Assignment Vpc

Production Network:

1. Design and build a 4-tier architecture.

2. Create 5 subnets out of which 4 should be private named app1, app2, dbcache and db and one should be public, named web.

3. Launch instances in all subnets and name them as per the subnet that they have been launched in.

4. Allow dbcache instance and app1 subnet to send internet requests.

5. Manage security groups and NACLs.

Development Network:

1. Design and build 2-tier architecture with two subnets named web and db and launch instances in both subnets and name them as per the subnet names.

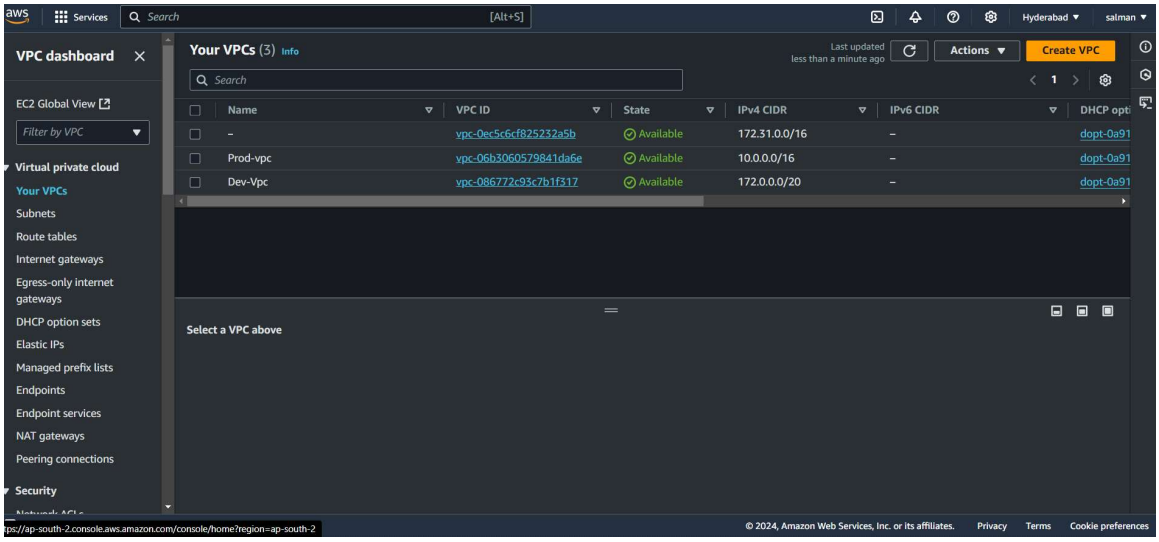
2. Make sure only the web subnet can send internet requests.

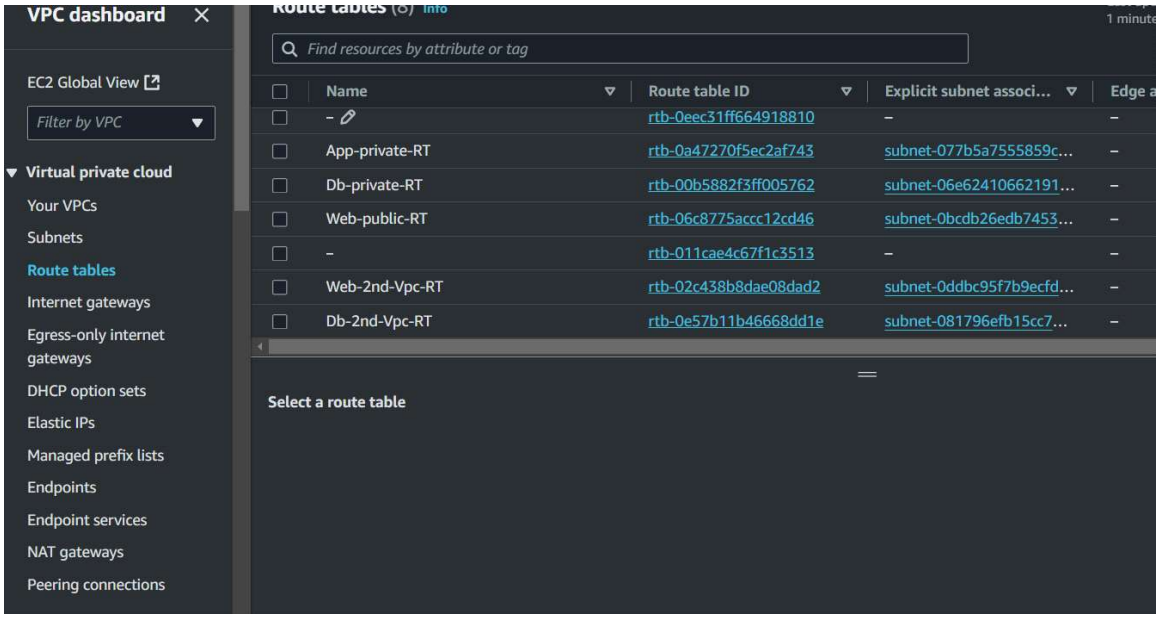
3. Create peering connection between production network and development network.

