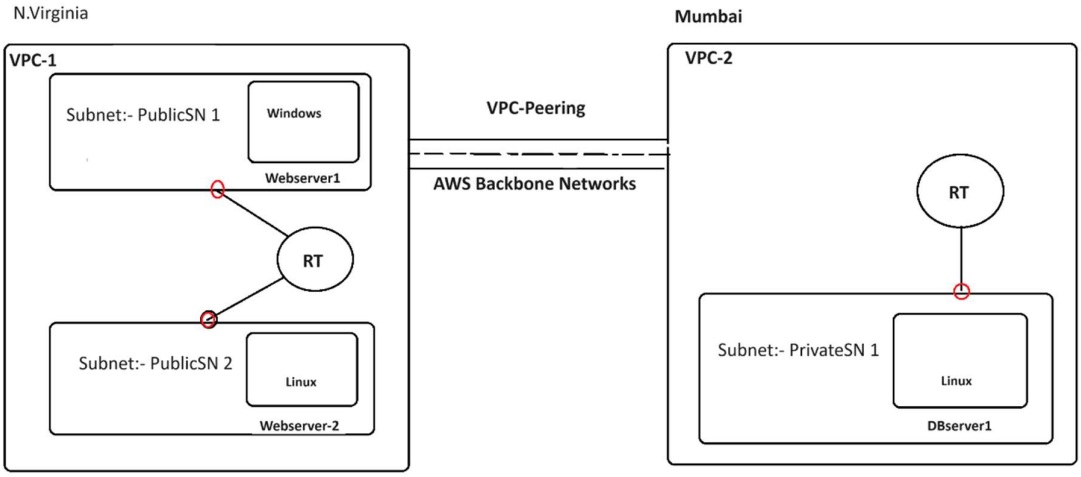
Objective:- VPC peering from different regions

Architecture:-



S1) Create VPC-01 & VPC-02

- VPC-01 :- 10.21.10.12/17

Class A 17-8 = 9

Subnet mask:- 255.255.128.0

Block Size :- 256-128 = 128

IPs	SUBNET1	SUBNET2
Network	10.21.0.0 / 17	10.21.128.0 / 17
Brodcasting	10.21.127.255 / 17	10.21.255.255 / 17

- Subnet1 :- 10.21.32.0 / 24

Class A 24-8 =16 Bits borrow from host

Subnet mask:- 255.255.255.0

Block Size :- 256 - 255 = 1

IPs	SUBNET1	SUBNET2
Network	10.21.32.0 / 24	10.21.33.0 / 24
Brodcasting	10.21.32.255 / 24	10.21.33.255 / 24

