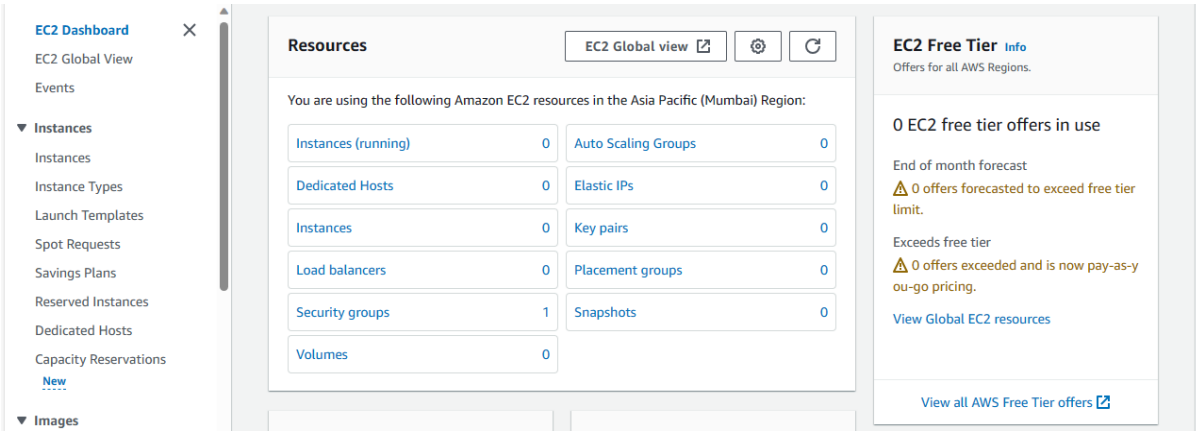
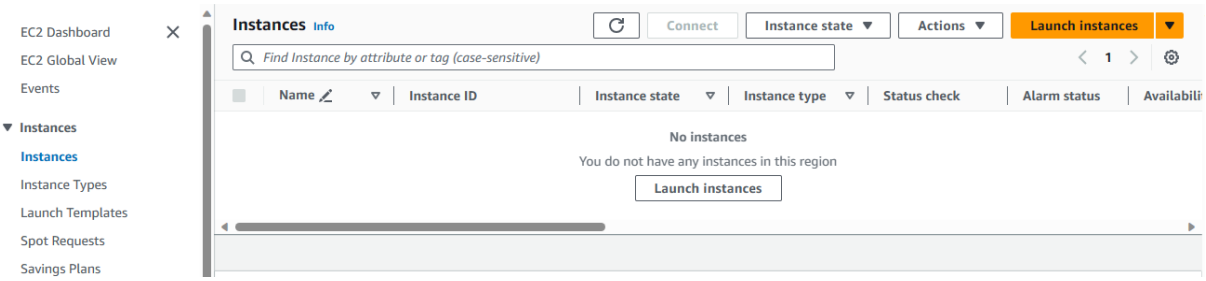
TASK 1: Launch an EC2 Instance:

Steps to launch a new EC2 instance using the Amazon Linux 2 AMI using AWS console.:

