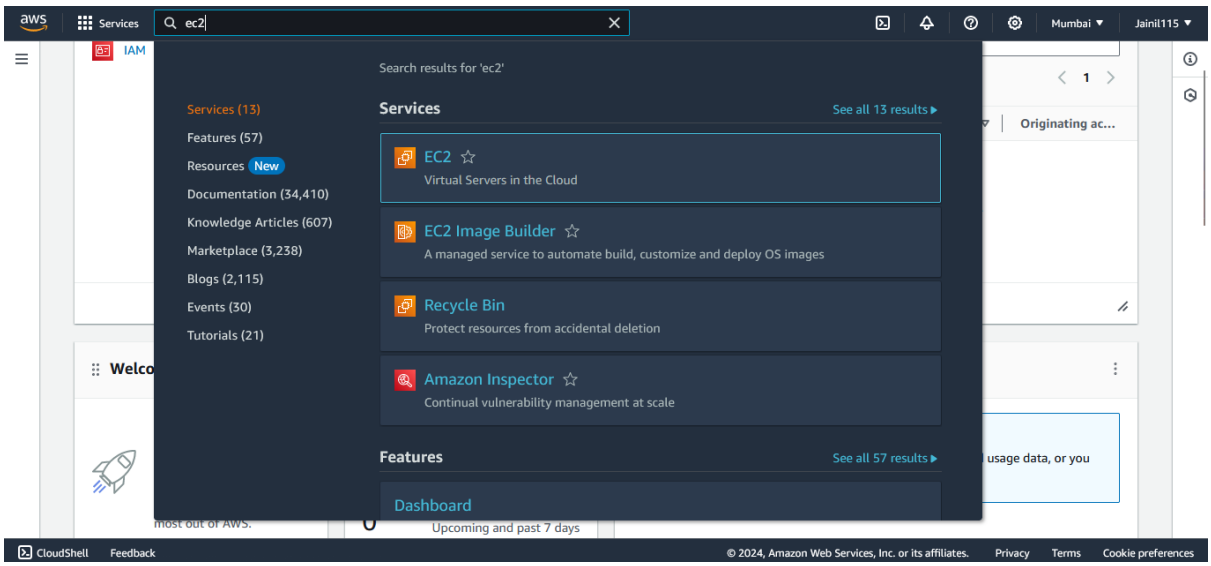
TASK 1: Launch an EC2 Instance:

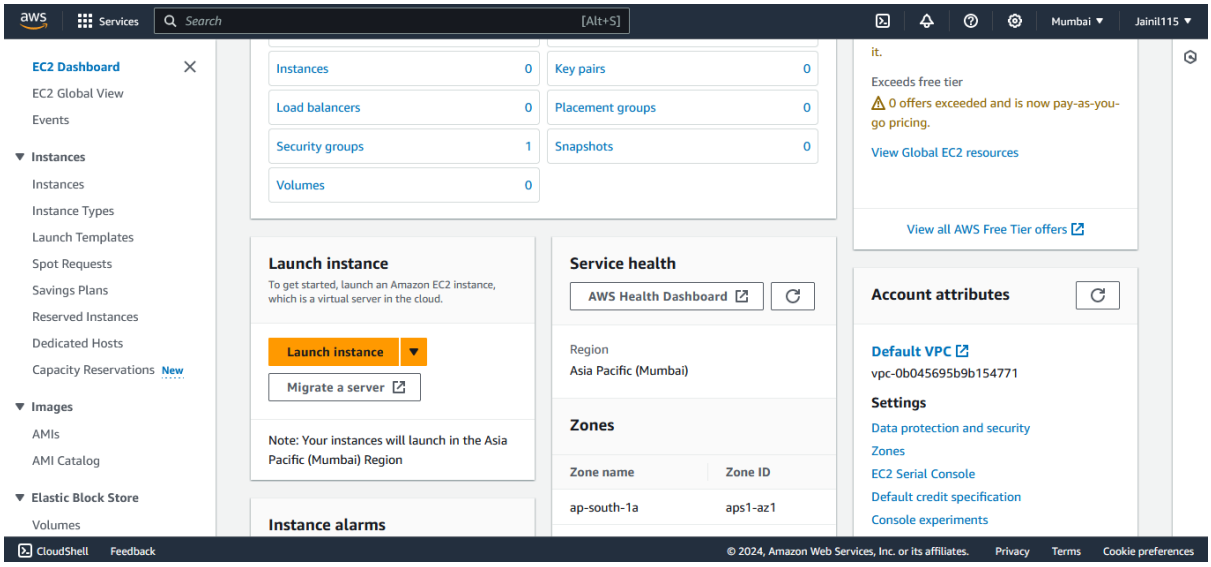
1. **Launch a new EC2 instance using the Amazon Linux 2 AMI using AWS console.**
2. **Configure Security Group:**
    1. **With 22 and 80 Ports open.**
3. **Connect to EC2 Instance:**
    1. **Connect to the newly launched EC2 instance using SSH.**

