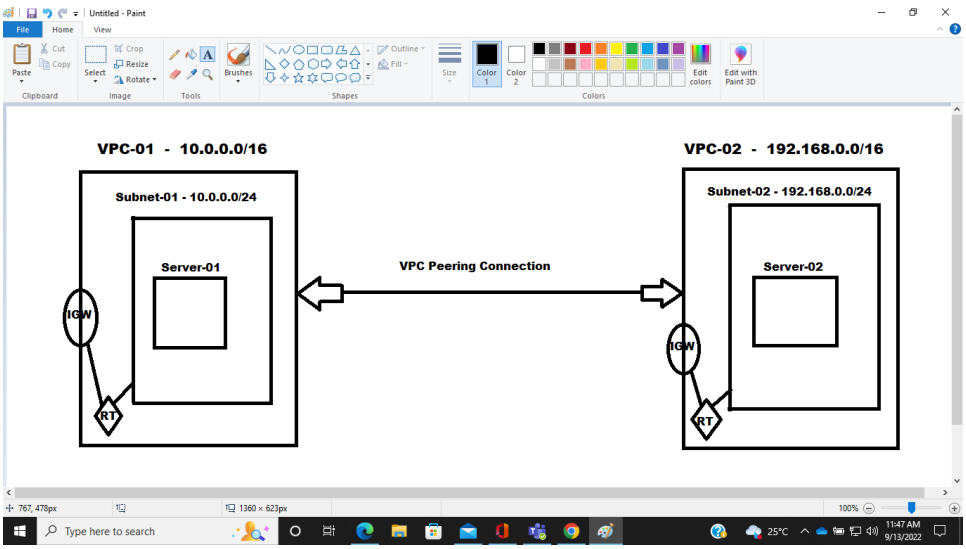
VPC Peering

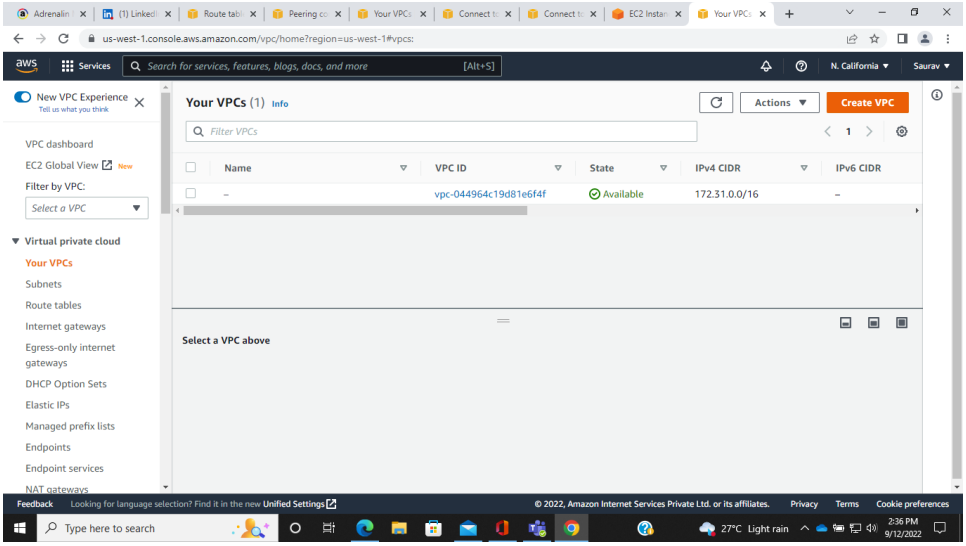
Amazon Virtual Private Cloud (Amazon VPC) enables you to launch AWS resources into a virtual network that you've defined. A VPC peering connection is a networking connection between two VPCs that enables you to route traffic between them using private IPv4 addresses or IPv6 addresses.



Steps to create the VPC Connection:

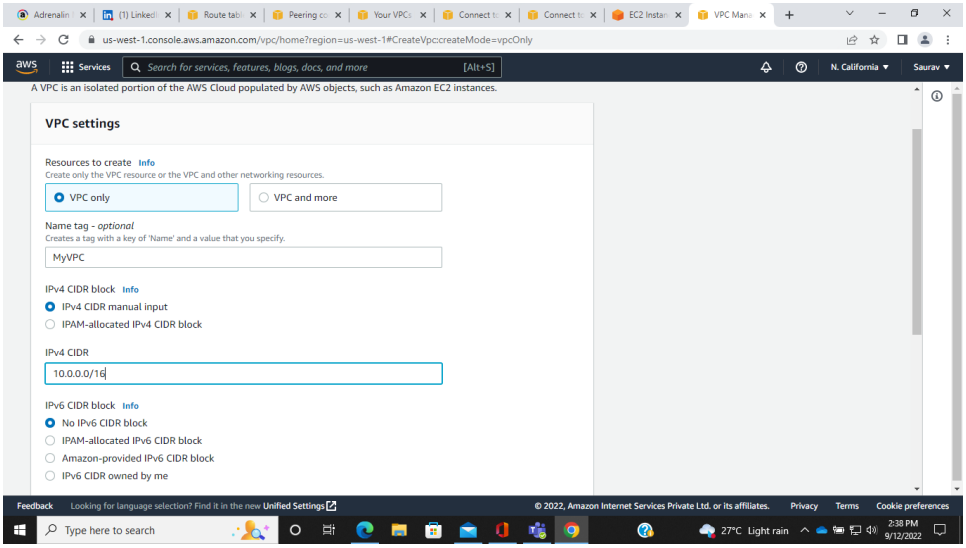
Create two VPC i.e., VPC-01: 10.0.0.0/16 and 192.168.0.0/16