- VPC-02 :- 10.21.132.0 / 24

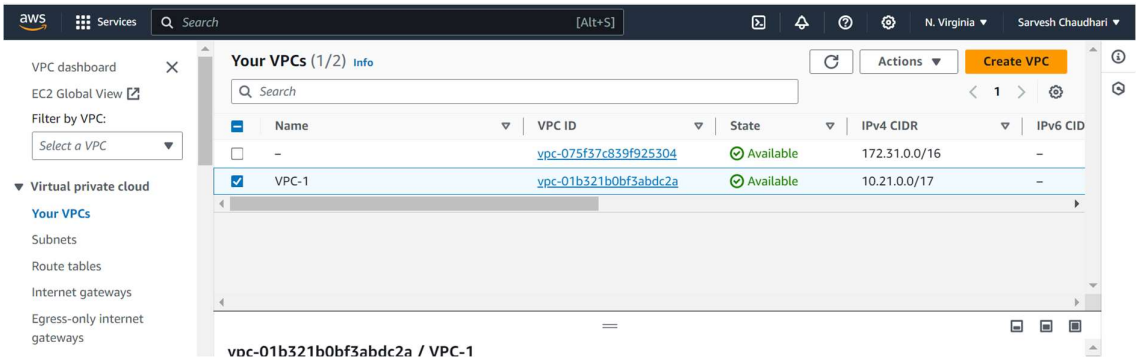
Class A 24-8 =16 Bits borrow from host

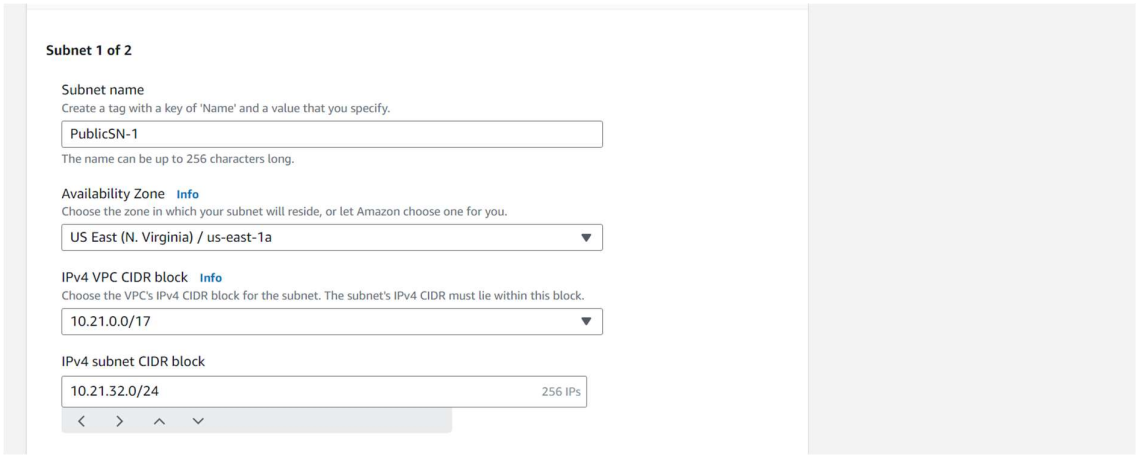
Subnet mask:- 255.255.255.0

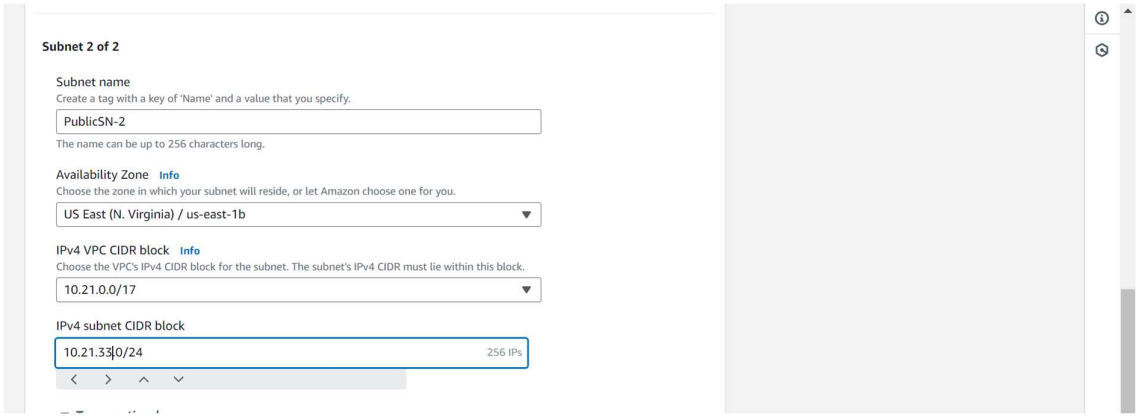
Block Size :- 256 - 255 = 1

IPs	SUBNET1	SUBNET2
Network	10.21.132.0 / 24	172.21.133.0 / 24
Brodcasting	10.21.132.255 / 24	172.21.133.255 / 24

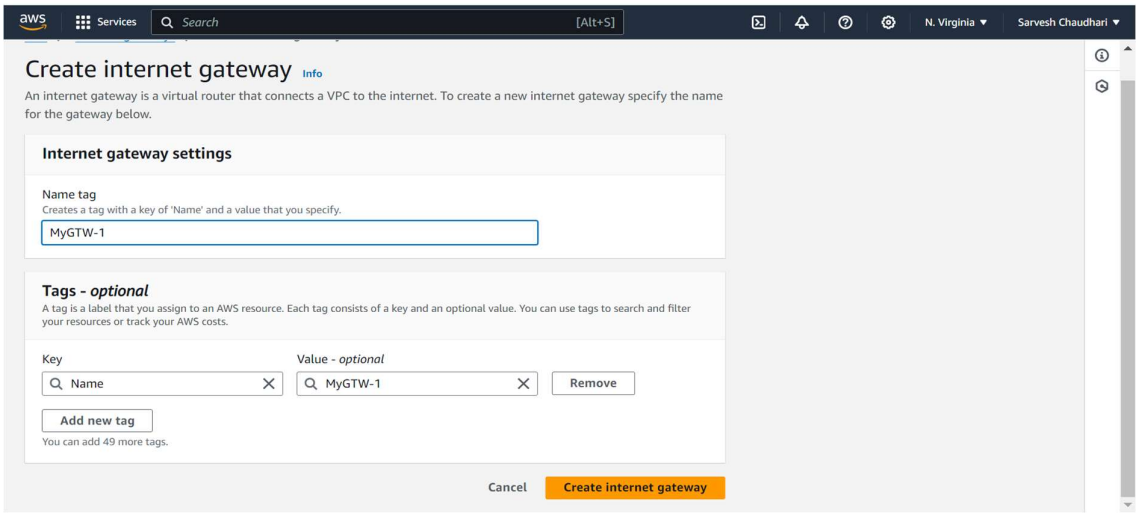
Created VPC-01 in N. Virginia region and there subnet as PublicSN-1 & PublicSN-2



