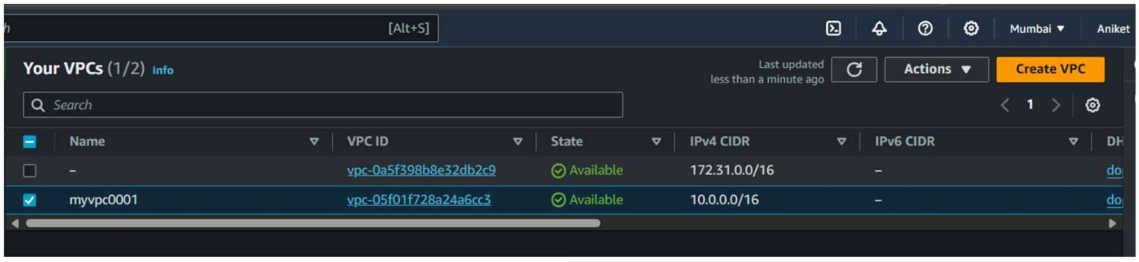
ANIKET THORAT

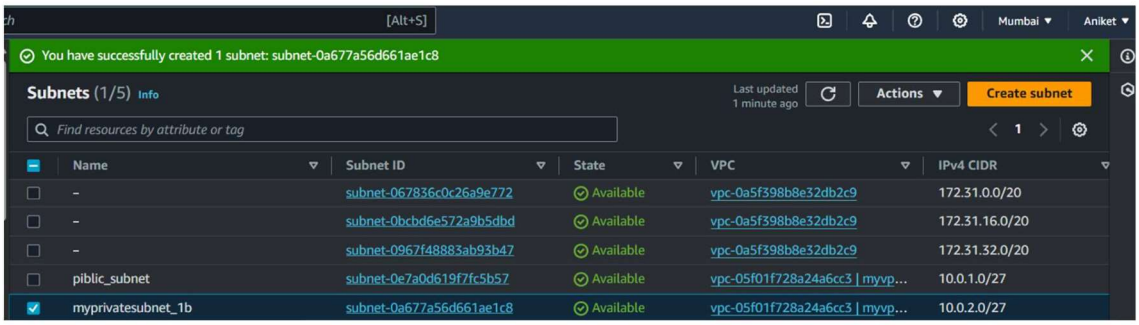
VPC PRACTICAL - 01

DATE – 18/09/2024

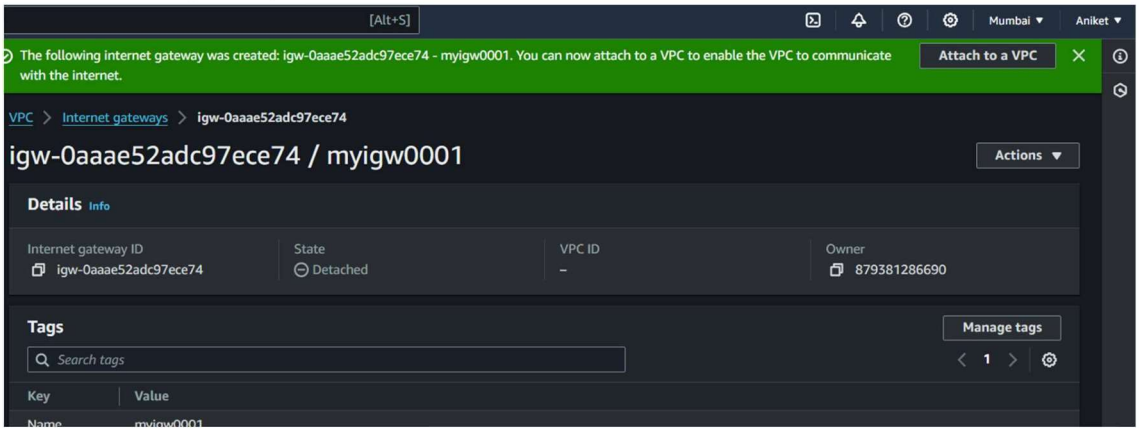
1. CREATE A CUSTOM VPC



2. CREATE PUBLIC SUBNET AND PRIVATE SUBNET..