Click on the Create VPC Button

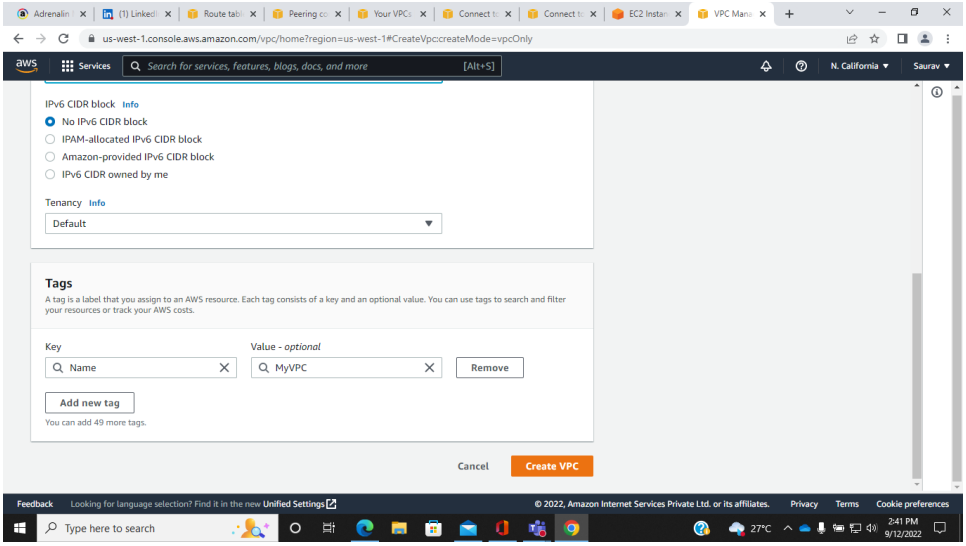


Give the Name of the VPC

Put the CIDR Range: 10.0.0.0/16



Click on the Create VPC Button

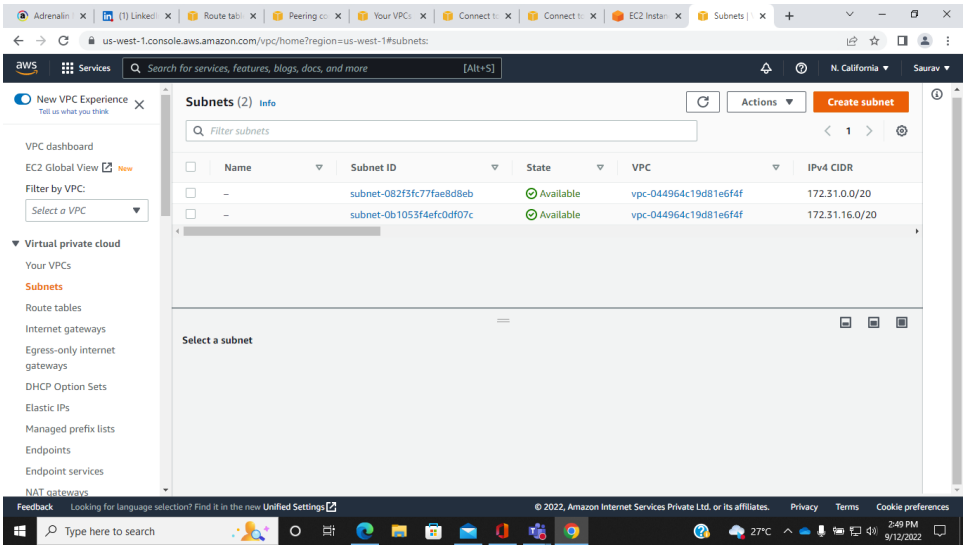


Create another VPC with CIDR: 192.168.0.0/16

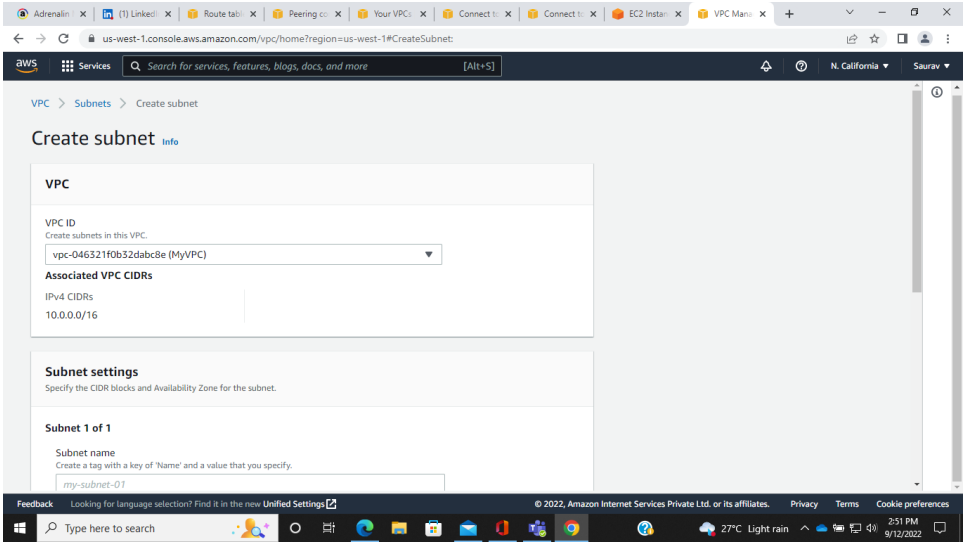
Now, create 2 subnets: One for VPC-01 and another for VPC-02

