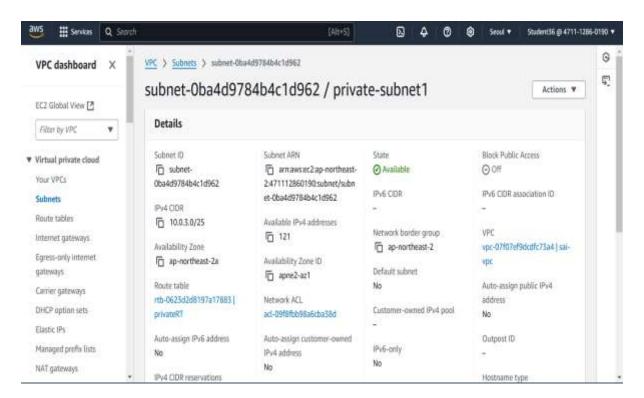
# 3. How to connect private server to internet using NAT gateway(Jump server/bastion host)

#### **Create Subnets**

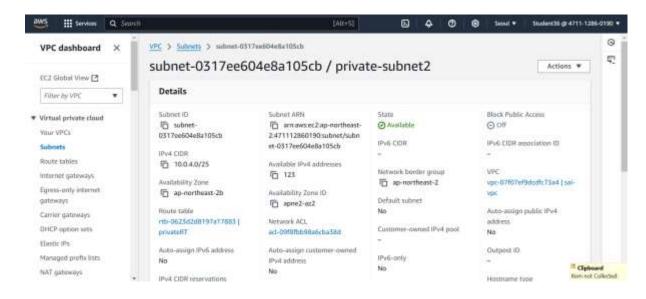
# Steps

- 1. In the VPC dashboard, select Subnets.
- 2. Click the create subnet button to create 2 public and 2 private subnets.
- 3. Select the VPC created.
- **4.** Provide with the subnet name, availability zone and IPv4 subnet CIDR block for both private and public subnets.

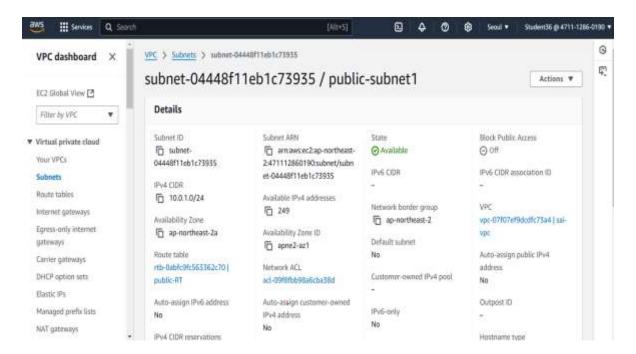
#### Private subnet1



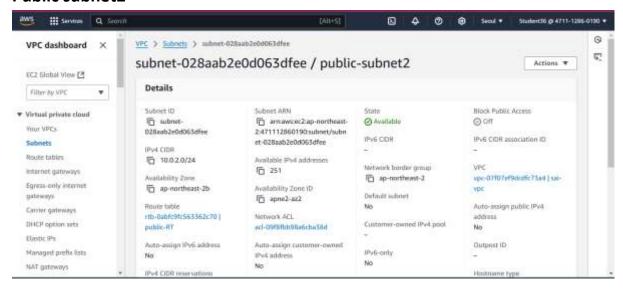
## **Private subnet2**



#### Public subnet1



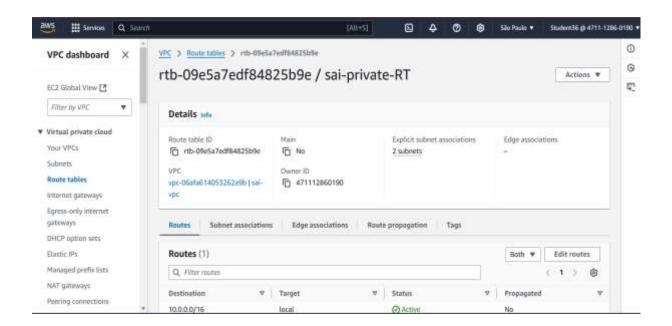
## **Public subnet2**



#### **Create Route Table**

## **Steps**

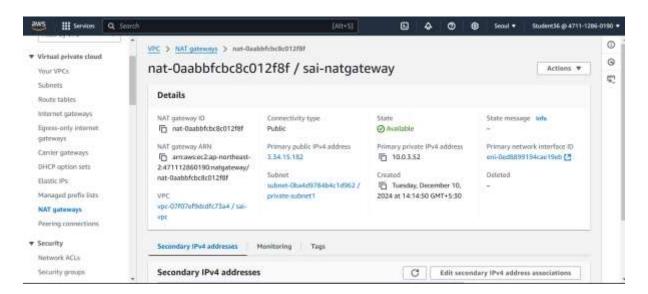
- 1. In the VPC dashboard, select Route Table.
- 2. Click the create route table button.
- **3.** Provide the name as neha-private-RT and the created VPC.
- 4. Under the Subnet Association, click Edit subnet association.
- **5.** Check the private subnets and save association.