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

1. Search for ec2 in search tab inside aws console.

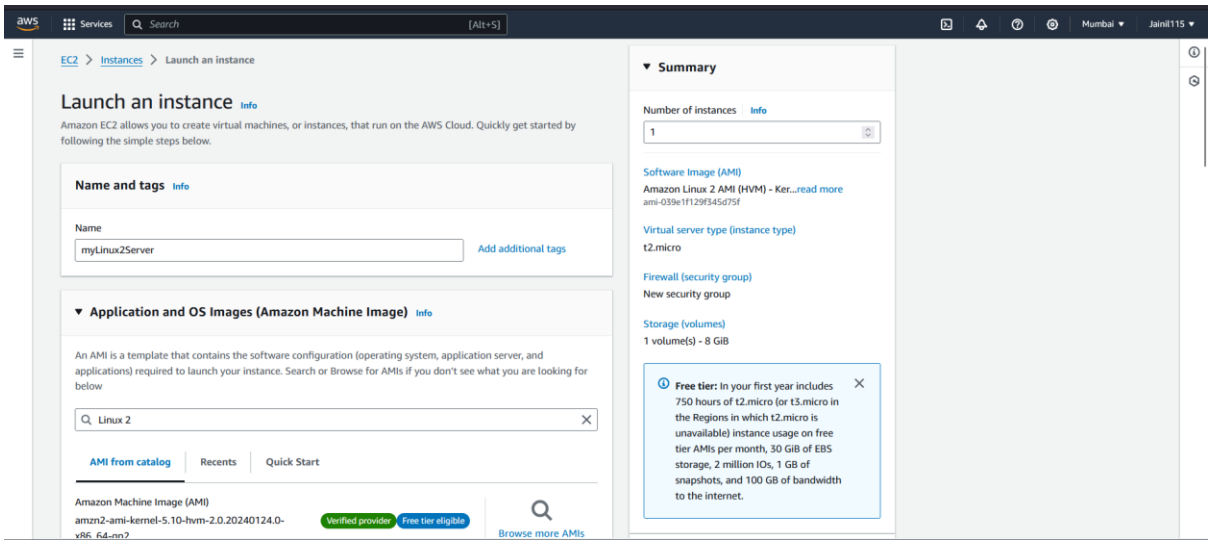


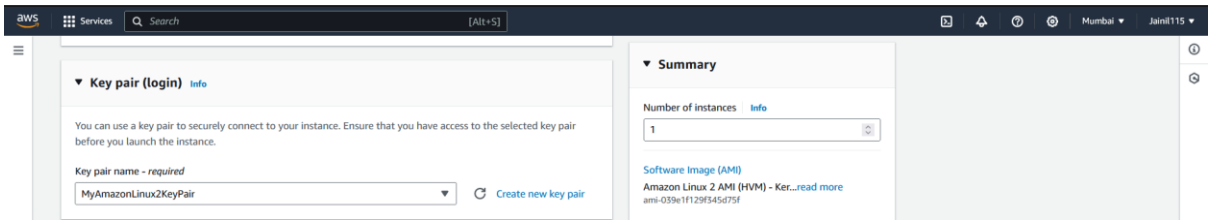
2. In EC2 click on “Launch Instance”.

