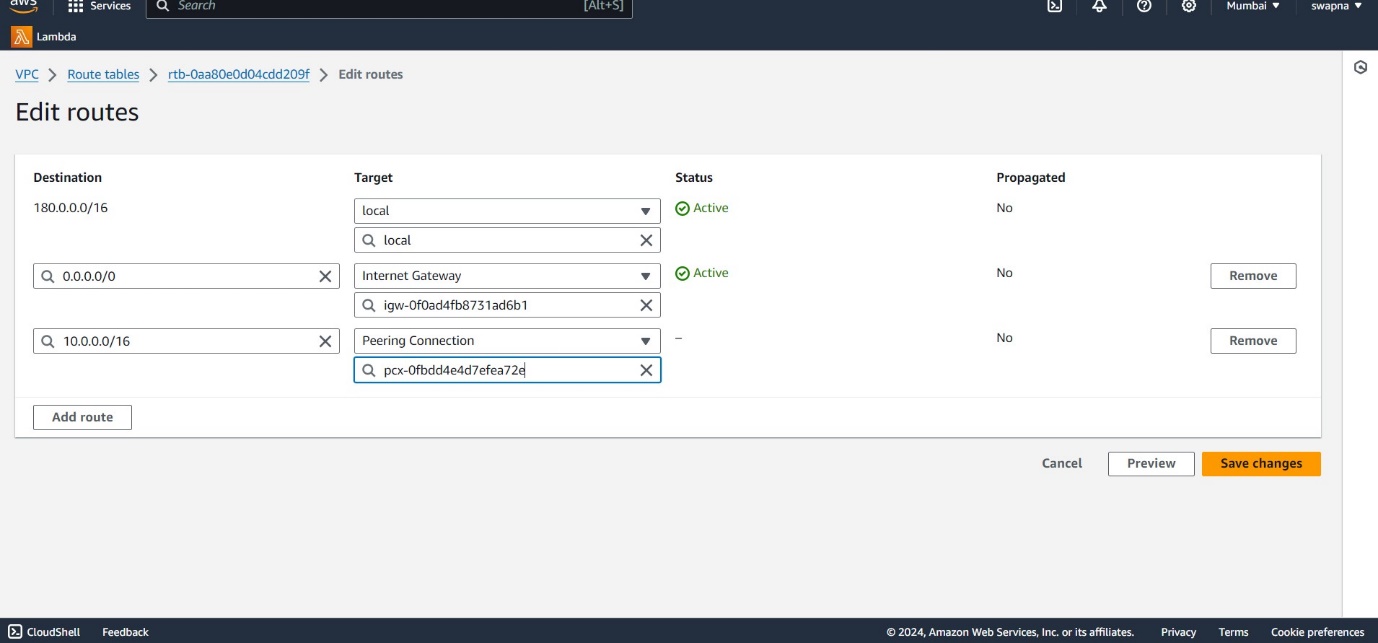


\*tha request is accept peering(vpc1 to vpc2)



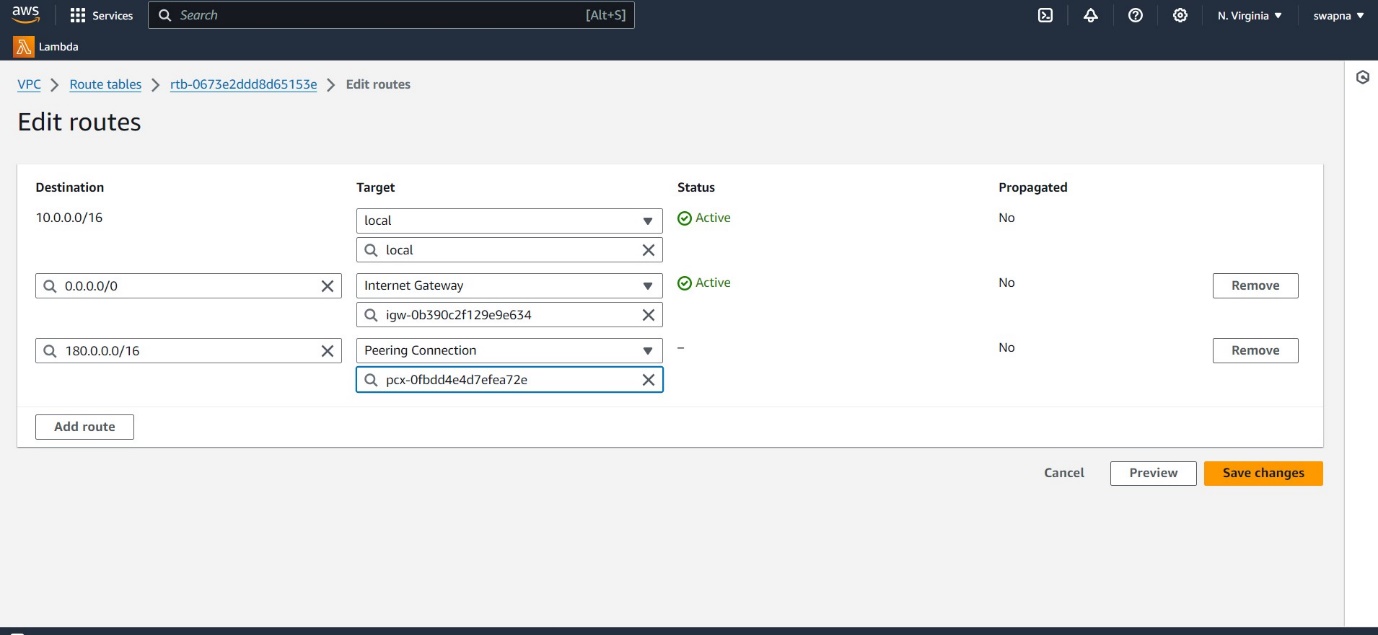
\*To connect peering connection to route table2