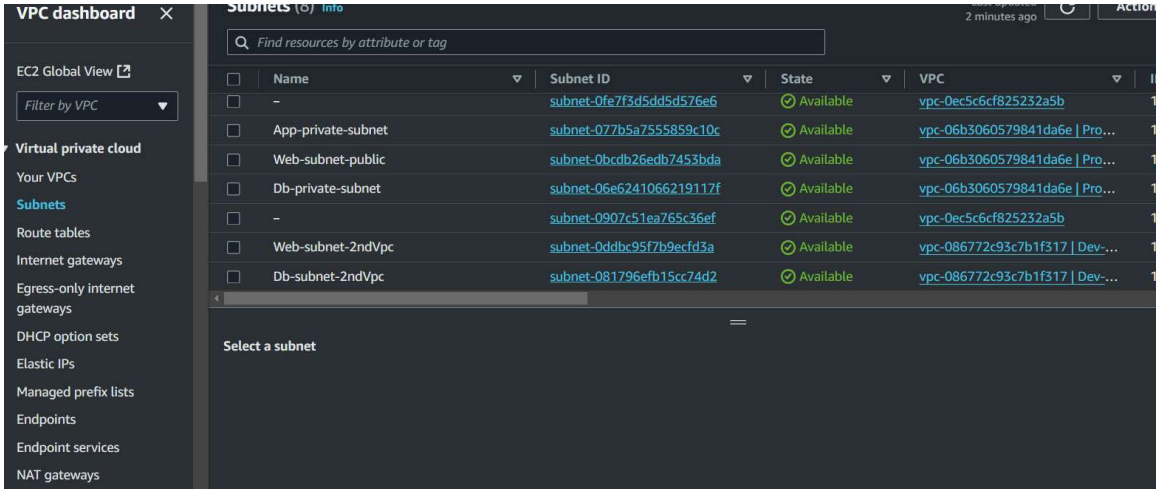
4. Setup connection between db subnets of both production network and development network respectively.