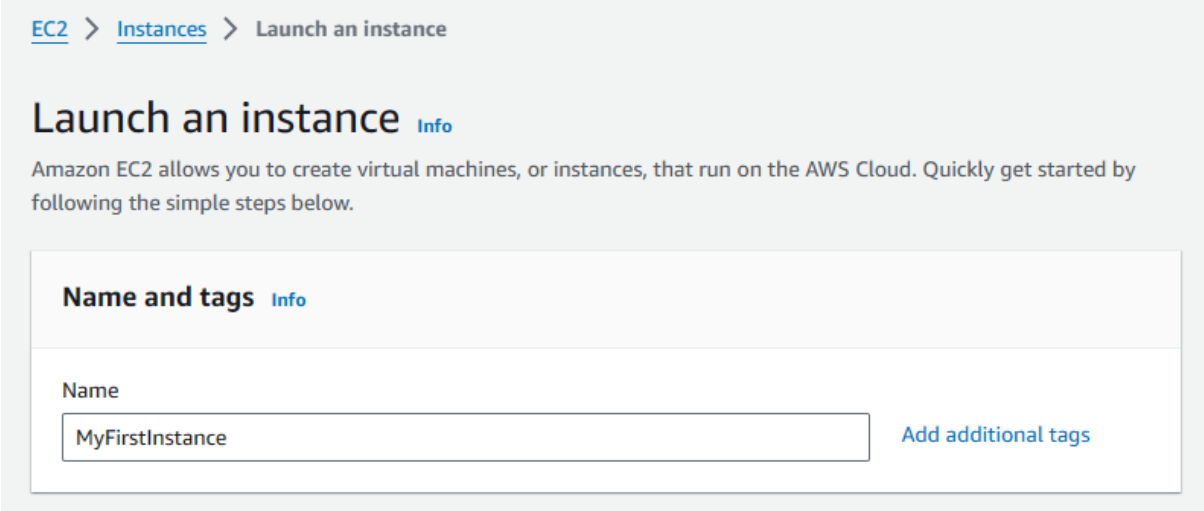
1. Seach EC2 and select it and you'll be redirected to EC2 dashboard .

