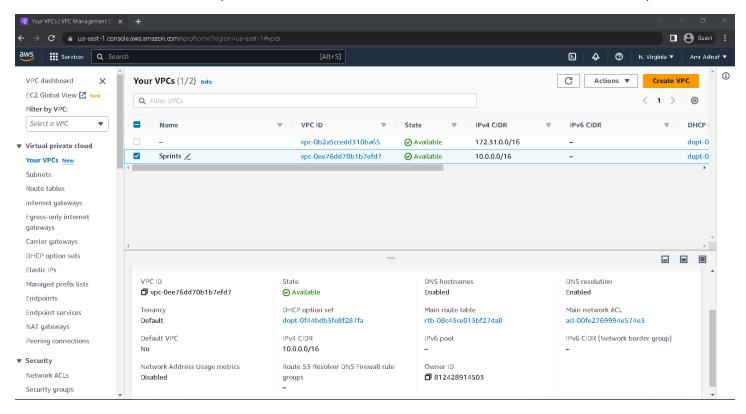
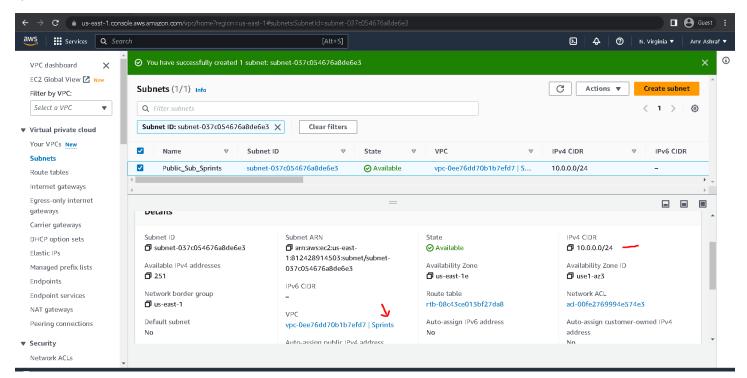
Aws Task Lab 3

The Solutions:

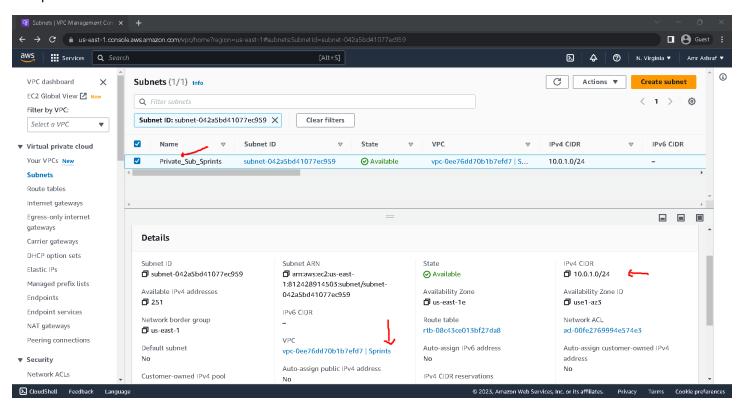
1 - Click on Create VPC and enter Sprints as the name and 10.0.0.0/16 as the CIDR block then click create vpc.



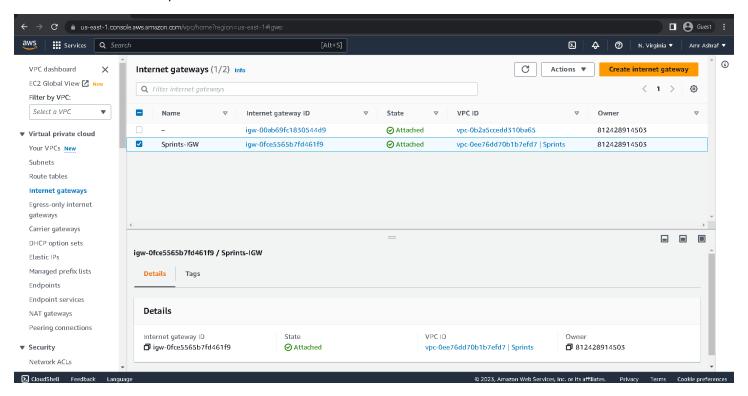
2 - Click on "Create Subnet" and enter "Public_Sub_Sprints" as the name, "10.0.0.0/24" as the CIDR block, and select the sprints VPC.