Step1: Vpc creation with the name Prod and Dev and subnets routable

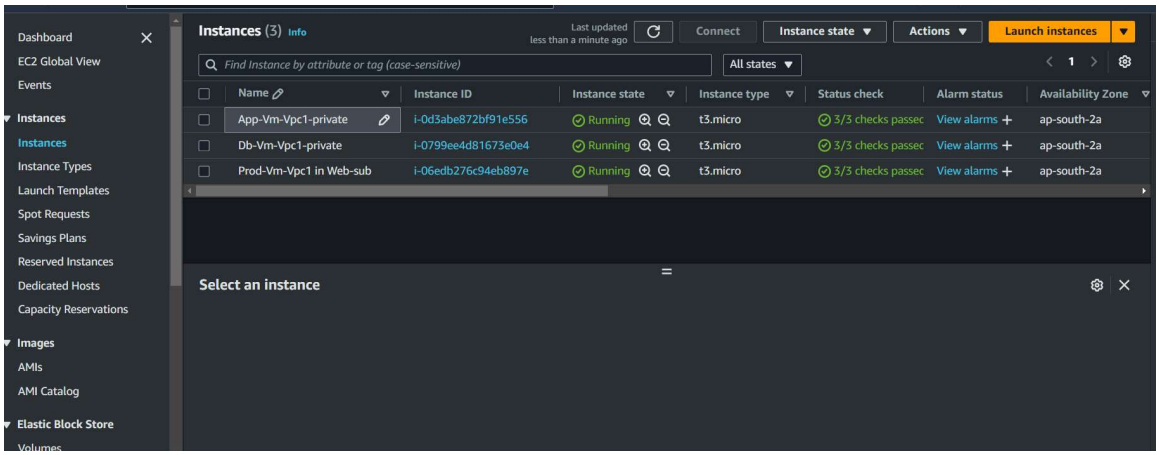
Internetgateway



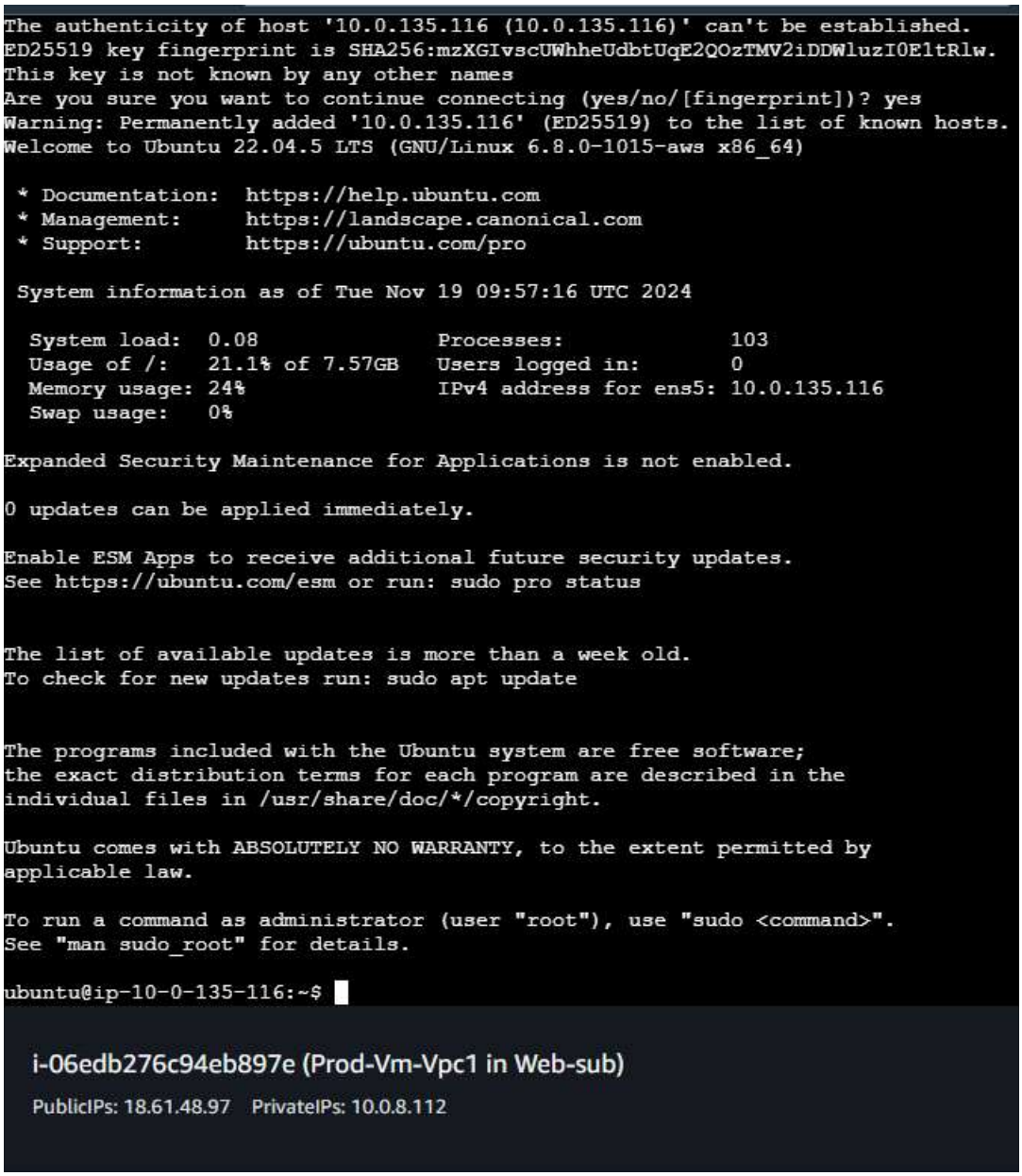




Step2:virtual machines creation for vpc1 in one web public subnet and app, db two private subnets

