

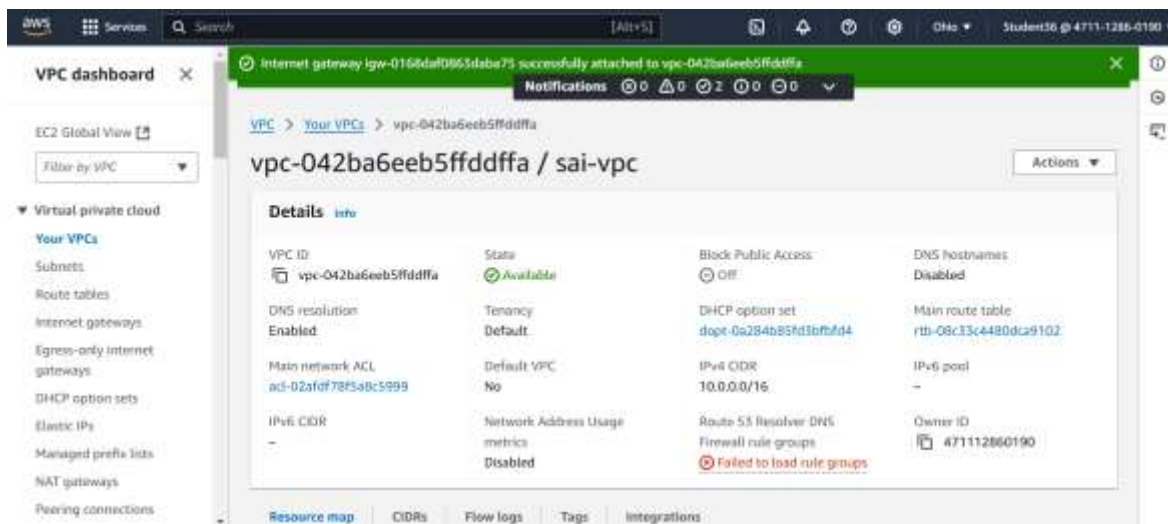
PROJECT 1

1. Deploying website on AWS EC2 instance.

Create Virtual private cloud (VPC)

Steps

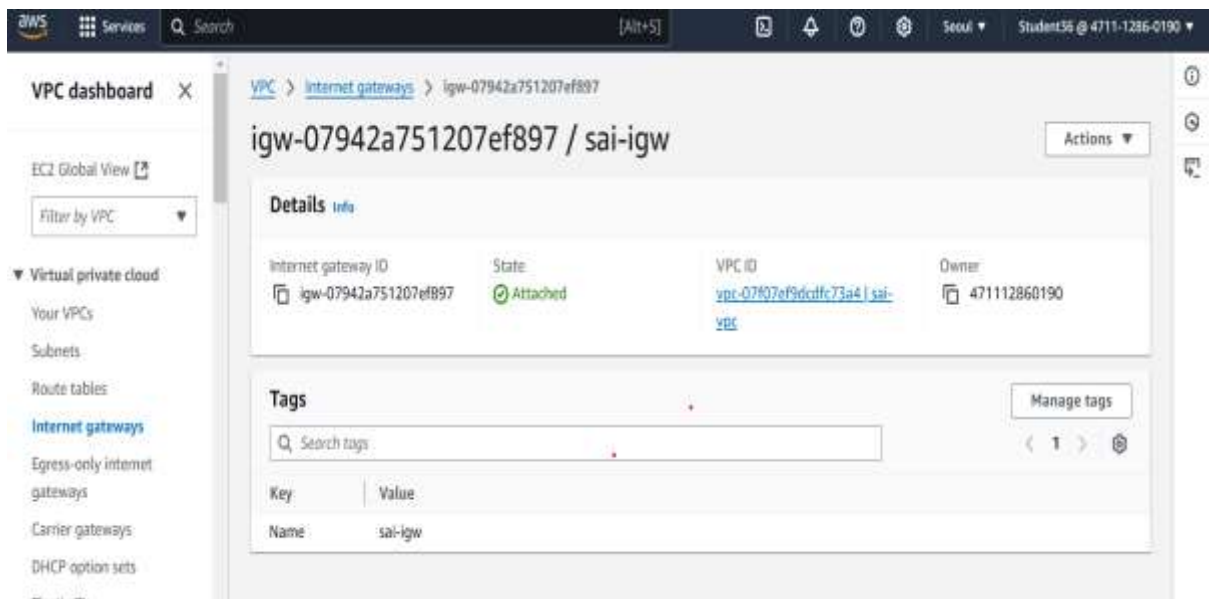
1. In AWS console, search VPC.
2. In VPC dashboard, select your **Your VPCs**.
3. Click create VPC button
4. Provide VPC name as neha-vpc and IPv4 CIDR as 10.0.0.0/16
5. Then click create VPC button.



