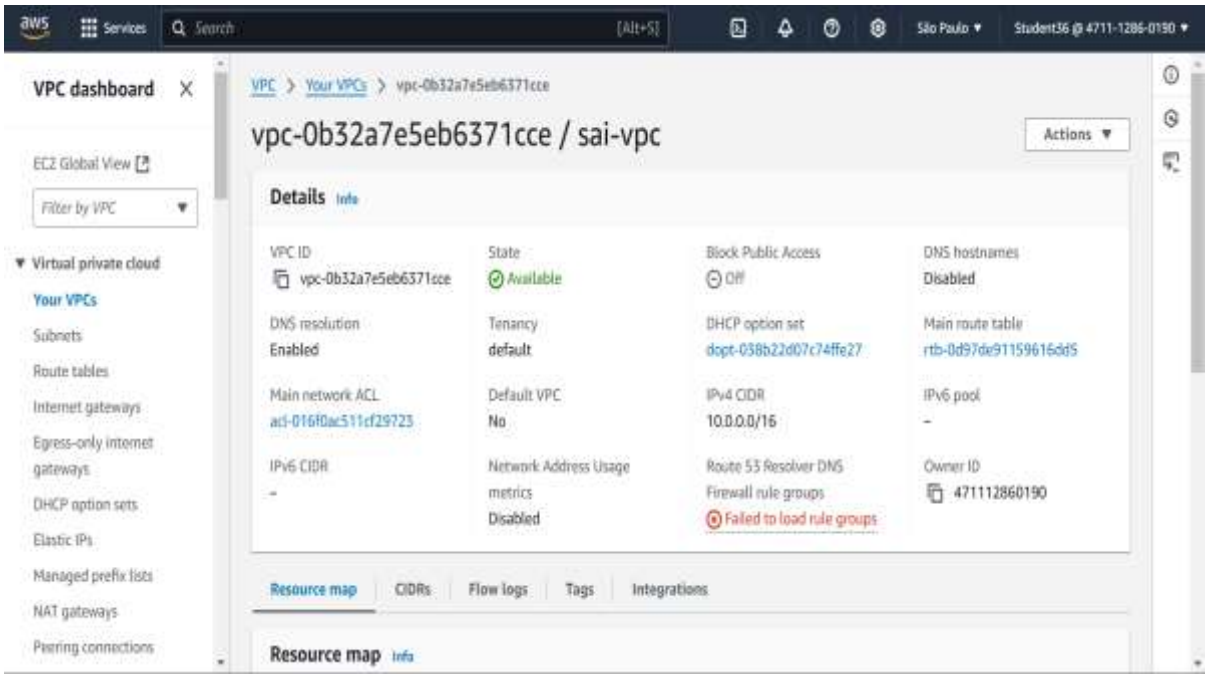
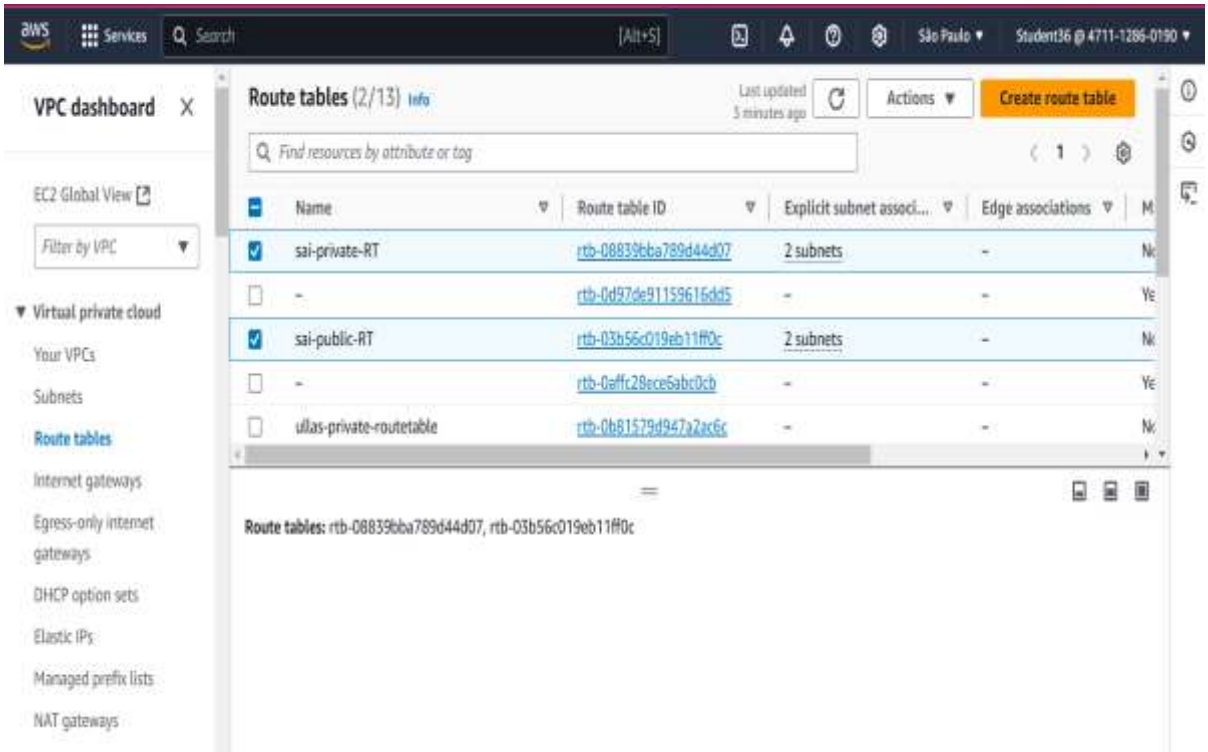
5.Launching the website using load balancer