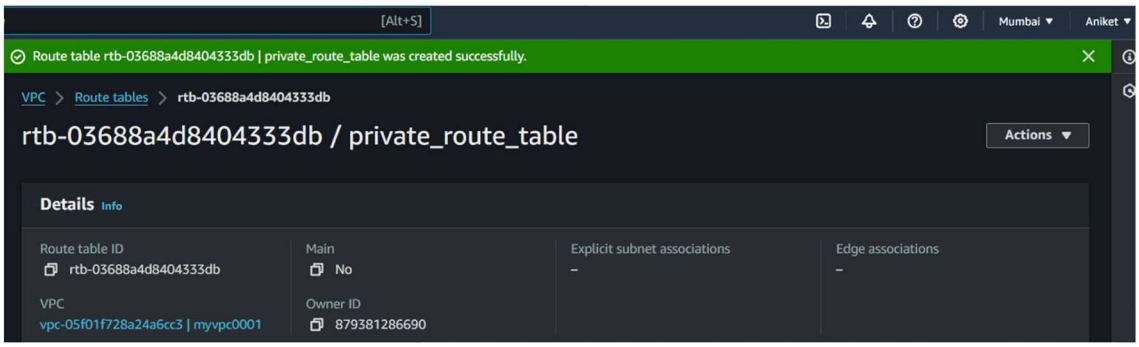


3. Create internet gateway

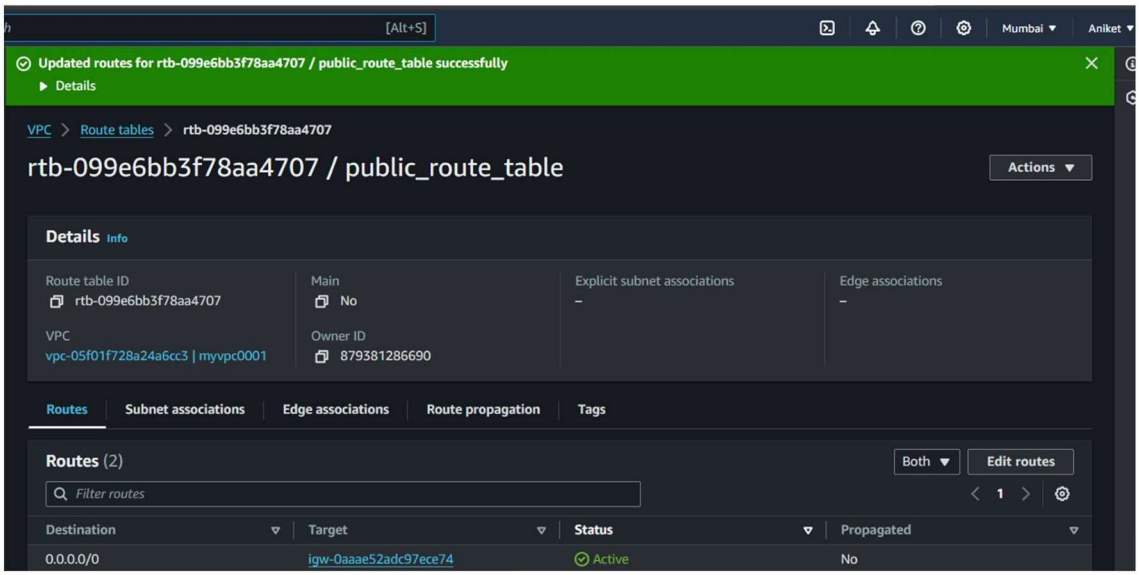


4. Attach INTERNET GATEWAY TO VPC

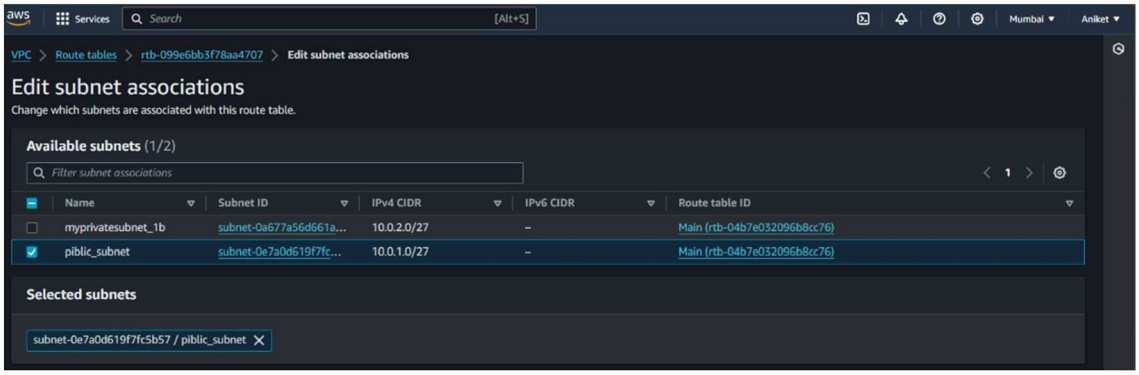
5. Create Private Route table and public routetable