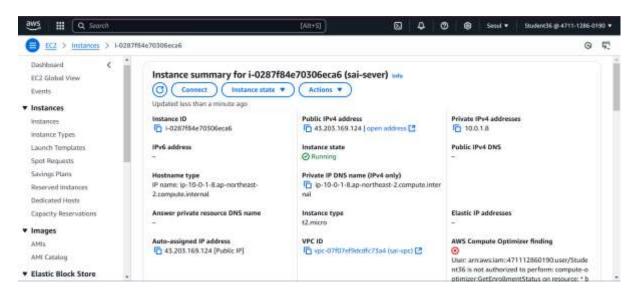
## **Create NAT gateway**

## **Steps**

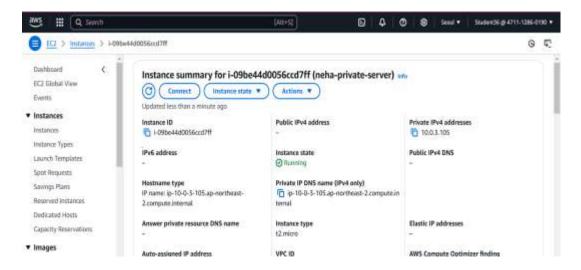
- 1. In the VPC dashboard, select NAT Gateways.
- 2. Click the create NAT Gateway.
- **3**. Provide the name as sai-natgateway and select the created public subnet and the allocate Elastic IP allocation ID.
- **4.** In the route table check the private-RT and provide the target as NAT gateway.



## **Create public server**



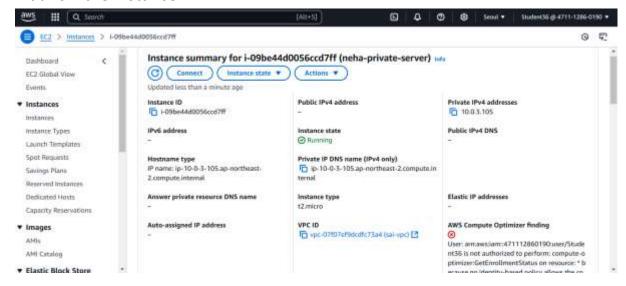
#### **Create Public server**



#### **Create Private server**

# **Steps**

- 1. In EC2 dashboard, select instance and click Launch instances.
- 2. Provide the name as sai-private-server and create a private keypair.
- **3.** Select the appropriate VPC and provide the security group as sai-private-server-SG.
- 4. Launch the instance.



#### Final result

Open the command prompt and provide the following commands

## 1. cd downloads

```
icrosoft Windows [Version 18.0.19645,4651]
c) Microsoft Corporation. All rights reserved.
                                                       rs\neha.DESKTOP-HP73T21)cd Dewnloads
        | Wisers\neta_DESKTOP-HP71721\Downloads\sph -i "neta-private-kaypsir.pem" ec2-user998.8.3.365
| https://downloads.com/desktop-hp-id-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-market-bayes-mar
                                                 ers/meha.DESKTCP-H973T31/Downloads/sish -1 "ssi-weypair.pem" ec2-user945.203.105.124
connect to host 43.203.163.124 port 22: Connection timed out
                                                                                                      na.DESKTOP-HP73721\Downloads>ssh -1 "sai-haypair.pam" ec2-user#43.283.369.124
                                                                   Amazon Linux 2023
sensor

(Amazon Linux 2023
sensor

(Amazon Linux Amazon Com/linux/Amazon-linux-2023
(Amazon Linux Amazon Linux Amazon Linux Li
ast login: Twe Dec 10 04:41:53 2024 From 223:306.226.153
ez2-user0ip-10-8-18 = ]5 sudo su
rootsilp-10-0-18 ez2-user]0 to
rootsilp-10-0-18 ez 10-0-18 experiment accessible: No such file or directory.
DISSID key fingerprint is 304350:e0gctichelkopyNewdis0e11FPp32yd5511ct09MBc.
his key is not known by any other names
re you sure you want to continue connecting (yes/no/(fingerprint))? yes
working: Permenently added 10.0.1.030 (c000300) to the list of known hosts.
cl-user00.0.3.185. Permission denied (publickey,gssapi-keyex,gssapi-with-not).
rootsilp-10-0-18 -]0 vi news-private-kopyair.pem
rootsilp-10-0-18 -]0 sinh-1 "new-private-kopyair.pem" ec2-user00.0.3.105
                                                                                 MARICANO: UNPROTECTED PREVATE KEY FELE!
```

```
bytes from ond38831-in-f4.1e180.net (142.250.191.196); icmp_seq=35 ttl=117 time=8.66 ms bytes from ond38831-in-f4.1e180.net (142.250.191.196); icmp_seq=35 ttl=117 time=8.66 ms bytes from ond38831-in-f4.1e180.net (142.250.191.196); icmp_seq=35 ttl=117 time=8.64 ms bytes from ond38831-in-f4.1e180.net (142.250.191.196); icmp_seq=37 ttl=117 time=8.66 ms bytes from ond38831-in-f4.1e180.net (142.250.191.196); icmp_seq=38 ttl=117 time=8.66 ms bytes from ond38831-in-f4.1e180.net (142.250.191.196); icmp_seq=38 ttl=117 time=8.45 ms
```