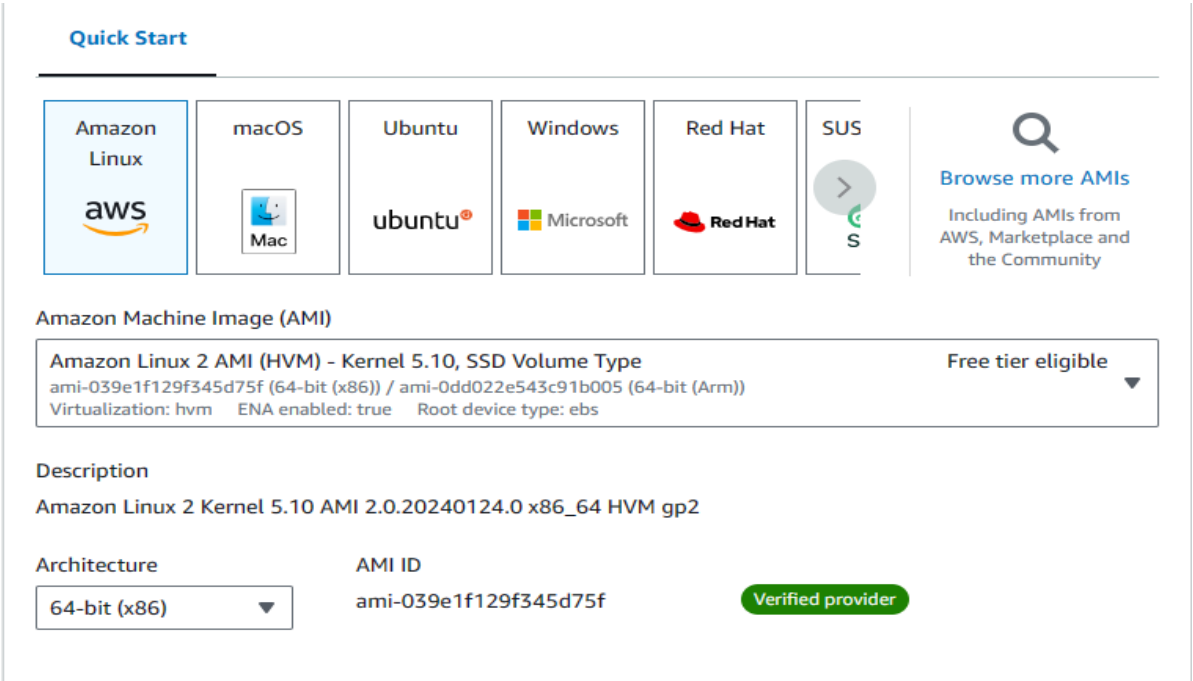


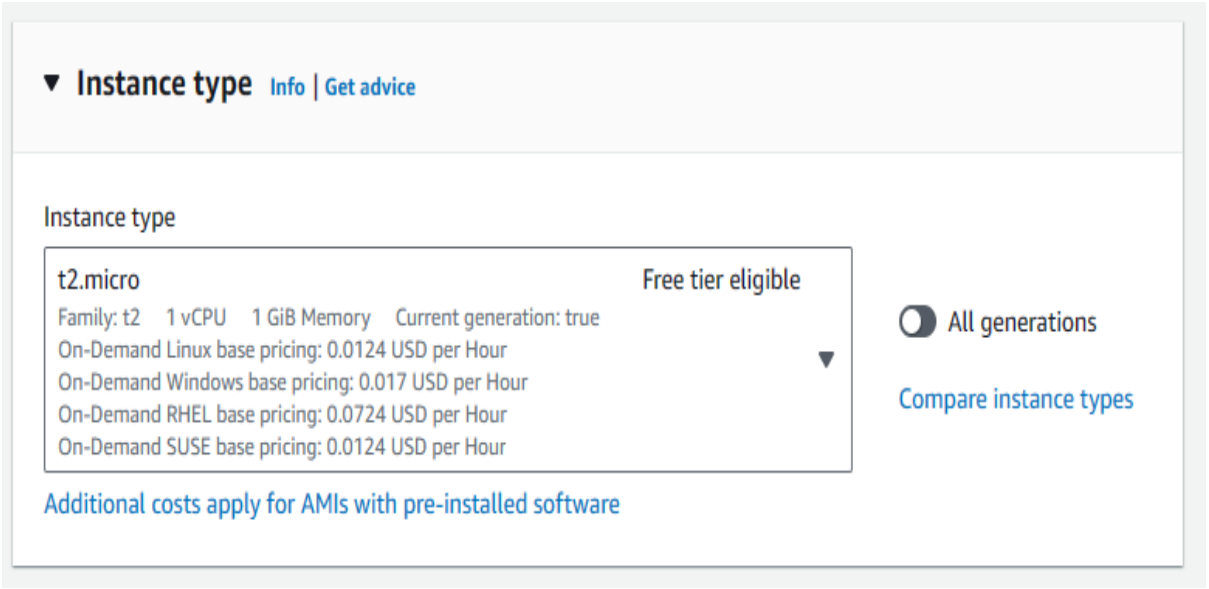
2. Now select "Instances" and In that click on "Launch Instance".