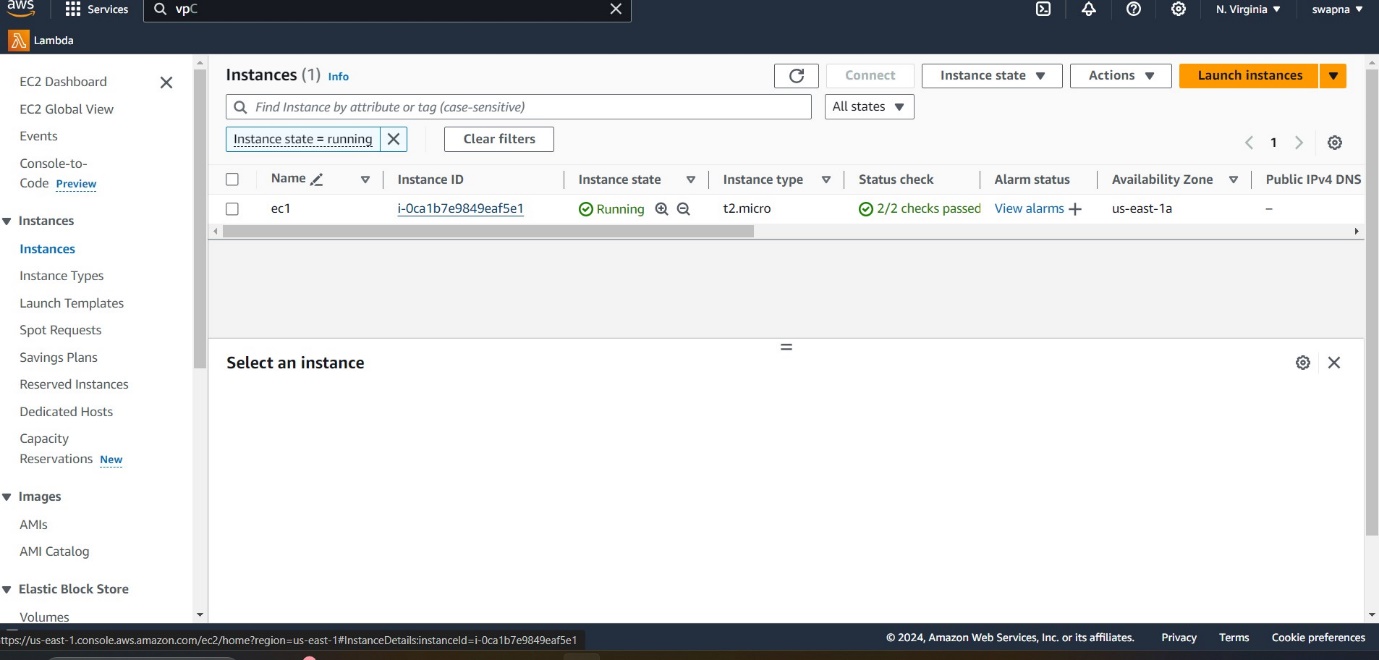
&give to onether (vpc1 CIDR 10.0.0.0/16)



\*To connect peering connection to route table1

&give to onether( vpc2 CIDR 180.0.0.0/16)

