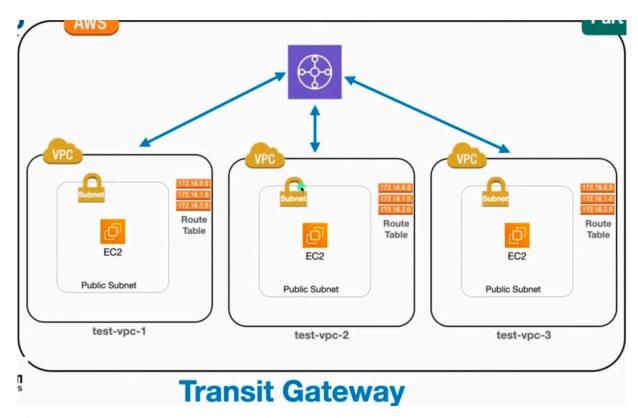
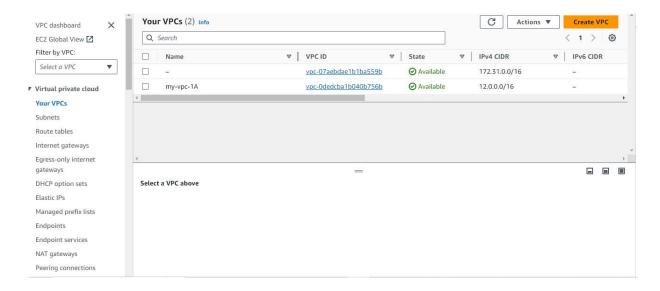
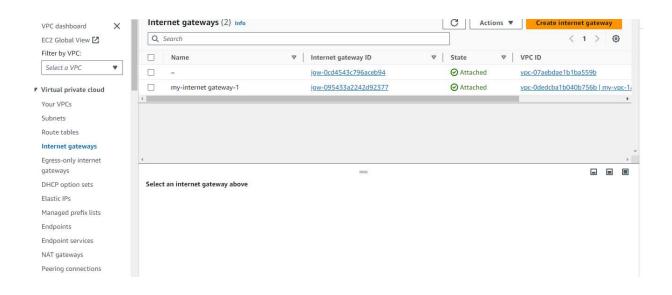
# CREATING 3 VPC'S AND CONNECTING TO TRANSIT GATEWAY



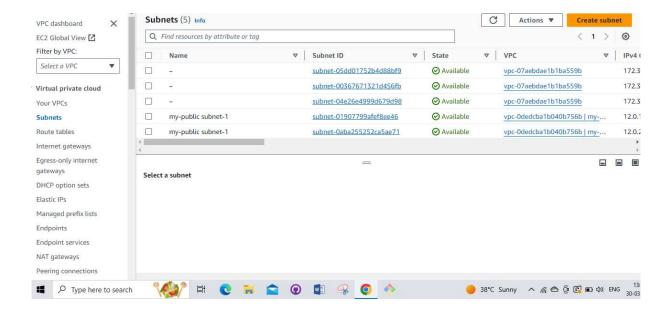
Step 1: First we have to create a vpc (my-vpc-1A).



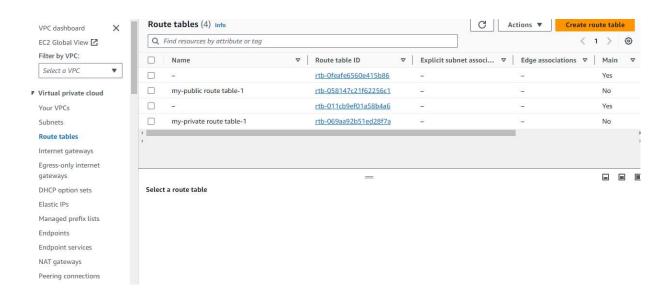
Step 2: Now create an internet gateway and attach to vpc (my-vpc-1A).



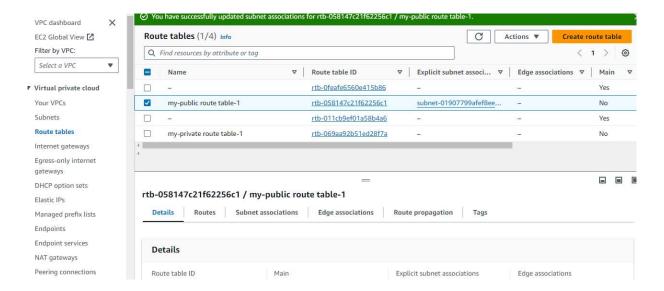
Step 3: Now create two subnets (my-public subnet-1,my-private subnet-1).



