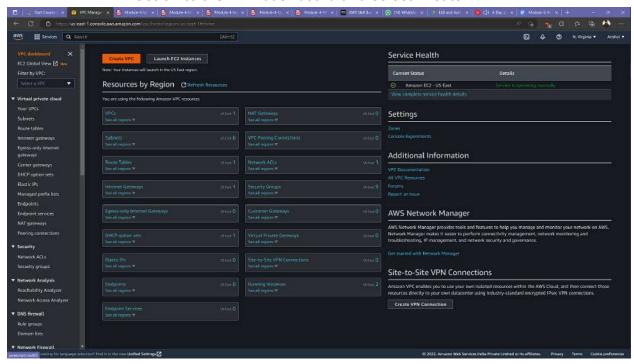
# Module 4: VPC Assignment - 1

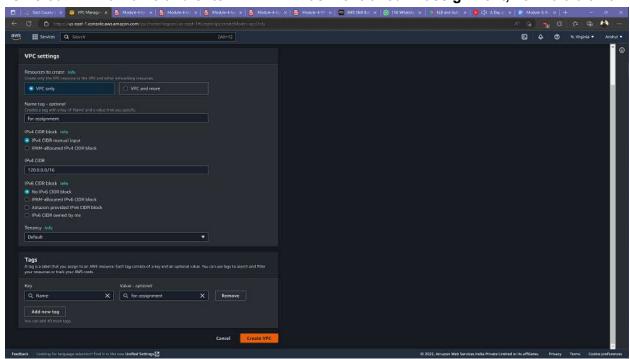
#### You have been asked to:

- 1. Create a VPC with 120.0.0.0/16 CIDR block
- 2. Create 1 public subnet, 2 private subnets and make sure you connect a NAT gateway for internet connectivity to private subnets.

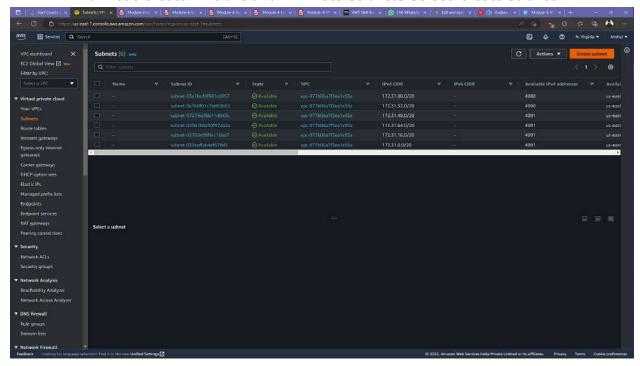
Get on to the VPC dashboard and select Create VPC.



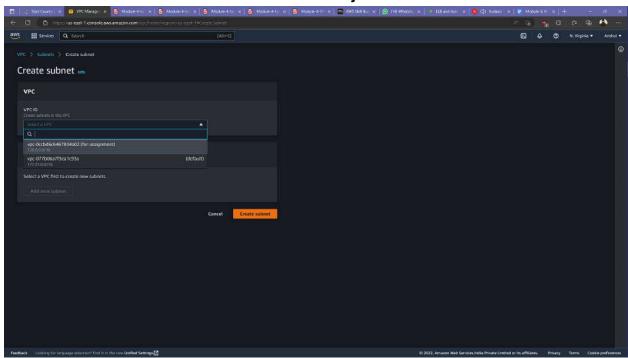
Give our VPC a Name and enter IPv4 CIDR as mentioned in assignment, i.e 120.0.0.0/16.



