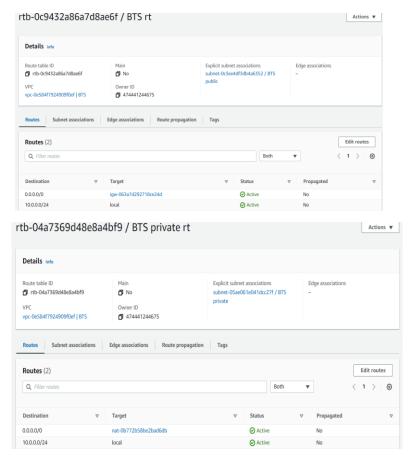
21A91A6148

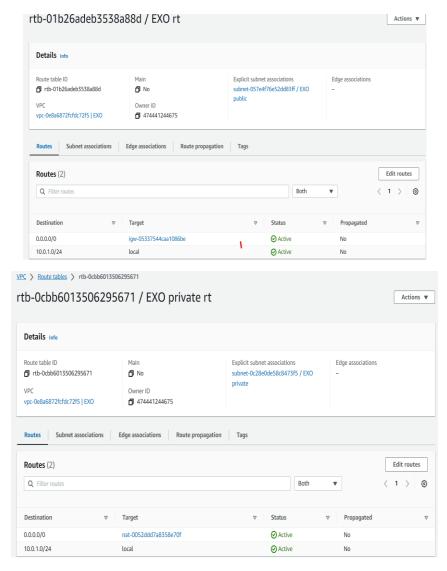
3 VPC PEERING

1. Created a VPC named BTS making it accessible allowing internet gateway, nat gateway and bastion host also.



2. Making the instance in public as bastion host and trying to go to internet with both instances in public and private in VPC 2

3. Created a VPC named EXO making it accessible allowing internet gateway, nat gateway and bastion host also.



4. Making the instance in public as bastion host and trying to go to internet with both instances in public and private in VPC 2

```
[ec2-user@ip-10-0-1-103 ~]$ sudo su
[root@ip-10-0-1-103 ec2-user]# ssh -i exo.pem ec2-user@10.0.1.135
The authenticity of host '10.0.1.135 (10.0.1.135)' can't be established.
ED25519 key fingerprint is SHA256:uFwXwwox0six91gXgyDrOuXl8CxcJXkz/KSD2au1Zjg.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.0.1.135' (ED25519) to the list of known hosts.

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Amazon Linux 2023

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https://aws.amazon.com/linux/amazon-linux-2023

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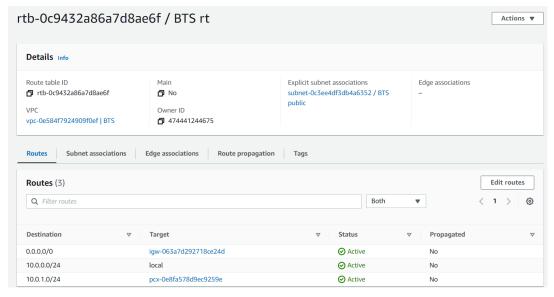
~~ \##|

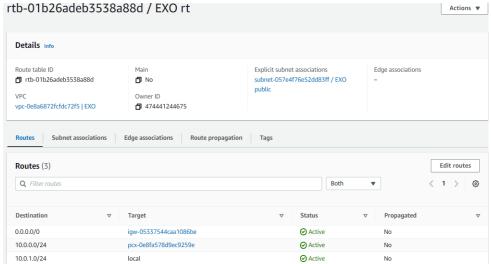
fec2-user@ip-10-0-1-135 ~]$ sudo su
[root@ip-10-0-1-135 ec2-user]# ping www.google.com
PING www.google.com (172.253.63.147) 56(84) bytes of data.
64 bytes from bi-in-f147.1e100.net (172.253.63.147): icmp_seq=1 ttl=51 time=2.75 ms
64 bytes from bi-in-f147.1e100.net (172.253.63.147): icmp_seq=2 ttl=51 time=2.76 ms
64 bytes from bi-in-f147.1e100.net (172.253.63.147): icmp_seq=3 ttl=51 time=2.74 ms

~~ \

C--- www.google.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3004ms
rtt min/avg/max/mdev = 2.744/2.896/3.331/0.251 ms
[root@ip-10-0-1-135 ec2-user]#
```

