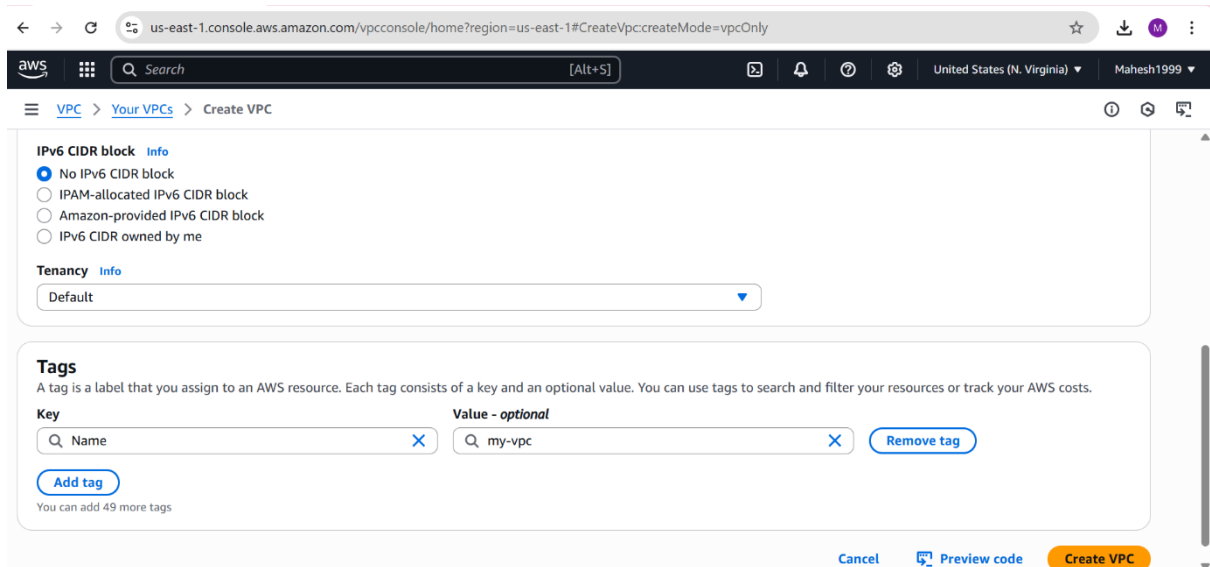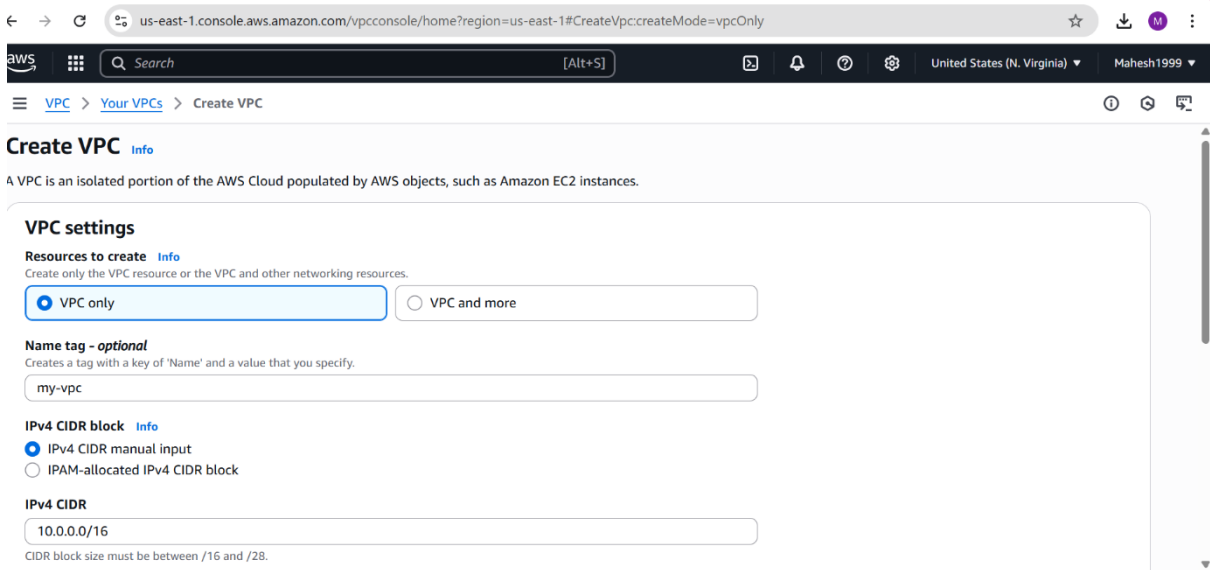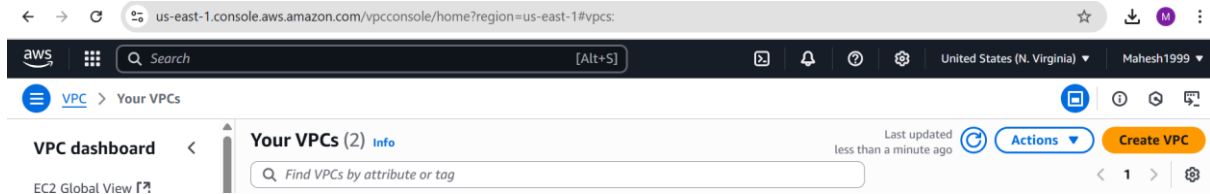# *Web Application in a VPC Creation*