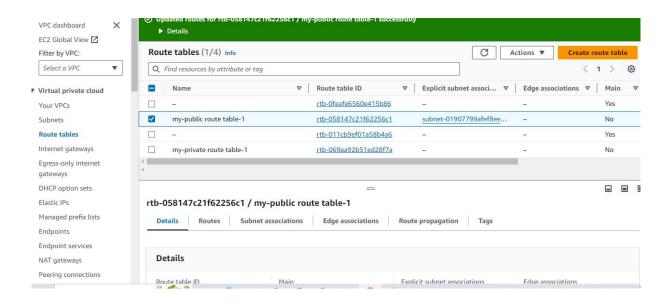
Step 4: Now create two route tables (my-public route table-1,my-private route table-1).



Step 5: Now connect router tables to subnets for configure routing,
- (my-public subnet-1 to my-public route table-1) and click on save association.

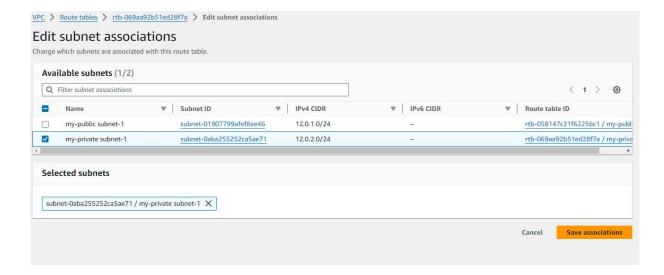


Step 6: Now attach the public route table to the internet gateway for accessing the internet connection for the public subnet .

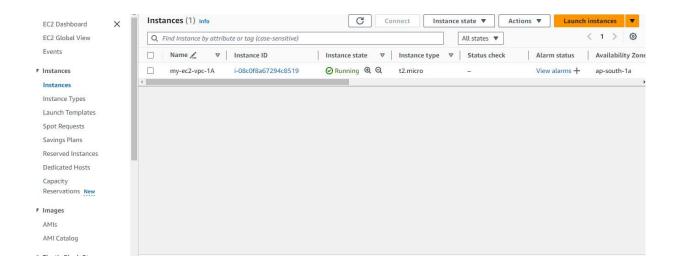


- Step 7: Now connect router tables to subnets for configure routing,

   (my-private subnet-1 to my-private route table-1) and click on save association.
  - NOTE: NO INTERNET CONNECTION FOR PRIVATE SUBNET.

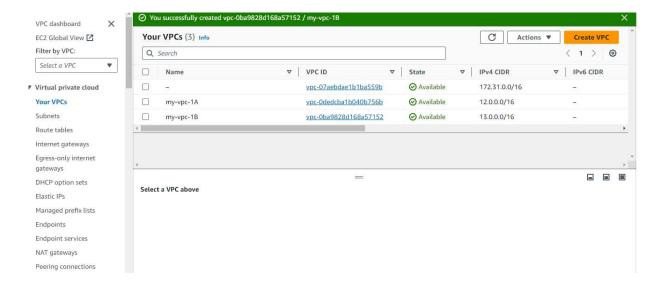


Step 8: Now create an ec2 instance and attach to vpc (my-vpc-1A).