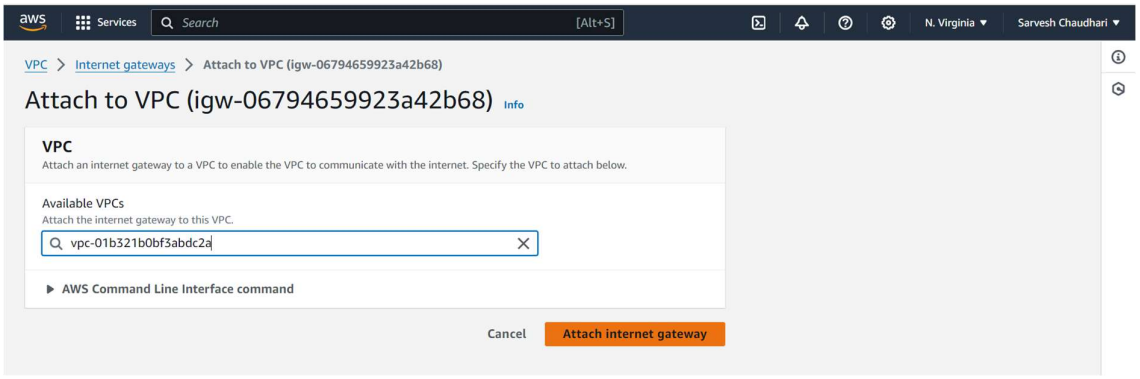




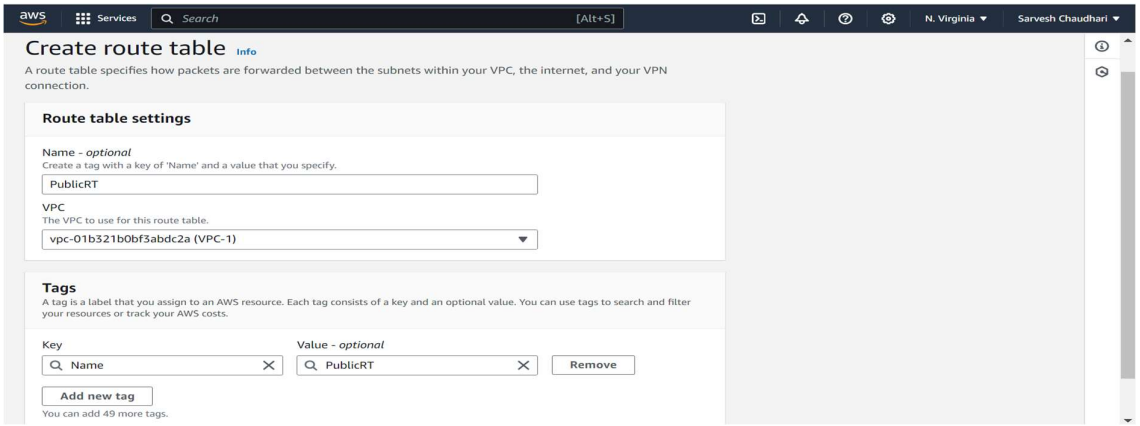
Now create Internet Getway



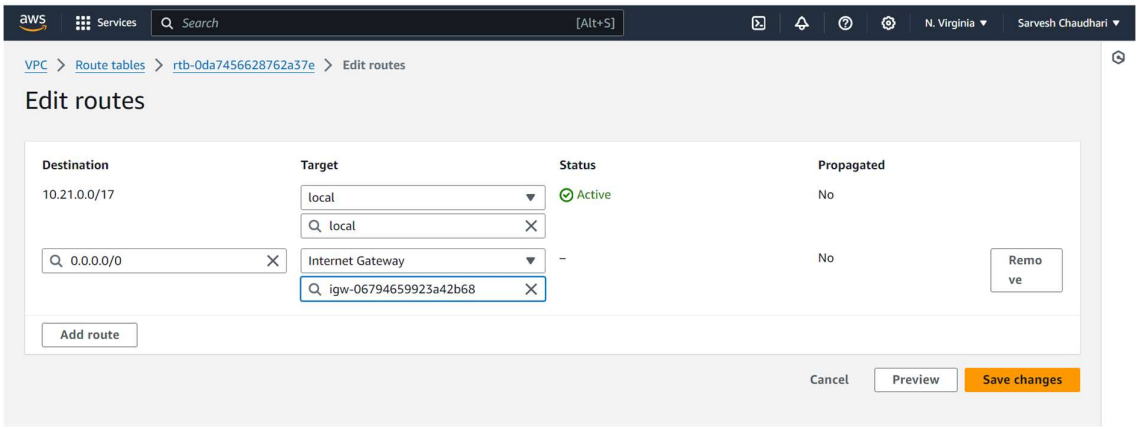
Atach to vpc



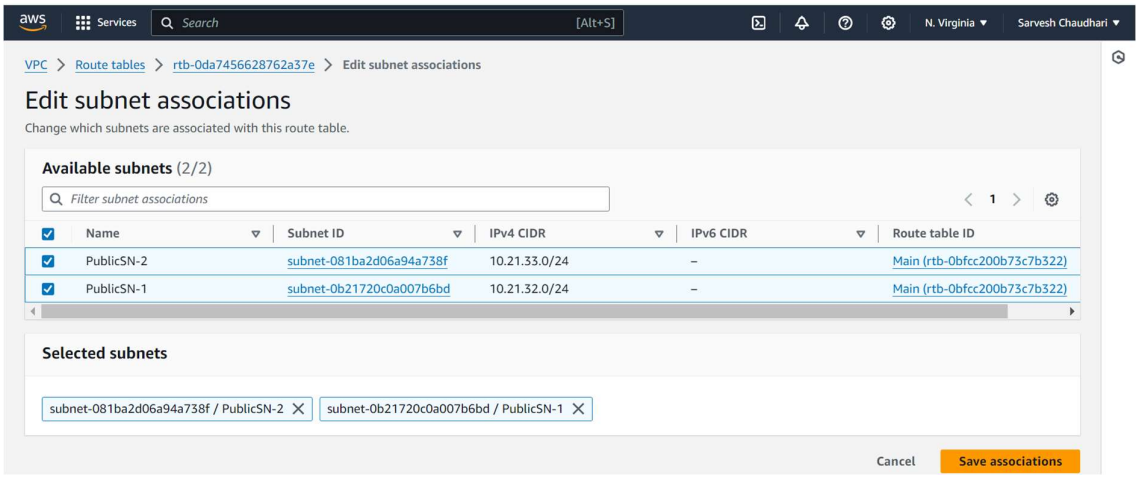
Now create Route Table