#### Now let's create 1 Public and 2 Private Subnets. Select 'create subnet'.

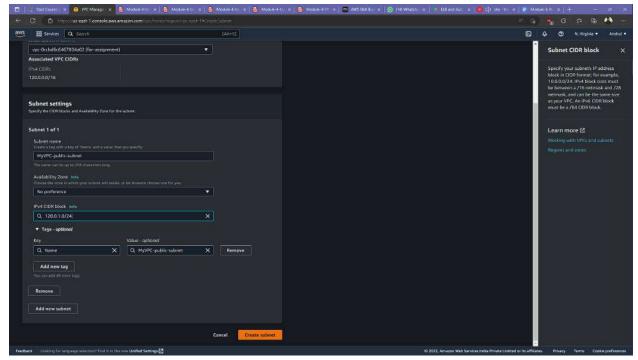


### Select the VPC that we just created.

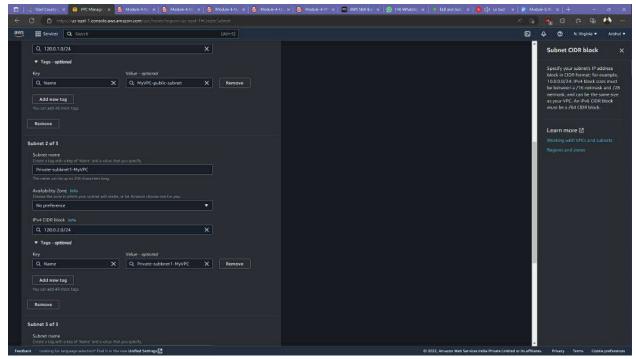


Let's create public subnet first, name it respectively. While selecting IPv4 CIDR block make sure the range of block be in between /16 netmask and /28 netmask.

After filling respective fields. Select Add subnet to add private subnet.

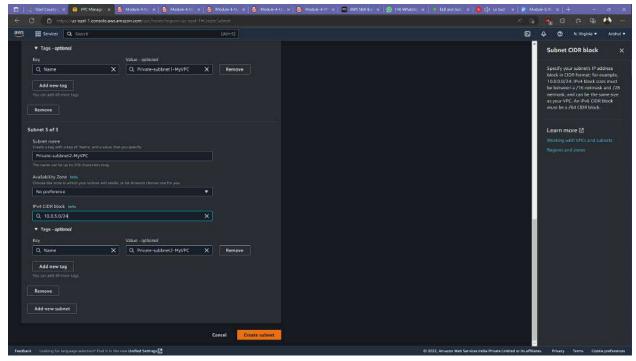


Enter name of private subnet 1 and choose ipv4 cidr block.

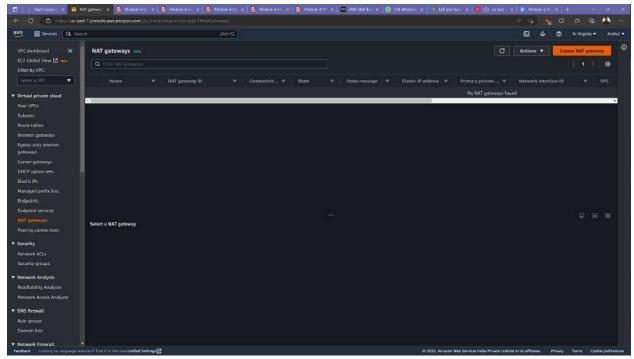


## Now add Private subnet2 in similar fashion, Then choose 'create subnet.

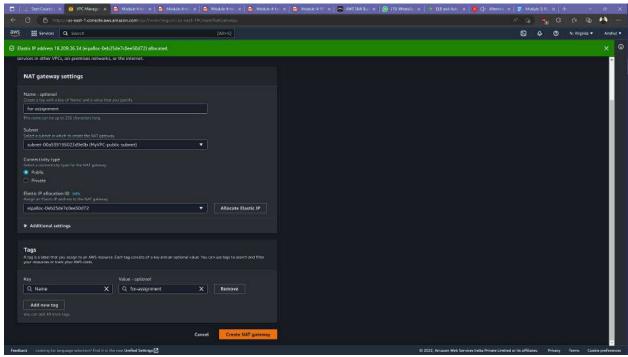
YOur 1 public and 2 private subnets under our new VPC has been created.



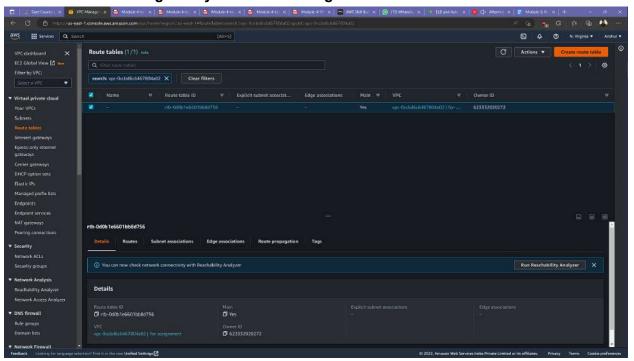
Now that subnets are created, Lets create NAT gateway for our Private Subnets.