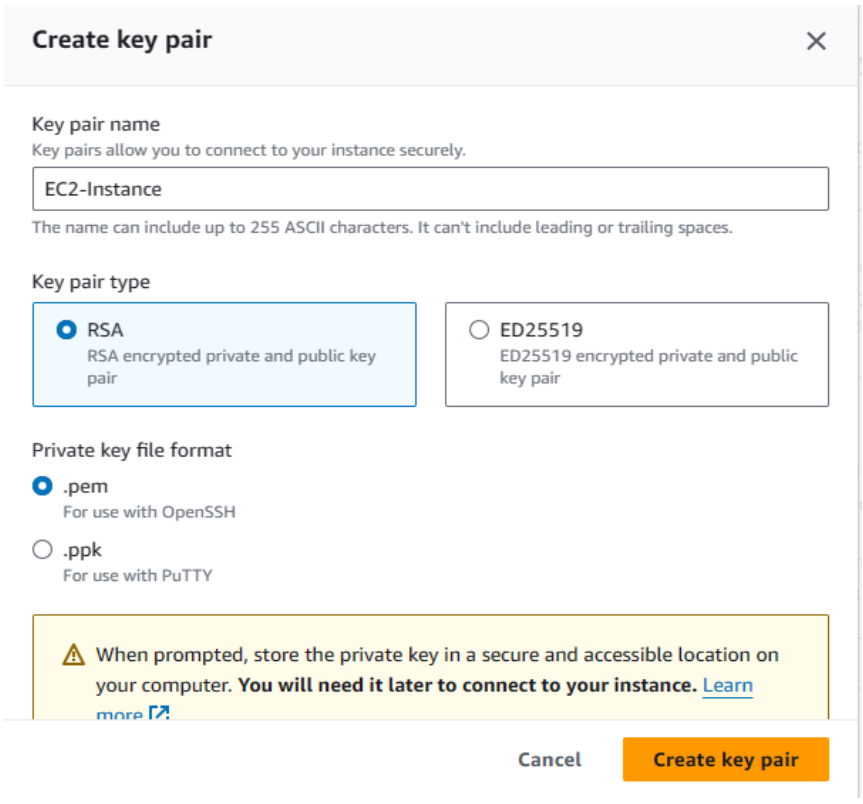


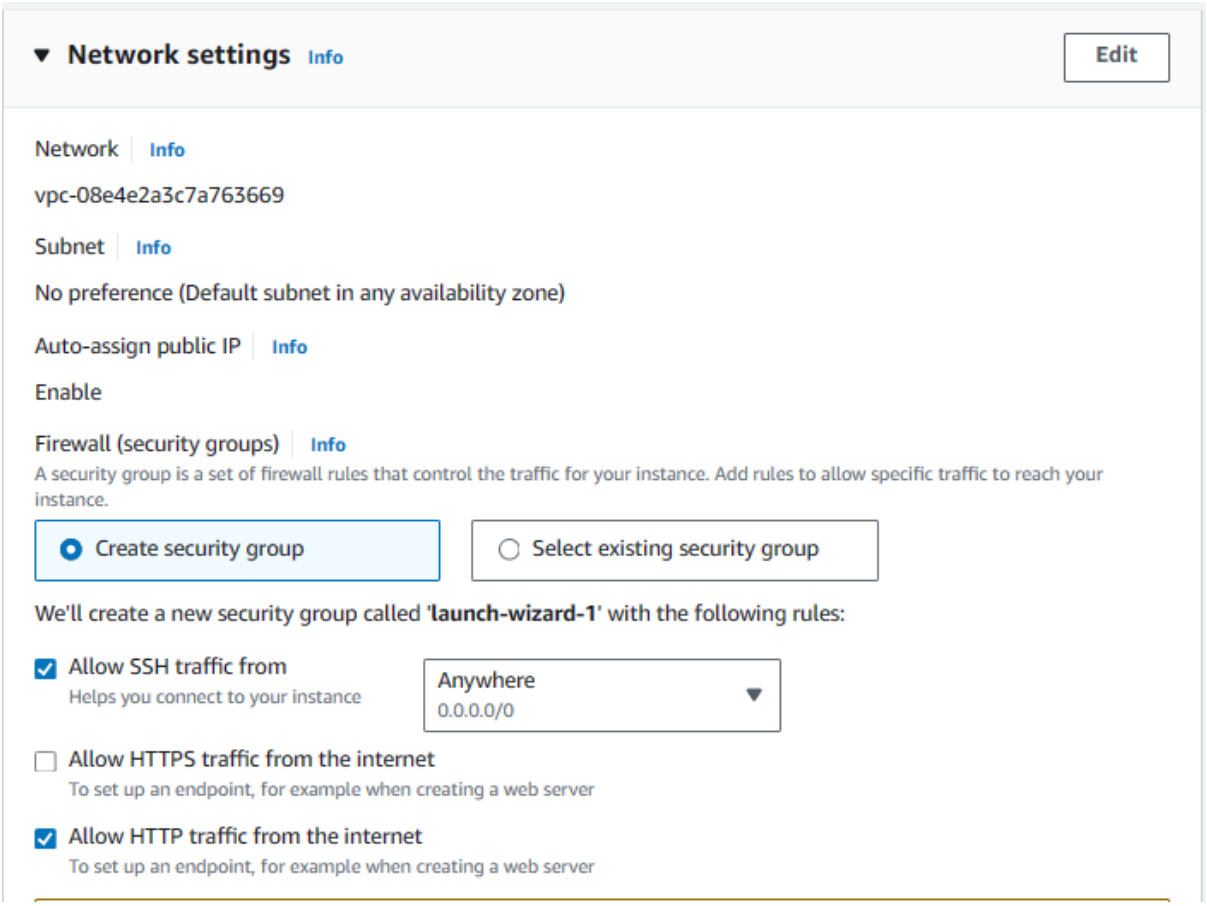
3. Now name your instance as “MyFirstInstance” and Scroll down . In the Quick start section Select Amazon Linux 2 AMI(HVM) and select 64-bit Architecture . Select t2.micro as Instance type . Now we have to generate key pair so name your key pair “EC2-instance” , select key pair type as RSA and select file format as .pem and select on “Create Key Pair”. Now select “Anywhere” and select “Allow SSH traffic from” and “Allow HTTP” traffic from the internet . Now in configuration storage select 8gb and Now click on Launch Instance .