Steps to create Subnet-01

Click on Create Subnet



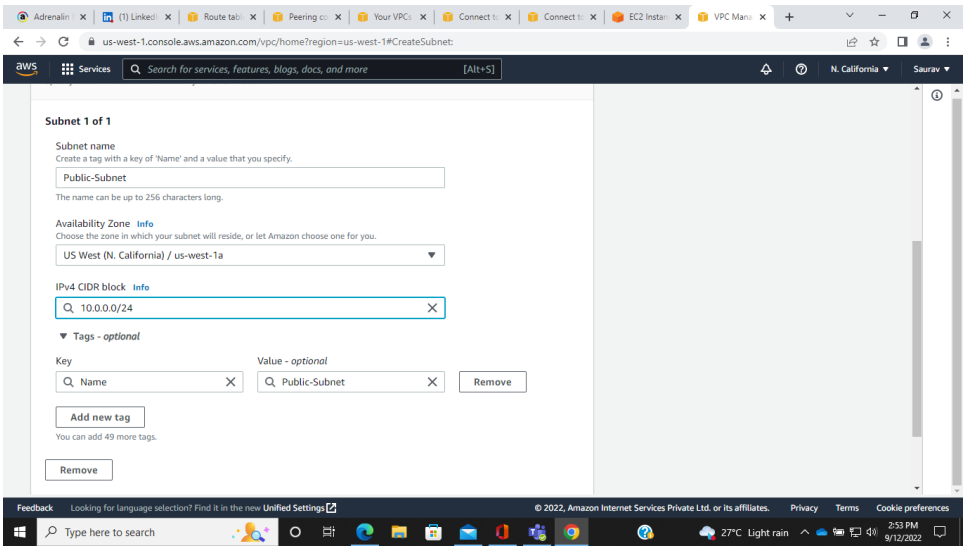
Select the VPC



Give the Name of the Subnet

Select the Availability Zone

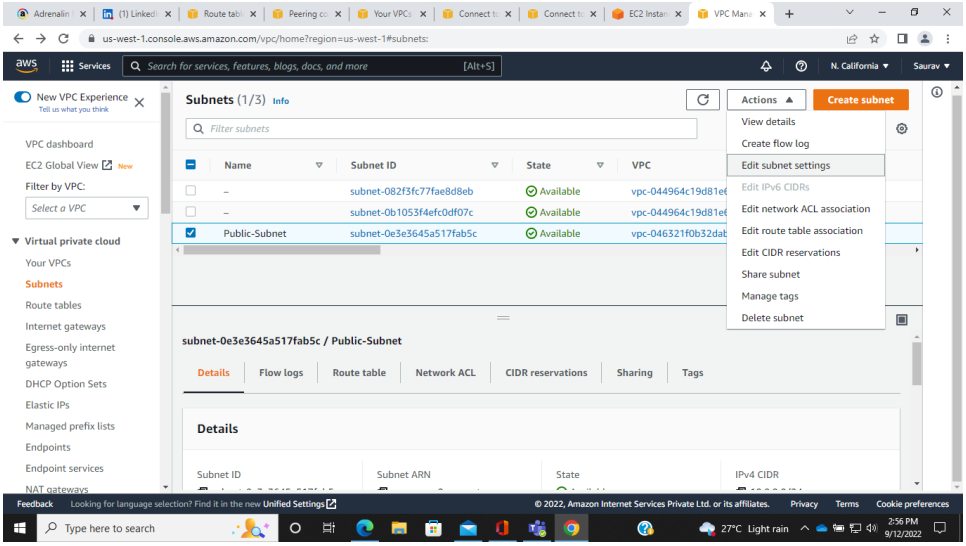
Put the CIDR Range: 10.0.0.0/24



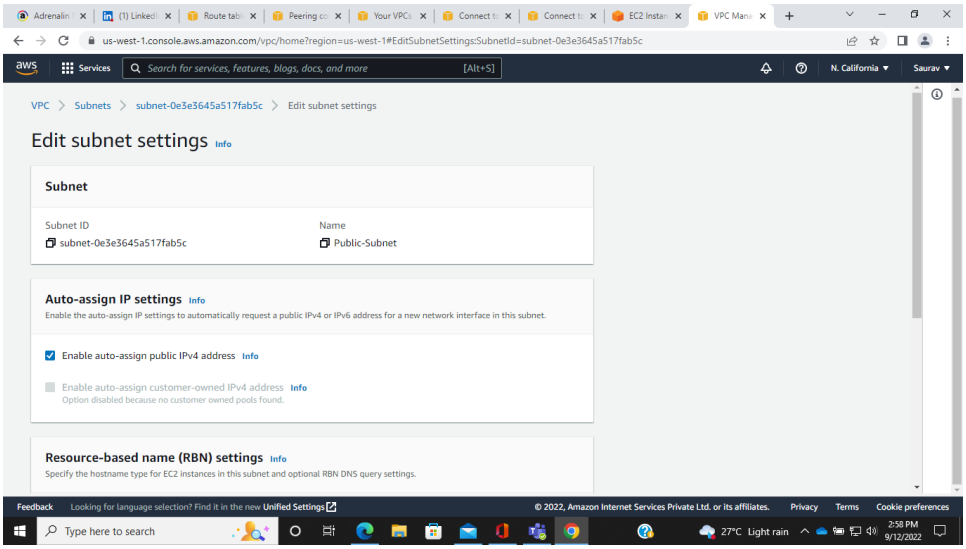
Steps to make the Subnet Public

Select the Subnet and click on the Action Button

Now Select the Edit subnet settings

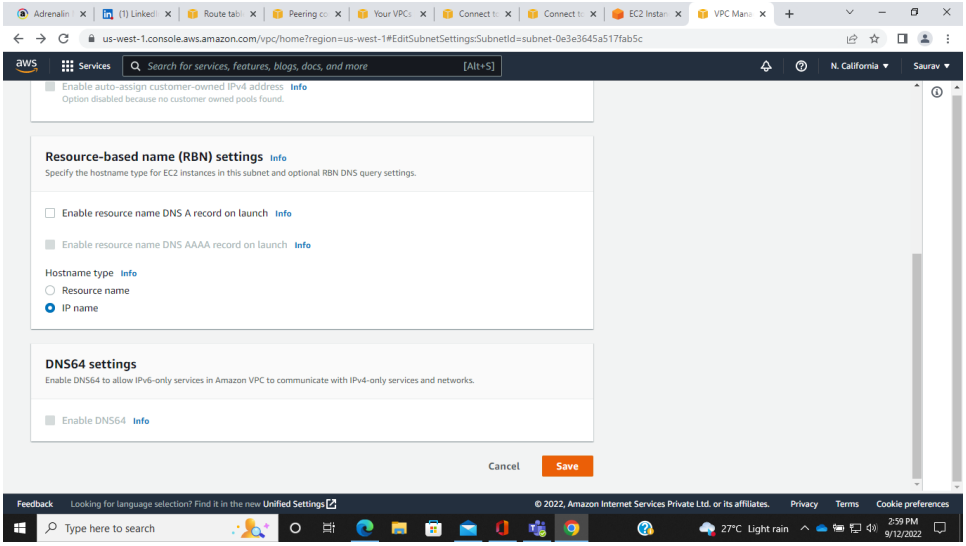


Select the Auto-assign IP settings



Click on Save Button

The Subnet has become Public now

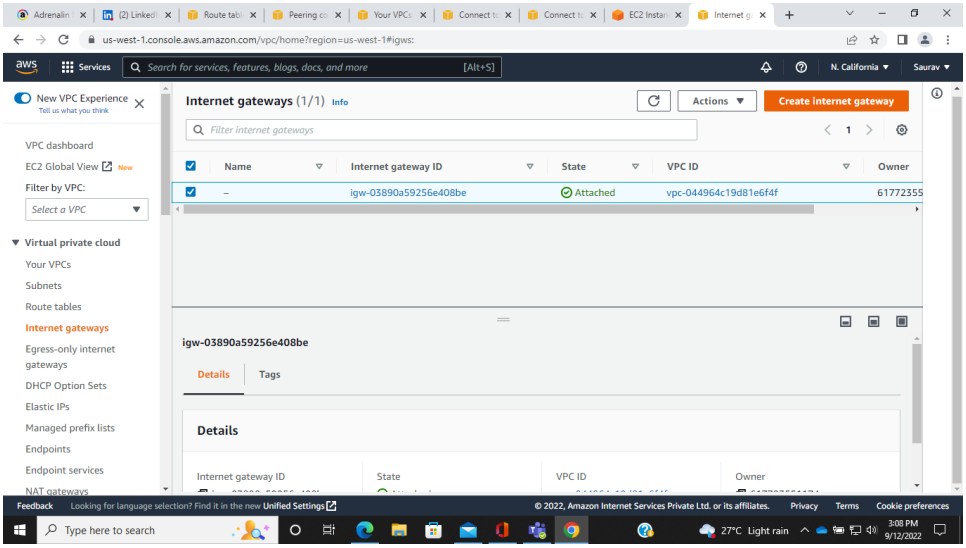


Create another Subnet-02 with CIDR: 192.168.0.0/24

Repeat the same above steps

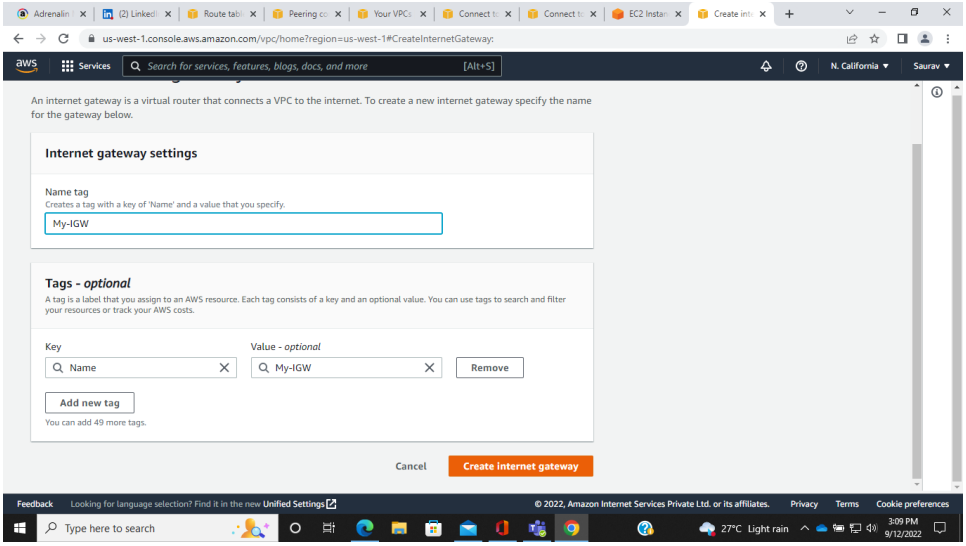
Now, attach the Internet Gateway to VPC-01

Click on the Create Internet Gateway Button



Give the name of the Internet Gateway

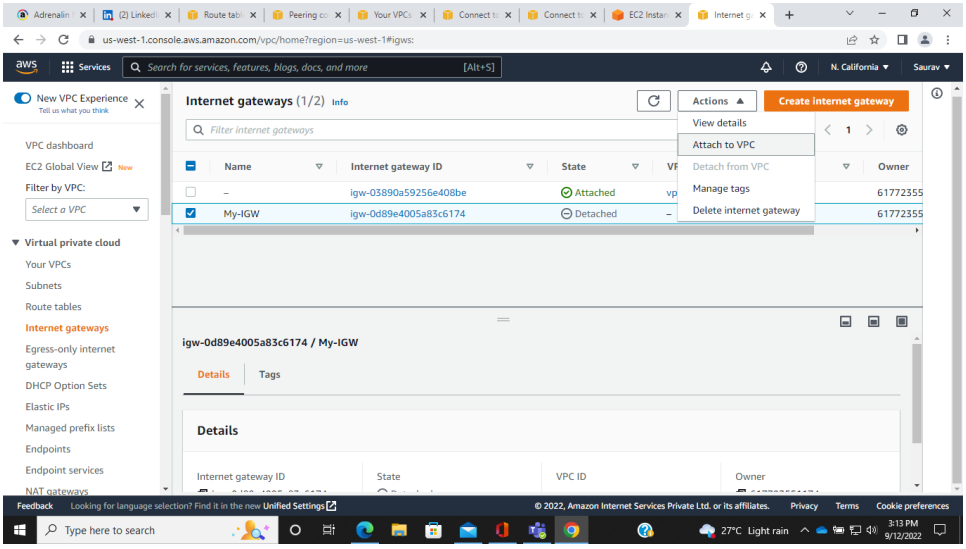
Click on the Create Internet Gateway Button