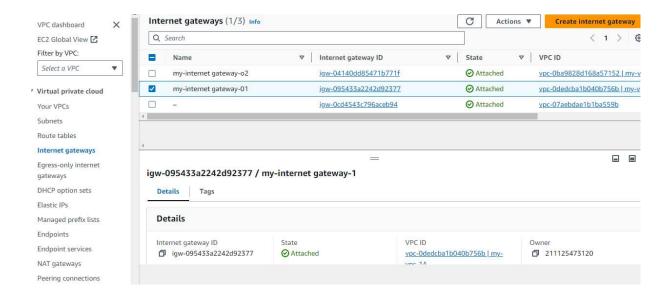


#### NOW CREATE ANOTHER TWO VPC'S AND ATTACH TO INSTANCES.

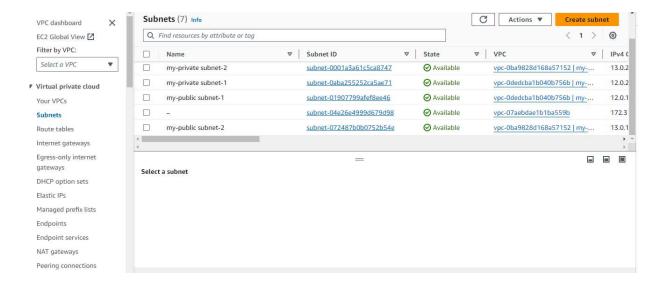
• Step 1 : First we have to create a vpc (my-vpc-1B) .



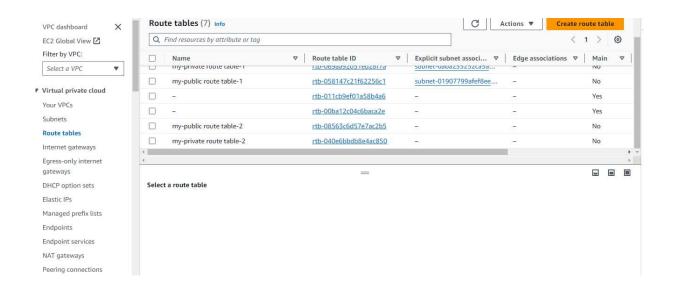
Step 2: Now create an internet gateway and attach to vpc (my-vpc-1B).



• Step 3: Now create two subnets (my-public subnet-2,my-private subnet-2).



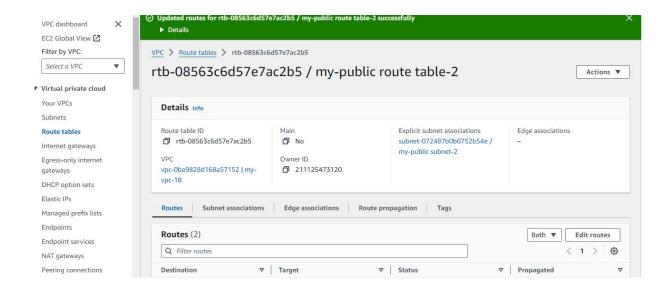
Step 4: Now create two route tables (my-public route table-2,my-private route table-2).



- Step 5 : Now connect router tables to subnets for configure routing ,
   (my-public subnet-2 to my-public route table-2) and click on save association .
- Route tables (1/10) Info Create route table C Actions ▼ < 1 > Q Find resources by attribute or taa 0 EC2 Global View 🗹 Filter by VPC: ▼ Route table ID Name Edge associations 

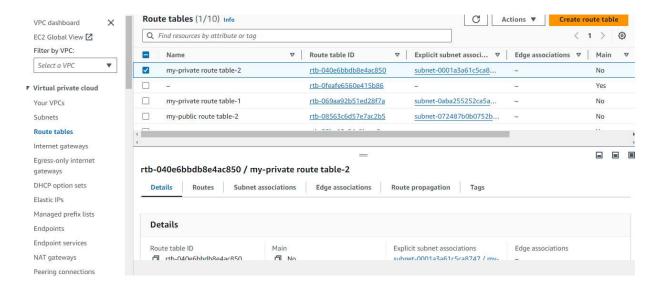
  ▼ Main ₩ Select a VPC ~ my-private route table-2 rtb-040e6bbdb8e4ac850 subnet-0001a3a61c5ca8. No rtb-0feafe6560e415b86 Yes Virtual private cloud my-private route table-1 rtb-069aa92b51ed28f7a subnet-0aba255252ca5a.. No Your VPCs rtb-08563c6d57e7ac2b5 subnet-072487b0b0752b... No Subnets my-public route table-2 rtb-00ba12c04c6baca2e Internet gateways ---- 000147-21fc220c--Egress-only internet gateways DHCP option sets rtb-040e6bbdb8e4ac850 / my-private route table-2 Details Subnet associations Routes Edge associations Route propagation Managed prefix lists Endpoints Details **Endpoint services** NAT gateways Route table ID Main Explicit subnet associations Edge associations Peering connections ☐ rtb-040e6bbdb8e4ac850 ₫ No subnet-0001a3a61c5ca8747 / my

 Step 6: Now attach the public route table to the internet gateway for accessing the internet connection for the public subnet.