Create Internet Gateway(IGW)

Steps

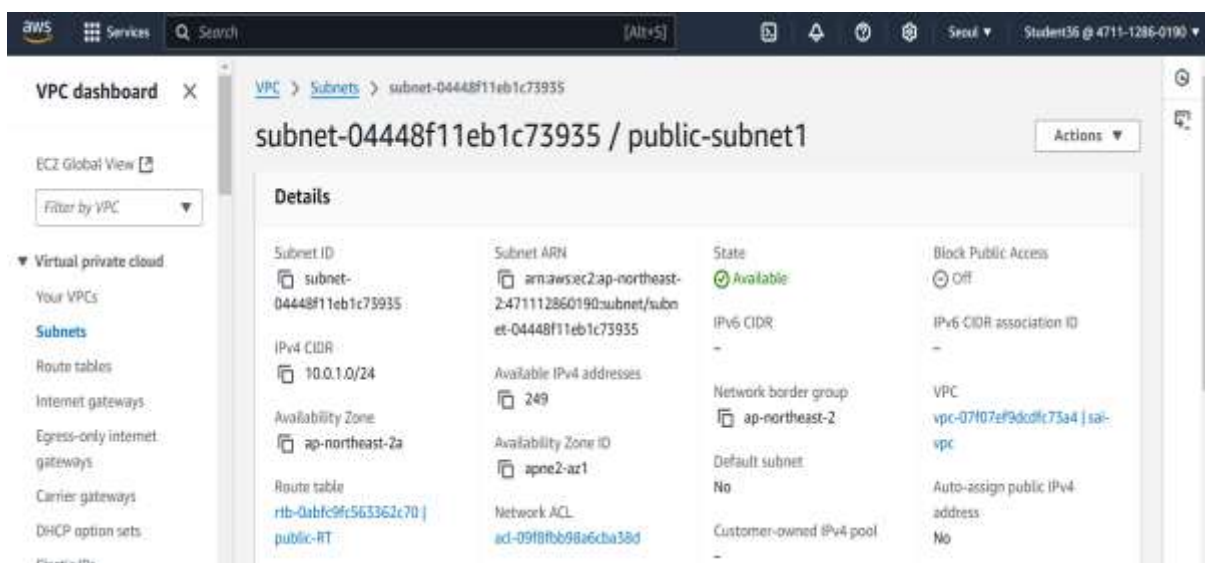
1. In VPC dashboard, select **Internet gateways**.
2. Click create internet gateways button.
3. Provide internet gateway name as neha-igw.
4. Click create internet gateway button.
5. Attach it to VPC.