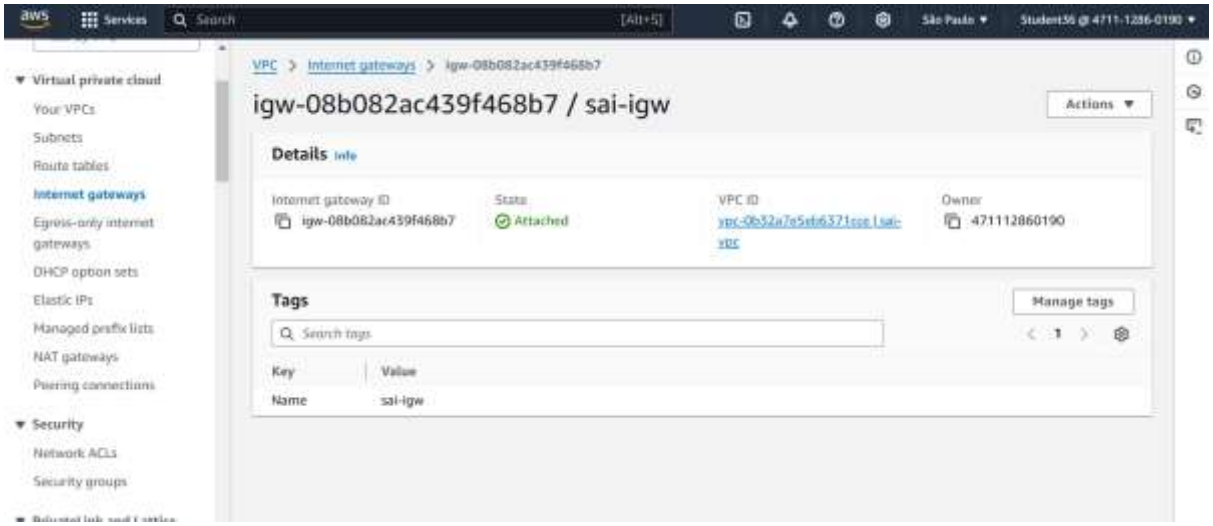
VPC



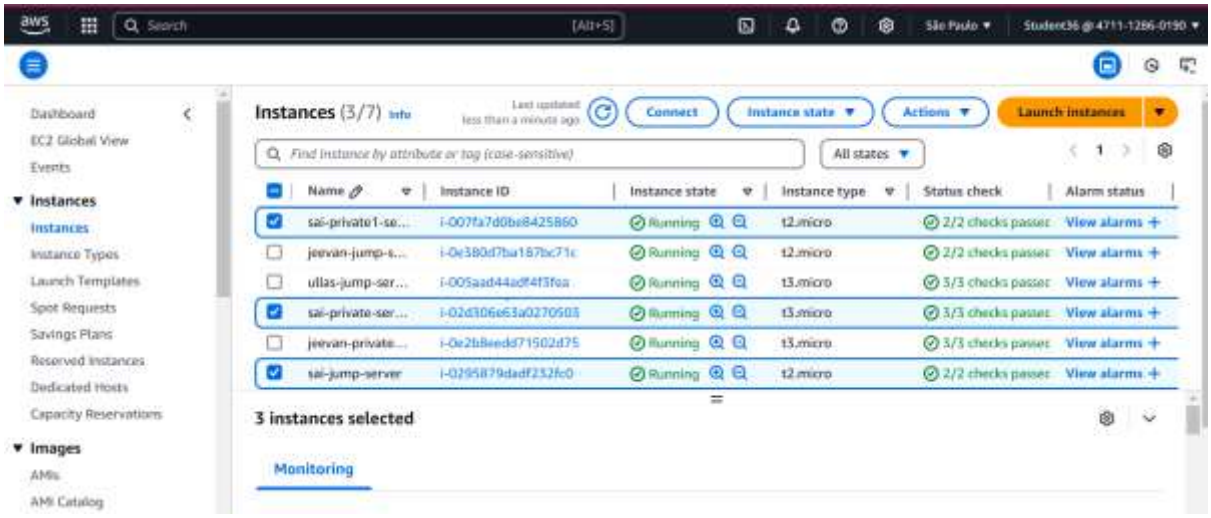
Subnet



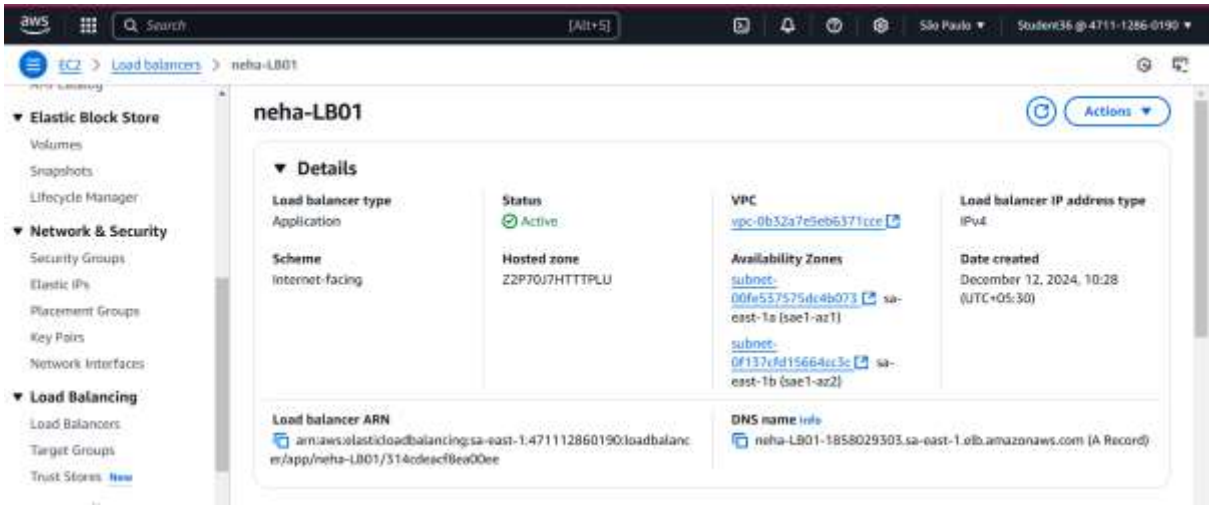
Internet Gateway



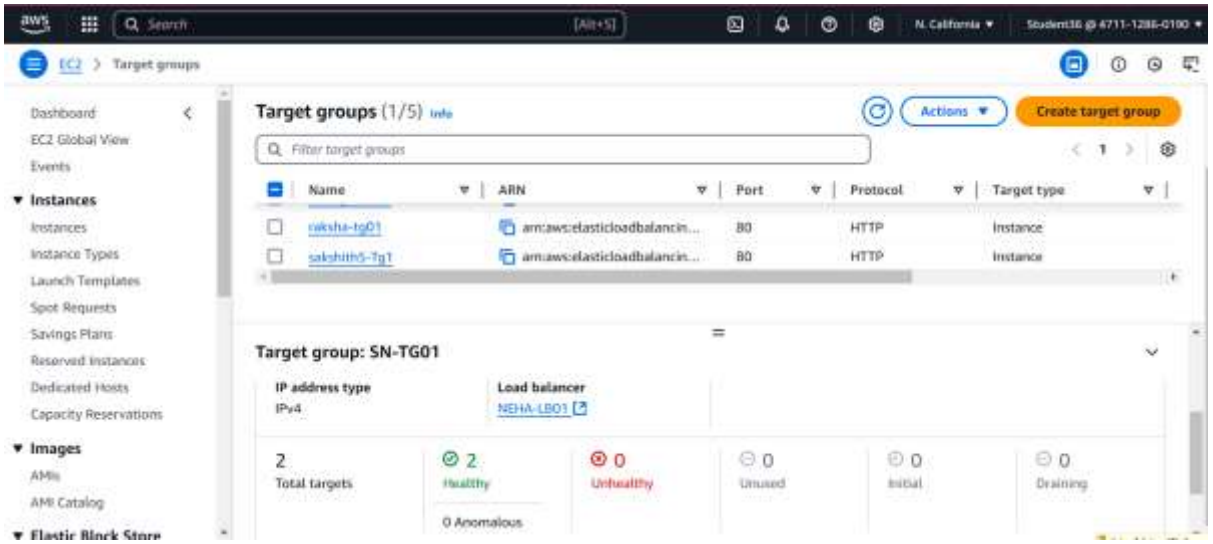
Instances



Load Balancer



Target Groups



Command prompt settings

```
Microsoft Windows [Version 10.0.19045.4651]
(c) Microsoft Corporation. All rights reserved.

C:\Users\neha.DESKTOP-HP7JT21>cd Downloads

C:\Users\neha.DESKTOP-HP7JT21\Downloads>ssh -i "sn-keypair.pem" ec2-user@54.219.176.40
The authenticity of host '54.219.176.40 (54.219.176.40)' can't be established.
ECDSA key fingerprint is SHA256:5Ix8XpJgVwefi0lU5kaE9cnNiG0YbiYvvU4IUQwd7qI.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '54.219.176.40' (ECDSA) to the list of known hosts.
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
[ec2-user@ip-10-0-1-69 ~]$ sudo su
[root@ip-10-0-1-69 ec2-user]# cd
[root@ip-10-0-1-69 ~]# vi sn-private-server1.pem
[root@ip-10-0-1-69 ~]# chmod 400 "sn-private-server1.pem"
[root@ip-10-0-1-69 ~]# ssh -i "sn-private-server1.pem" ec2-user@10.0.3.19
The authenticity of host '10.0.3.19 (10.0.3.19)' can't be established.
ED25519 key fingerprint is SHA256:fuZi3uUob47vmUokR1TYb8DHKl2N/NLRFY41RiHIhSM.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.0.3.19' (ED25519) to the list of known hosts.
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
[ec2-user@ip-10-0-3-19 ~]$ sudo su