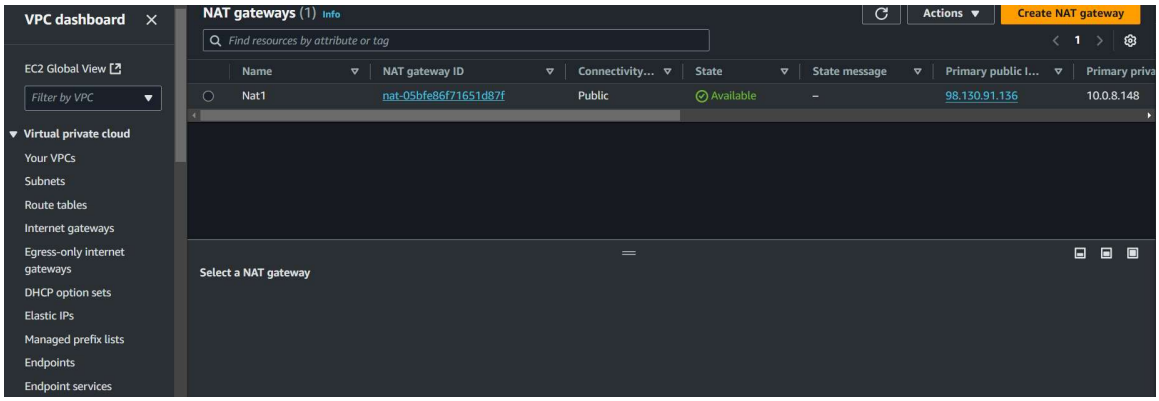


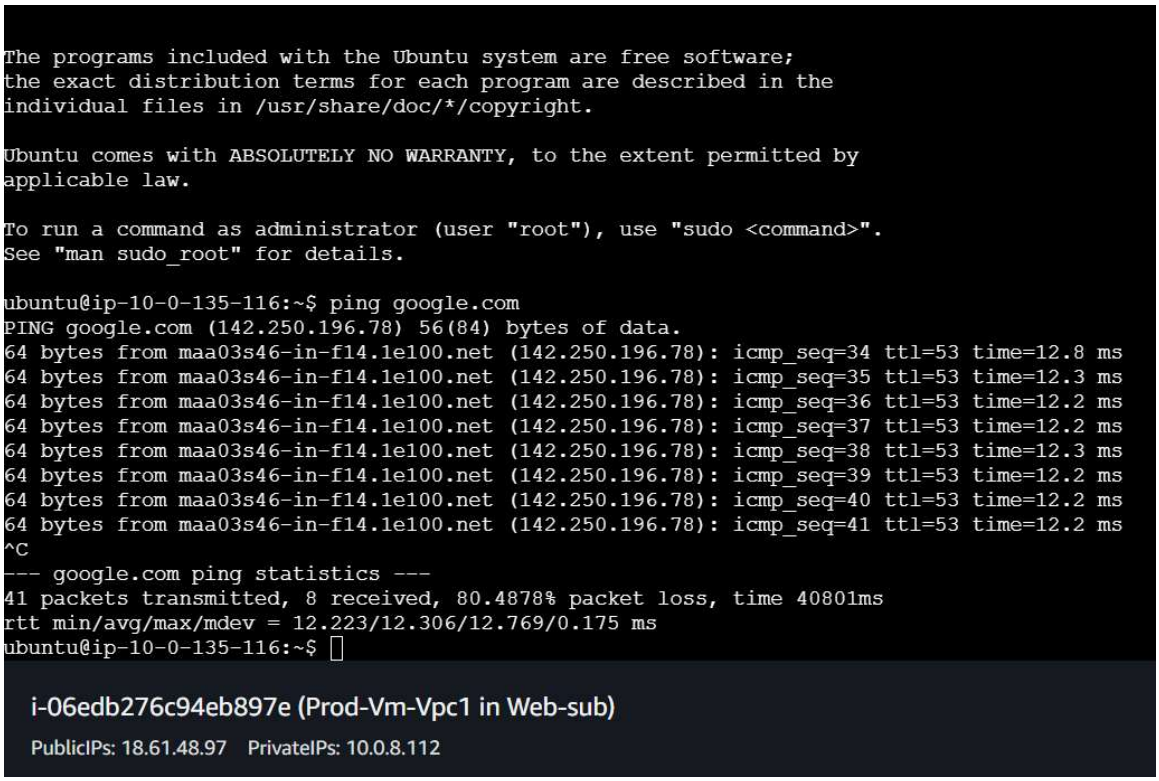
Step3: And now we,ll see are we able to connect to our App instance which is private.