5. VPC peering between 1st and 2nd VPC





6. VPC peering is successful and communication is happening

```
Last login: Tue Sep 12 05:55:01 2023 from 157.48.145.130
[ec2-user@ip-10-0-0-82 ~]$ sudo su
[root@ip-10-0-0-82 ec2-user]# ping 10.0.1.103
PING 10.0.1.103 (10.0.1.103) 56(84) bytes of data.
64 bytes from 10.0.1.103: icmp_seq=1 ttl=127 time=1.31 ms
64 bytes from 10.0.1.103: icmp_seq=2 ttl=127 time=0.963 ms
64 bytes from 10.0.1.103: icmp_seq=3 ttl=127 time=1.03 ms
64 bytes from 10.0.1.103: icmp_seq=4 ttl=127 time=0.988 ms
64 bytes from 10.0.1.103: icmp_seq=5 ttl=127 time=0.929 ms
64 bytes from 10.0.1.103: icmp_seq=6 ttl=127 time=1.01 ms
64 bytes from 10.0.1.103: icmp_seq=7 ttl=127 time=0.958 ms
^C
--- 10.0.1.103 ping statistics ---
7 packets transmitted, 7 received, 0% packet loss, time 6007ms
rtt min/avg/max/mdev = 0.929/1.027/1.313/0.120 ms
[root@ip-10-0-0-82 ec2-user]#
```

```
Last login: Tue Sep 12 05:59:41 2023 from 157.48.88.11

[ec2-user@ip-10-0-1-103 ~]$ sudo su

[root@ip-10-0-1-103 ec2-user]# ping 10.0.0.82

PING 10.0.0.82 (10.0.0.82) 56(84) bytes of data.

64 bytes from 10.0.0.82: icmp_seq=1 ttl=127 time=0.869 ms

64 bytes from 10.0.0.82: icmp_seq=2 ttl=127 time=1.03 ms

64 bytes from 10.0.0.82: icmp_seq=3 ttl=127 time=1.00 ms

64 bytes from 10.0.0.82: icmp_seq=4 ttl=127 time=1.01 ms

^C

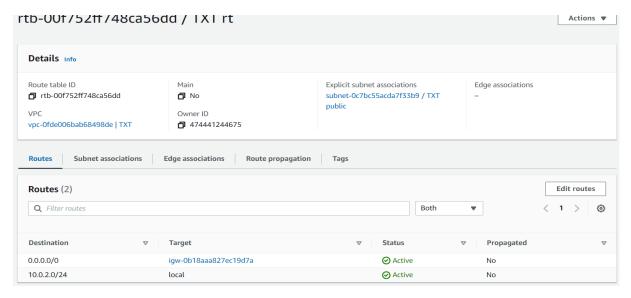
--- 10.0.0.82 ping statistics ---

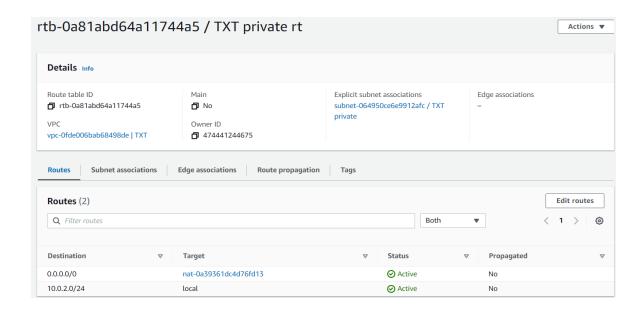
4 packets transmitted, 4 received, 0% packet loss, time 3070ms

rtt min/avg/max/mdev = 0.869/0.979/1.034/0.064 ms

[root@ip-10-0-1-103 ec2-user]# ■
```