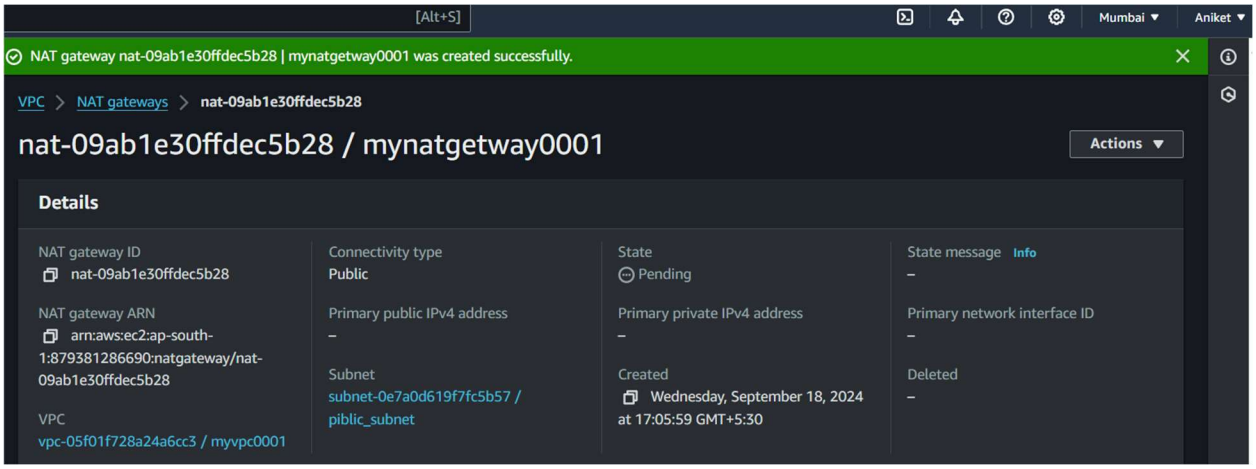
6. Update routes in public route table



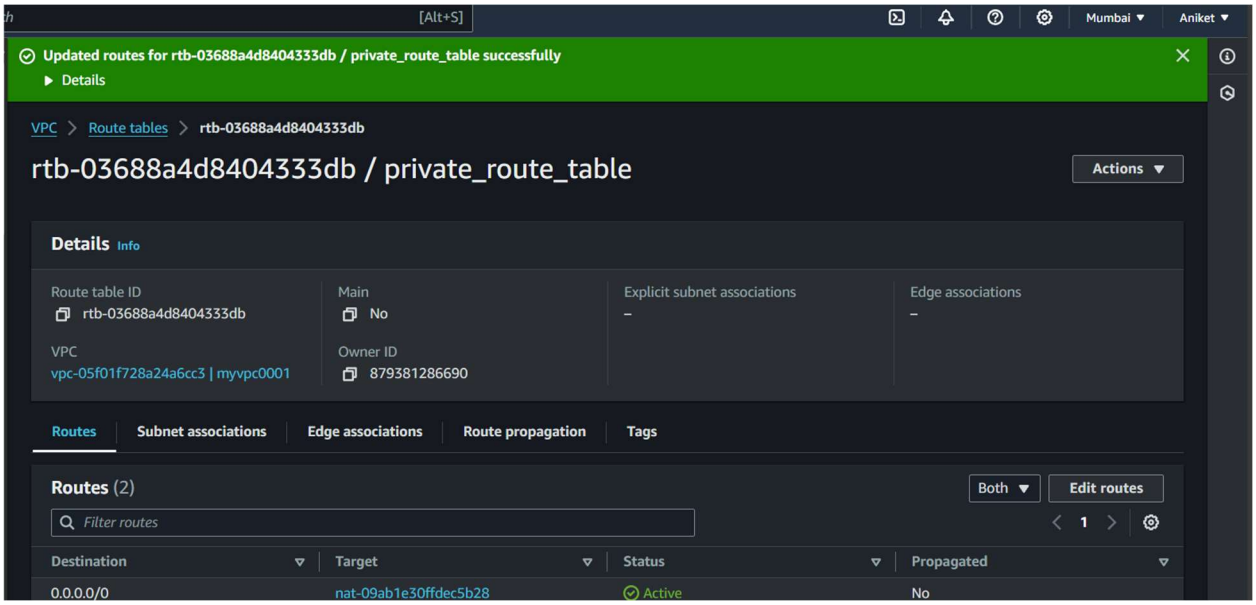
7. Edit subnet association in public route table