As you can see above we,re able to connect to the private Vm.

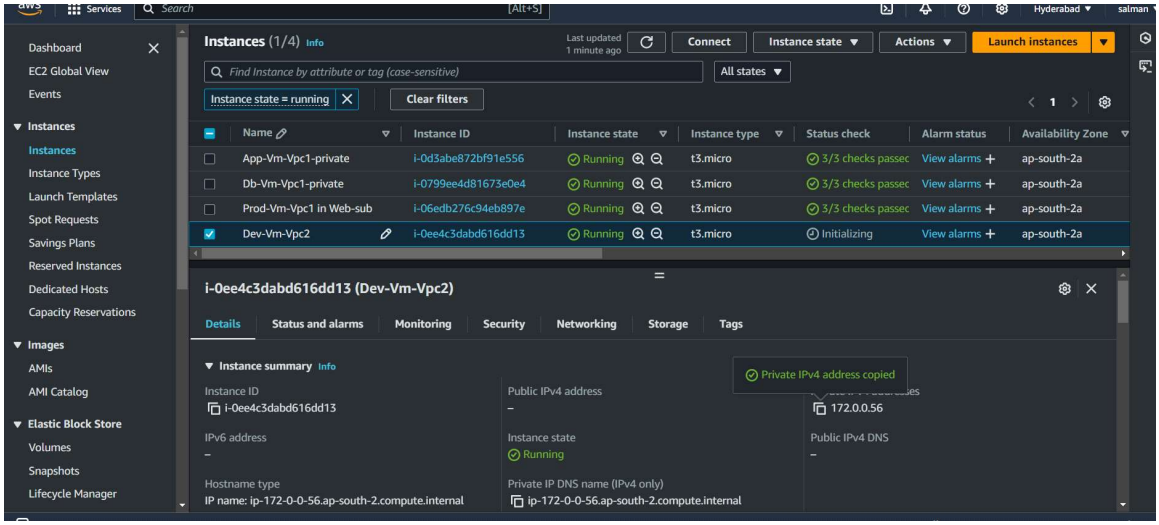
Step4: And now we,ll create NAT gateway in order generate internet access in App instance.



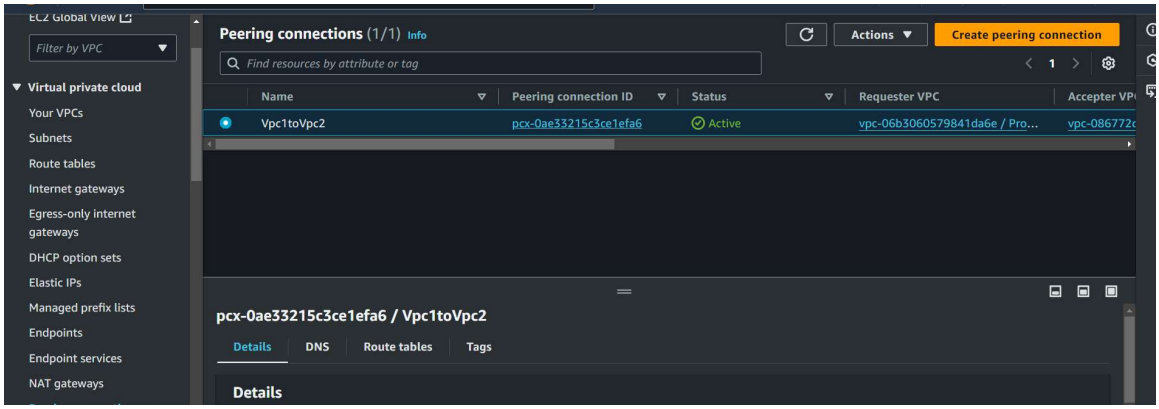


As you can see we able to ping the packages in private instance.