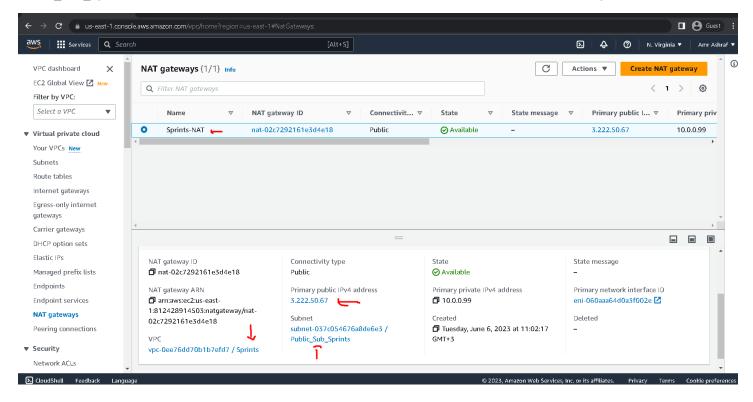
3 - Click on "Create Subnet" and enter "Private_Sub_Sprints" as the name, "10.0.1.0/24" as the CIDR block, and select the sprints VPC.



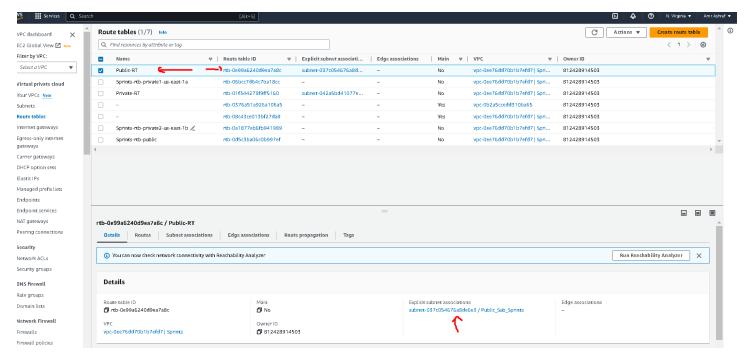
4 - Create Internet Gateway Then Put "Sprints-IGW" as the name and click on "Create" Then Click On Action And select "Attach to VPC". Choose Sprints click on "Attach".



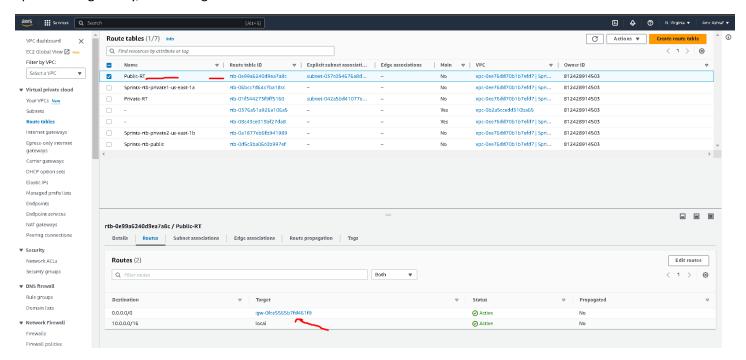
5 - Create NAT Gateway And Put "Sprints-NAT" as the name Then Choose Sprints-IGW as the gateway, select Public_Sub_Sprints as the subnet, and choose Allocate Elastic IP address Then Create Nat Gateway



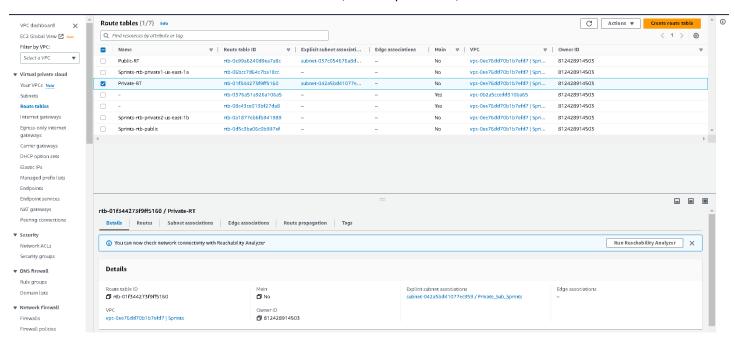
6 - Create Route Table And Put "Public-RT" as the name, select Sprints VPC, and click on Create.