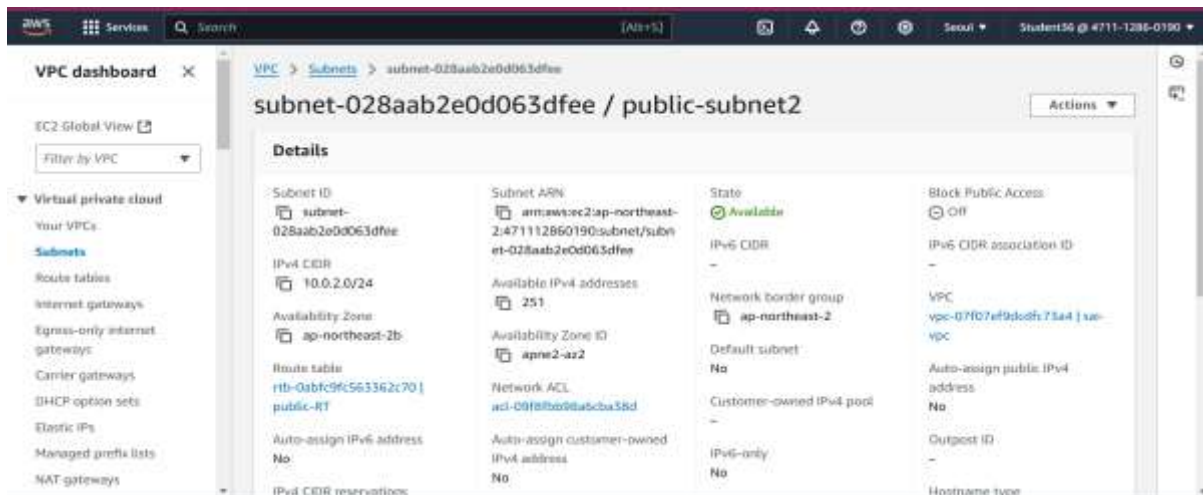


Create Public subnet

Steps:

1. In VPC dashboard, select **Subnets**.
2. Click create subnet button.
3. Select the appropriate VPC ID.
4. Provide Subnet name as public-subnet1 and select the appropriate availability zone and provide the IPv4 subnet CIDR block as 10.0.1.0/24.
5. Create another subnet by clicking add new subnet by providing public-subnet2 and select the appropriate availability zone and provide the IPv4 subnet CIDR block as 10.0.2.0/24.
6. Click create subnet button