Steps to attach the Internet Gateway to VPC-01

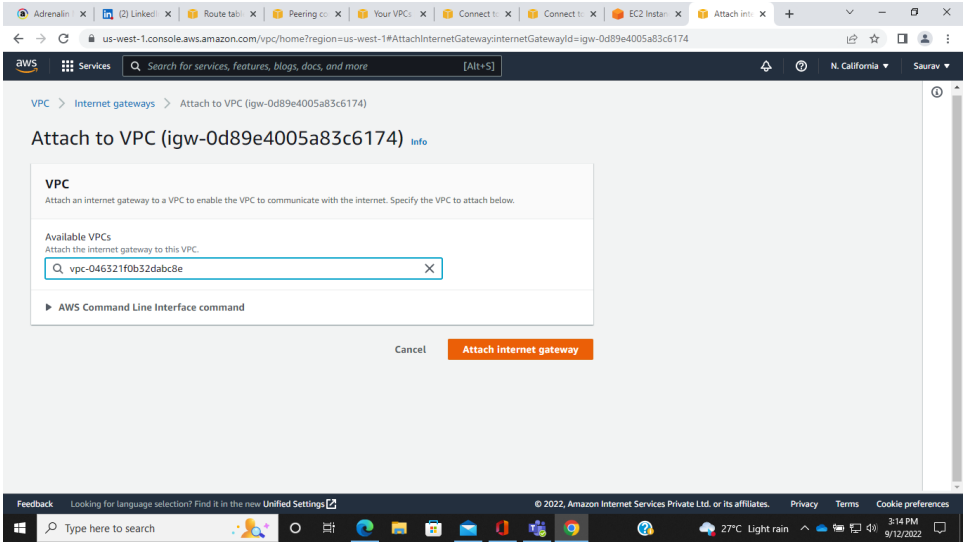
Select the Internet Gateway

Click on the Action Button and select Attach to VPC Button



Select the VPC you want to attach to the Internet Gateway

Click on the Attach Internet Gateway Button



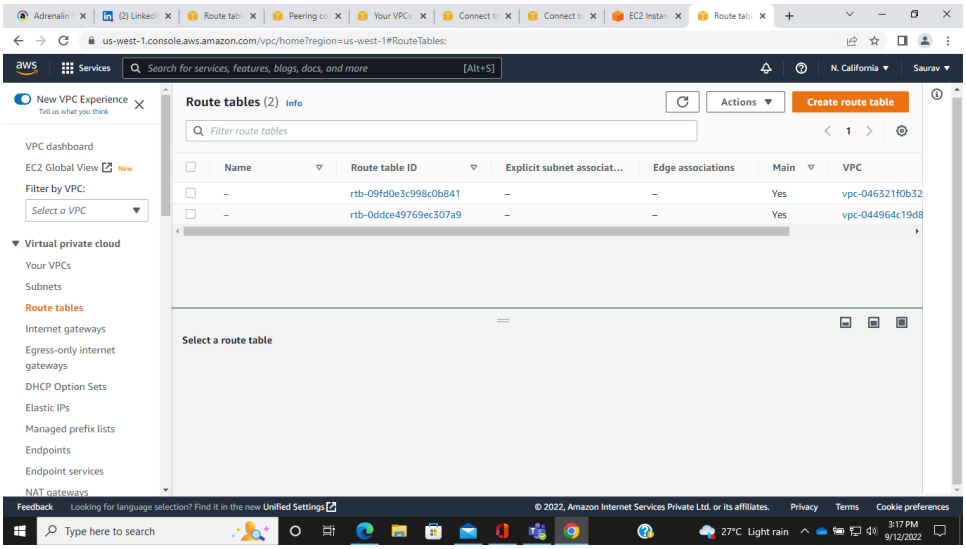
Now, create another Internet Gateway to attach the VPC-02