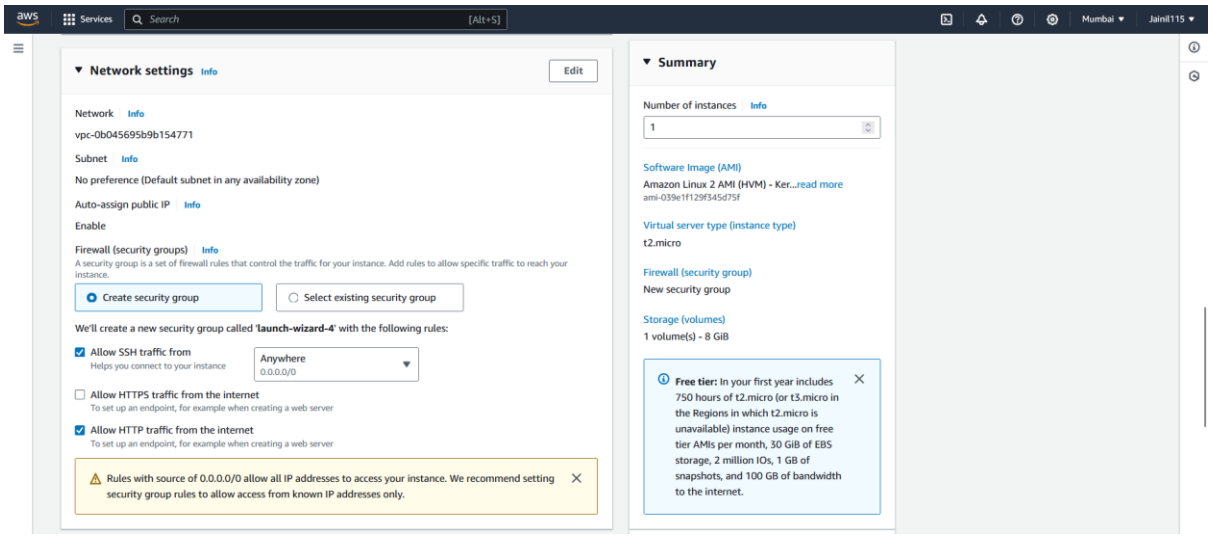


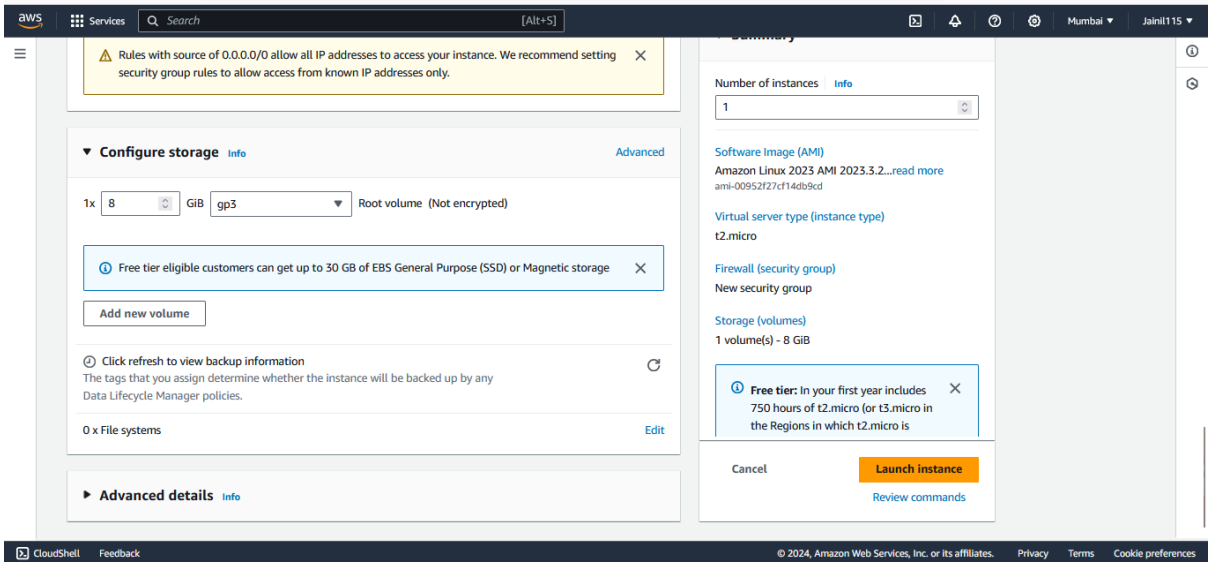
3. After that enter the name of the web server. Then search for Amazon Linux 2 and select Amazon Linux 2 AMI inside the Application and OS images tab. Select instance type