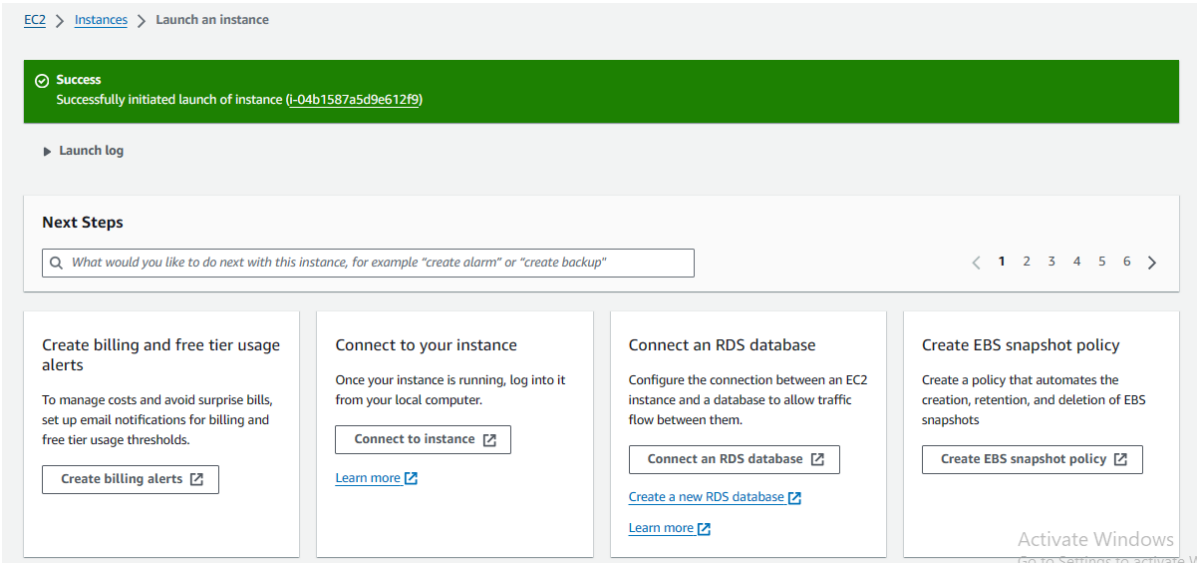


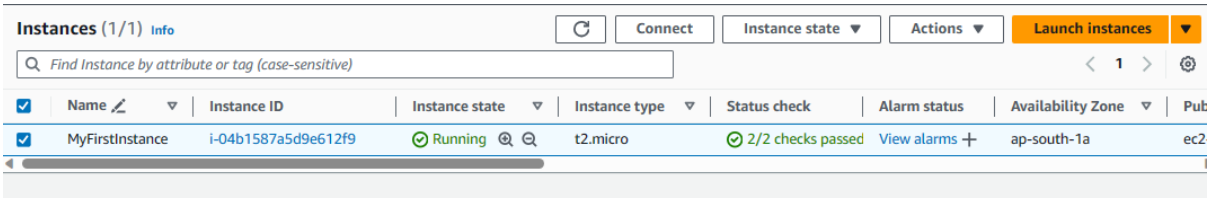

Instance type Info | Get advice
Instance type
t2.micro
Free tier eligible
Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Linux base pricing: 0.0124 USD per Hour
On-Demand Windows base pricing: 0.017 USD per Hour
On-Demand RHEL base pricing: 0.0724 USD per Hour
On-Demand SUSE base pricing: 0.0124 USD per Hour
All generations
Compare instance types
Additional costs apply for AMIs with pre-installed software