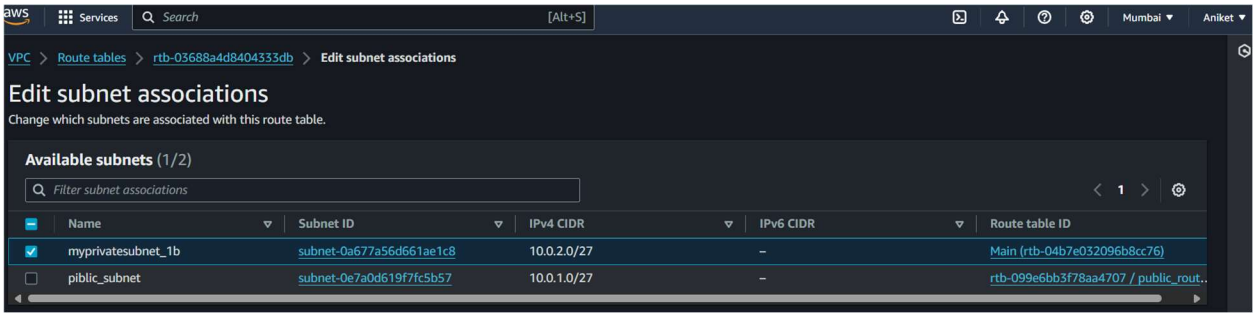
8.CREATE A NAT GATEWAY



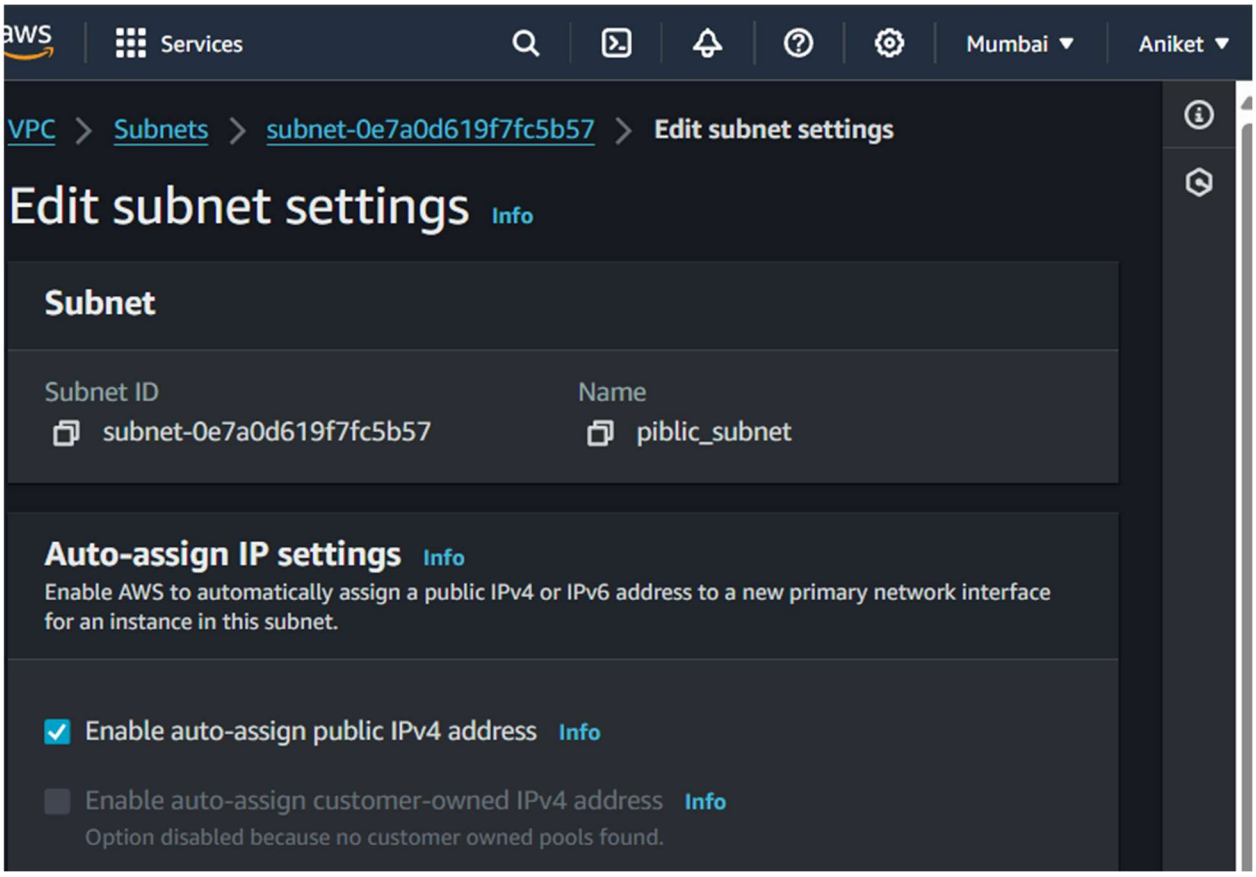
9.ADD NAT GATEWAY TO PRIVATE ROUTE TABLE



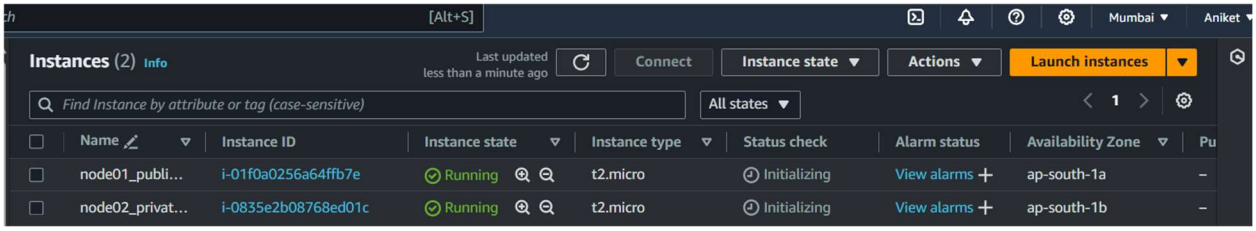
10.ADD SUBNET ASSOSIATION TO PRIVATE ROUTE TABLE



11.EDIT AUTO SIGNIN IN PUBLIC SUBNET