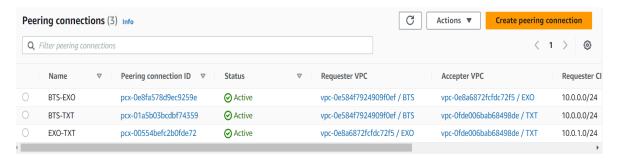
7. Created a VPC named EXO making it accessible allowing internet gateway, nat gateway and bastion host also.



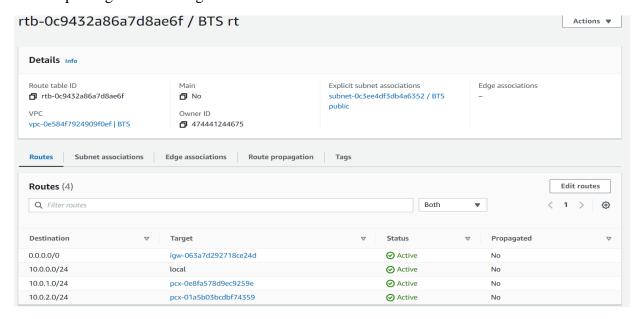


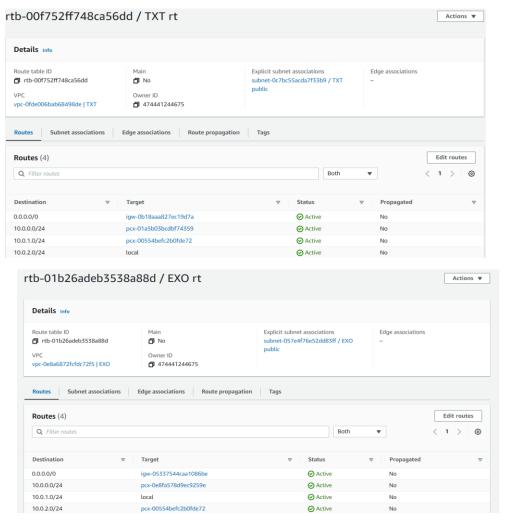
8. Making the instance in public as bastion host and trying to go to internet with both instances in public and private in VPC 2