Create key pair
Key pair name
Key pairs allow you to connect to your instance securely.
EC2-Instance
The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.
Key pair type
RSA
RSA encrypted private and public key pair
ED25519
ED25519 encrypted private and public key pair
Private key file format
.pem
For use with OpenSSH
.ppk
For use with PuTTY
When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. Learn more
Cancel
Create key pair



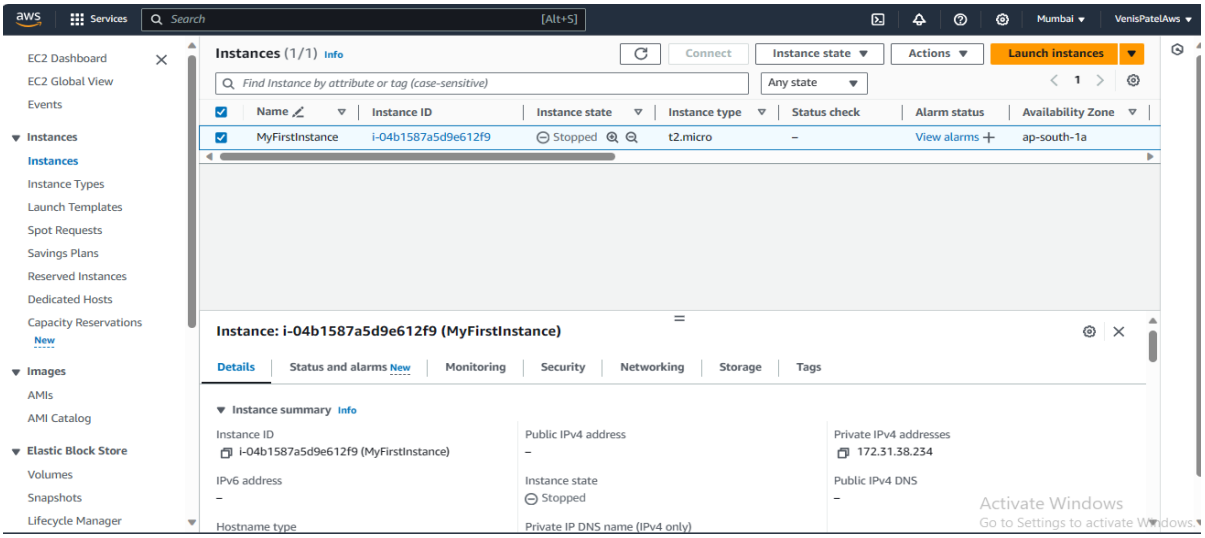
4. Now we can see that our instance has been created . We can see our instance “MyFirstInstance” running in the Instances section .