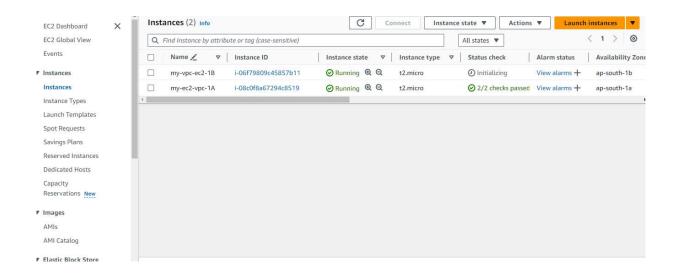


- Step 7: Now connect router tables to subnets for configure routing ,
  - (my-private subnet-2 to my-private route table-2) and click on save association .

#### **NOTE: NO INTERNET CONNECTION FOR PRIVATE SUBNET**

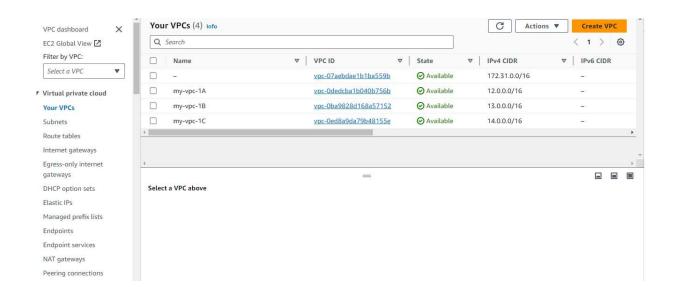


Step 8: Now create an ec2 instance and attach to vpc (my-vpc-1B).

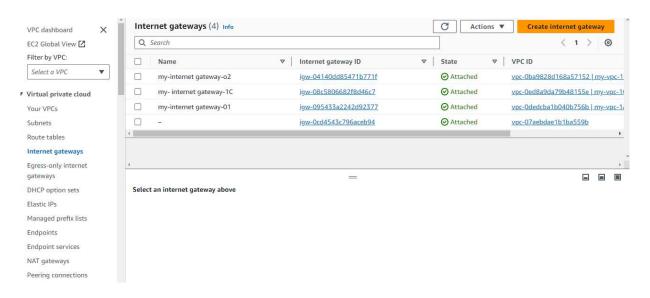


#### NOW CREATE ANOTHER VPC AND ATTACH TO THE INSTANCE.

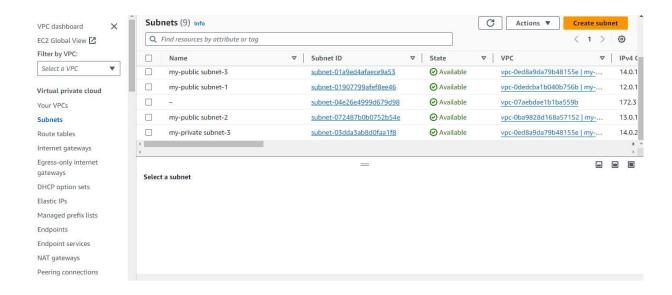
>> Step 1 : First we have to create a vpc (my-vpc-1A) .



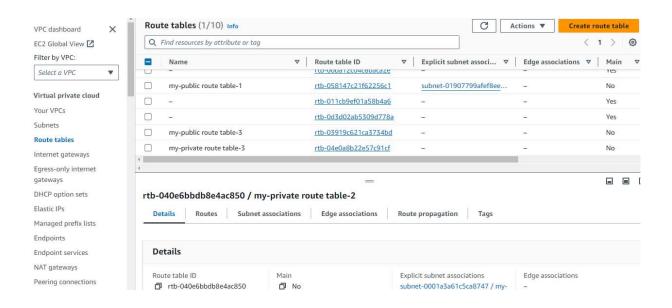
>> Step 2: Now create an internet gateway and attach to vpc (my-vpc-1B).



