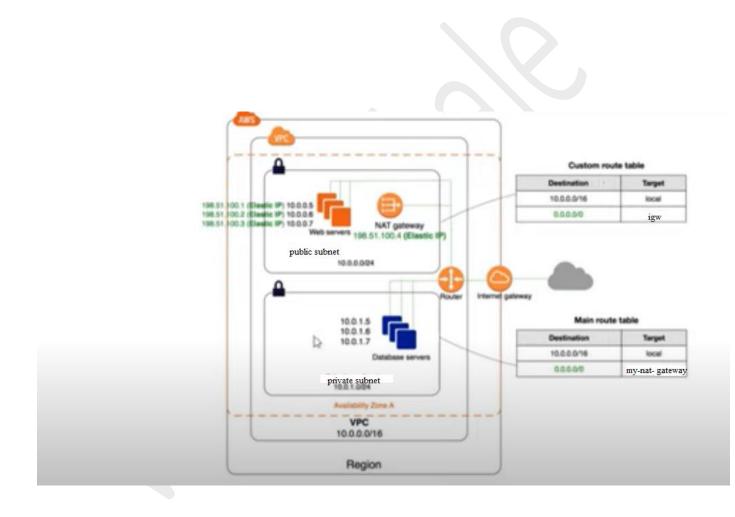
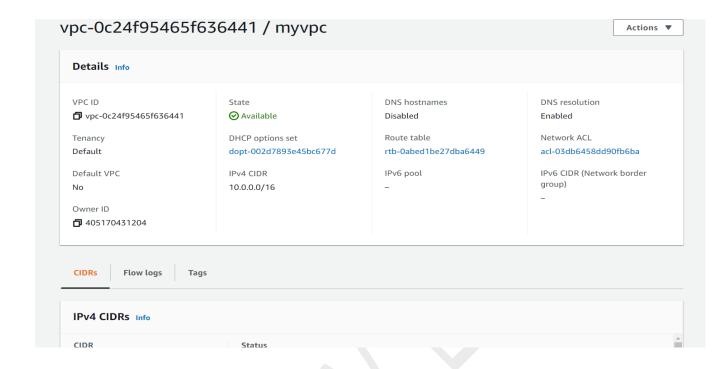
AWS VPC with public, private subnet and NAT Gateway

Create custom VPC with two subnet one as public & other as private subnet add Internet gateway to custom VPC. Create route table for each subnet and add one windows instances on each subnet and connect public subnet to internet gateway and private subnet to NAT gateway to access the internet securely.

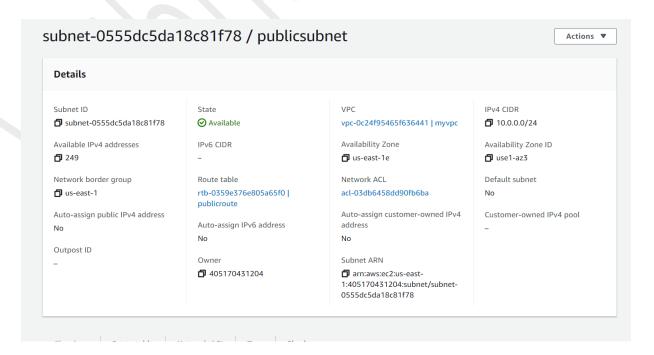


Step:1 Created custom VPC *myvpc*.