t2.micro. We need to generate key pair in order to access this Virtual machine using SSH. Enter the name of the key and select RSA and .pem file format for the key. Select “Allow SSH traffic and select “Anywhere” and also allow HTTP traffic and configure the security group. In configure storage select 8gb of gp3 volume which is eligible for free tier. Then click on Launch Instance.

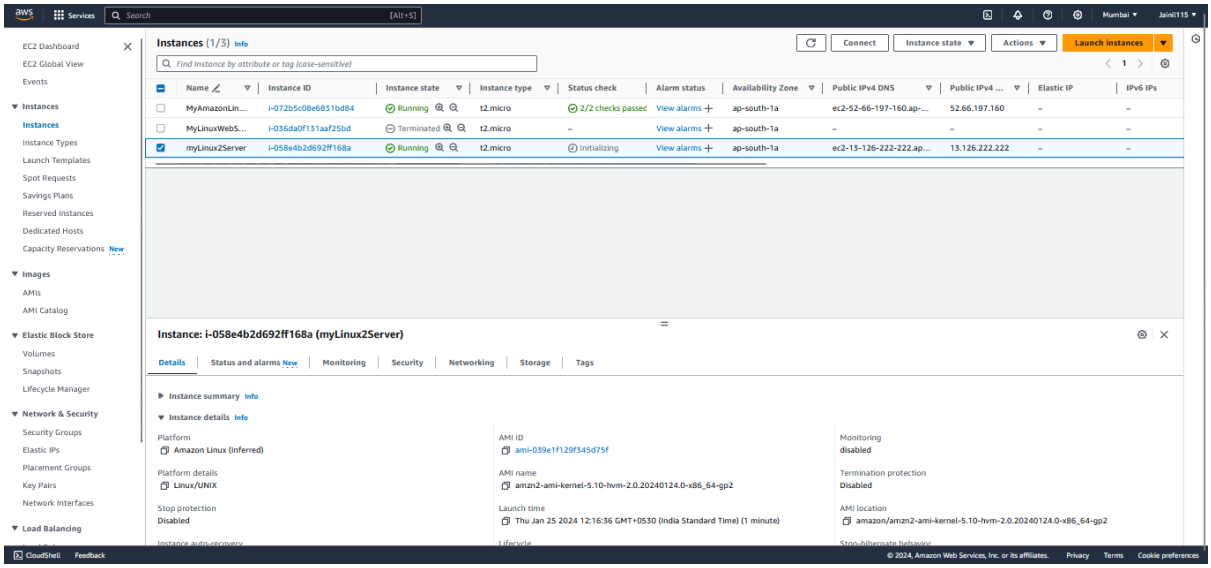




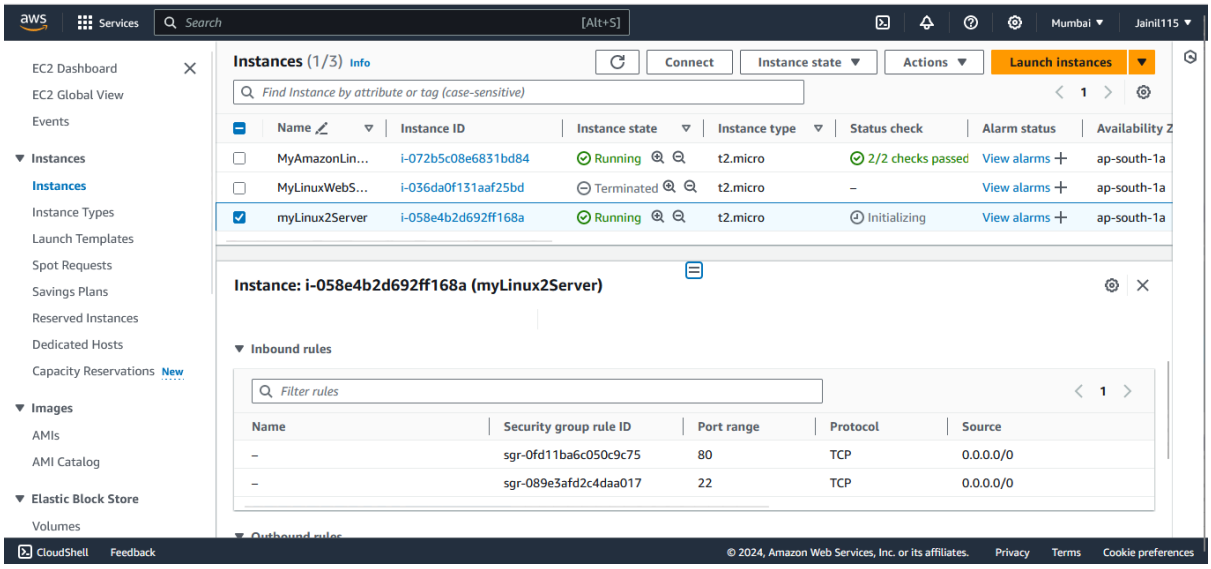




4. Now you will be able to see “myLinux2Server” running inside the running instances.

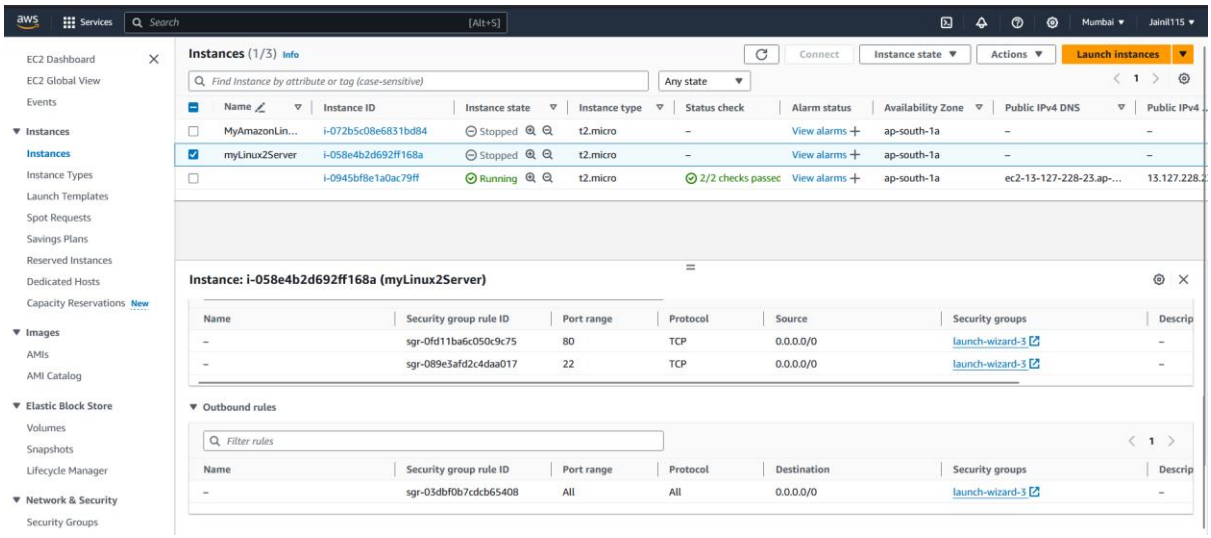