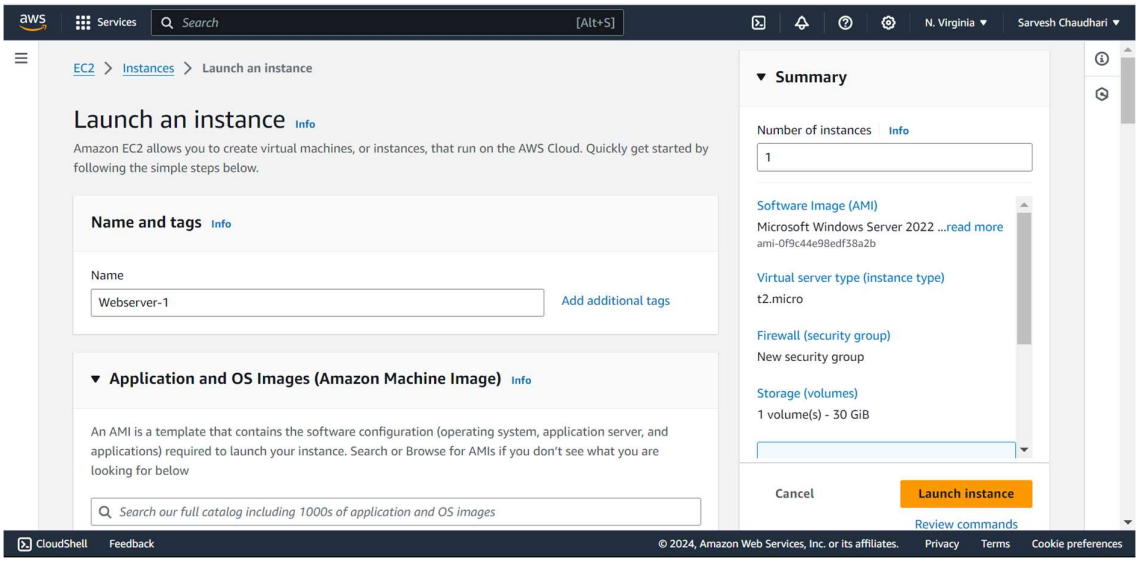
Now edit route then add Internet Getway

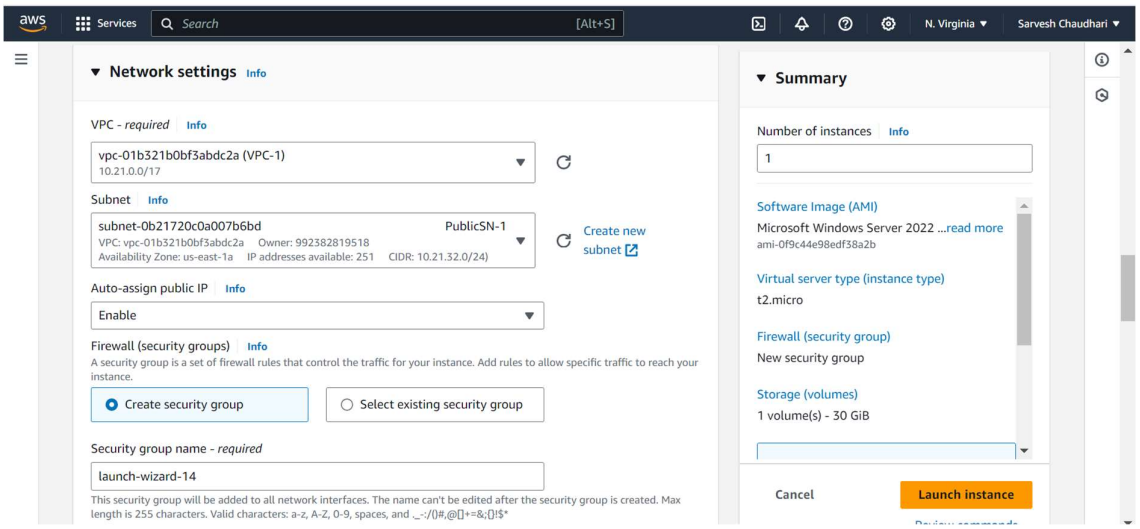


Now add subnet association



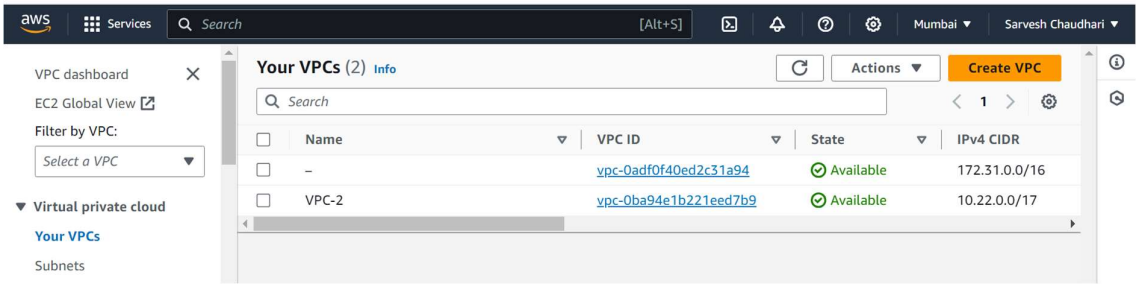
Now create Instance Webserver-1 with windows AMI



