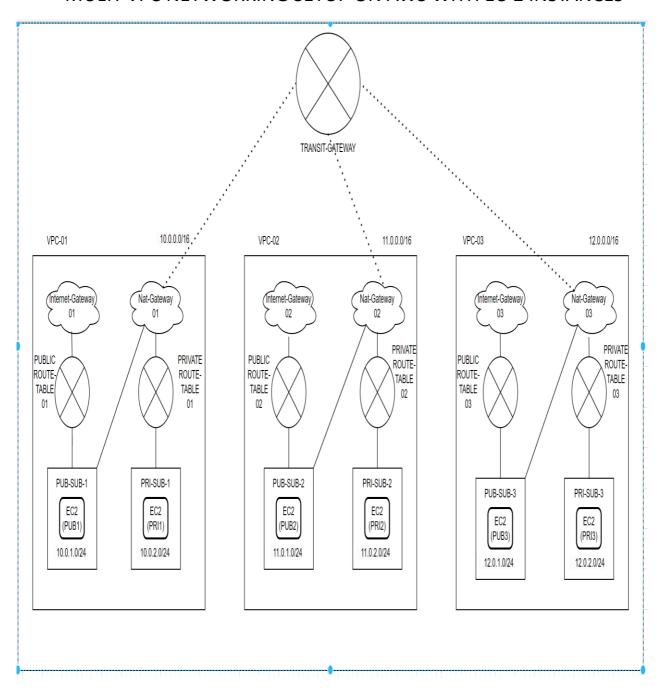
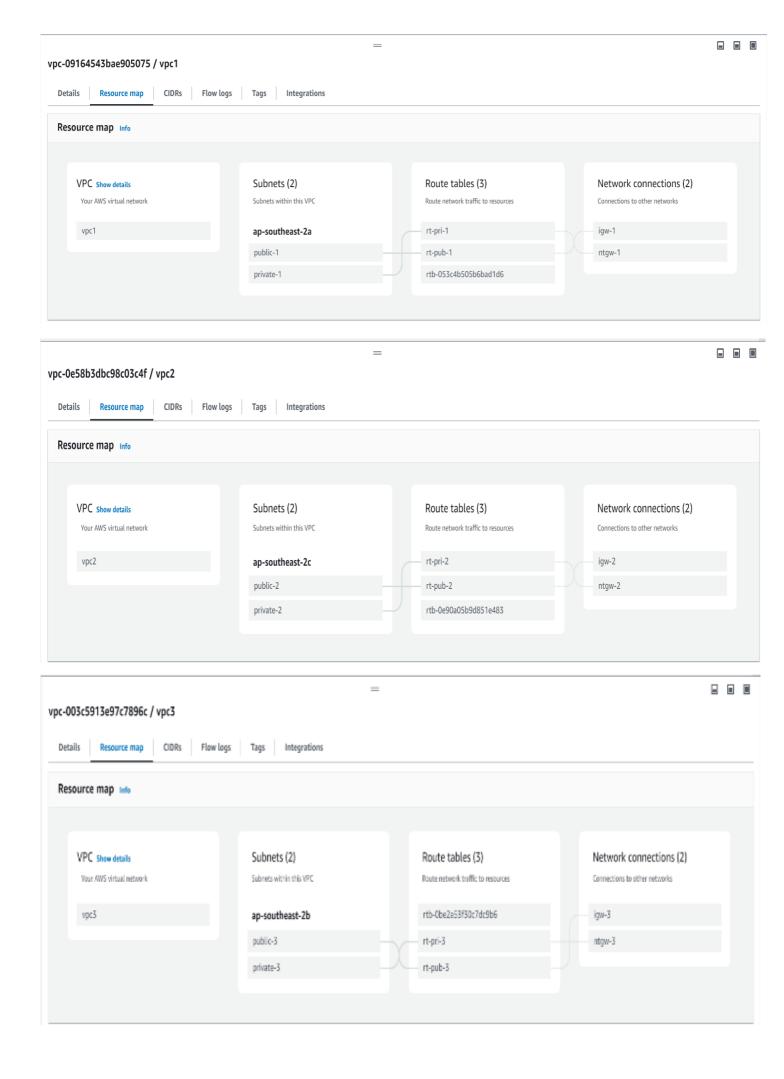
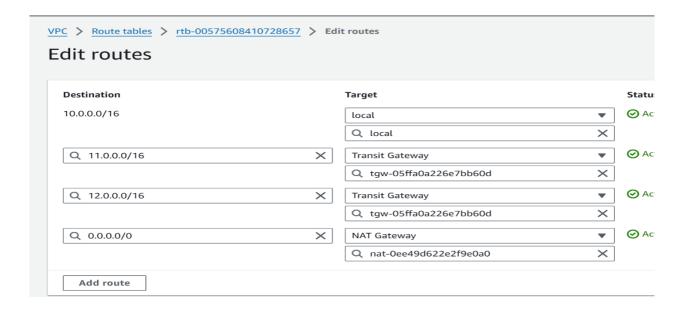
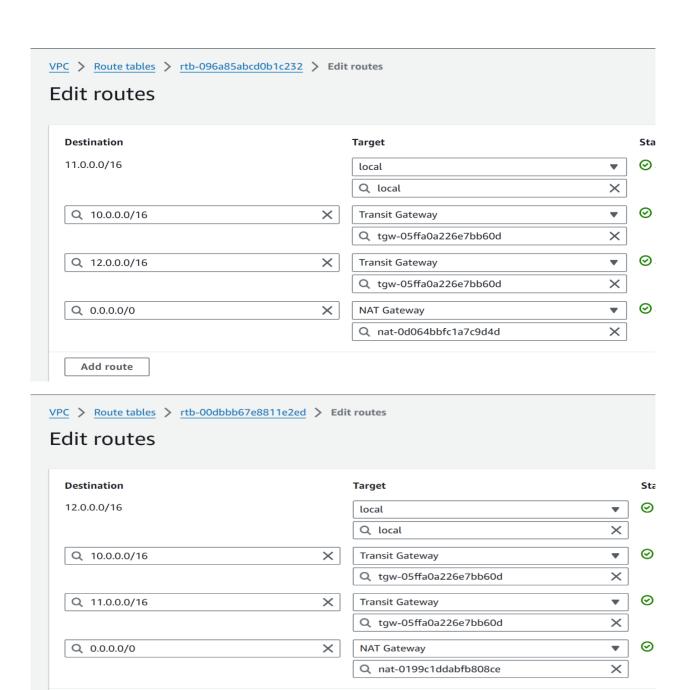
MULTI-VPC NETWORKING SETUP ON AWS WITH EC-2 INSTANCES