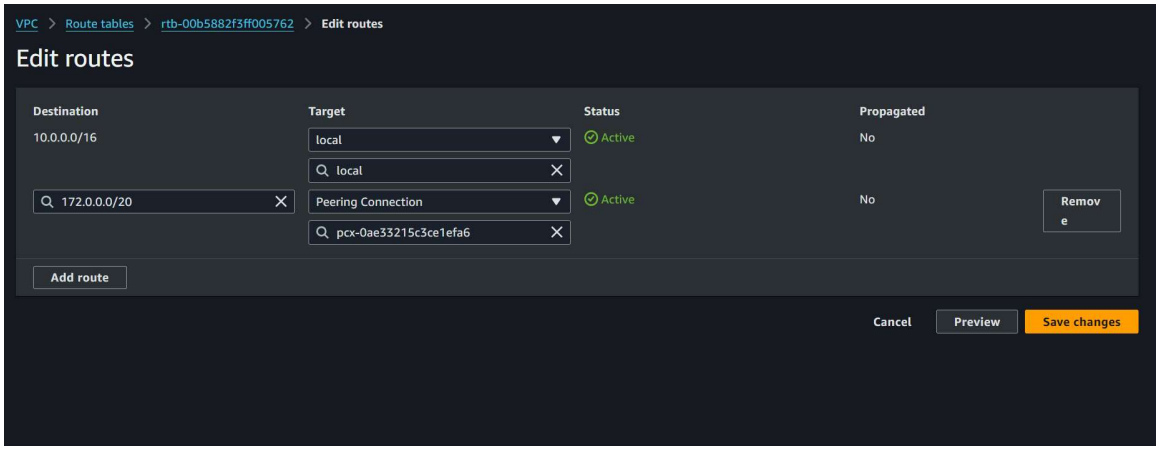
Step5: Now we,ll create Dev instance in order to make peering connection

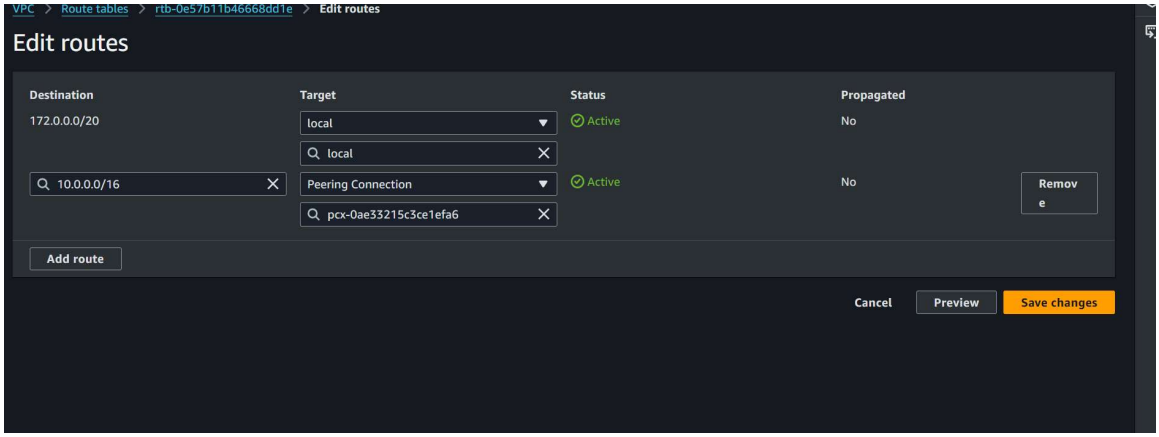


Step6: Creation of peering connection with the name vpc1 to vpc2.