Repeat the same above steps to attach the VPC-02

Now, create two Route Table

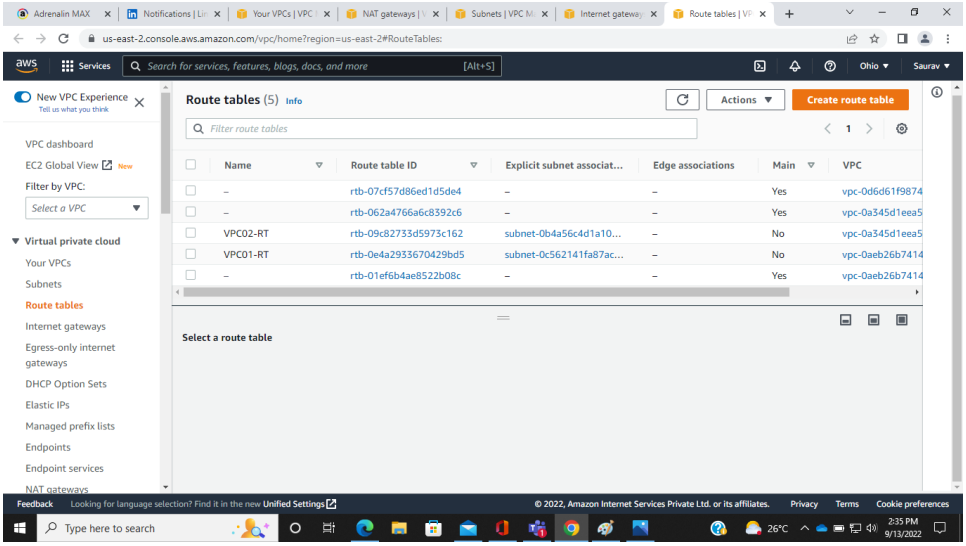
One for VPC-01 and another for VPC-02

Select the create Route Table Button



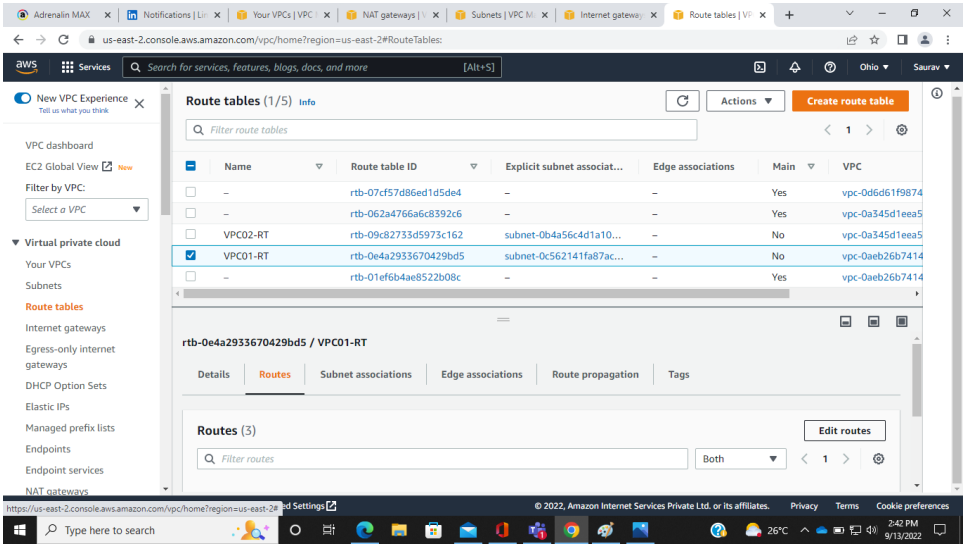
Give the name of the Route Table

Select the VPC and click on the Create Route Table Button



Select the VPC01-RT Route Table

Click on the Route Option and Select Edit Routes



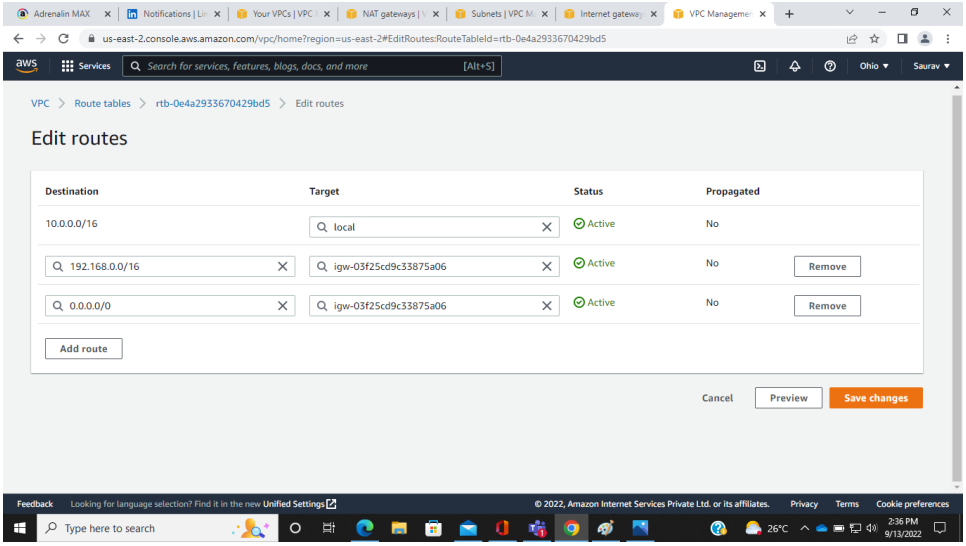
Click on Add Route

Enter Destination and target: 0.0.0.0/0 and Internet Gateway

Add another route to the another VPC

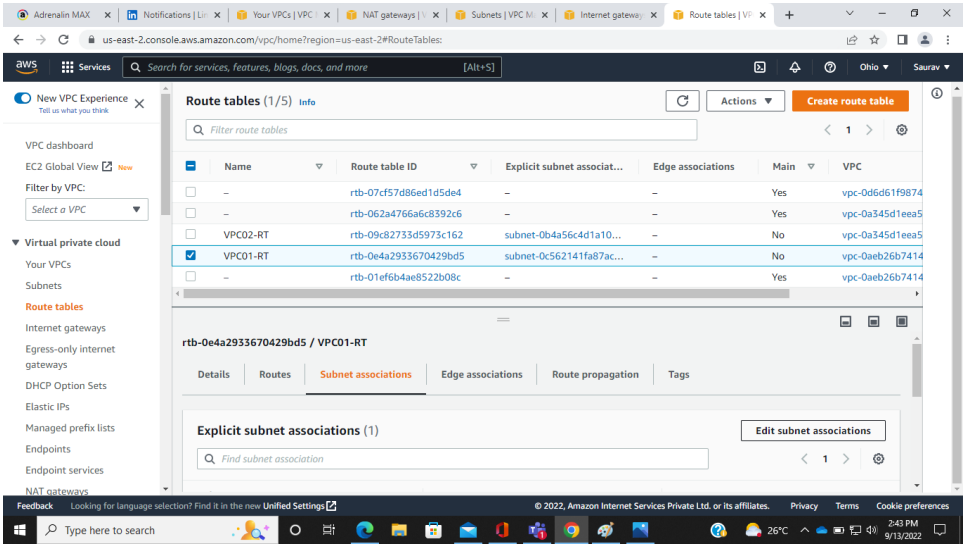
Enter Destination and target: 192.168.0.0/16 and Internet Gateway

Click on Save changes

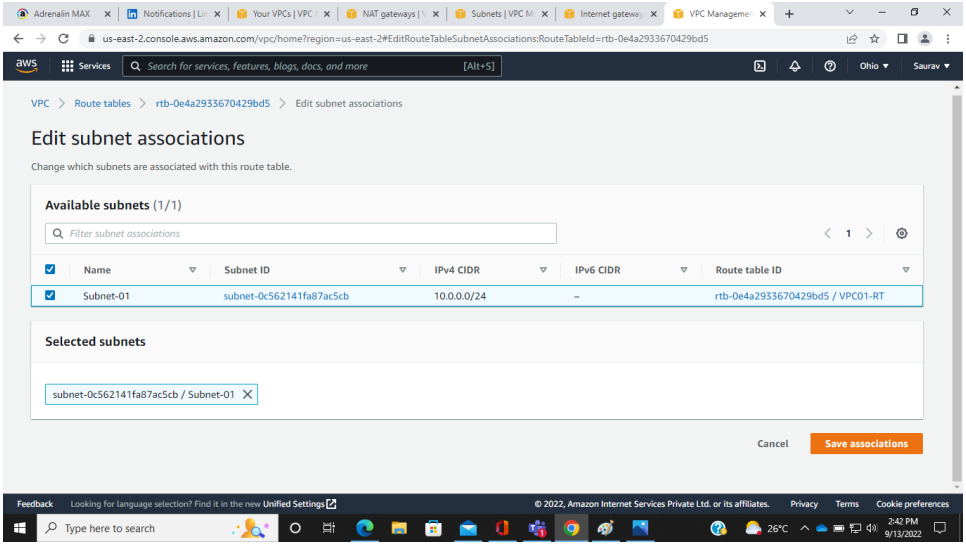


Select the VPC01-RT Route Table

Click on the Subnet Association Option and Select Edit Subnet Association



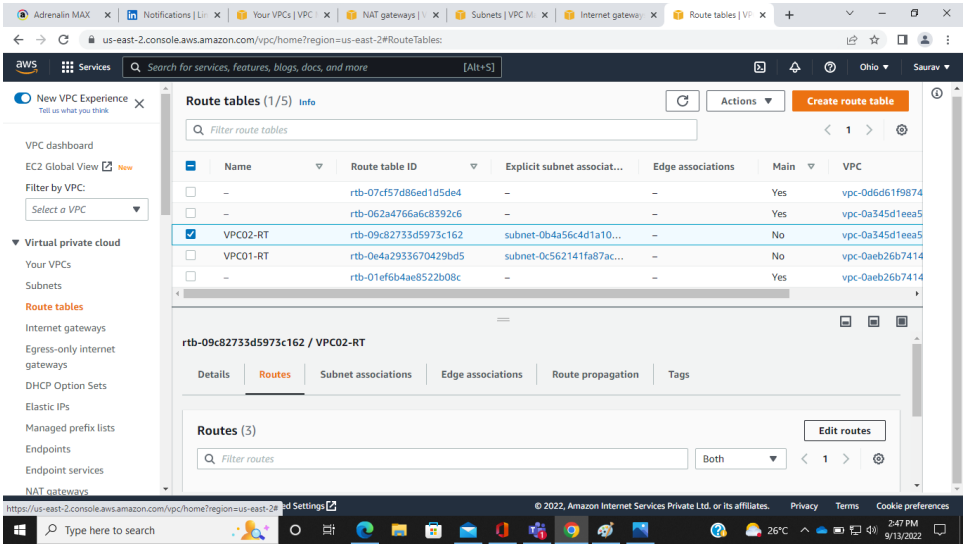
Select Subnet-01 and Click on the Save Association Button



Now, the same steps we follow for another Route Table i.e., VPC02-RT

Select the VPC02-RT Route Table

Click on the Route Option and Select Edit Routes



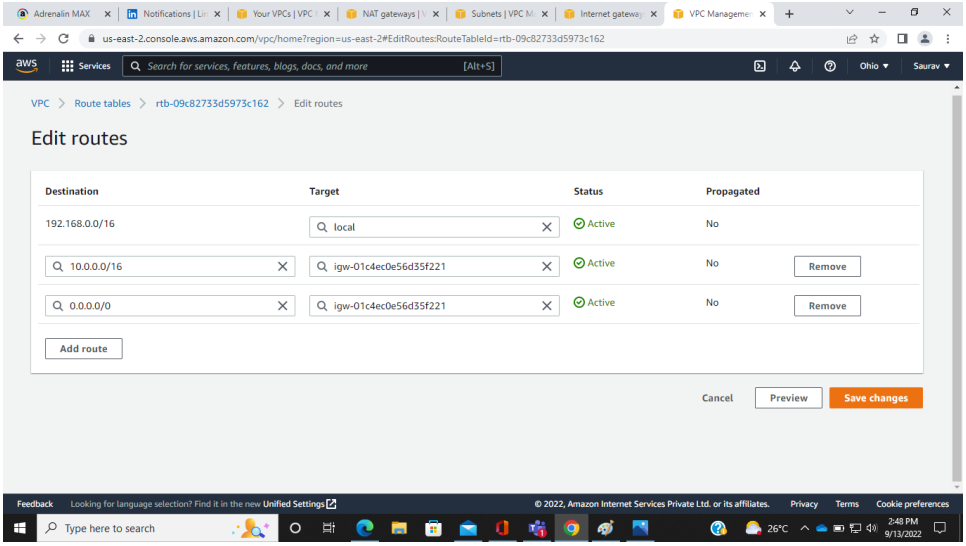
Click on Add Route

Enter Destination and target: 0.0.0.0/0 and Internet Gateway

Add another route to the another VPC

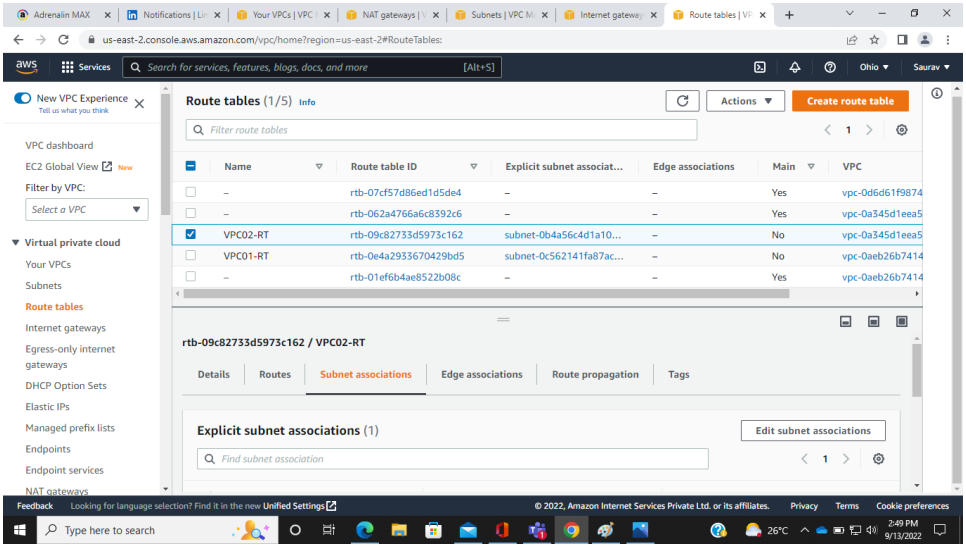
Enter Destination and target: 10.0.0.0/16 and Internet Gateway