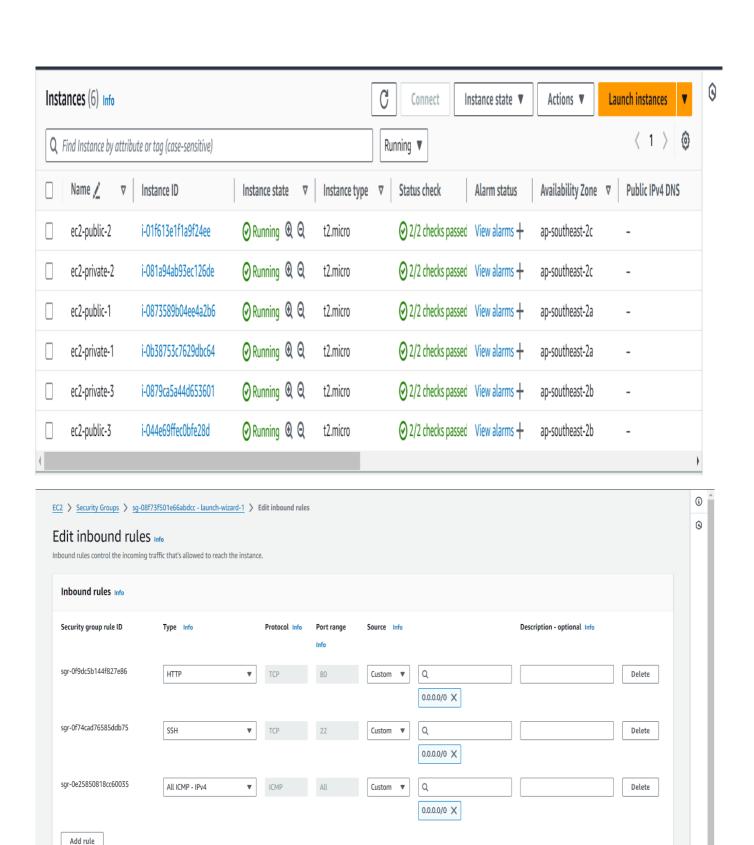








Add route



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X

Save rules

Cancel

Preview changes

A Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Χ

i-0873589b04ee4a2b6 (public-1)