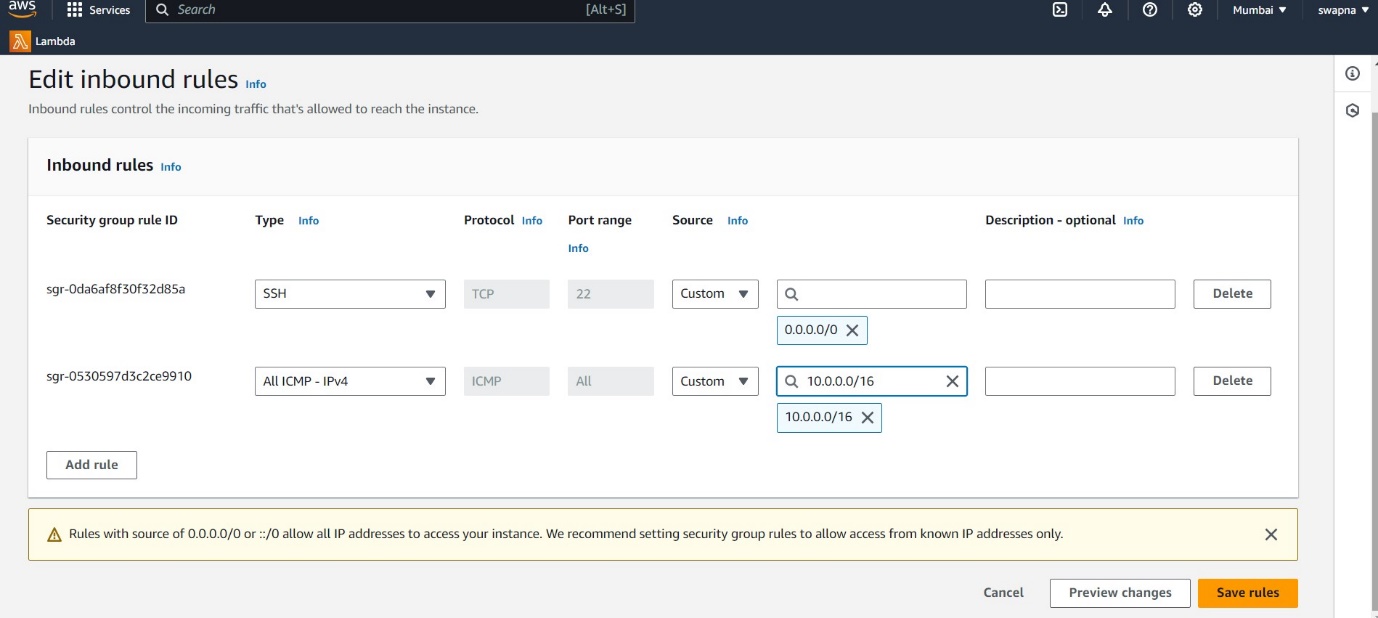




\*To connect inbound role to ec1(vpc2 cidr 180.0.0.0/16)

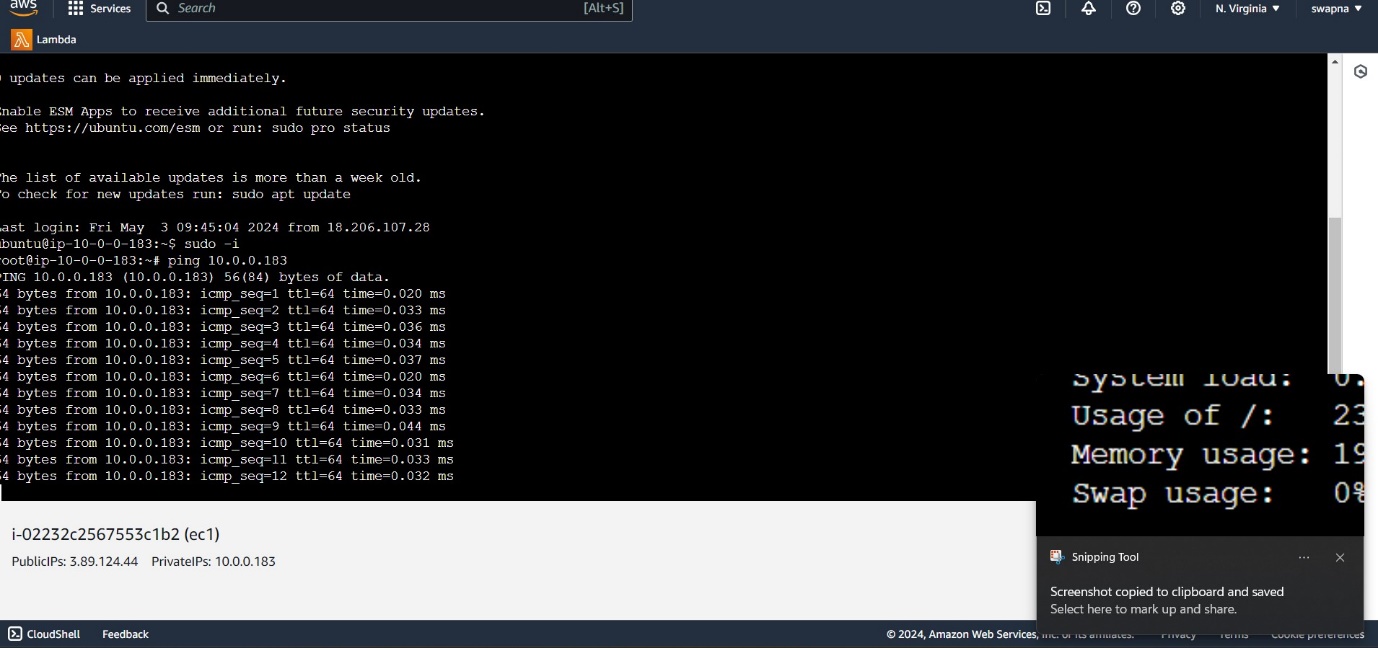


\*To connect inbound role to ec2 (vpc1 cidr 10.0.0.0/16)



\*To connecting ec1 by using peering(virginia)

Command: ping



\*To connecting ec2 by using peering(mumbai)

Command: ping