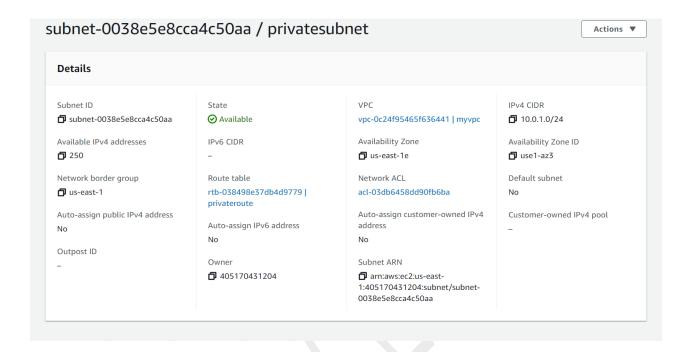


Step: 2 Created two subnets as

1) Public subnet



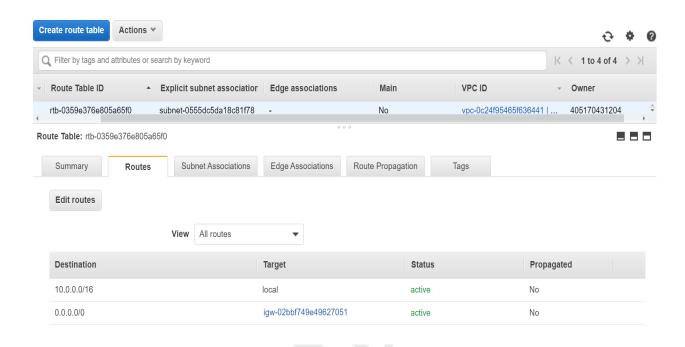
2) Private subnet



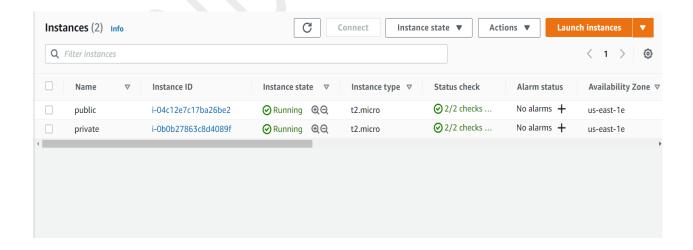
Step: 3 Created one Internet Gateway *myigw* and connected to custom VPC *myvpc*.



Step: 4 Created two route table and private & public subnet associated to these *privateroute* & *publicroute* route table respectively after that added route information related to internet gateway in *publicroute* table.

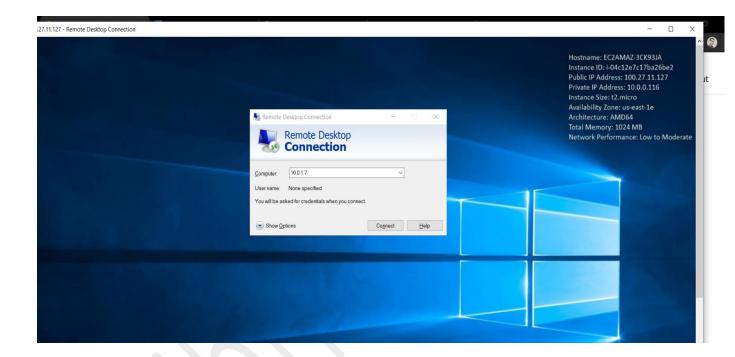


Step: 5 Launched two Microsoft windows server 2019 instances namely *public* and *private* in public and private subnet respectively.

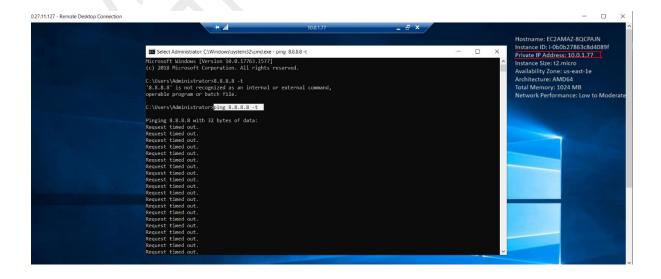


Step:6

- I. Public instance is accessible due to public IP so take RDP of public instance. Both instances present in one VPC so they can communicate with each other using IP.
- II. Take access of private instance using it private IP by public instance.

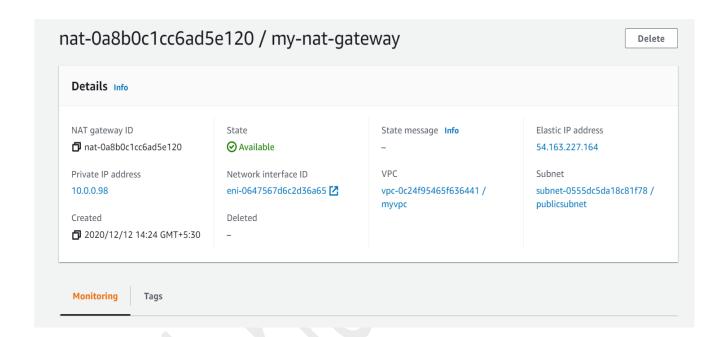


Step: 7 Check whether private instance able to access an internet or not.

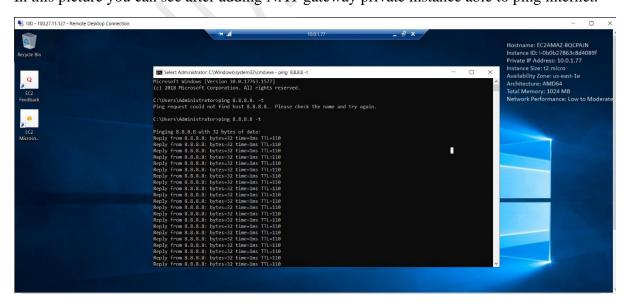


Step:8 Add NAT gateway.

Private instance is not able to access internet due to private IP. Using NAT gateway private instance in private subnet can access internet securely. Here NAT gateway created in public subnet and connected to private subnet throw route table.



In this picture you can see after adding NAT gateway private instance able to ping internet.



THANK YOU