PublicIPs: 13.210.241.35 PrivateIPs: 10.0.1.12

i-01f613e1f1a9f24ee (public-2)

PublicIPs: 52.63.213.62 PrivateIPs: 11.0.1.213

```
buntu@ip-12-0-2-191:~$ ping 10.0.2.58
ING 10.0.2.58 (10.0.2.58) 56(84) bytes of data.
 64 bytes from 10.0.2.58: icmp_seq=1 ttl=63 time=1.43 ms
64 bytes from 10.0.2.58: icmp_seq=2 ttl=63 time=1.19 ms
64 bytes from 10.0.2.58: icmp_seq=3 ttl=63 time=1.12 ms
 64 bytes from 10.0.2.58: icmp_seq=4 ttl=63 time=1.09 ms
64 bytes from 10.0.2.58: icmp_seq=5 ttl=63 time=1.15 ms
 64 bytes from 10.0.2.58: icmp_seq=6 ttl=63 time=1.06 ms
 64 bytes from 10.0.2.58: icmp_seq=7 ttl=63 time=1.09 ms
7 packets transmitted, 7 received, 0% packet loss, time 6009ms rtt min/avg/max/mdev = 1.063/1.160/1.426/0.115 ms
 ubuntu@ip-12-0-2-191:~$ curl 10.0.2.58
 <h1> This is vm1</h1>
 ubuntu@ip-12-0-2-191:~$
 ubuntu@ip-12-0-2-191:~$
ubuntu@ip-12-0-2-191:~$
ubuntu@ip-12-0-2-191:-$
ubuntu@ip-12-0-2-191:-$
ping 11.0.2.149
PING 11.0.2.149 (11.0.2.149) 56(84) bytes of data.

64 bytes from 11.0.2.149: icmp_seq=1 ttl=63 time=4.34 ms

64 bytes from 11.0.2.149: icmp_seq=2 ttl=63 time=1.30 ms

64 bytes from 11.0.2.149: icmp_seq=3 ttl=63 time=1.34 ms

64 bytes from 11.0.2.149: icmp_seq=4 ttl=63 time=1.33 ms

64 bytes from 11.0.2.149: icmp_seq=5 ttl=63 time=1.44 ms

64 bytes from 11.0.2.149: icmp_seq=6 ttl=63 time=1.44 ms

64 bytes from 11.0.2.149: icmp_seq=6 ttl=63 time=1.40 ms
 64 bytes from 11.0.2.149: icmp_seq=7 ttl=63 time=1.40 ms
  7 packets transmitted, 7 received, 0% packet loss, time 6010ms
ctt min/avg/max/mdev = 1.298/1.792/4.340/1.040 ms
  ubuntu@ip-12-0-2-191:~$ curl 11.0.2.149
 <h1> This is vm2</h1>
 ubuntu@ip-12-0-2-191:~$
    i-044e69ffec0bfe28d (public-3)
    PublicIPs: 3.25.244.41 PrivateIPs: 12.0.1.239
```

1.Designed and Implemented Multi-VPC Architecture:

- Successfully created three Virtual Private Clouds (VPCs) with public and private subnets.
- Configured route tables, internet gateways, and NAT gateways to ensure secure communication and internet access.
- Demonstrated expertise in network segmentation and isolation.

2.Deployed EC2 Instances Across Subnets:

- Provisioned EC2 instances in both public and private subnets.
- Hosted a dummy website on private instances.
- Validated connectivity by pinging and curling between instances.

3. Transit Gateway for Inter-VPC Communication:

- Set up a transit gateway to enable seamless communication between private subnets across VPCs.
- Achieved efficient and scalable inter-VPC connectivity.
- Demonstrated proficiency in AWS networking services.