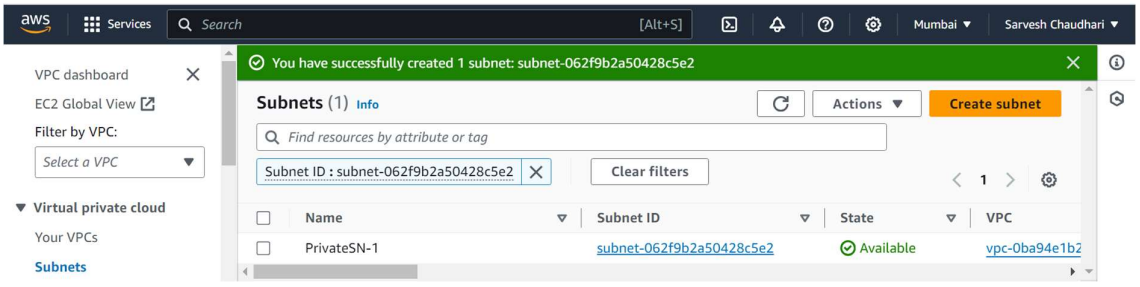


Simillarly create Instance-2 with linux machine

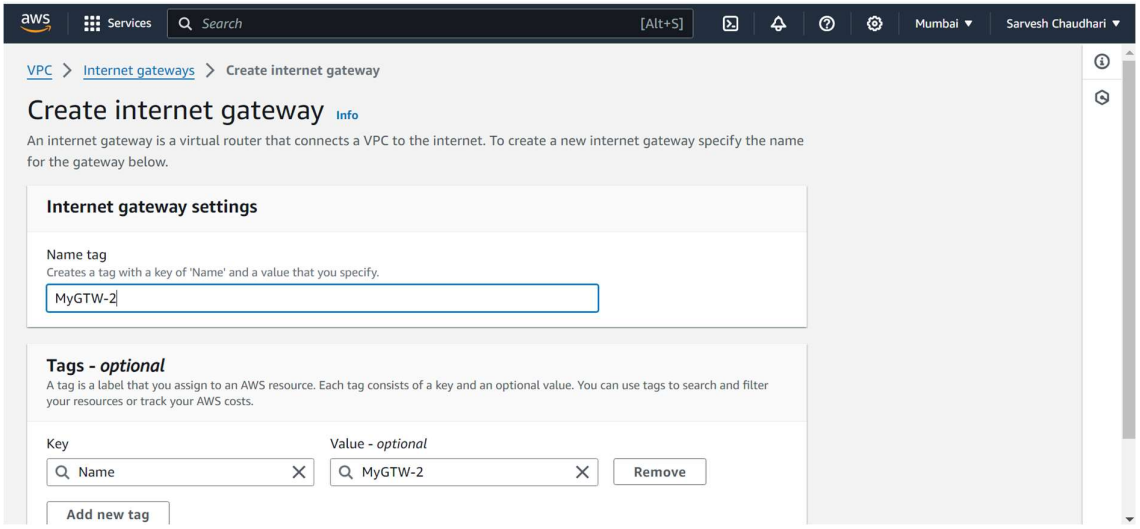
Now Creating new VPC in Mumbai Region

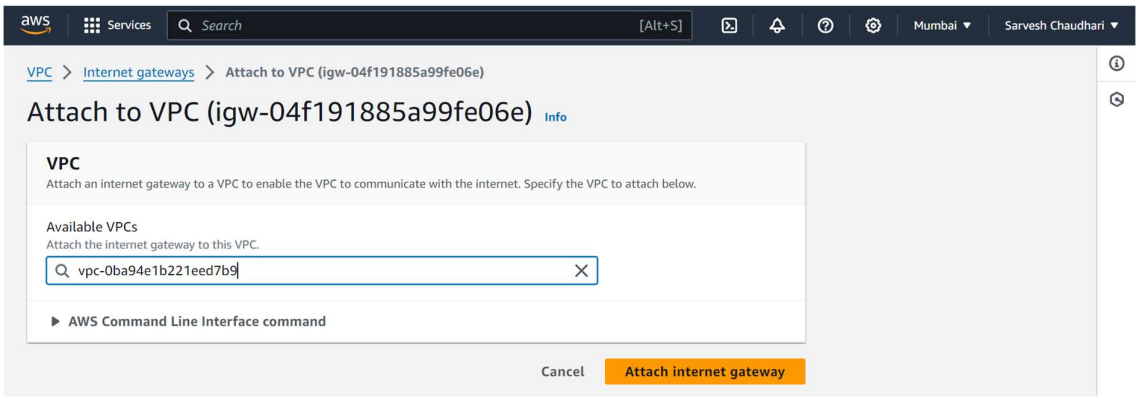


Created private subnet

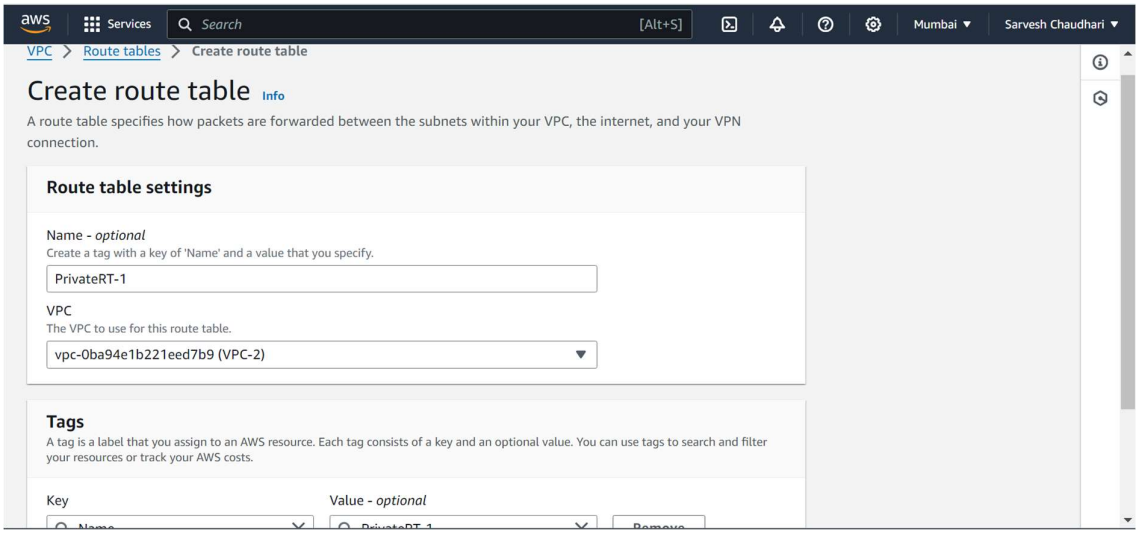