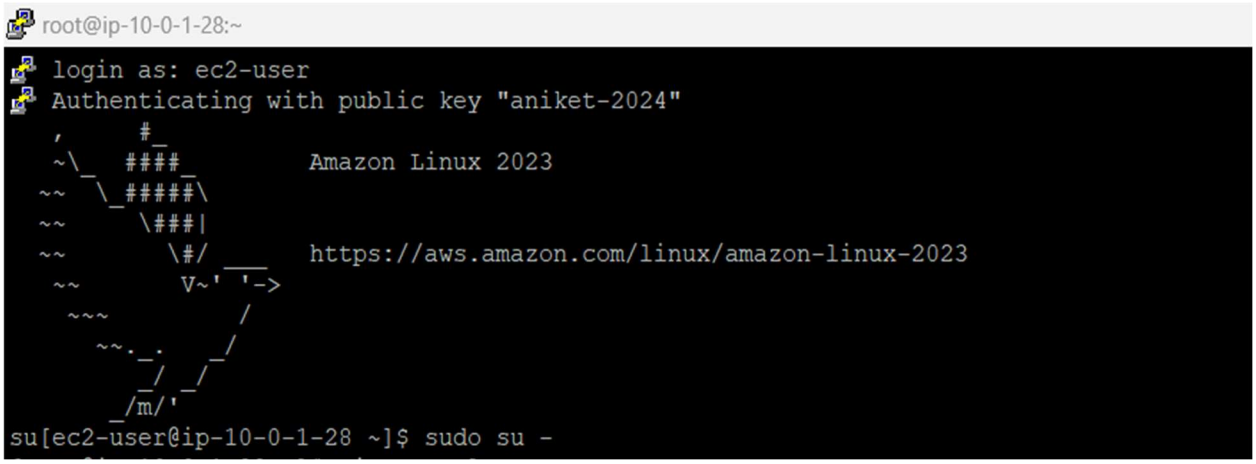


13.CREATE TWO INSANCES PUBLIC INSTANCE AND PRIVATE INSTANCE AND SELECT THE CUSTOM VPC THAT WE HAVE CREATED

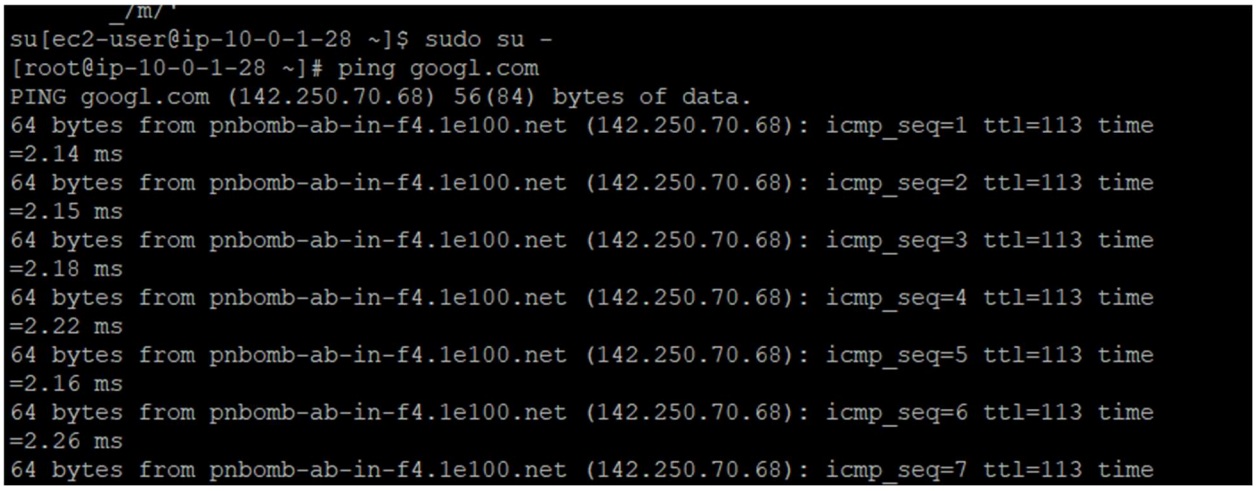


14. WE CANT CONNECT PRIVATE INSTANCE BECAUSE OF WE DON'T HAVE PUBLIC IP

WE CAN ONLY CONNECT THE PUBLIC INSTANCE VIA PUTTY



WE HAVE INTERNET ACCESS TO PUBLIC INSTANCE



WE HAVE CANT CONNECT THE PRIVATE INSTANCE BECAUSE OF PUBLIC IP THAT WE DON'T HAVE, WE CAN CONNECT THROUGH PUBLIC INSTANCE FOR THAT WE NEED PEM KEY

STEP 1 . CREATE A FILE ece.pem and copy the date form pem file and paste in the ece.pem that we created

