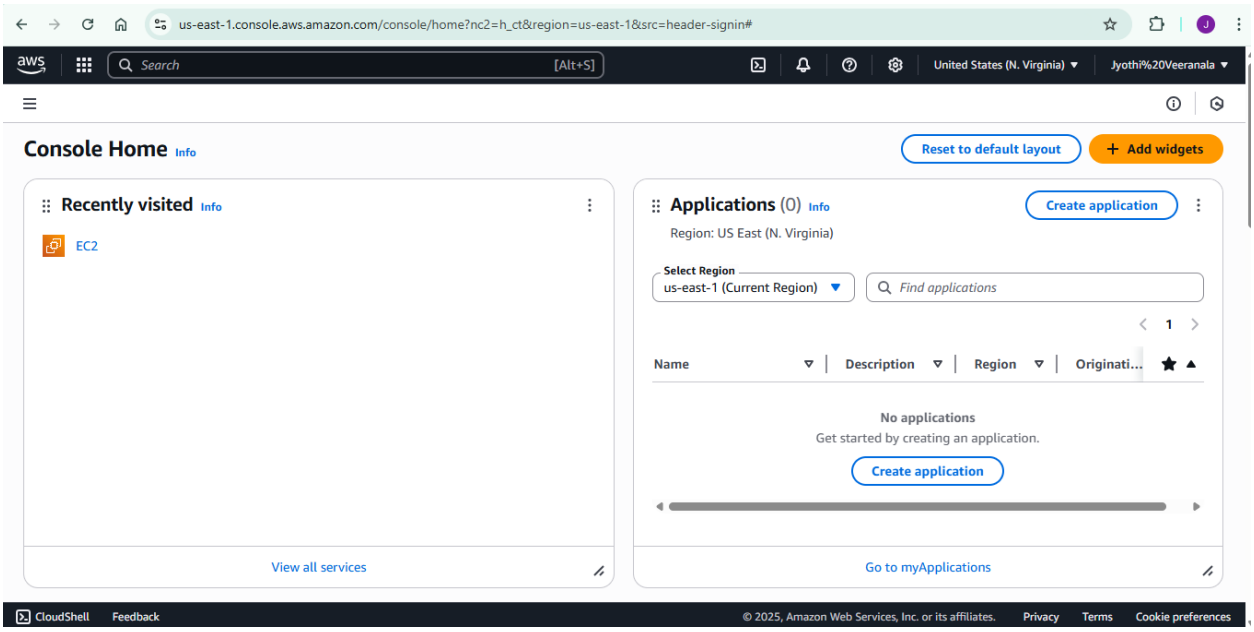
INSTANCE CREATION

INSTANCE(SERVER) Definition:

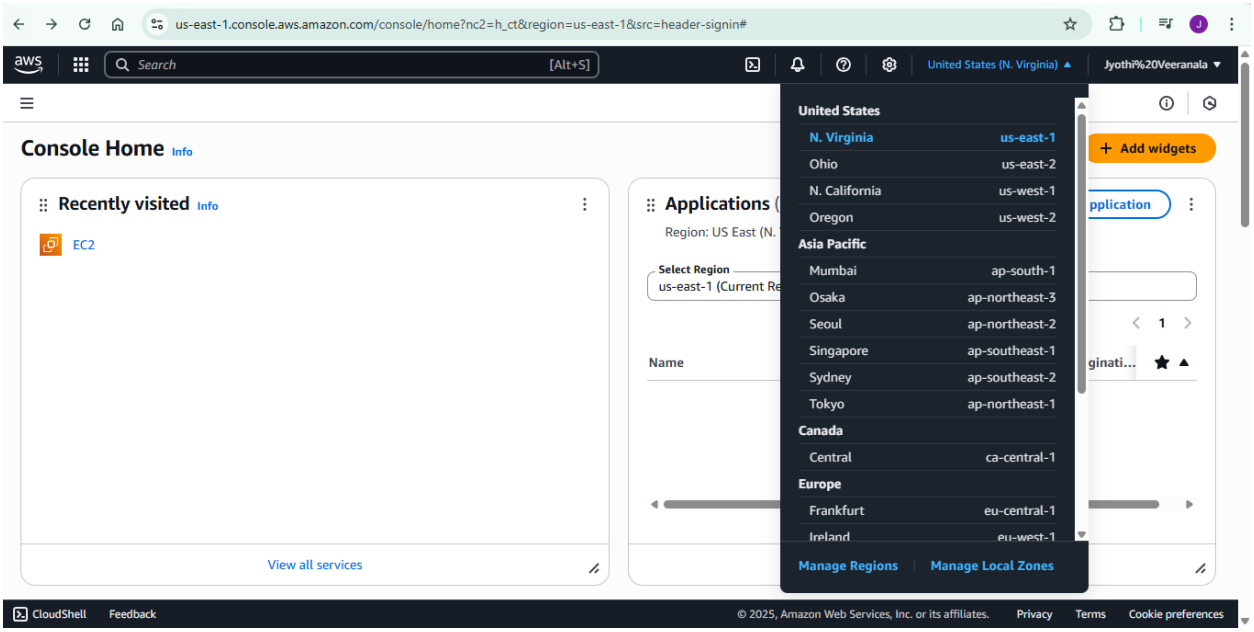
An instance is a virtualized environment that runs on AWS hardware, giving you the ability to use computing resources without needing physical servers.