Create Internet Getway and attach to VPC





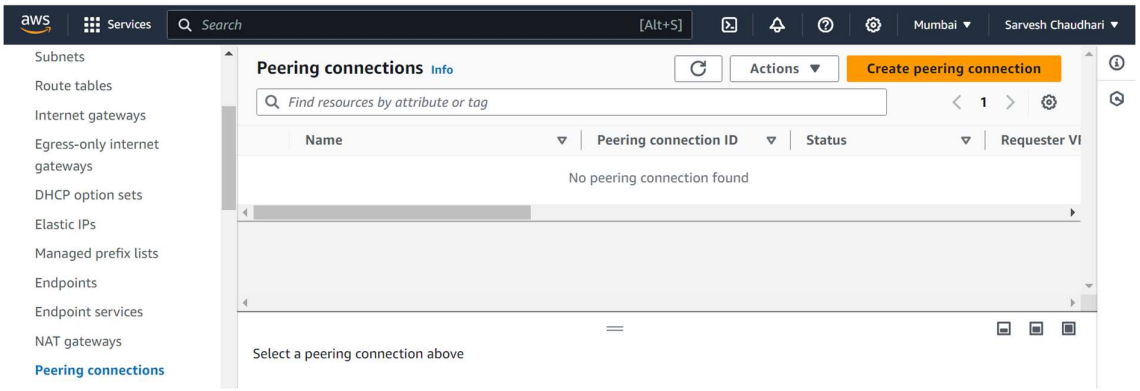
Create Route Table

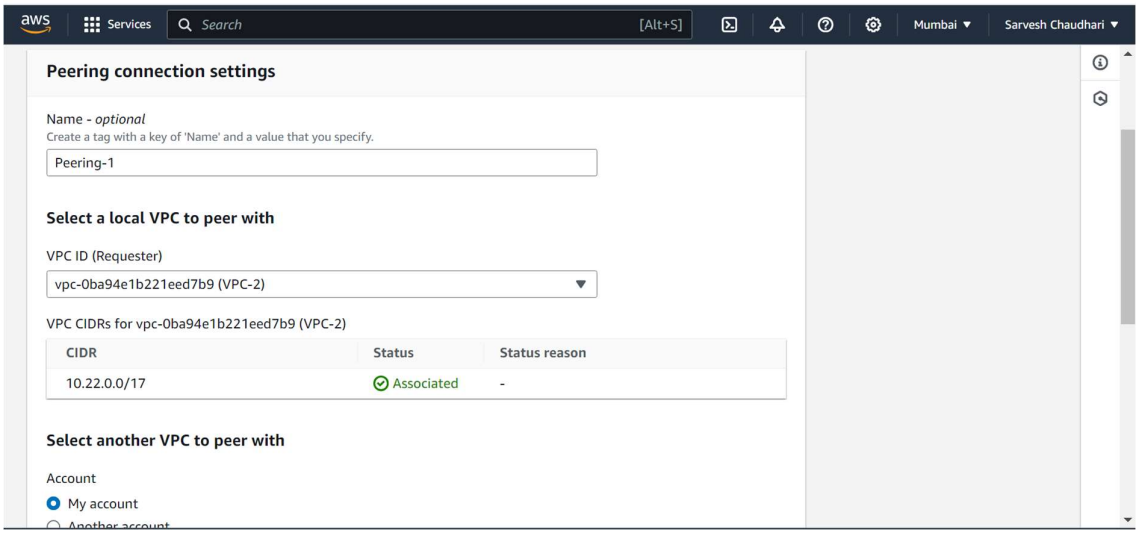


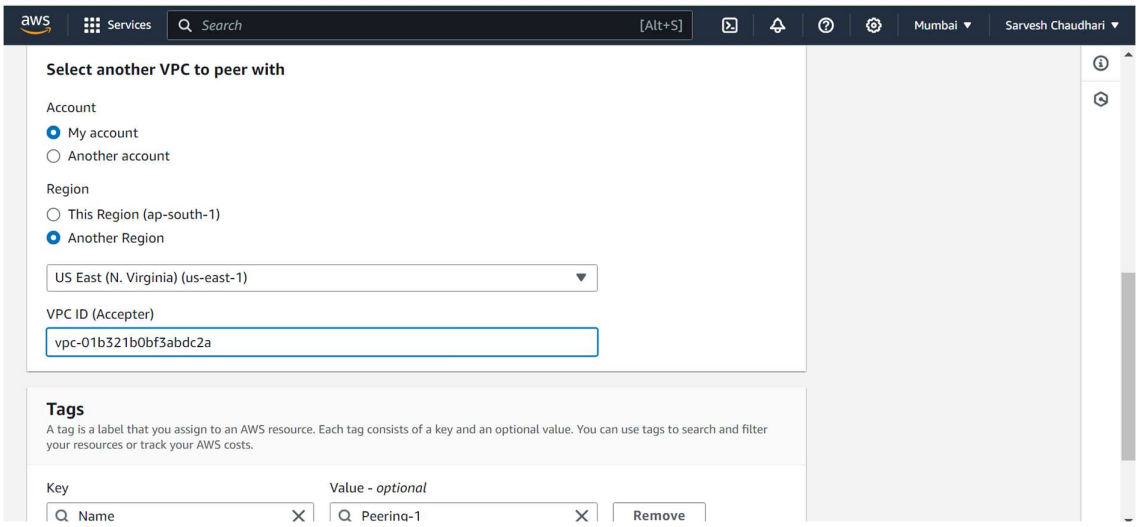
Now add route of Internet Getway and associate the private-subnet