```

```
  apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64           generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
  httpd-2.4.62-1.amzn2023.x86_64                         httpd-core-2.4.62-1.amzn2023.x86_64
  httpd-filesystem-2.4.62-1.amzn2023.noarch              httpd-tools-2.4.62-1.amzn2023.x86_64
  libbrotli-1.0.9-4.amzn2023.0.2.x86_64                  mailcap-2.1.49-3.amzn2023.0.3.noarch
  mod_http2-2.0.27-1.amzn2023.0.3.x86_64                 mod_lua-2.4.62-1.amzn2023.x86_64

Complete!
[root@ip-10-0-3-19 ~]# cd /var/www/html
[root@ip-10-0-3-19 html]# vi index.html
[root@ip-10-0-3-19 html]# [root@ip-10-0-3-19 html]# systemctl start httpd
[root@ip-10-0-3-19 html]# systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[root@ip-10-0-3-19 html]# systemctl status httpd
● httpd.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
     Active: active (running) since Thu 2024-12-12 18:17:51 UTC; 26s ago
       Docs: man:httpd.service(8)
   Main PID: 26180 (httpd)
     Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes served/sec:   0 B/sec"
      Tasks: 177 (limit: 1111)
     Memory: 13.8M
        CPU: 68ms
     CGroup: /system.slice/httpd.service
             ├─26180 /usr/sbin/httpd -DFOREGROUND
             ├─26181 /usr/sbin/httpd -DFOREGROUND
             ├─26182 /usr/sbin/httpd -DFOREGROUND
             ├─26183 /usr/sbin/httpd -DFOREGROUND