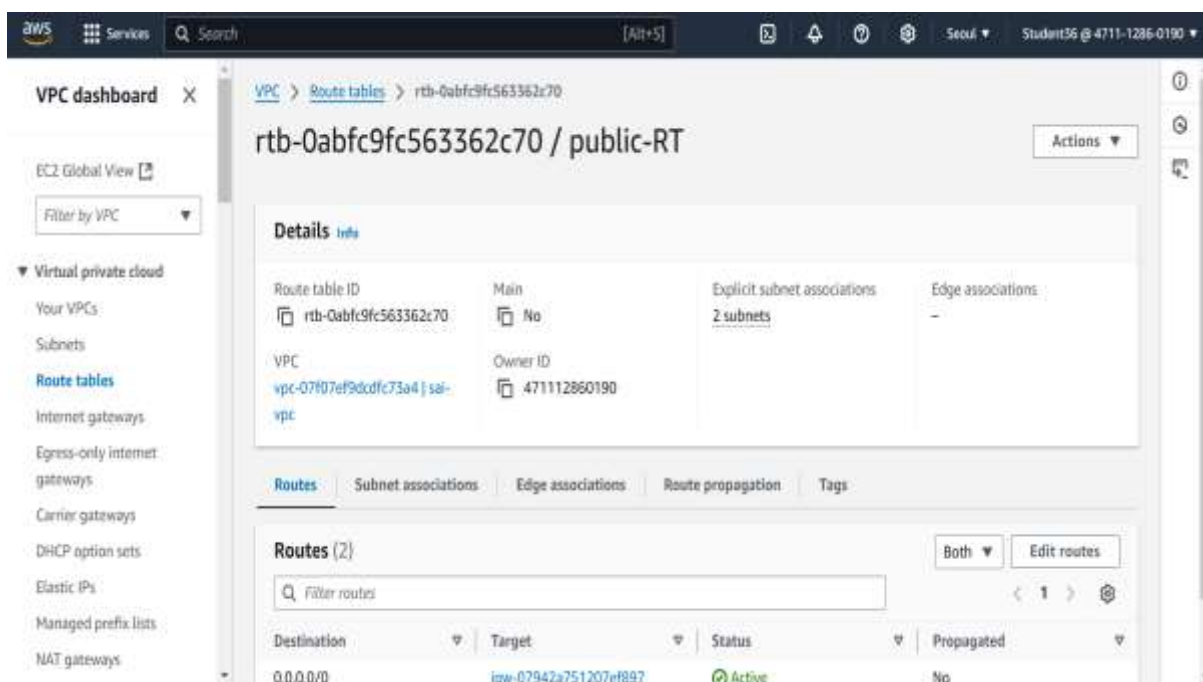




Create Route tables

Steps

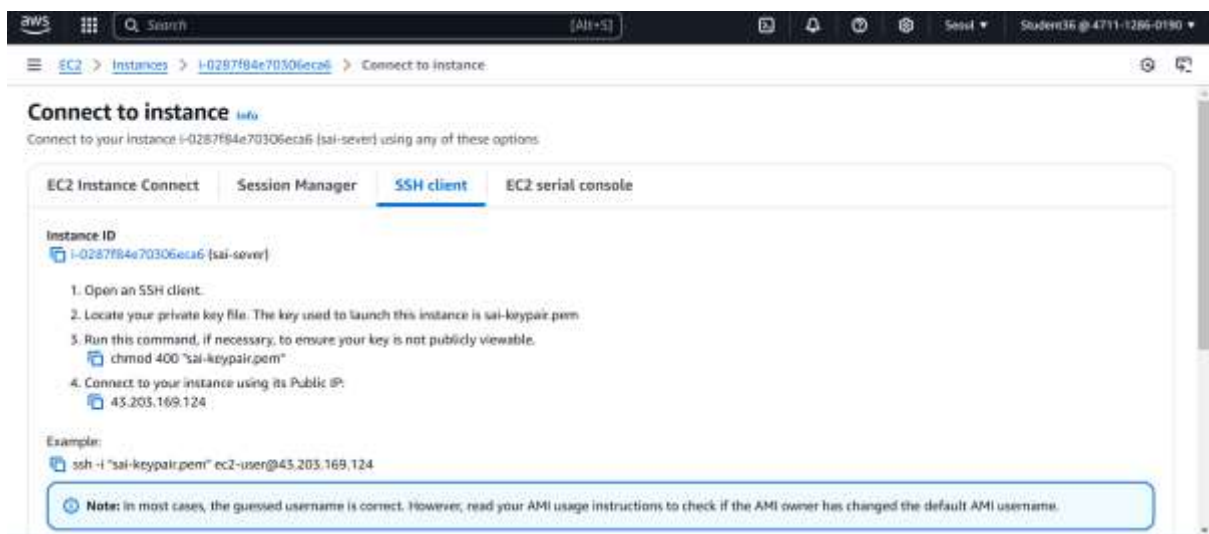
1. In VPC dashboard, select **Route tables**.
2. Click create route table button.
3. In Route table settings, provide name as public-RT and select the VPC created and then click .
4. Under Routes ,click edit route.
5. Select Internet gateway and select the gateway and save the changes.
6. Under Subnet Association, select edit subnet Association and check the subnets creates and save changed.



Connection to instance

Steps

1. Search for EC2 and under the dashboard select instances.
2. Click the Launch instance button.
3. Provide the name as neha-server, instance type as t2.micro ,create keypair as mca-keypair
4. edit the network setting by selecting VPC and enable as Auto-assign public IP.
5. Provide the security group name as neha-server-SG and add group rule.
6. Launch the instance.



Open the command prompt and provide the following commands

1. `cd downloads`
2. `ssh -i "vaishu-keypair.pem" ec2-user@18.230.148.85`
3. `sudo su`
4. `cd`
5. `yum install httpd -y`
6. `cd /var/www/html`
7. `vi index.html`
Provide the appropriate code
8. `cat index.html`
9. `systemctl start httpd`
10. `systemctl enable httpd`
11. `systemctl status httpd`

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19045.4651]
(c) Microsoft Corporation. All rights reserved.

C:\Users\neha.DESKTOP-HP7J721>cd Downloads

C:\Users\neha.DESKTOP-HP7J721\Downloads>ssh -i "xai-keypair.pem" ec2-user@43.203.109.124

Amazon Linux 2023
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023

[ec2-user@ip-10-0-1-8 ~]$ sudo su
[root@ip-10-0-1-8 ~]# cd
[root@ip-10-0-1-8 ~]# yum install httpd -y
Last metadata expiration check: 0:07:58 ago on Tue Dec 19 04:38:40 2024.
Dependencies resolved.