5. Now click on “myLinux2Server” to view details about that instance. Inside that click on security tab and scroll down to inbound rules, where we can see that port 22 and 80 are open.

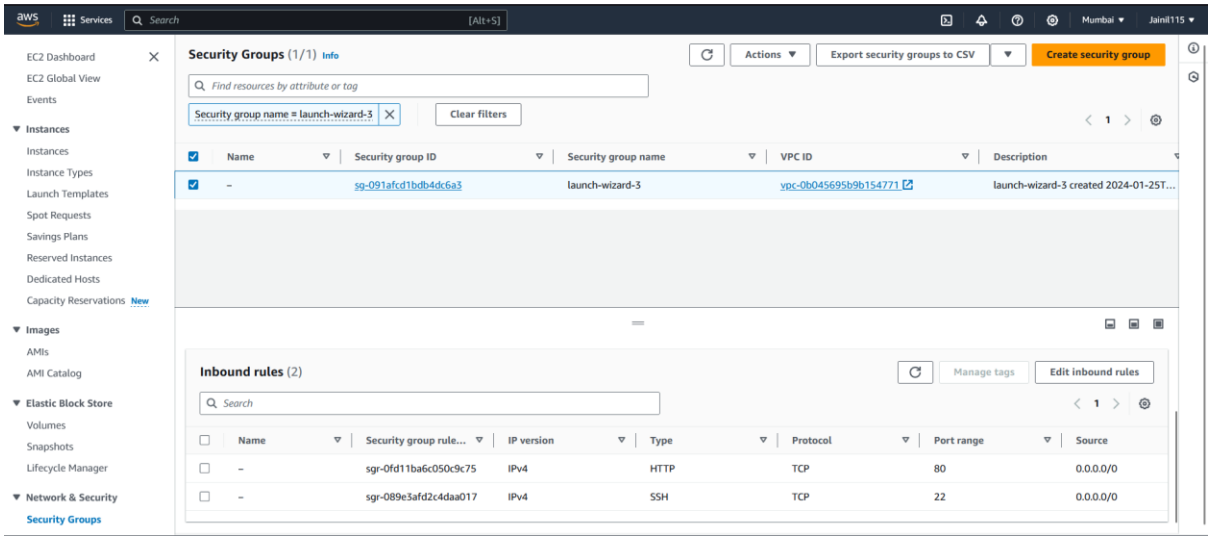


Steps to configure Security group with port 22 and 80 open (can be done during the creation of the EC2 Instance):