Now create DBserver in instance-2

Now in Mumbai region create Peering Connection request

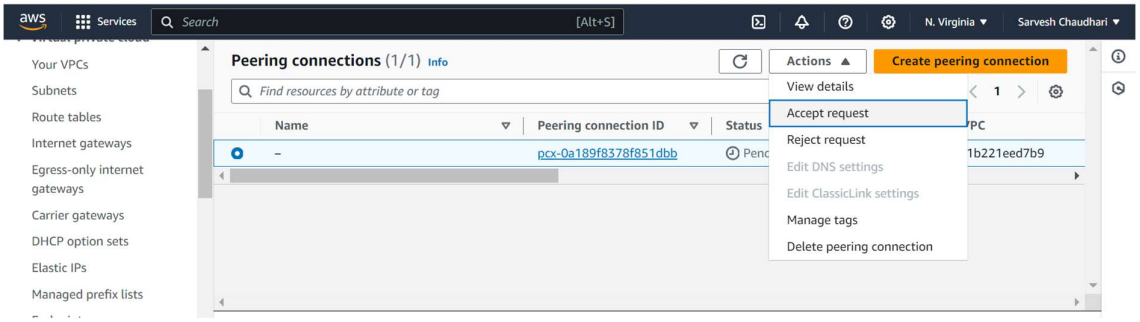




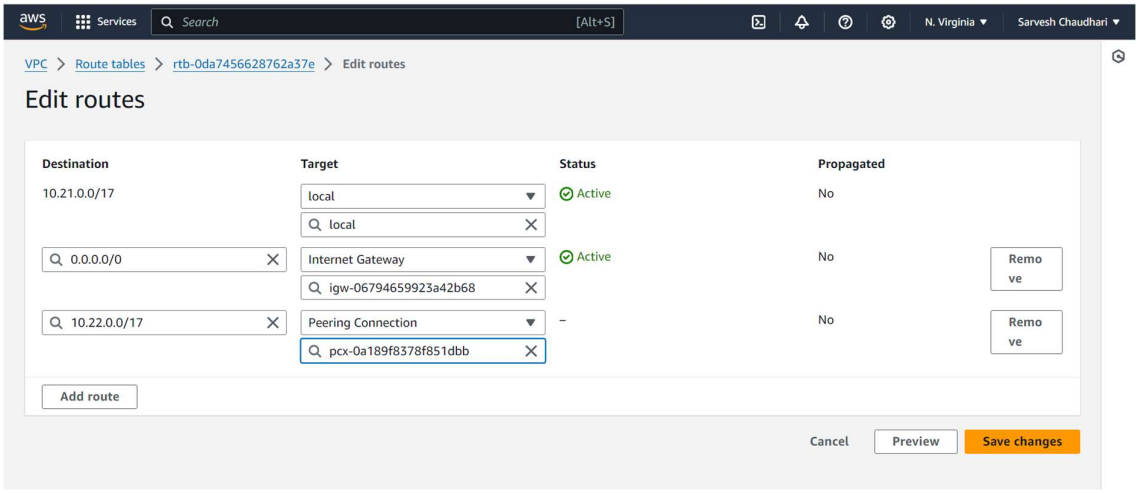


Then Click on Peering Connection

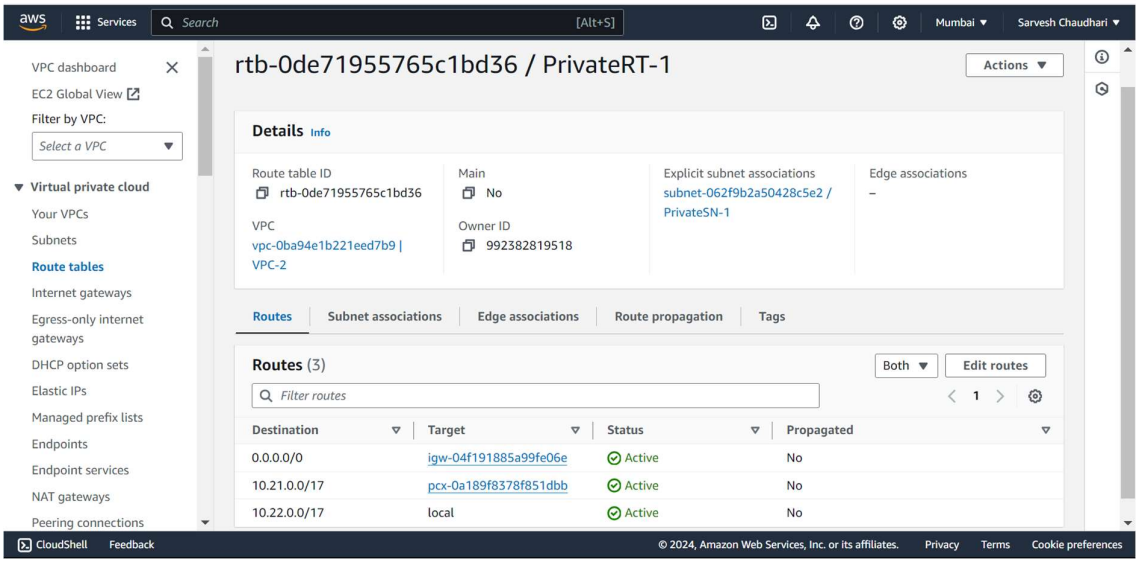
Now go to N.Virginia region and in Peering Connection select and accept request.



Now go to N.virginia Region Now In route table add route in which give destination as VPC-1 ip and target as peering connection