Click on Save changes

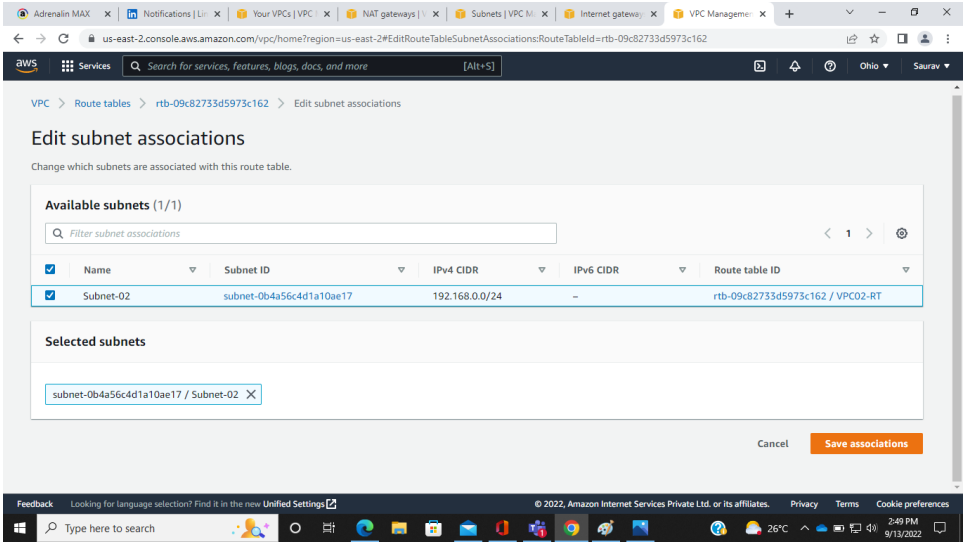


Select the VPC01-RT Route Table

Click on the Subnet Association Option and Select Edit Subnet Association



Select Subnet-01 and Click on the Save Association Button

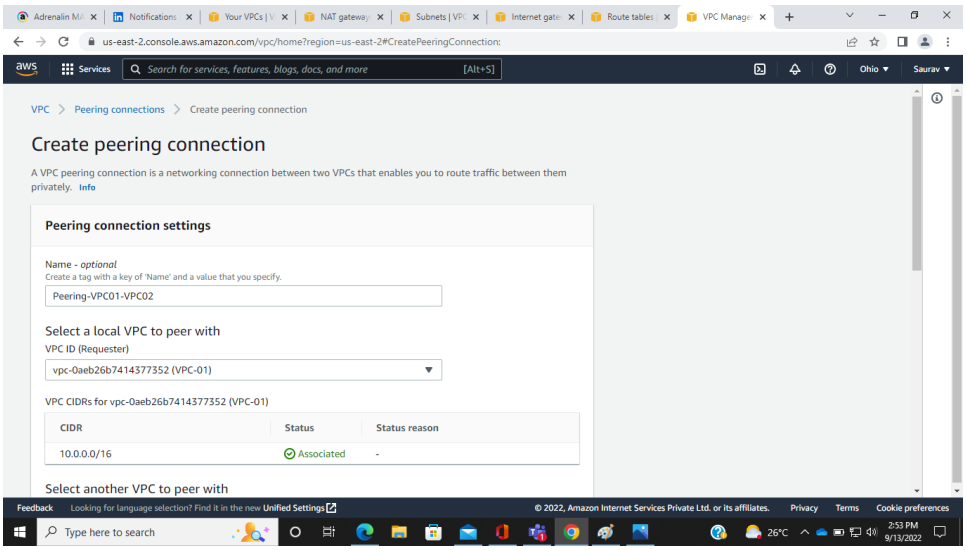


Now, create the peering connection.

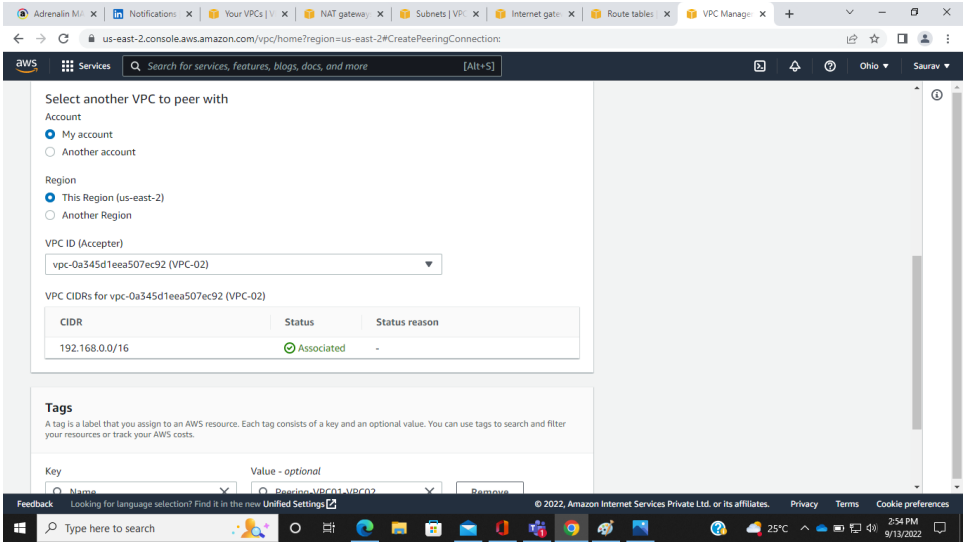
Click on the create peering connection button

