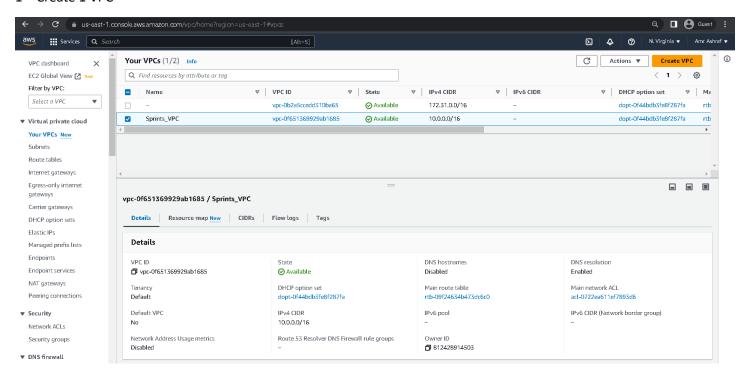
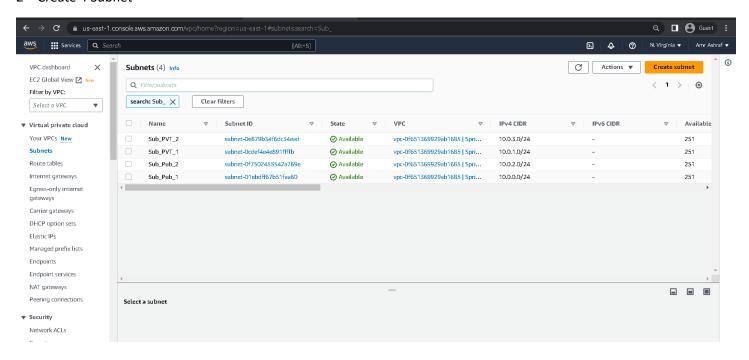
Lab 4

The Solution:

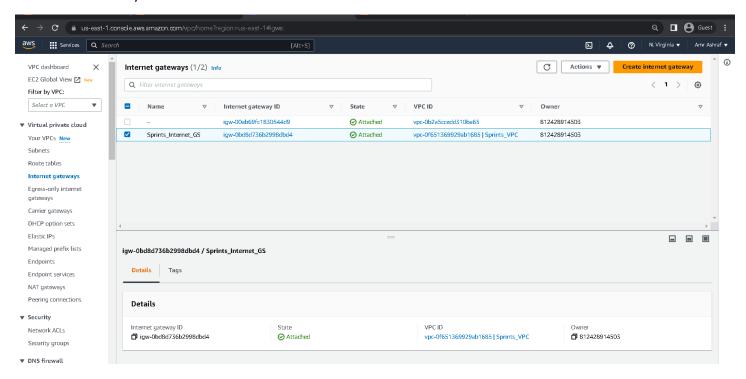
1 - Create 1 VPC



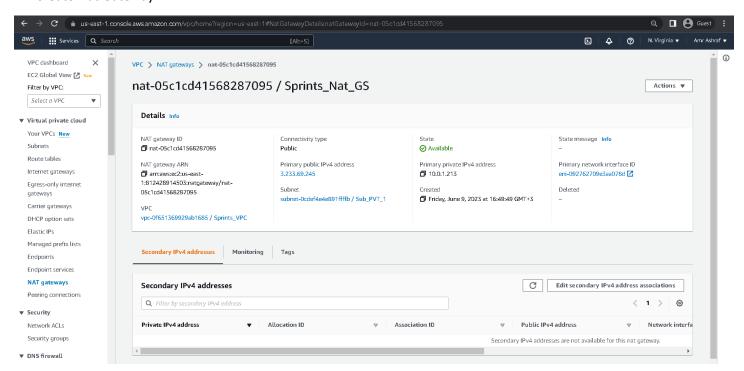
2 - Create 4 Subnet



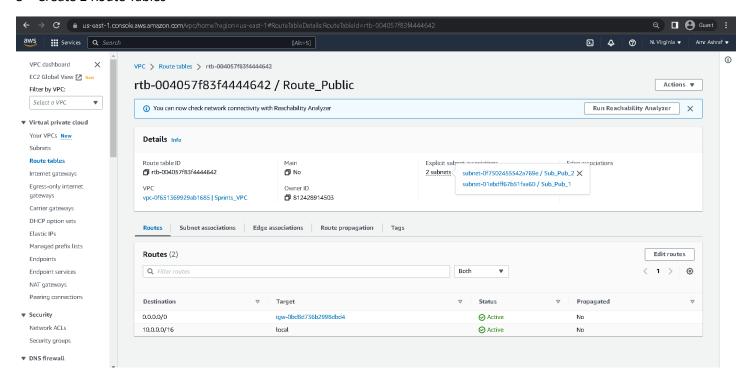
3 - Internet Gateway

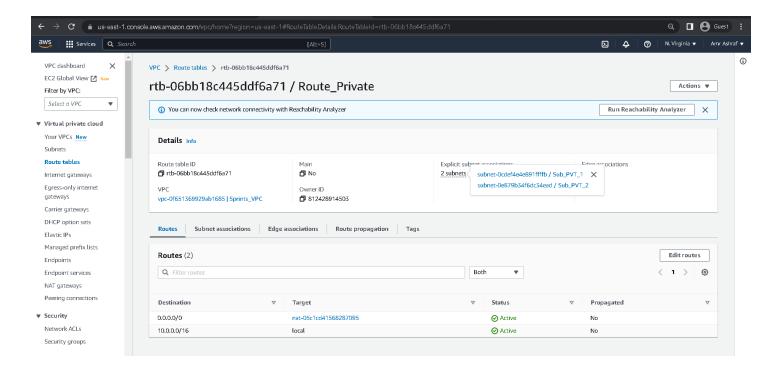


4 - Create Nat Gateway

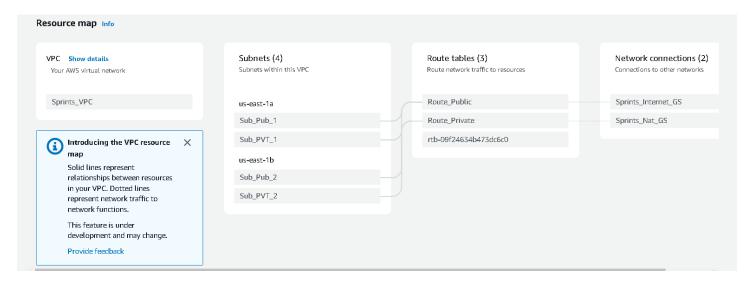


5 - Create 2 Route Tables

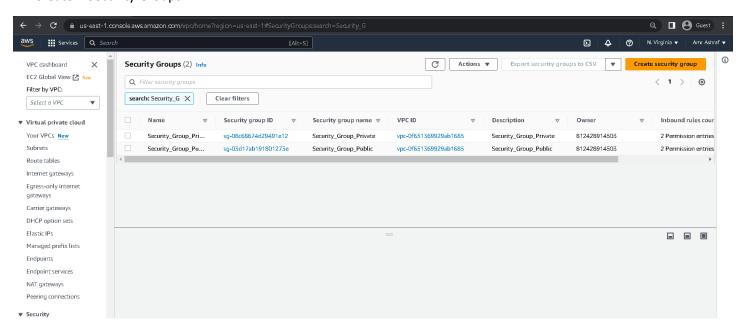




6 – VPC Should Like This

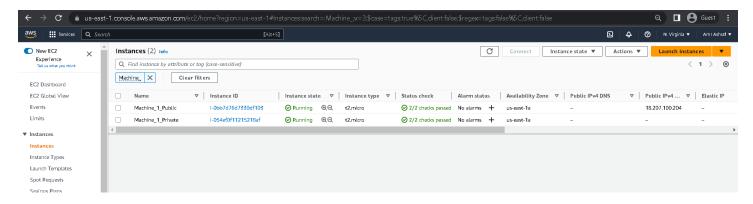


7 - Create 2 Security Groups

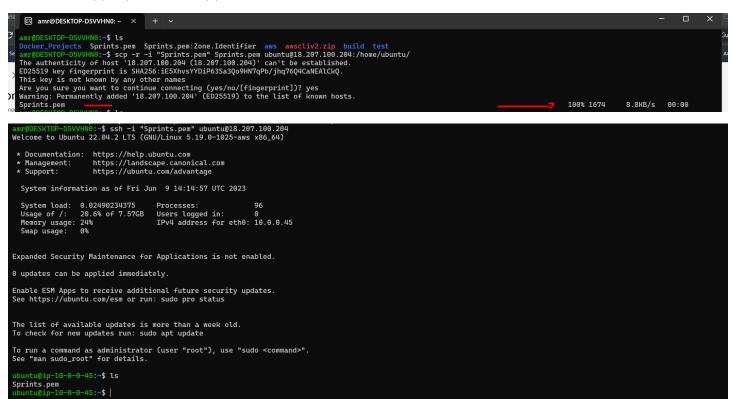


For First Question

1 - Create 2 Instance [1 Public >> Machine_1_Public] [1 Private >> Machine_1_Private]



2 – Copy Key File From my pc to Public Machine



3 – Connect ssh from Public to the Private machine

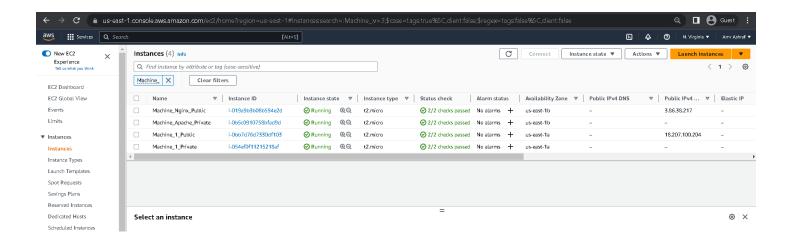
```
Sprints.pem ubuntu@ip-10-0-0-45:** ssh -i "Sprints.pem" ubuntu@i0.0.1.88
The authenticity of host '10.0.1.88 (10.0.1.88)' can't be established.
ED25519 key fingerprint is SHA256:0qzSkDxpHtw4LqL/Zfh6KGyREk5m7Ql7yLeDdjcF261.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.0.1.88' (ED25519) to the list of known hosts.