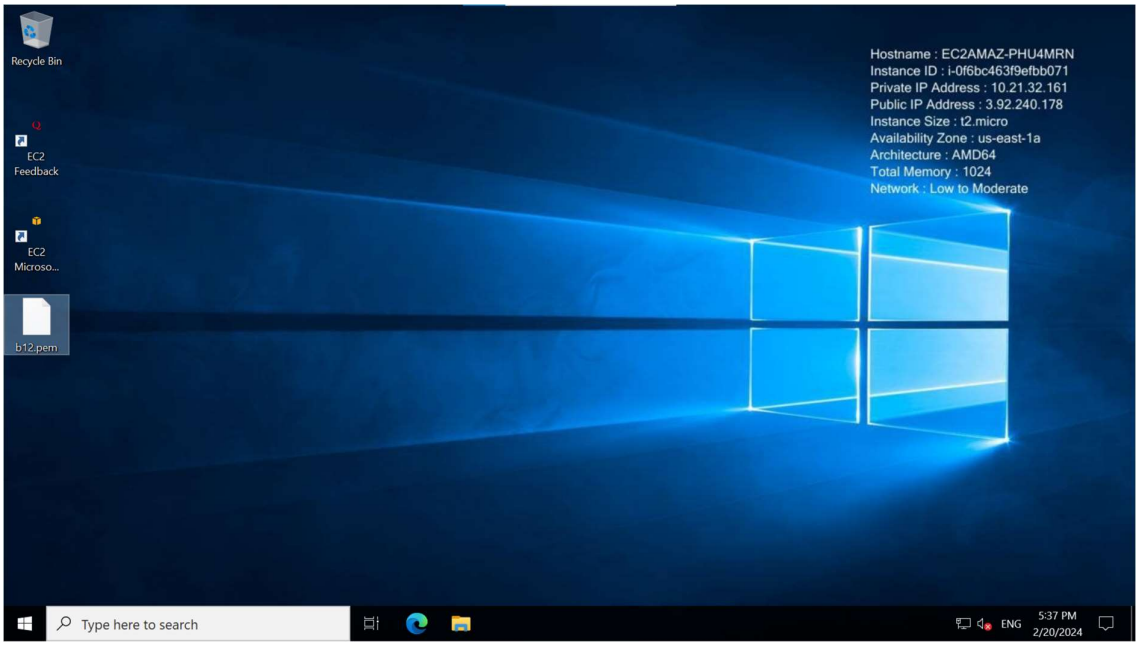


Now do vice-versa process for Mumbai region



Now connect instance-1 in window

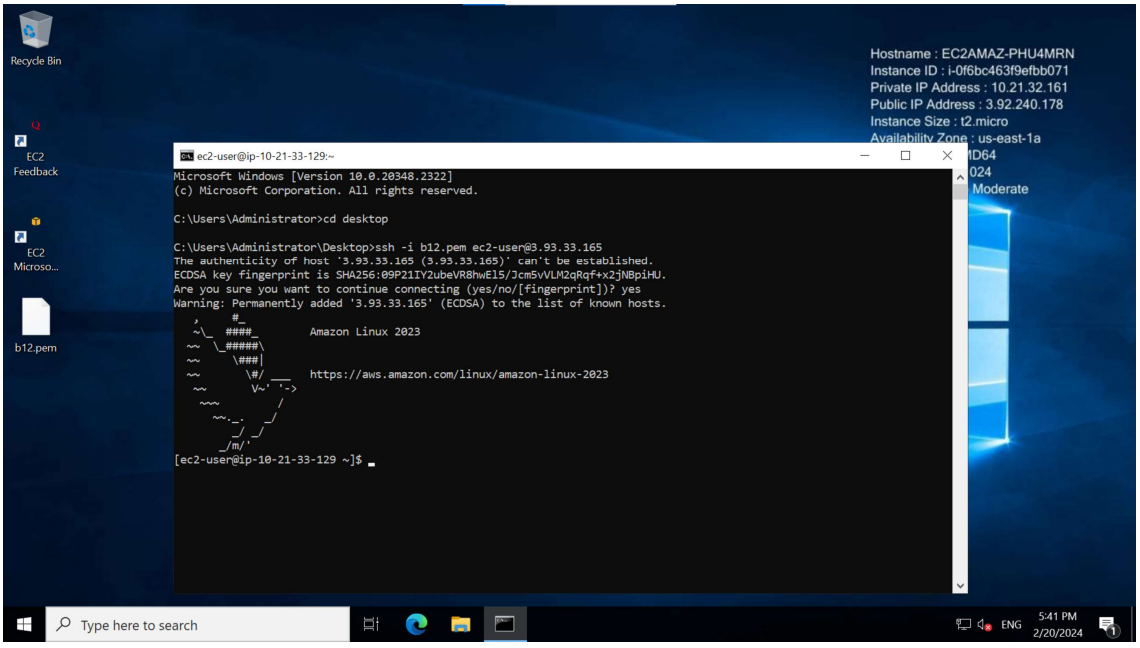
Now copy paste key file to instance windows



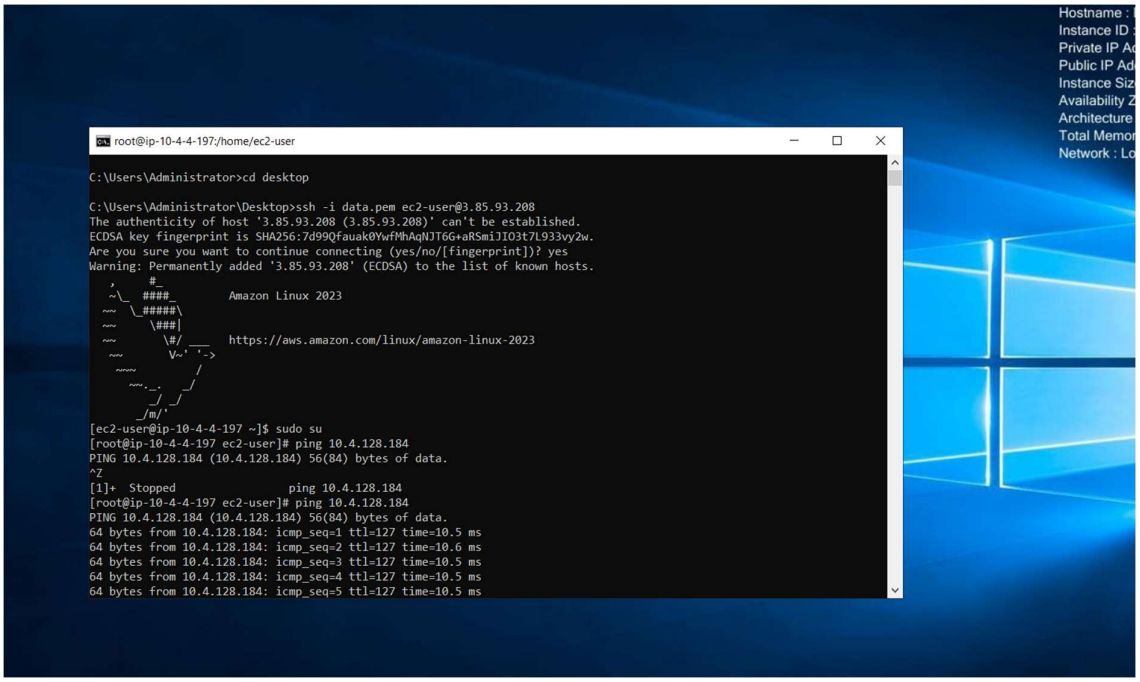
Now open cmd prompt and enter the commands

Now enter the command to get into desktop file to use the key file

Then enter the command to start Linux machine of instance 2



Now ping the private ip address of other region linux machine to check the connection is establish or not.



If it is showing error check for the

1. Check the SG then check the networks allowed ICMPv4 ,http for public sources
2. Check the routes are connected in IGW , peering connection
3. Changes are applied.