             └─26184 /usr/sbin/httpd -DFOREGROUND

Dec 12 18:17:51 ip-10-0-3-19.us-west-1.compute.internal systemd[1]: Starting httpd.service - The Apache HTTP Server...
Dec 12 18:17:51 ip-10-0-3-19.us-west-1.compute.internal systemd[1]: Started httpd.service - The Apache HTTP Server.
Dec 12 18:17:51 ip-10-0-3-19.us-west-1.compute.internal httpd[26180]: Server configured, listening on: port 80
[root@ip-10-0-3-19 html]# exit
exit
[ec2-user@ip-10-0-3-19 ~]$ exit
logout
Connection to 10.0.3.19 closed.
[root@ip-10-0-1-69 ~]# ssh -i "sn-private-server1.pem" ec2-user@10.0.4.59
The authenticity of host '10.0.4.59 (10.0.4.59)' can't be established.
ED25519 key fingerprint is SHA256:BiKA7jWeu7IIRb4vy6dxCSkn/S7A4cr0OeIGXi0OCJs.
This key is not known by any other names
```

```
Installed:
  apr-1.7.2-2.amzn2023.0.2.x86_64                    apr-util-1.6.3-1.amzn2023.0.1.x86_64
  apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64       generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
  httpd-2.4.62-1.amzn2023.x86_64                     httpd-core-2.4.62-1.amzn2023.x86_64
  httpd-filesystem-2.4.62-1.amzn2023.noarch          httpd-tools-2.4.62-1.amzn2023.x86_64
  libbrotli-1.0.9-4.amzn2023.0.2.x86_64              mailcap-2.1.49-3.amzn2023.0.3.noarch
  mod_http2-2.0.27-1.amzn2023.0.3.x86_64             mod_lua-2.4.62-1.amzn2023.x86_64

Complete!
[root@ip-10-0-4-59 ~]# cd /var/www/html