root@ip-10-0-2-27:~

```
[root@ip-10-0-1-28 ~]# chmod 400 ece.pem
[root@ip-10-0-1-28 ~]#
[root@ip-10-0-1-28 ~]# cat ece.pem
-----BEGIN RSA PRIVATE KEY-----
MIIEogIBAAKCAQEAva49IUOCPao1wesBvzbspgWZjlX5vusWQslI3iNxuEledZxV
az5BuHMgkjr6fn0OI6dWRrxdNhmN2UBKh4E268ec3LhS62JBpxbahtz3P4dpVRvI
rOAGC8VBeGmhwdtvF1OnfyEUt5EqgXTgjl4R3kE8k232n6AbslfHCsDOMnBRYaQs
I9Rn9C09/aVBdMDbMuErpRo4i6OKGEwHng2zHzDL8IHyzgz6N4Oh0WPxkBbJakcF
KLSlfaiBQWws7WhZ2JPZVo5rhjBpYdkzSM3FIYGN5zdv07gK0x+t8cm/PQY0cCxJ
mwo/bpgMl14B+gGJDA9eye2+oWH0jOG6DfUn9QIDAQABAoIBADTdD6pqnyzCeFMA
RS9ehlvK6b3yljUwXbblVEqcxD/hKtNKa8AEzNo0M9qtV0zTW5JyO6hhLPU77/2h
XmQfjgfuTPhy4qE5dCS2SNcXVE0/VwriQG51zRmQsyt0/SEDIBX3OZJDzPtQGPGV
elQTQZWYxuIr3nUkcTOmJRIJJC6IBiF2Zj8nxy2oHeX+0Aj2sxvln6uNIcbvFH8r
e5wsLClvF7av3Yzj5c77lIUm4p/4q9HttcCUWldumlulJ3ou0d9PG6leBipmOr2l
7U2spHx8TIrF8SnV3ZvR9a2gPRug16qh0VH349Dx2EJViBywvXWha+5RPHRSxw7B
zb2OeeECgYEA5qGfo1rtvRw0G6jkmPyRDa25b0gIIyUKF/bTUYCfyq5TiBMq9uC8
l4Fl1FzPuPTOZW7Cs6rKW/GGlMtxyUmISxbkbfXa0EWWmFlfffLH+0r9rzcjAi4Q
vBq8O9e9ddHGUpdV1Bo7uAz6IpLodsWXpDUUe0bttepvbtMVOxLBLO0CgYEA0ot6
kOuTc06AVmYCmjRW7yLIEcmyS2OWhkSfpoxTdJAogBDeOE+Ssu0KCHrhZUqME36y
s4r5/HaMgNuEFFj79mUqrOxfzE1OxghIqt8rMc5Rn2CIbLJ2sbgEHeLayVRng9X8
WDaFCFf+IV1/FRNoiEJ7xVbVcWfITRuwCWzQDikCgYBgGYCXZNAjOJlN3TZDuRoI
BRd7kxww6MIn8iVjlKEAp1sPHE2OyV5MExMHRhUYEIngIiLnEod3gFB/t7YWFZnB
ECzm1Mb0ecqieLsdlAhYYYsLc4IW6nL2rn04wlCjw2FMENsmoje4HVAtD+Hle7gQ
KD38kDWE08bS+wmhr9LmkQKBgDLUdZyzIv/9fcJeElbEOBC3pvGUbjUBL//uZVTC
IAvOGdkBOYUCwPntfDSb5fqcSsESH3Z1IPEwda9OT87RxNKxjeH9lwstxszMhy6p
fjYiB1ag6Y7Ebx9su6GzePqOJAeSC8AIOYnQJIxMnP+rldr/of38fr9IPPVQr+k2
mewxAoGAHMTpyte1m23CoWjCcqlicJMXRRQnfscsk3oAjunZuiZ4TAP/Ehj5lAIX
g0oxe7vClR93PMKIr/Qjd9neT2cMeok2PGP0qd00Eo5BIMyjsHs4l37Dg2ZIWF34
HbFfgh3iRhVmQ/lNLp1CPuzuGhc7aNw4WX6Fz3KR0a9ygP1fgEA=
-----END RSA PRIVATE KEY-----
[root@ip-10-0-1-28 ~]#
[root@ip-10-0-1-28 ~]# ssh -i ece.pem ec2-user@10.0.2.27
The authenticity of host '10.0.2.27 (10.0.2.27)' can't be establishe
ED25519 key fingerprint is SHA256:GC3O8sN3utyaZw1fvqm/sh4W5mXuevTgbC
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])?
Warning: Permanently added '10.0.2.27' (ED25519) to the list of know
```