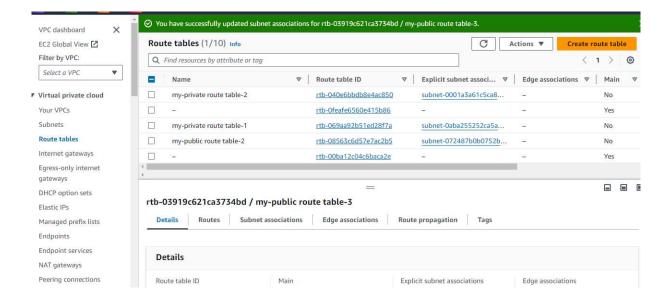
>> Step 3 : Now create two subnets (my-public subnet-3,my-private subnet-3) .



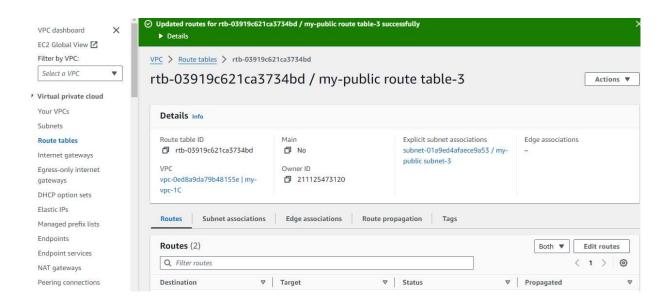
>> Step 4 : Now create two route tables (my-public route table-3,my-private route table-3) .



- >> Step 5: Now connect router tables to subnets for configure routing,
  - (my-public subnet-3 to my-public route table-3) and click on save association.

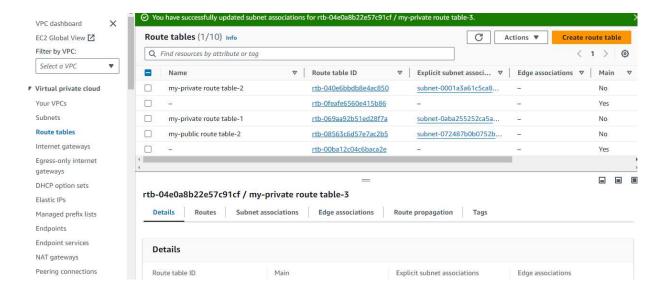


>> Step 6 : Now attach the public route table to the internet gateway for accessing the internet connection for the public subnet .

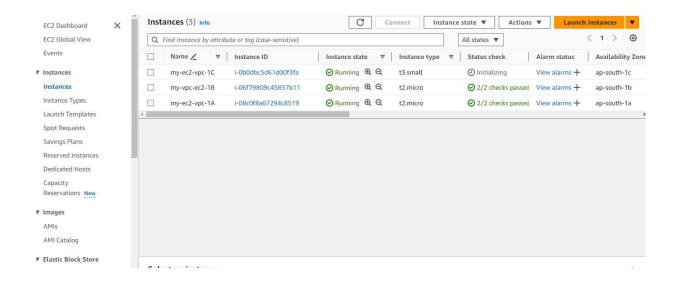


- >> Step 7: Now connect router tables to subnets for configure routing,
  - (my-private subnet-3 to my-private route table-3) and click on save association.

#### NOTE: NO INTERNET CONNECTION FOR PRIVATE SUBNET.



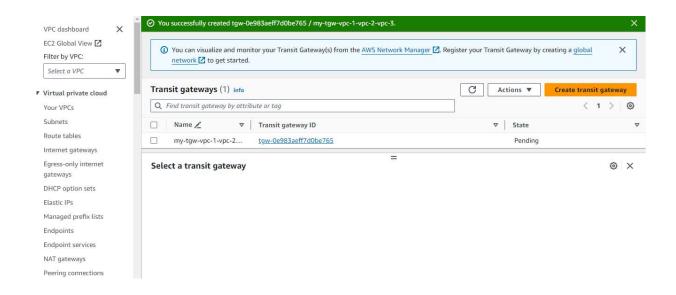
>> Step 8 : Now create an ec2 instance and attach to vpc (my-vpc-1C) .



After creating vpc's and connecting them to instances, connect them to the transit gateway.