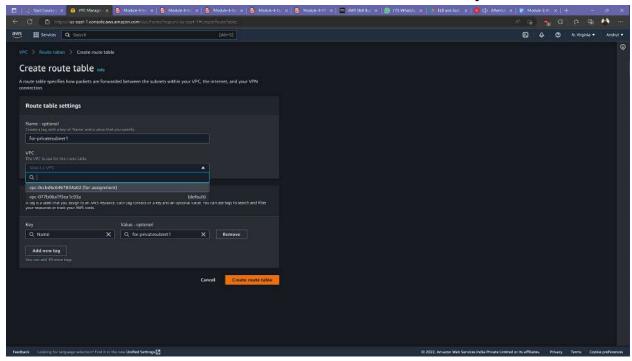
Choose name for your NAT gateway and make sure to choose PUBLIC SUBNET while making NAT gateway. Then choose create NAT Gateway.



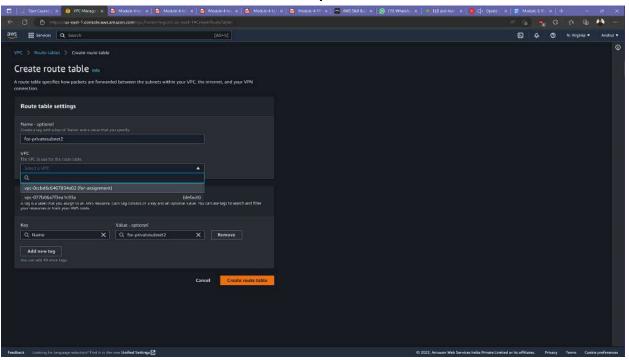
Let's route nat gateway to subnet through Rout Table. Create a Route Table.



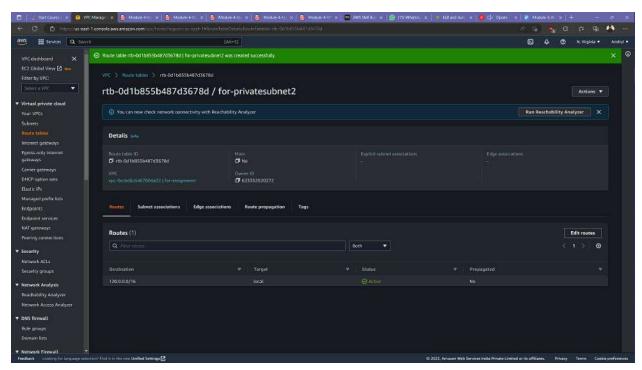
Give name to the route table. And choose the VPC that we just created.



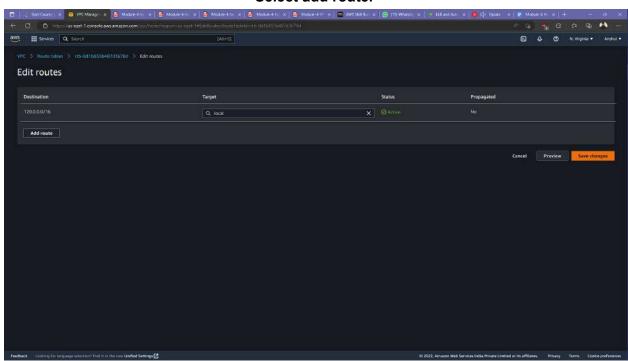
Repeat the step again, Give name to the route table. And choose the VPC that we just created for other private subnet.