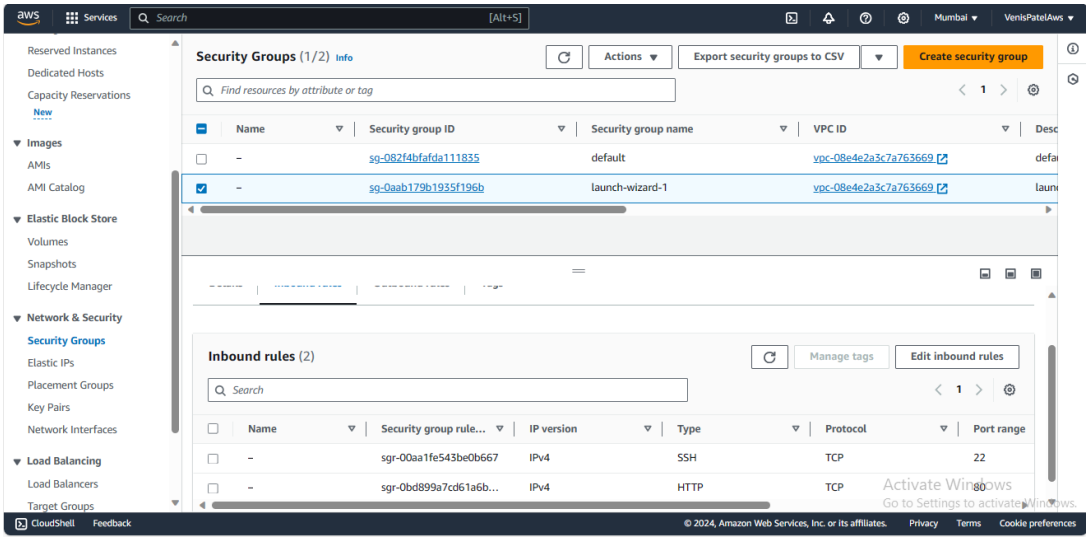


SUBTASK 2: Configure Security group with port 22 and 80 open (can be done during the creation of the EC2 Instance):

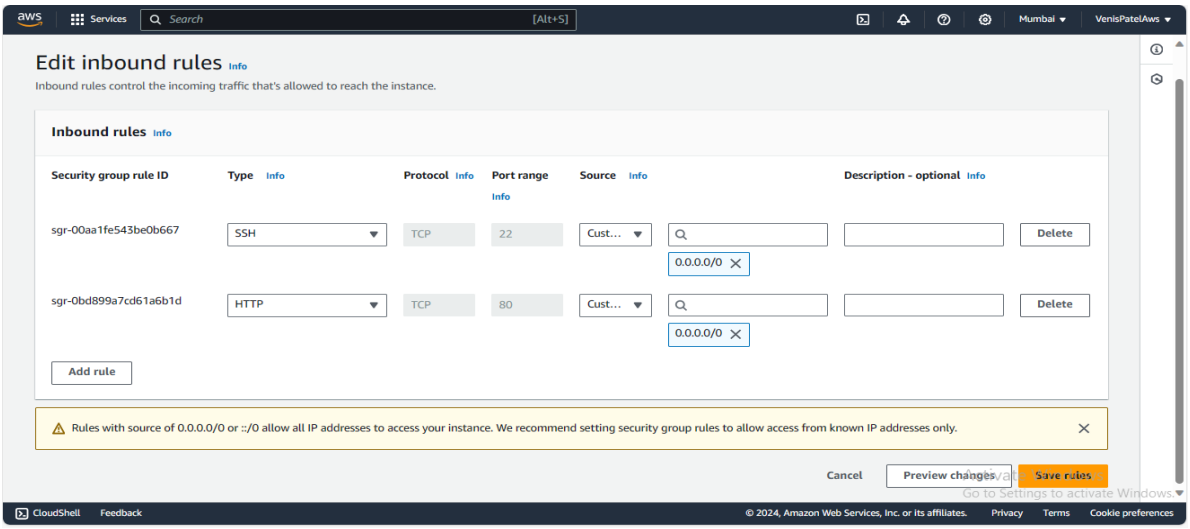
1. Select EC2 instance "MyFirstInstance", Then select security group in myLinux2Server's details. Then click on launch-wizard-3 under security group.



2. Now select the security group and click on Inbound rules and then click on edit inbound rules.



3. Here add HTTP and SSH rules and their port numbers are 80 and 22 respectively. After that click on save rules.



SUBTASK 3: Connect to the newly launched EC2 instance using SSH:

Steps:

1. Open Terminal and navigate to the folder where the “MyAmazonLinux2KeyPair.pem” is located.

2. Then enter the following command to connect to ec2 instance using ssh:

   ssh -i .\MyAmazonLinux2KeyPair ec2-user@52.66.12.76