Now, give the name of the peering connection

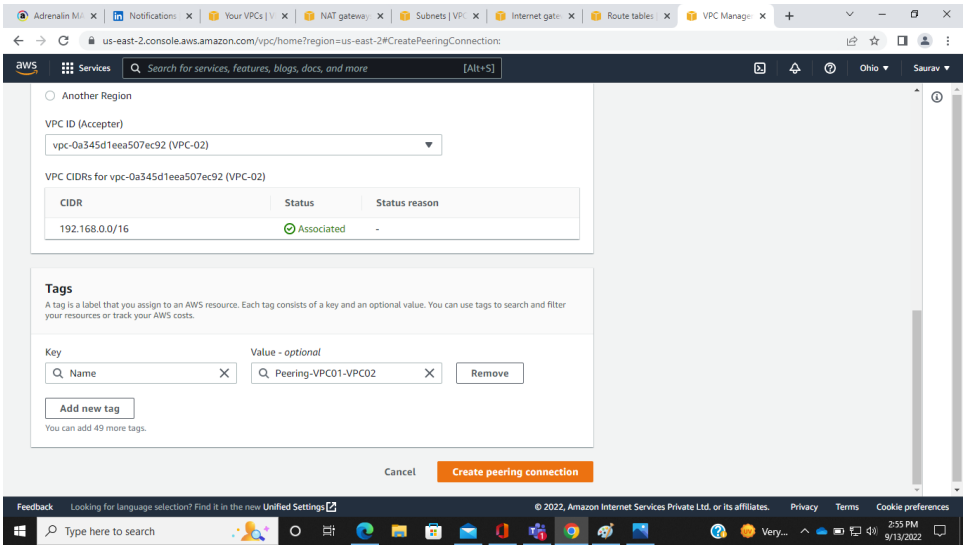
Select the VPC Requester i.e., VPC-01



Select the VPC Acceptor i.e., VPC-02

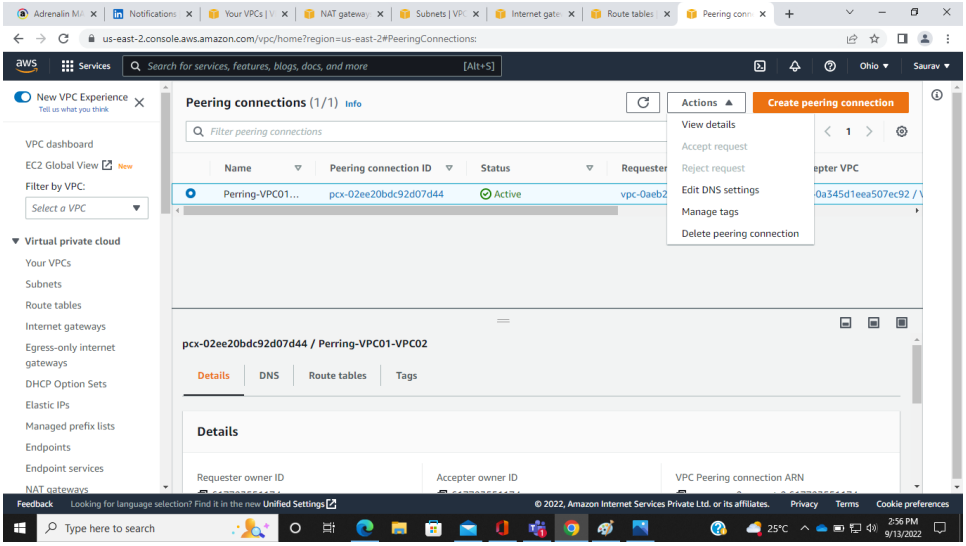


Click on the create peering connection button



Select the peering connection

Go to Action Button and Click on Accept request option



The Peering Connection has been successfully created.

Now create two instances

One for VPC-01 and another for VPC-02

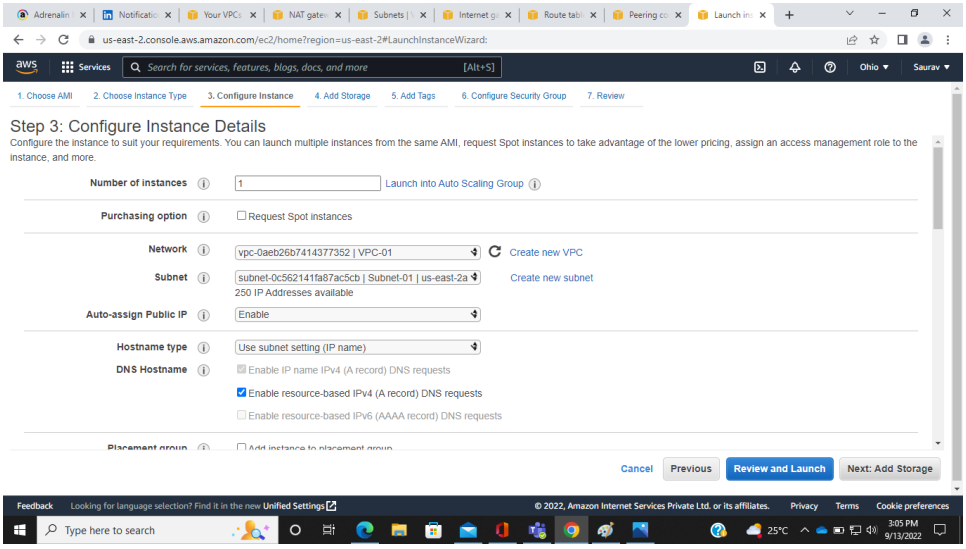
Click on the Launch Instance Button

Choose AMI -> Linux

Choose Instance Type -> t2.micro

Choose Configure Instance Details -> Select Custom VPC i.e., VPC-01 from Network Option

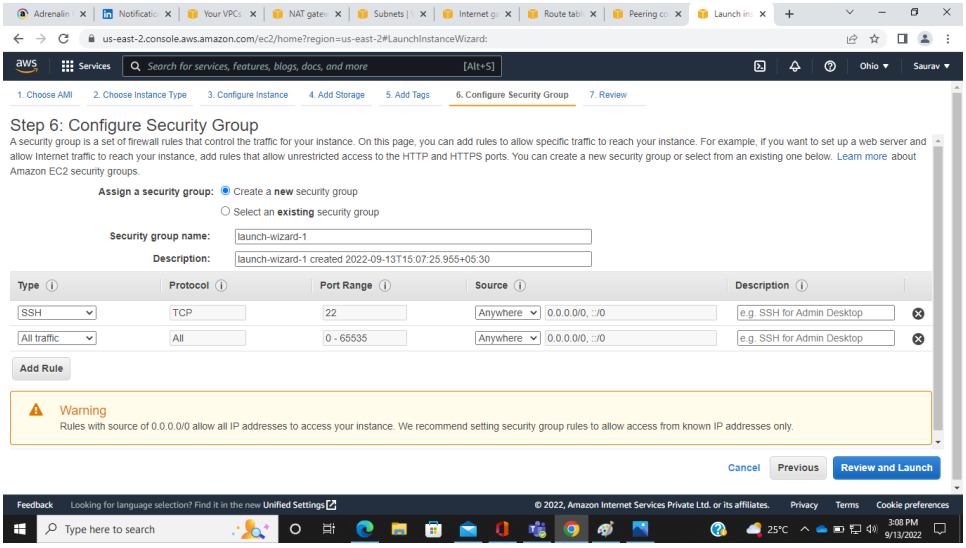
Select Subnet-01 from Subnet option



Add Storage -> Default

Add Tags -> Server-01

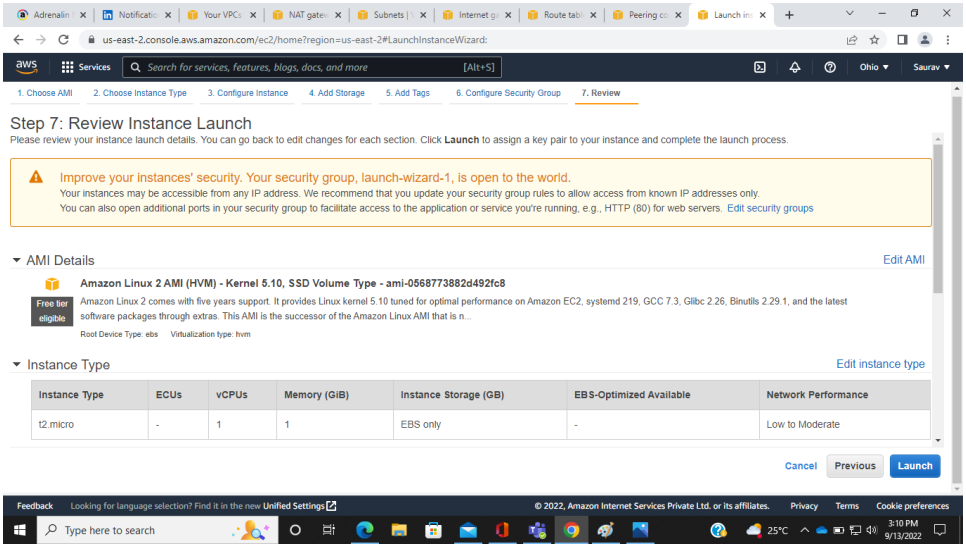
Configure Security Group -> Open SSH Port and All Traffic



Click on Review and Launch

Create a new key pair and Download the Key Pair

Now, click on Launch Instance



Create another instance

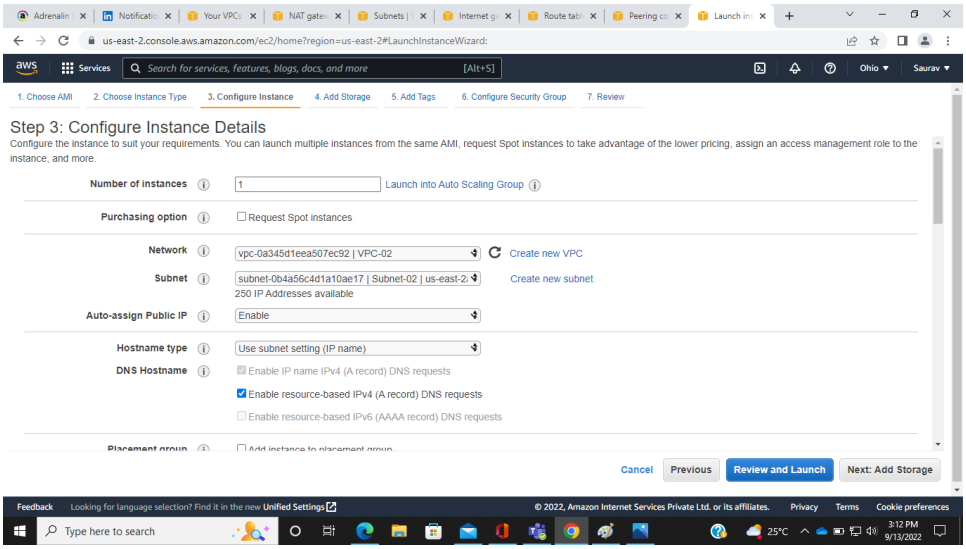
Click on the Launch Instance Button

Choose AMI -> Linux

Choose Instance Type -> t2.micro

Choose Configure Instance Details -> Select Custom VPC i.e., VPC-02 from Network Option