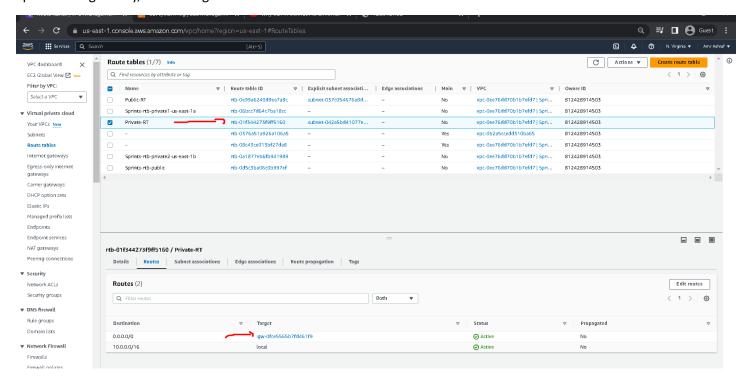
7 - Select Public-RT from the list of route tables, click on Edit routes, add a new route with destination 0.0.0.0./0, target Sprints-NAT gateway, save changes.



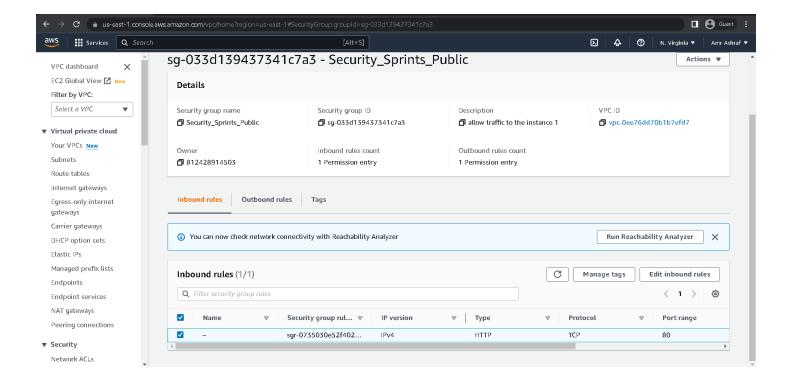
8 - Create Route Table And Put "Private-RT" as the name, select Sprints VPC, and click on Create



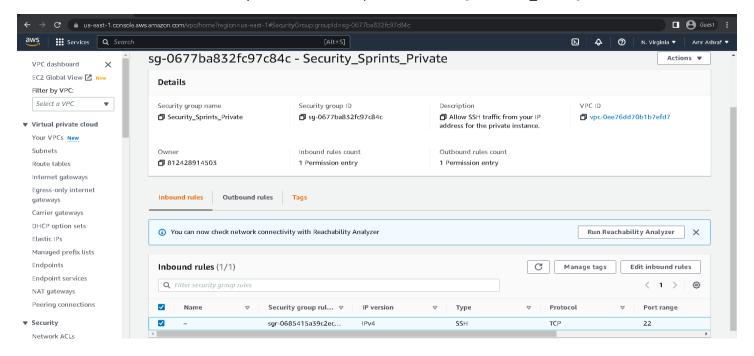
9 - Select Private-RT from the list of route tables, click on Edit routes, add a new route with destination 0.0.0.0./0, target Sprints-NAT gateway, save changes.