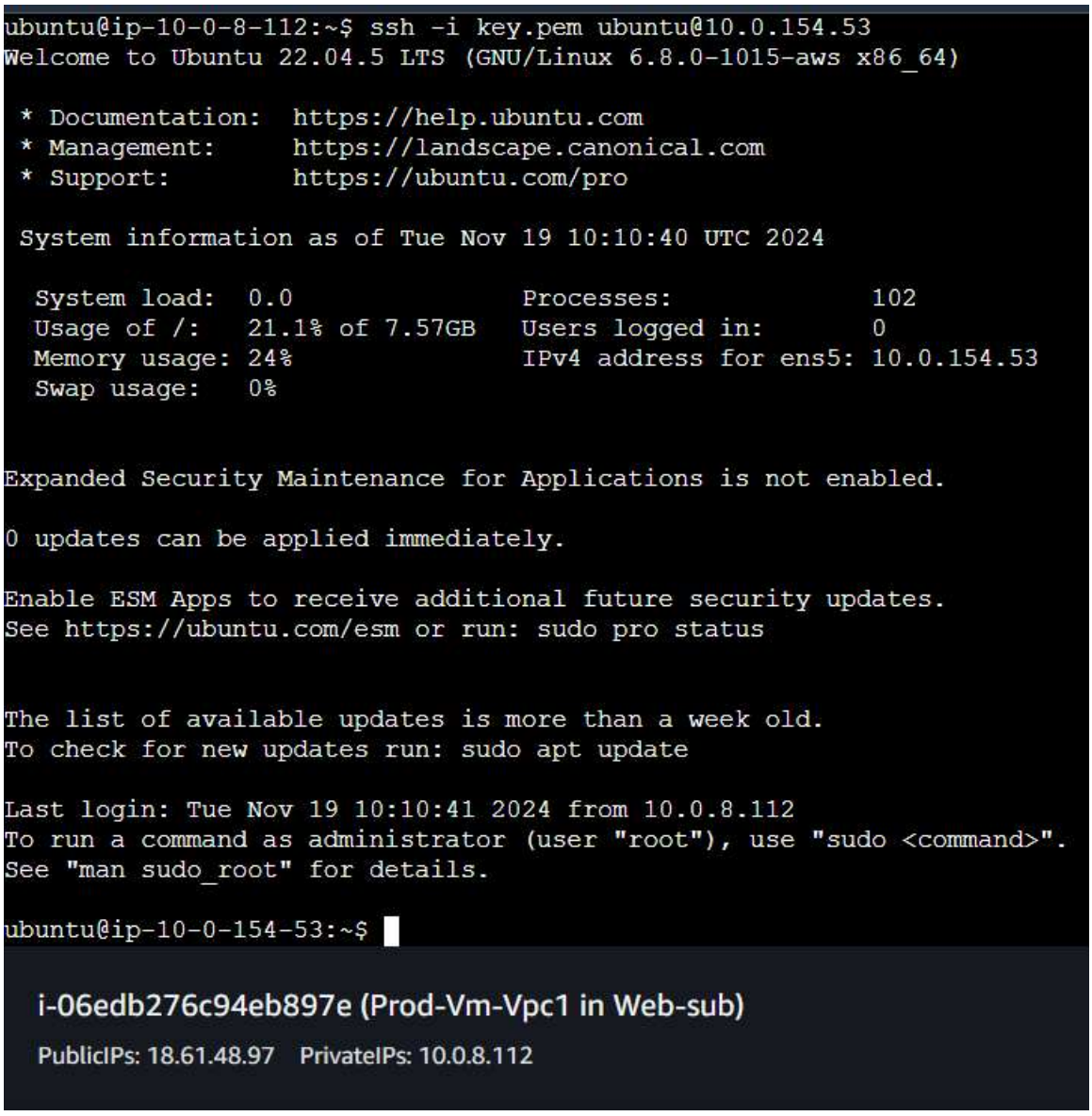
Step7: Routable entries in order talk one machine to another machine.