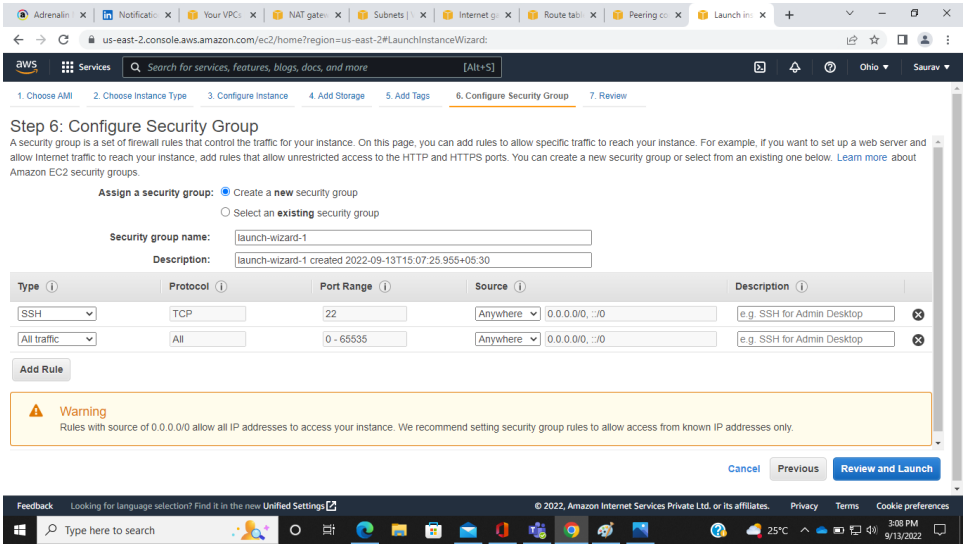
Select Subnet-02 from Subnet option



Add Storage -> Default

Add Tags -> Server-02

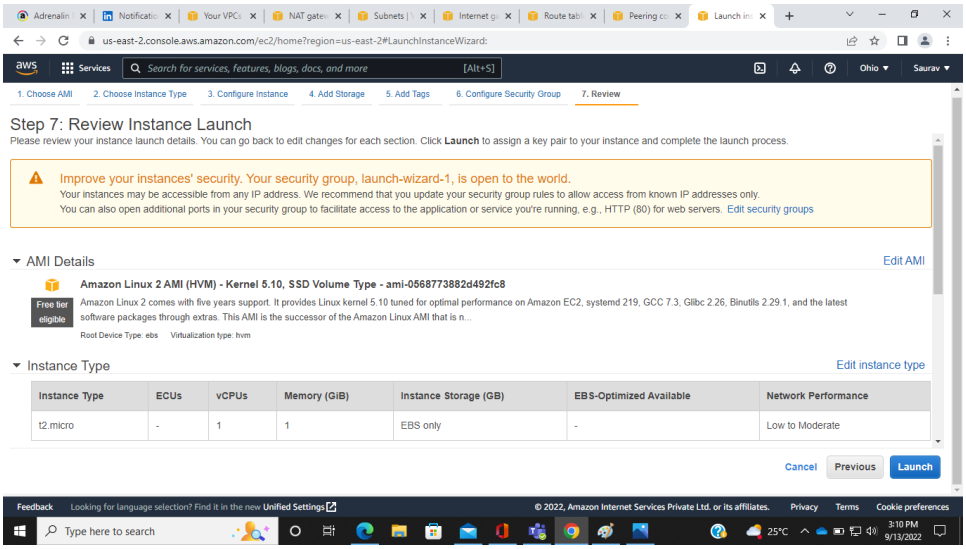
Configure Security Group -> Open SSH Port and All Traffic



Click on Review and Launch

Create a new key pair and Download the Key Pair

Now, click on Launch Instance

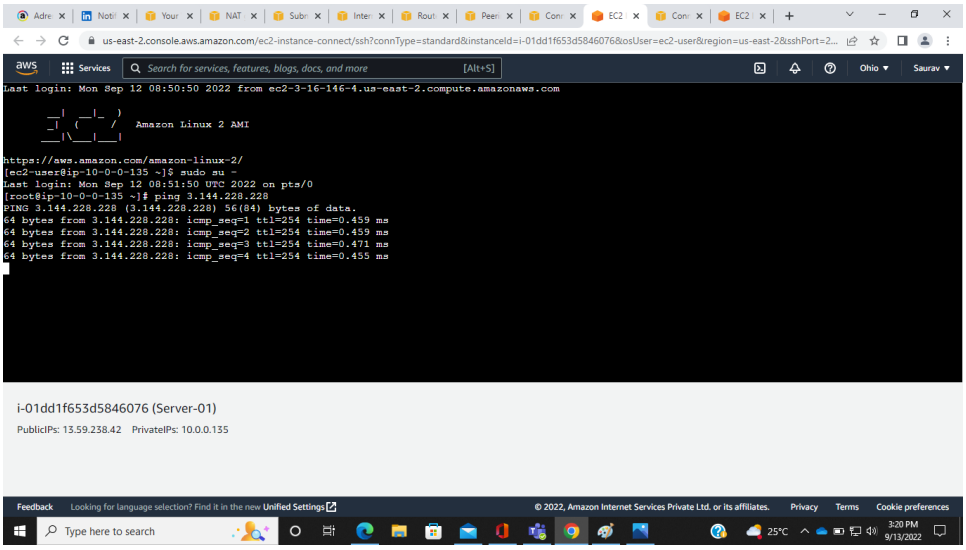


The instances have been successfully created.

Now, we ping one server to another server.

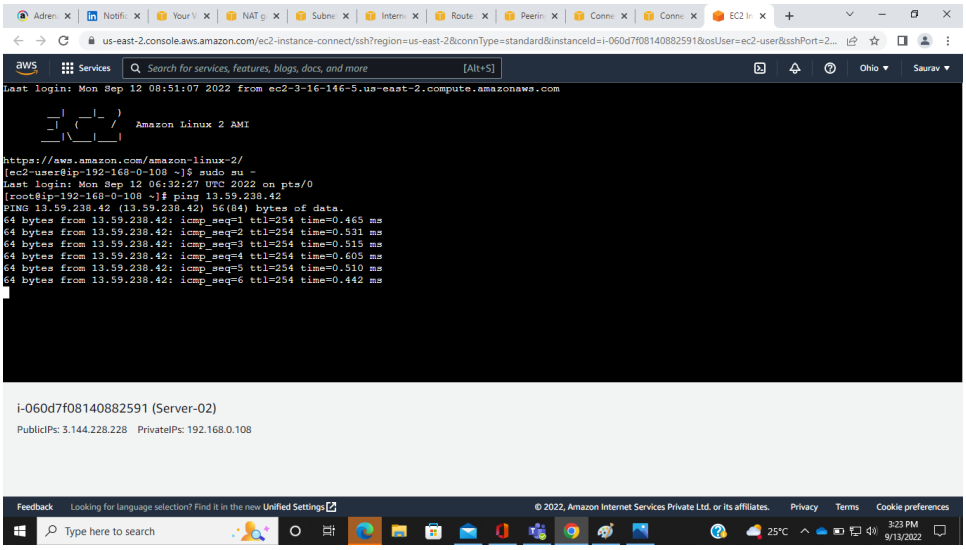
Connect the Server-01

Run this command: ping "Public IP of another Server-02"



Now, connect the Server-02

Run this command: ping “Public IP of another Server-01”



Both Server has been successfully pinging with another.