Here, i will explain how to create instance(server).

First, login into your AWS account then the homepage looks as below.



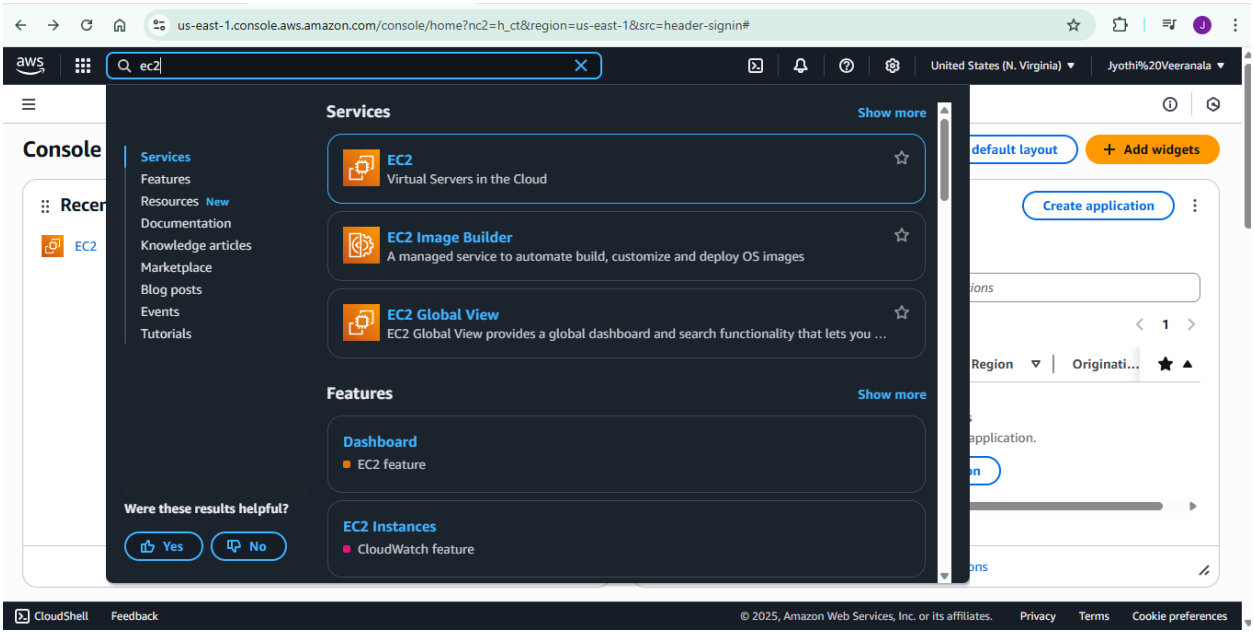
Choose region (Datacenters) as **N.Virginia us-east-1** this is free not chargeab