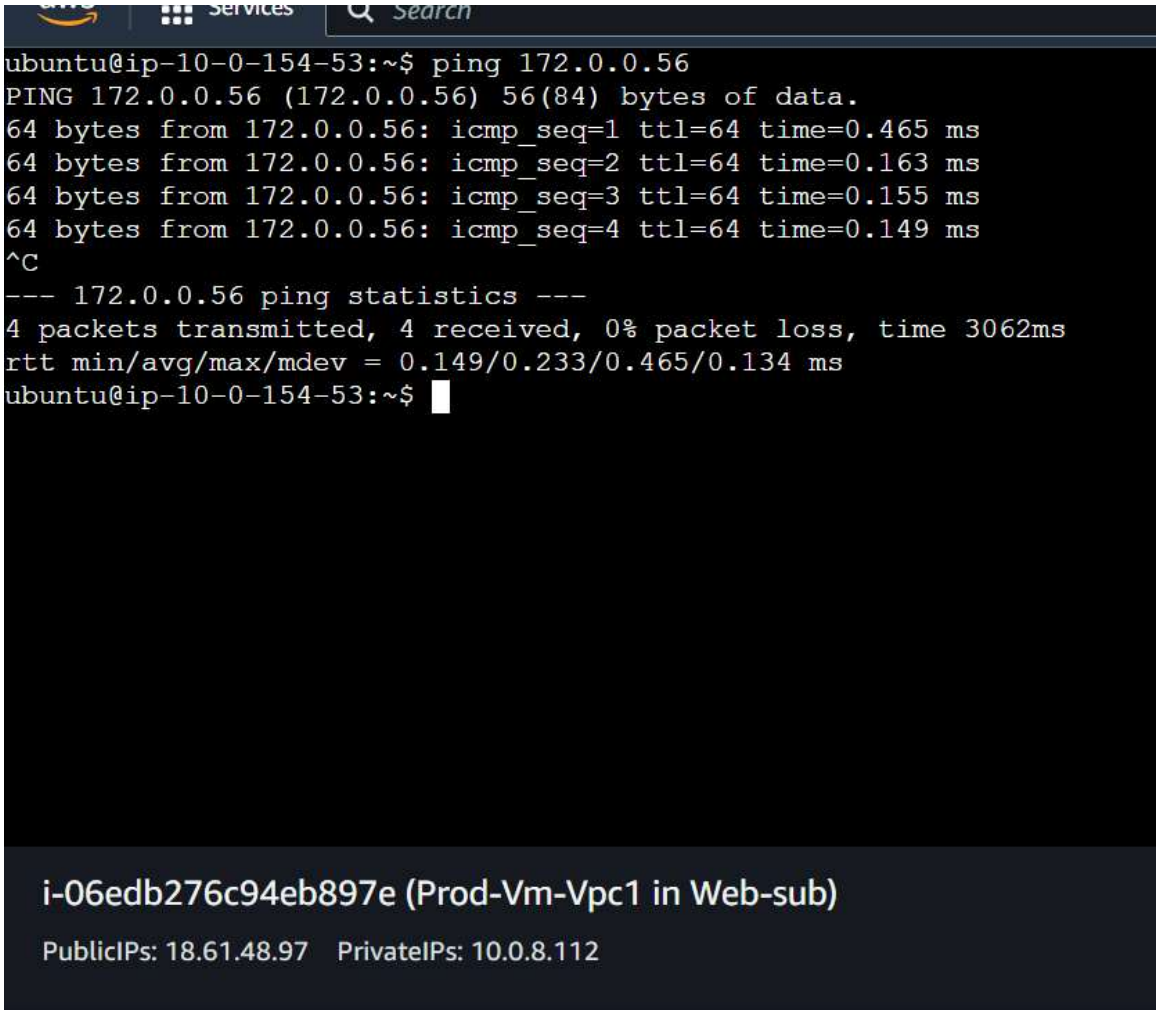


Final step: Checking Peering connection is successfull or not.

We connected to Db instance of vpc1,



And as you can see below we successfully able to make the connection and ping the messages.


Services
Search
ubuntu@ip-10-0-154-53:~$ ping 172.0.0.56
PING 172.0.0.56 (172.0.0.56) 56(84) bytes of data.
64 bytes from 172.0.0.56: icmp_seq=1 ttl=64 time=0.465 ms
64 bytes from 172.0.0.56: icmp_seq=2 ttl=64 time=0.163 ms
64 bytes from 172.0.0.56: icmp_seq=3 ttl=64 time=0.155 ms
64 bytes from 172.0.0.56: icmp_seq=4 ttl=64 time=0.149 ms
^C
--- 172.0.0.56 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3062ms
rtt min/avg/max/mdev = 0.149/0.233/0.465/0.134 ms
ubuntu@ip-10-0-154-53:~$
i-06edb276c94eb897e (Prod-Vm-Vpc1 in Web-sub)
PublicIPs: 18.61.48.97 PrivateIPs: 10.0.8.112