[root@ip-10-0-4-59 html]# vi index.html
[root@ip-10-0-4-59 html]# [root@ip-10-0-4-59 html]# systemctl start httpd
[root@ip-10-0-4-59 html]# systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[root@ip-10-0-4-59 html]# systemctl status httpd
● httpd.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
     Active: active (running) since Thu 2024-12-12 18:21:16 UTC; 34s ago
       Docs: man:httpd.service(8)
   Main PID: 26125 (httpd)
     Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes served/sec:   0 B/sec"
      Tasks: 177 (limit: 1111)
     Memory: 13.0M
        CPU: 71ms
     CGroup: /system.slice/httpd.service
             ├─26125 /usr/sbin/httpd -DFOREGROUND
             ├─26126 /usr/sbin/httpd -DFOREGROUND
             ├─26127 /usr/sbin/httpd -DFOREGROUND
             ├─26128 /usr/sbin/httpd -DFOREGROUND
             └─26129 /usr/sbin/httpd -DFOREGROUND

Dec 12 18:21:16 ip-10-0-4-59.us-west-1.compute.internal systemd[1]: Starting httpd.service - The Apache HTTP Server...
Dec 12 18:21:16 ip-10-0-4-59.us-west-1.compute.internal systemd[1]: Started httpd.service - The Apache HTTP Server.
Dec 12 18:21:16 ip-10-0-4-59.us-west-1.compute.internal httpd[26125]: Server configured, listening on: port 80
[root@ip-10-0-4-59 html]# client_loop: send disconnect: Connection reset

C:\Users\neha.DESKTOP-HP7JT21\Downloads>
```

Final Result

This is server 2This is server 2