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.19.0-1025-aws x86_64)
 Sprints.pem
  * Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/advantage
    System information as of Fri Jun 9 14:16:51 UTC 2023
    System load: 0.080078125
                                                                   Processes:
    | Usage of /: 20.6% of 7.57GB | Users logged in: 0 | Memory usage: 23% | IPv4 address for eth0: 10.0.1.88
    Swap usage:
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
  ubuntu@ip-10-0-1-88:~$
```

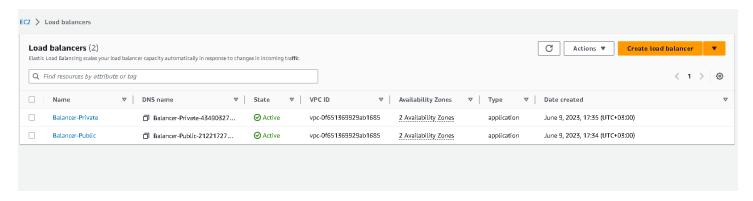
For The Next Question:

1 - Create 2 Instance [1 Public >> Machine_Nginx_Public] [1 Private >> Machine_Apache_Private]

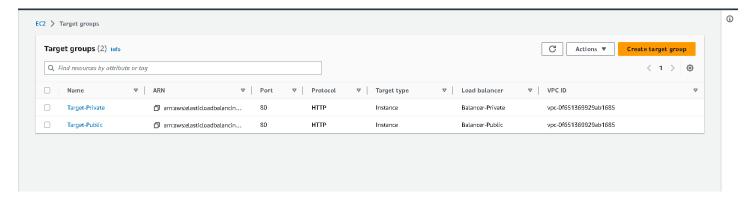


2 - Create 2 Load Balancer

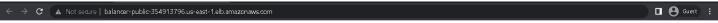
- 1 Balancer For Public Machines
- 2 Balancer For Private Machines



- 3 Create 2 Target Groups
 - 1 Target For Public Machines
 - 2 Target For Private Machines







Hello From Machine inginx Public

4 - Create Template



5 – Create Auto Scaling For Private Load Balancer [Private Machines]