## **TRANSIT GATEWAY**

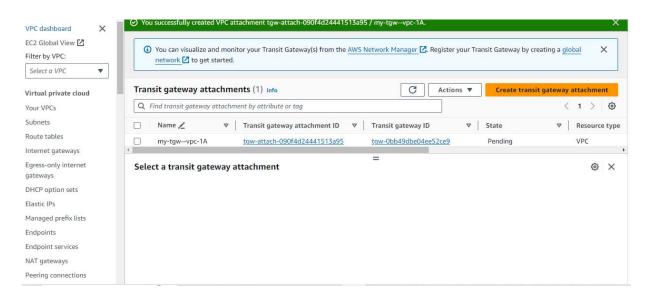
Step 1: Create a transit gateway.



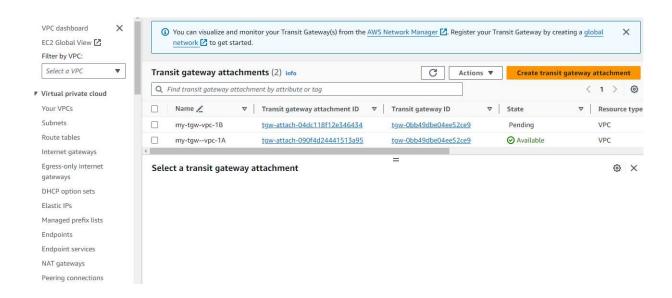
After creating the transit gateway attach all created vpc's to the transit gateway.

#### Step 2 : Connecting attachments.

---- Creating transit gateway attachment for vpc (my-vpc-1A)



—- Creating transit gateway attachment for vpc (my-vpc-1B)



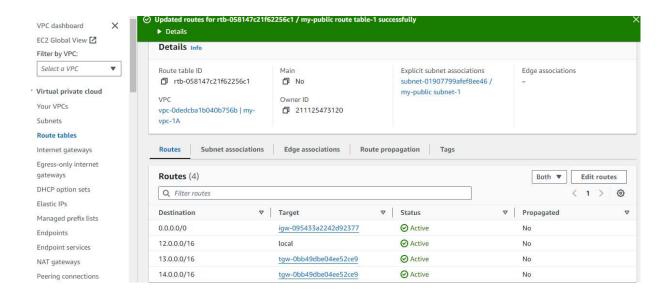
— Creating transit gateway attachment for vpc (my-vpc-1C)



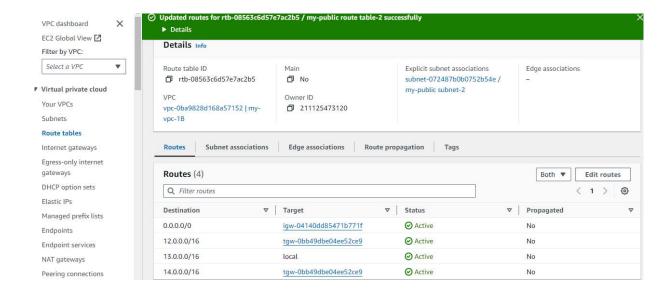
### **UPDATE ROUTE TABLES**

By updating , our subnets will know how to route the request to the transit gateway through this we can also communicate with the other vpc's .

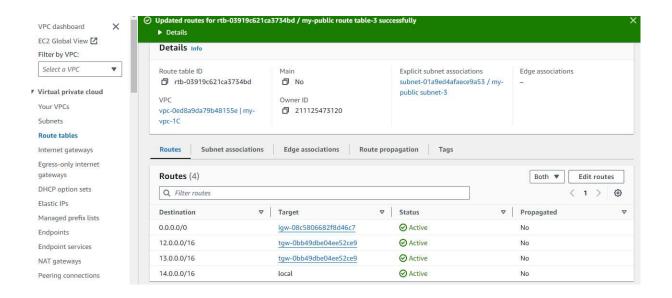
<u>Step 1</u>: Now we are fixing the connection between vpc's (my-vpc-1B and my-vpc-1C) with the first vps (my-vpc-1A).



<u>Step 2</u>: Now we are fixing the connection between vpc's (my-vpc-1A and my-vpc-1C) with the second vps (my-vpc-1B).



<u>Step 3</u>: Now we are fixing the connection between vpc's (my-vpc-1A and my-vpc-1B) with the third vps (my-vpc-1C).



• We have created all vpc's ,transit gateway and attached to ec2 instances & transit gateway.