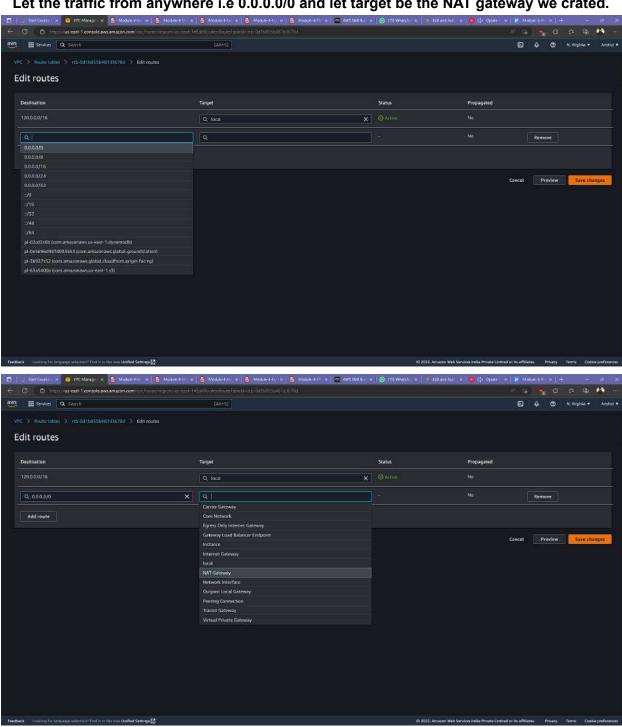
Select route table that we just created. Click on edit route.



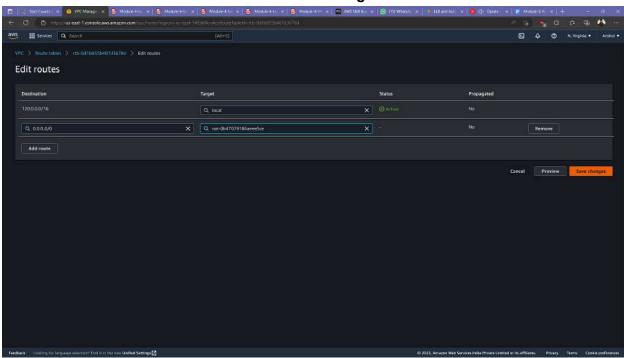
#### Select add route.



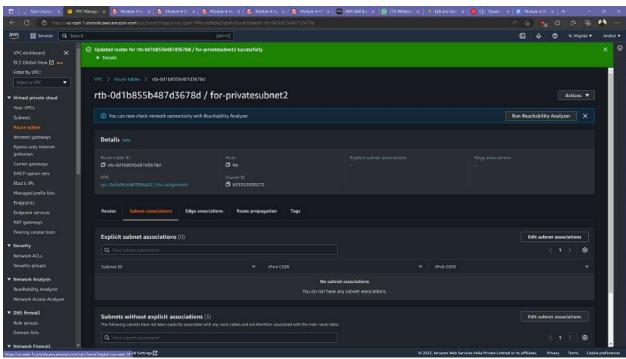
Let the traffic from anywhere i.e 0.0.0.0/0 and let target be the NAT gateway we crated.



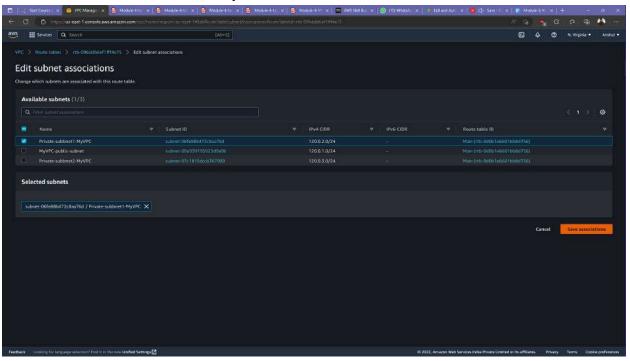
## Select save changes.



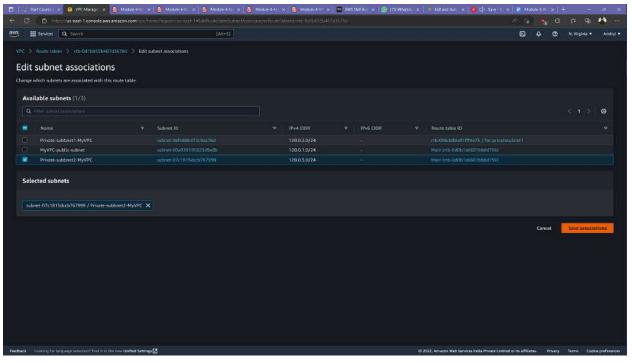
#### Now select subnet associations and add subnet associations.



## Choose respective subnet for that route table.



## Repeat above steps for other route table as well.



Hence from route table, Private Subnet is connected to internet through NAT gateway, the gateway from public subnet.