Login to the AWS Management console

Services select **VPC** → **Create VPC**

1. Select VPC Only option to create VPC
2. Provide a VPC name
3. Select IPv4 CIDR manual input (Currently we are targeting for IPv4 only)

4. Select Default tenancy

Click "**Create MY-VPC**"

Creating Subnets

In **VPC service → Click on subnets → Create subnet**

1. Select the correct VPC.
2. Provide a subnet Name i.e., Public
3. Assign the IPv4 CIDR block for this subnet 10.0.1.0/24.
4. Provide Tags for easy tracking and identification.

Click "**Create subnet**"

The public subnet has been created successfully.

1. Select the appropriate VPC.
2. Provide a subnet name Private1.

3. Select the Availability Zone and select a different AZ than another subnet for redundancy

4. Provide IPv4 CIDR block i.e., 10.0.2.0/24.

Click "**Create subnet**"

Private1 subnet created successfully.

1. Select appropriate VPC

2. Provide a subnet name Private2.
3. Select the Availability Zone and select a different AZ than another subnet for redundancy.
4. Provide IPv4 CIDR block i.e., 10.0.3.0/24.

Click "**Create subnet**"

Create Internet Gateway:-

1.Provide a Internet Gateway a Name "**igw1**"

2.Provide Tags for later identification

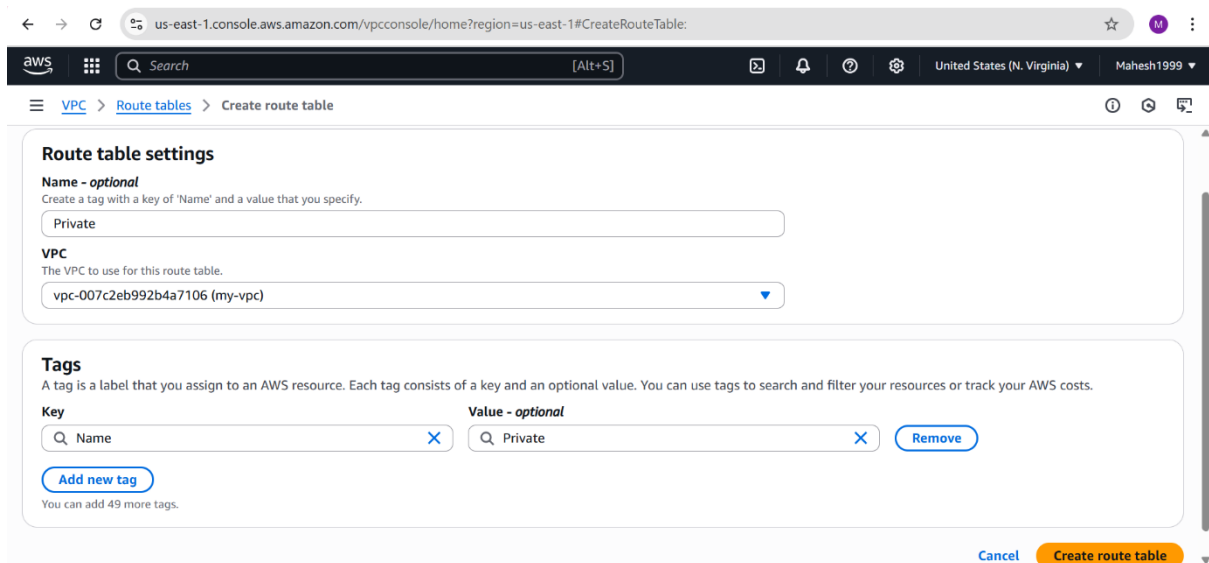Click on **"Create Internet Gateway"**
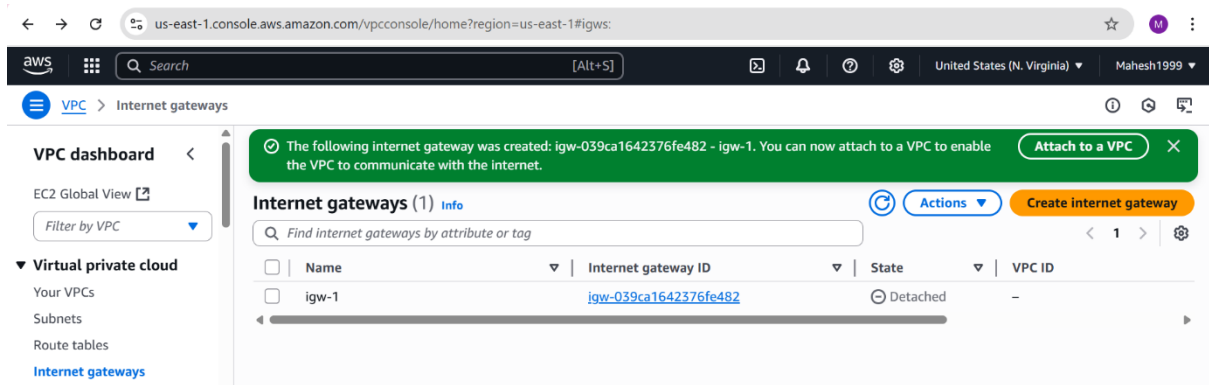
Select the "igw-1" which is newly created, **Actions → Attach to VPC**
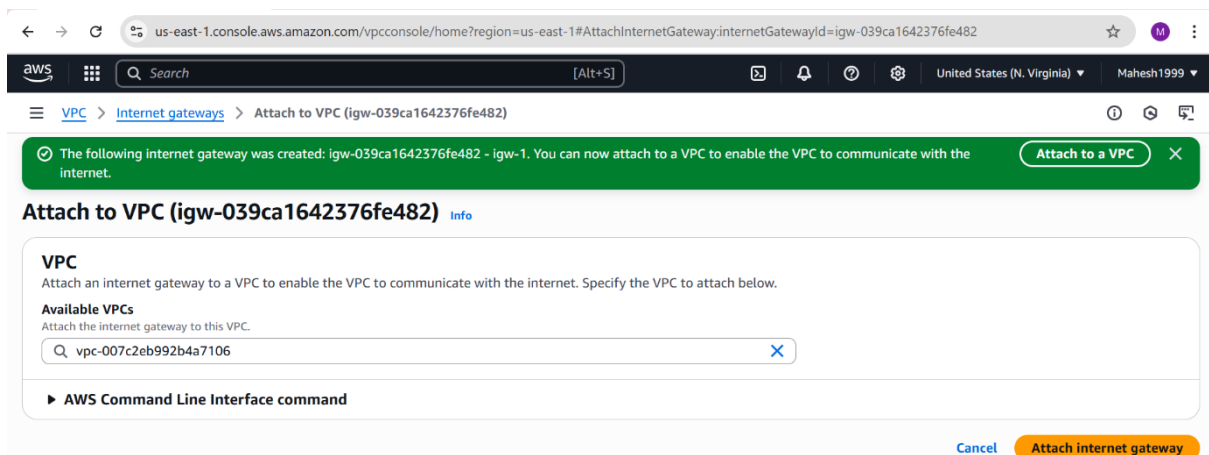
Select "MY-VPC" which is a newly created then click on "**Attach internet gateway**"