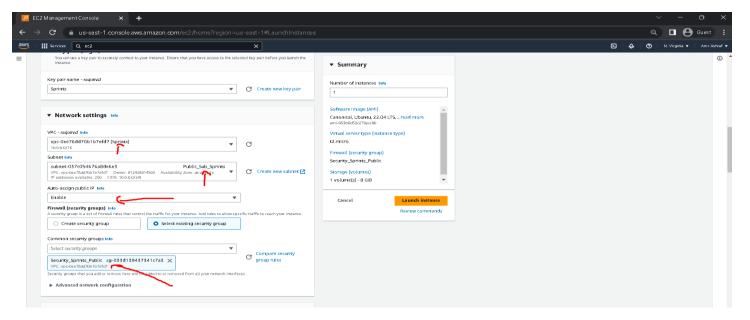
- 10 Create 1 Security Group and Put "Security_Sprints_Public" as name and add inbound rules to allow traffic to the instances.
 - A Allow HTTP traffic from anywhere (0.0.0.0/0) for the public instance [Instance1_Public]



- 11 Create 1 Security Group and Put "Security_Sprints_Private" as name and add inbound rules to allow traffic to the instances.
 - A Allow SSH traffic from my IP address for the private instance. [Instance1_Public]

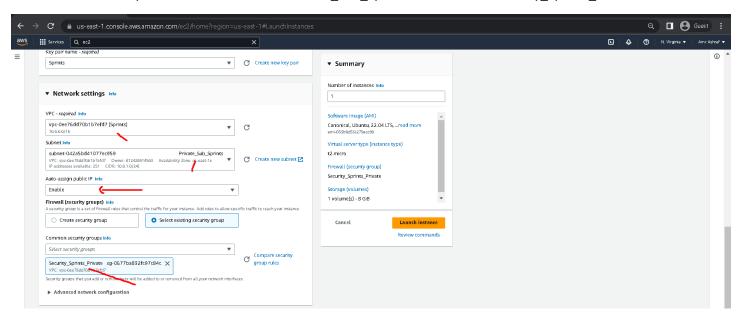


- 12 Launch Instance And Put "Instance1 Public" as name of instance and choose an Ubuntu as image.
 - A Choose Sprints VPC B Choose Public_Sub_Sprint C Choose Security_Sprints_Public



13 - Launch Instance And Put "Instance1_Private" as name of instance and choose an Ubuntu as image.

A – Choose Sprints VPC B – Choose Private_Sub_Sprint C - Choose Security_Sprints_Private



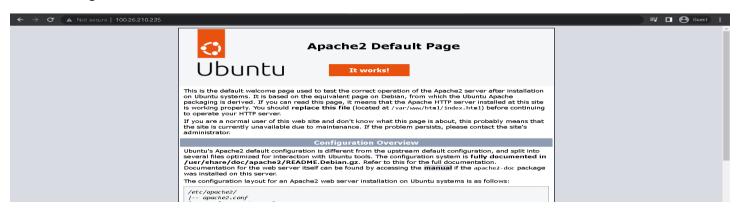
14 - Connect For First Instance [Instance1_Public]

Commands: 1 - sudo apt-get update -y

- 2 sudo apt-get install apache2 -y
- 3 sudo systemctl start apache2
- 4 sudo systemctl status apache2

```
ubuntu@ip-10-0-0-155: ~
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-10-0-0-155:~$ sudo systemctl start apache2
ubuntu@ip-10-0-0-155:~$ sudo systemctl status apache2
apache2.service - The Apache HTTP Server
     Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
     Active: active (running) since Tue 2023-06-06 10:56:24 UTC; 24s ago
       Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 2784 (apache2)
      Tasks: 55 (limit: 1141)
     Memory: 4.8M
        CPU: 30ms
     CGroup: /system.slice/apache2.service
              —2784 /usr/sbin/apache2 -k start
              —2786 /usr/sbin/apache2 -k start
              L_2787 /usr/sbin/apache2 -k start
Jun 06 10:56:24 ip-10-0-0-155 systemd[1]: Starting The Apache HTTP Server...
Jun 06 10:56:24 ip-10-0-0-155 systemd[1]: Started The Apache HTTP Server.
ubuntu@ip-10-0-0-155:~$
```

Check The Page Results



14 - Connect For Second Instance [Instance1_Private]

Commands: 1 - sudo apt-get update -y

2 - sudo apt-get install apache2 -y

3 – sudo systemctl start apache2

4 – sudo systemctl status apache2