Change mod from ece.pem file

root@ip-10-0-2-27:~

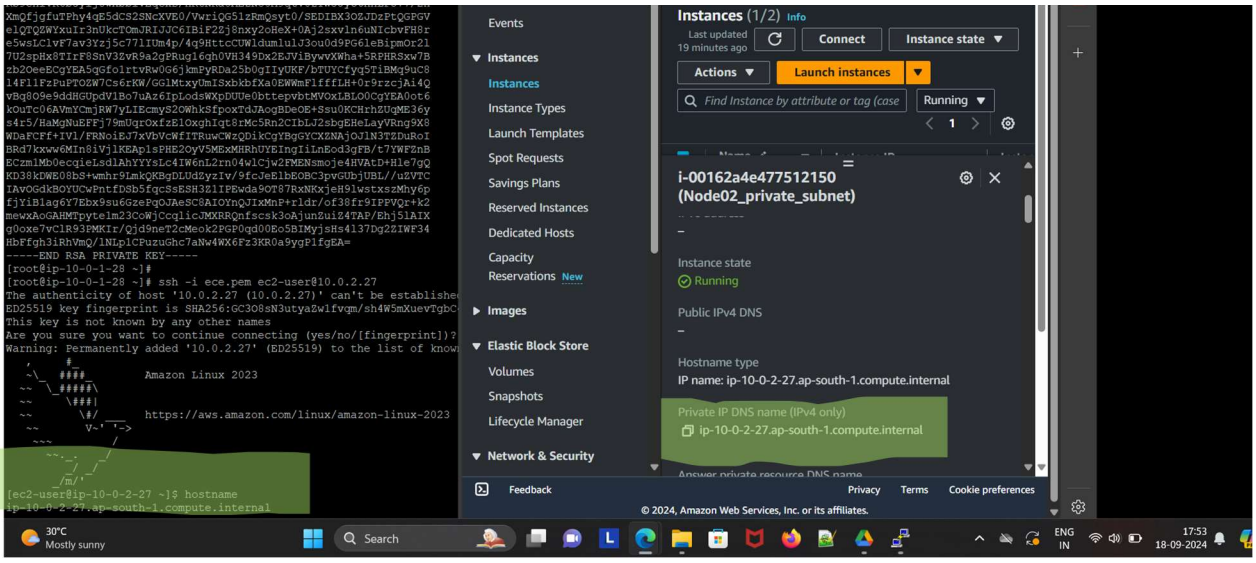
```
[root@ip-10-0-1-28 ~]# chmod 400 ece.pem
[root@ip-10-0-1-28 ~]#
```

CONNECT THE INSTANCE THROUGH PRIVATE IP

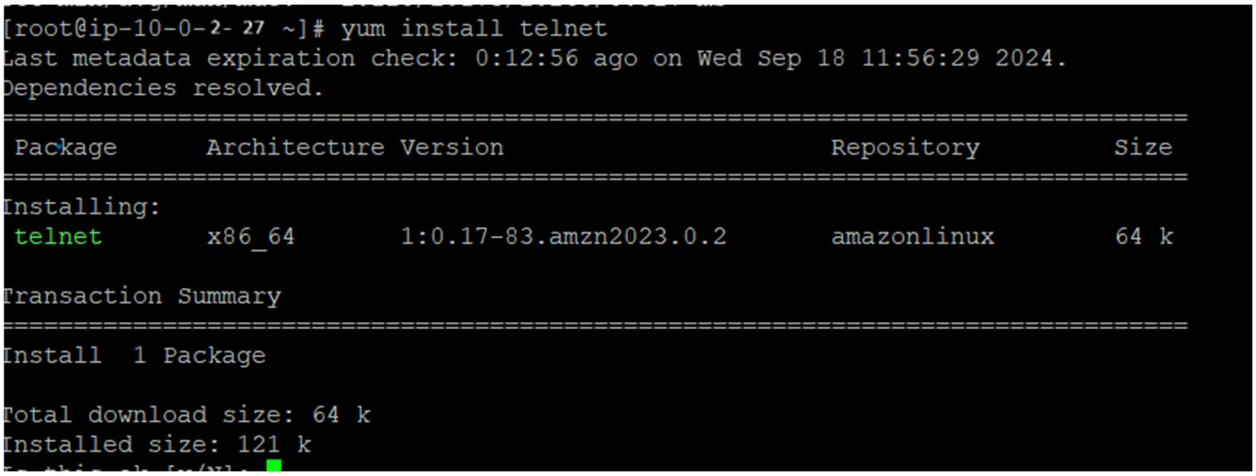
```
[root@ip-10-0-1-28 ~]# ssh -i ece.pem ec2-user@10.0.2.27
The authenticity of host '10.0.2.27 (10.0.2.27)' can't be establishe
ED25519 key fingerprint is SHA256:GC3O8sN3utyaZw1fvqm/sh4W5mXuevTgbC
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])?
Warning: Permanently added '10.0.2.27' (ED25519) to the list of know

     ,      #_
     ~\_   ####_        Amazon Linux 2023
    ~~  \_#####\
    ~~     \###|
    ~~       \#/ ___    https://aws.amazon.com/linux/amazon-linux-2023
     ~~       V~' '->
      ~~~         /
        ~~._.   _/
           _/ _/
         _/m/'
[ec2-user@ip-10-0-2-27 ~]$ hostname
ip-10-0-2-27.ap-south-1.compute.internal
```

Now we can see the DNS name is same



Now we can see internet access to the private server and we can also install pakages SUSSESSFULLY



Thank you