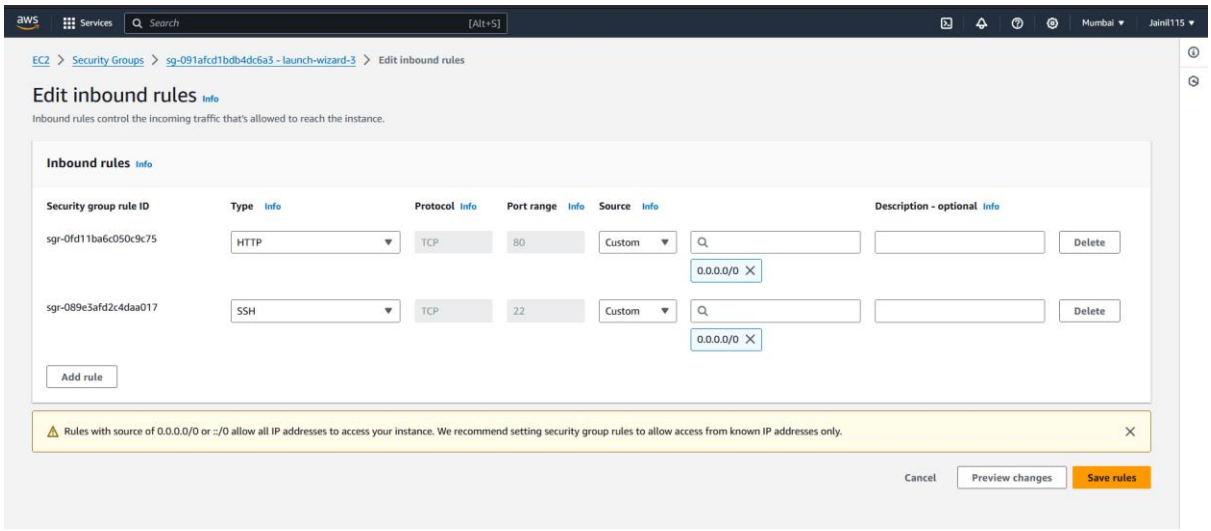
1. Select EC2 instance "myLinux2Server", Then select security group in myLinux2Server's details. Then click on launch-wizard-3 under security group.



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



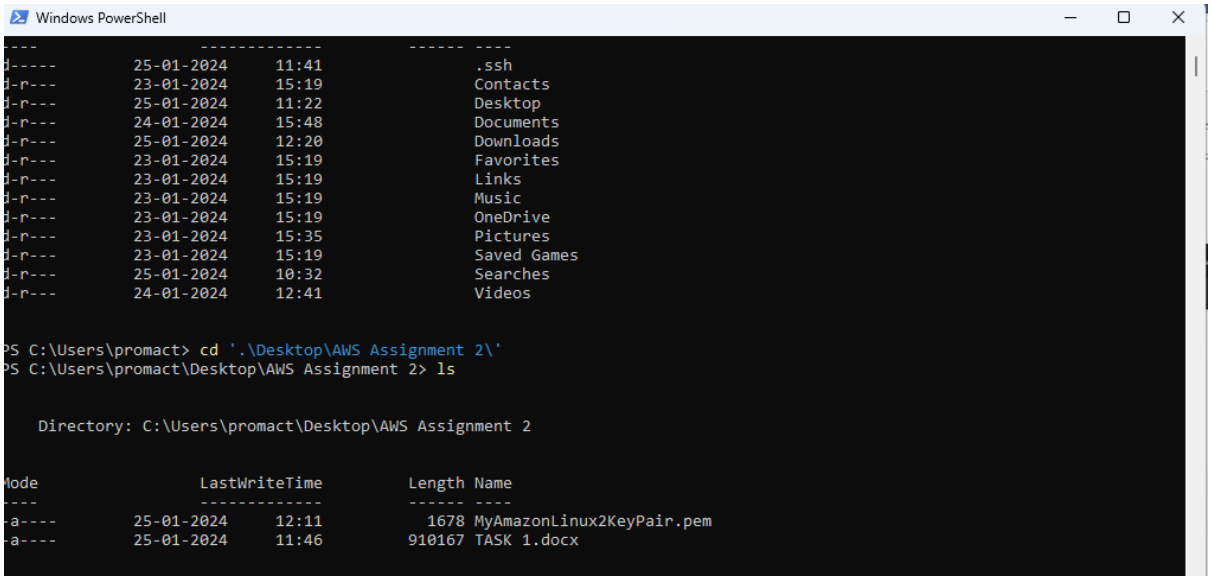
3. Here add HTTP and SSH rules and their port numbers are 80 and 22 respectively. After that click on save rules.



Steps to connect to the newly launched EC2 instance using SSH:

Steps:

1. Open PowerShell 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@13.126.222.222
```