9. Peering creation between 3 VPCs



10. 3 VPC peering routes adding





11. Checking the peering connection.

```
Last login: Tue Sep 12 06:27:52 2023 from 157.48.132.173
[ec2-user@ip-10-0-2-80 ~]$
[ec2-user@ip-10-0-2-80 ~]$ sudo su
[root@ip-10-0-2-80 ec2-user]# ping 10.0.0.82
PING 10.0.0.82 (10.0.0.82) 56(84) bytes of data.
64 bytes from 10.0.0.82: icmp_seq=1 ttl=127 time=1.42 ms
64 bytes from 10.0.0.82: icmp_seq=2 ttl=127 time=0.856 ms
64 bytes from 10.0.0.82: icmp_seq=3 ttl=127 time=0.952 ms
64 bytes from 10.0.0.82: icmp_seq=4 ttl=127 time=0.923 ms
64 bytes from 10.0.0.82: icmp seq=5 ttl=127 time=0.898 ms
^C
--- 10.0.0.82 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4005ms
rtt min/avg/max/mdev = 0.856/1.009/1.418/0.206 ms
[root@ip-10-0-2-80 ec2-user]# ping 10.0.1.103
PING 10.0.1.103 (10.0.1.103) 56(84) bytes of data.
64 bytes from 10.0.1.103: icmp_seq=1 ttl=127 time=1.11 ms
64 bytes from 10.0.1.103: icmp_seq=2 ttl=127 time=0.680 ms
64 bytes from 10.0.1.103: icmp_seq=3 ttl=127 time=0.675 ms
64 bytes from 10.0.1.103: icmp_seq=4 ttl=127 time=0.725 ms
64 bytes from 10.0.1.103: icmp_seq=5 ttl=127 time=0.950 ms
64 bytes from 10.0.1.103: icmp_seq=6 ttl=127 time=0.693 ms
^C
--- 10.0.1.103 ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5087ms
rtt min/avg/max/mdev = 0.675/0.804/1.106/0.164 ms
[root@ip-10-0-2-80 ec2-user]#
```

```
Last login: Tue Sep 12 06:12:49 2023 from 157.48.223.95
[ec2-user@ip-10-0-1-103 ~]$ sudo su
[root@ip-10-0-1-103 ec2-user]# ping 10.0.0.82
PING 10.0.0.82 (10.0.0.82) 56(84) bytes of data.
64 bytes from 10.0.0.82: icmp_seq=1 ttl=127 time=0.942 ms
64 bytes from 10.0.0.82: icmp_seq=2 ttl=127 time=1.02 ms
64 bytes from 10.0.0.82: icmp_seq=3 ttl=127 time=1.10 ms
64 bytes from 10.0.0.82: icmp seq=4 ttl=127 time=1.05 ms
^C
--- 10.0.0.82 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3004ms
rtt min/avg/max/mdev = 0.942/1.026/1.099/0.056 ms
[root@ip-10-0-1-103 ec2-user]# ping 10.0.2.80
PING 10.0.2.80 (10.0.2.80) 56(84) bytes of data.
64 bytes from 10.0.2.80: icmp_seq=1 ttl=127 time=0.642 ms
64 bytes from 10.0.2.80: icmp_seq=2 ttl=127 time=0.718 ms
64 bytes from 10.0.2.80: icmp_seq=3 ttl=127 time=0.720 ms
64 bytes from 10.0.2.80: icmp_seq=4 ttl=127 time=0.773 ms
64 bytes from 10.0.2.80: icmp_seq=5 ttl=127 time=0.738 ms
--- 10.0.2.80 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4184ms
rtt min/avg/max/mdev = 0.642/0.718/0.773/0.042 ms
[root@ip-10-0-1-103 ec2-user]#
```

```
Last login: Tue Sep 12 06:10:15 2023 from 157.48.223.95
[ec2-user@ip-10-0-0-82 ~]$ sudo su
[root@ip-10-0-0-82 ec2-user]# ping 10.0.1.103
PING 10.0.1.103 (10.0.1.103) 56(84) bytes of data.
64 bytes from 10.0.1.103: icmp_seq=1 ttl=127 time=1.12 ms
64 bytes from 10.0.1.103: icmp_seq=2 ttl=127 time=1.09 ms
64 bytes from 10.0.1.103: icmp_seq=3 ttl=127 time=0.953 ms
64 bytes from 10.0.1.103: icmp_seq=4 ttl=127 time=1.08 ms
64 bytes from 10.0.1.103: icmp seq=5 ttl=127 time=0.984 ms
^C
--- 10.0.1.103 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4005ms
rtt min/avg/max/mdev = 0.953/1.045/1.124/0.065 ms
[root@ip-10-0-0-82 ec2-user]# ping 10.0.2.80
PING 10.0.2.80 (10.0.2.80) 56(84) bytes of data.
64 bytes from 10.0.2.80: icmp_seq=1 ttl=127 time=0.901 ms
64 bytes from 10.0.2.80: icmp_seq=2 ttl=127 time=0.872 ms
64 bytes from 10.0.2.80: icmp_seq=3 ttl=127 time=0.879 ms
64 bytes from 10.0.2.80: icmp_seq=4 ttl=127 time=0.877 ms
^C
--- 10.0.2.80 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3003ms
rtt min/avg/max/mdev = 0.872/0.882/0.901/0.011 ms
[root@ip-10-0-0-82 ec2-user]#
```