===== Package Architecture
Version Repository Size
Installing:
httpd x86_64 2.4.62-1.amzn2023 amazonlinux 48 k
Installing dependencies:
apr x86_64 1.7.2-2.amzn2023.0.2 amazonlinux 129 k
apr-util x86_64 1.6.3-1.amzn2023.0.1 amazonlinux 98 k
generic-logos-httpd noarch 18.0.0-12.amzn2023.0.3 amazonlinux 19 k
httpd-core x86_64 2.4.62-1.amzn2023 amazonlinux 1.4 M
httpdfilesystem noarch 2.4.62-1.amzn2023 amazonlinux 14 k
httpd-tools x86_64 2.4.62-1.amzn2023 amazonlinux 81 k
libbrotli x86_64 1.0.9-4.amzn2023.0.2 amazonlinux 315 k
mailcap noarch 2.1.49-5.amzn2023.0.3 amazonlinux 35 k
Installing weak dependencies:
apr-util-openssl x86_64 1.6.3-1.amzn2023.0.1 amazonlinux 17 k
mod_httpd x86_64 2.0.27-1.amzn2023.0.3 amazonlinux 166 k
mod_lua x86_64 2.4.62-1.amzn2023 amazonlinux 61 k

apr x86_64 1.7.2-2.amzn2023.0.2 amazonlinux 129 k
apr-util x86_64 1.6.3-1.amzn2023.0.1 amazonlinux 98 k
generic-logos-httpd noarch 18.0.0-12.amzn2023.0.3 amazonlinux 19 k
httpd-core x86_64 2.4.62-1.amzn2023 amazonlinux 1.4 M
httpdfilesystem noarch 2.4.62-1.amzn2023 amazonlinux 14 k
httpd-tools x86_64 2.4.62-1.amzn2023 amazonlinux 81 k
libbrotli x86_64 1.0.9-4.amzn2023.0.2 amazonlinux 315 k
mailcap noarch 2.1.49-5.amzn2023.0.3 amazonlinux 35 k
Installing weak dependencies:
apr-util-openssl x86_64 1.6.3-1.amzn2023.0.1 amazonlinux 17 k
mod_httpd x86_64 2.0.27-1.amzn2023.0.3 amazonlinux 166 k
mod_lua x86_64 2.4.62-1.amzn2023 amazonlinux 61 k

Transaction Summary
-----Install 12 Packages

Total download size: 2.3 M
Installed size: 6.9 M
Downloading Packages:
(1/12): apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64.rpm 132 kB/s | 17 kB 00:00
(2/12): apr-1.7.2-2.amzn2023.0.2.x86_64.rpm 1.7 MB/s | 129 kB 00:00
(3/12): apr-util-1.6.3-1.amzn2023.0.1.x86_64.rpm 1.2 MB/s | 98 kB 00:00
(4/12): generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch.rpm 1.0 MB/s | 19 kB 00:00
(5/12): httpd-2.4.62-1.amzn2023.x86_64.rpm 2.1 MB/s | 48 kB 00:00
(6/12): httpd-filesystem-2.4.62-1.amzn2023.noarch.rpm 801 kB/s | 14 kB 00:00
(7/12): httpd-tools-2.4.62-1.amzn2023.x86_64.rpm 2.4 MB/s | 81 kB 00:00
(8/12): libbrotli-1.0.9-4.amzn2023.0.2.x86_64.rpm 8.7 MB/s | 315 kB 00:00
(9/12): httpd-core-2.4.62-1.amzn2023.x86_64.rpm 18 MB/s | 1.4 MB 00:00
(10/12): mailcap-2.1.49-5.amzn2023.0.3.noarch.rpm 1.1 MB/s | 35 kB 00:00
(11/12): mod_httpd-2.0.27-1.amzn2023.0.3.x86_64.rpm 6.9 MB/s | 166 kB 00:00
(12/12): mod_lua-2.4.62-1.amzn2023.x86_64.rpm 9.1 MB/s | 61 kB 00:00
-----Total
9.7 MB/s | 2.3 MB 00:00

Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing | 1/1
Installing : apr-1.7.2-2.amzn2023.0.2.x86_64 1/12
Installing : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64 2/12
```