In **VPC service → route tables → Create route table**

Click "**Create route table**"

Edit Public route table and add internet route

Now Public subnet have internet access

Create NAT Gateway

VPC Service → NAT gateways → Create NAT gateways →

1.Provide a NAT gateway name nat.

2.Select the subnets.

3.Connectivity type Public

4.Assign Elastic IP

Click "**Create NAT Gateway**"

NAT Gateway is created successfully.

VPC Service → Route tables → Select Private route table → Edit route table
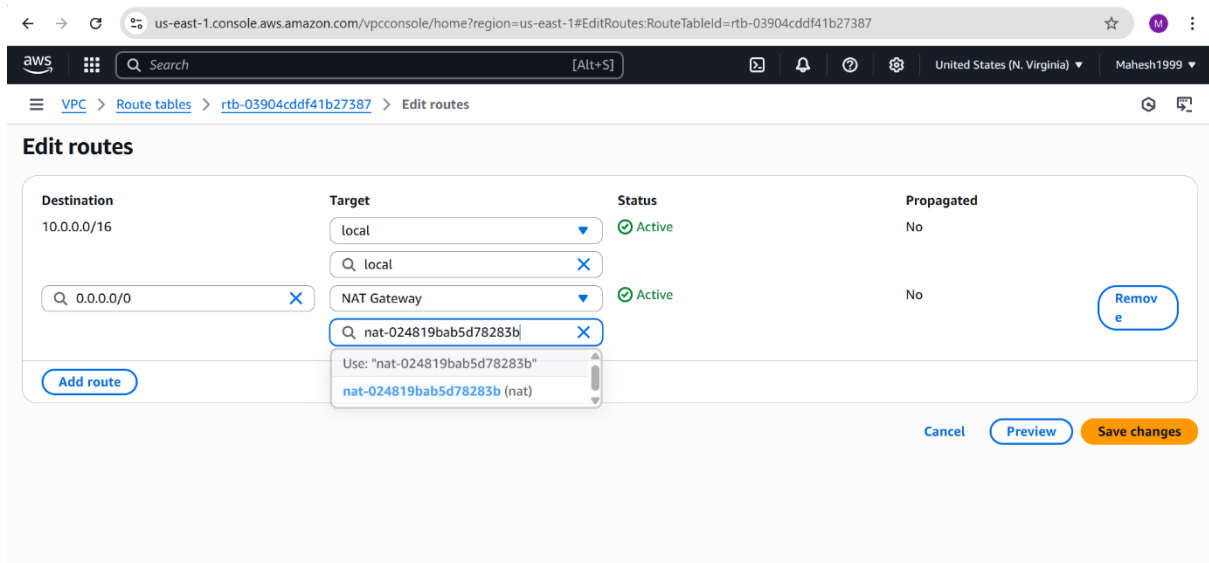
Add another

route

Destination:

0.0.0.0/0 Target:

NAT-GATEWAY

Click "**Save Changes**"

EC2 Instance Creation:-

EC2 Connect:-

Give this commends

Update commend: Sudo apt update

Installation commend: Sudo apt install -y apache2

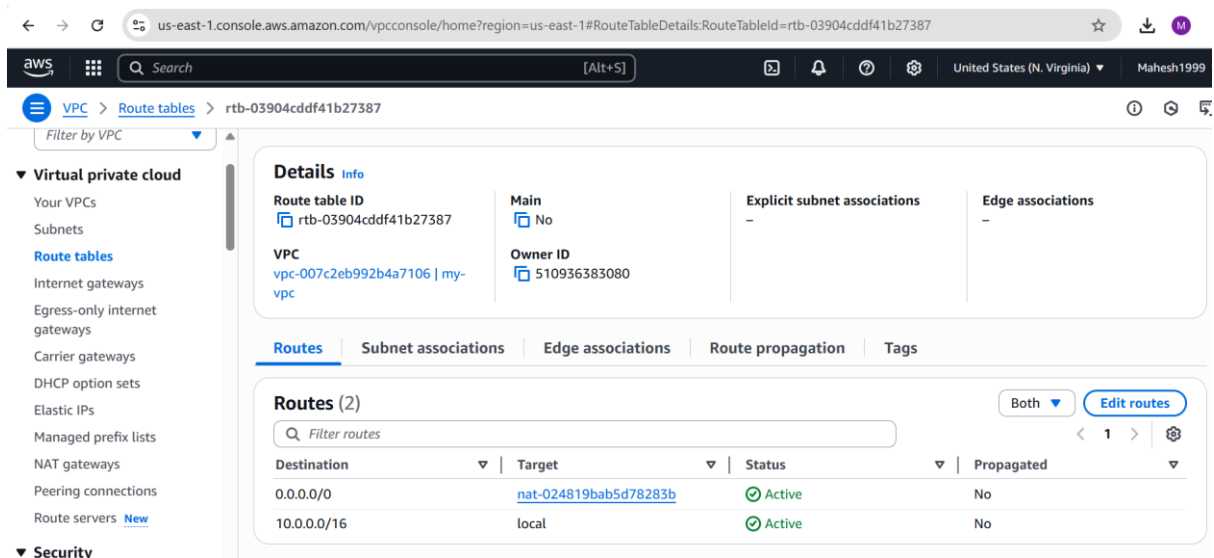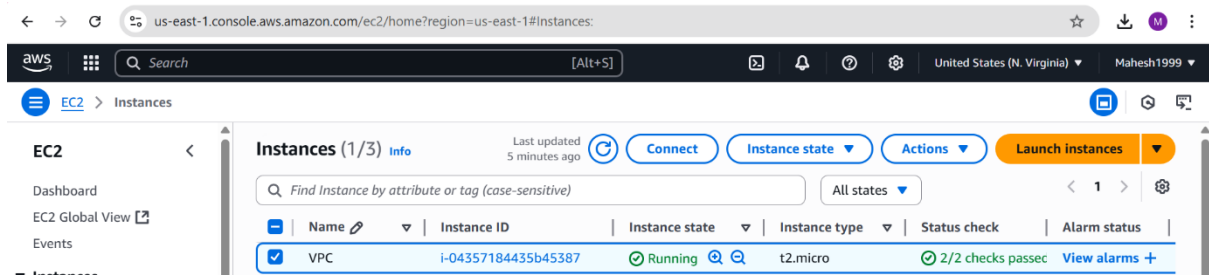**Status enable commend**: Sudo systemctl enable apache2

Status Start commend: Sudo systemctl start apache

Check the Status commend: Sudo systemctl status apache2

Next come to ec2 instance->Click on Instance

Next Copy the public ip address

Next Paste the ap address in Browser

Activity Completed.