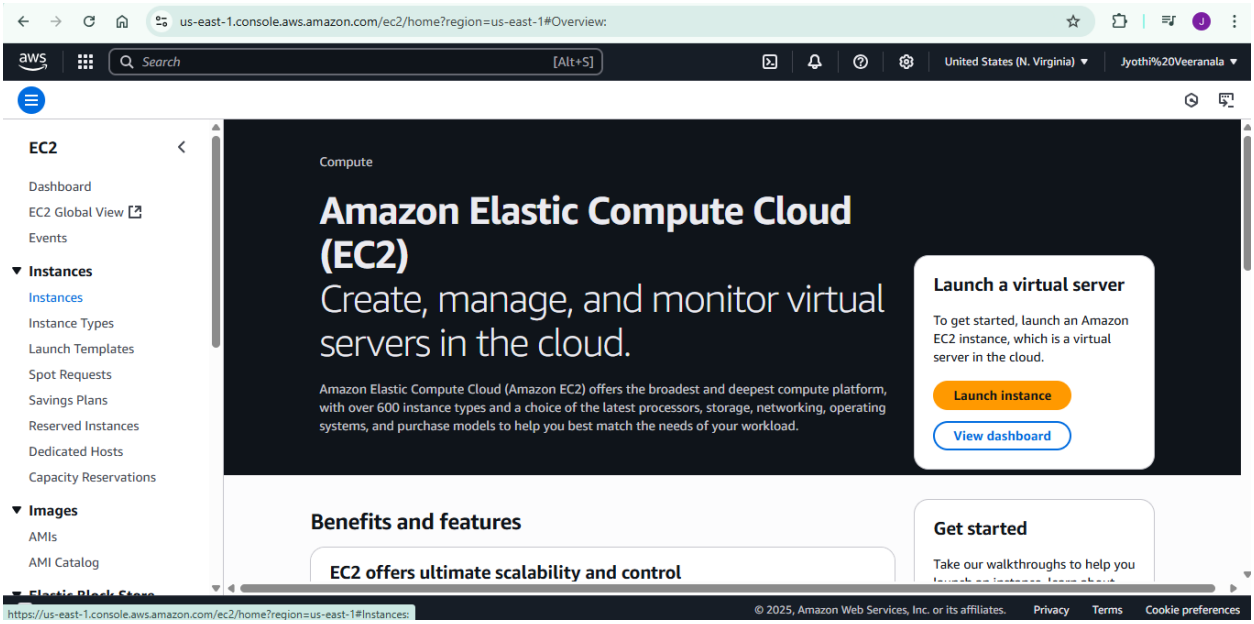
Ec2: Elastic Compute Cloud, is a web service it offers various hardware and software configurations, including different processors, storage, networking, and operating systems. It also provides options for scaling, storage, and security.

Search page search as ec2

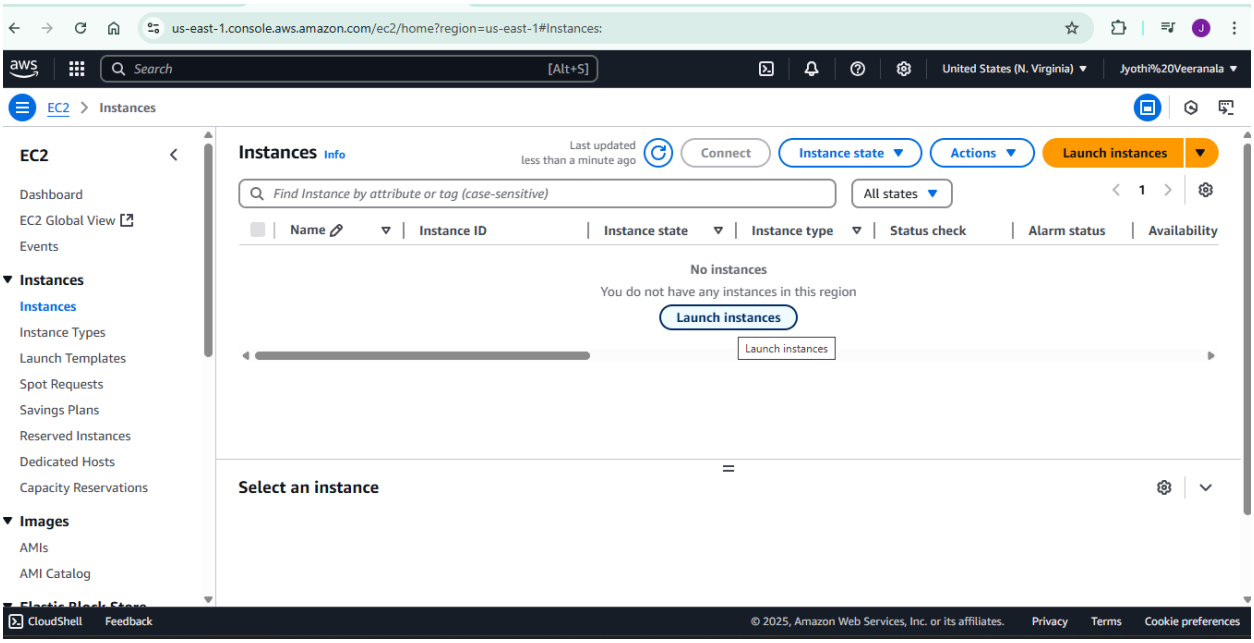
you will be able to see Ec2 then click on it.



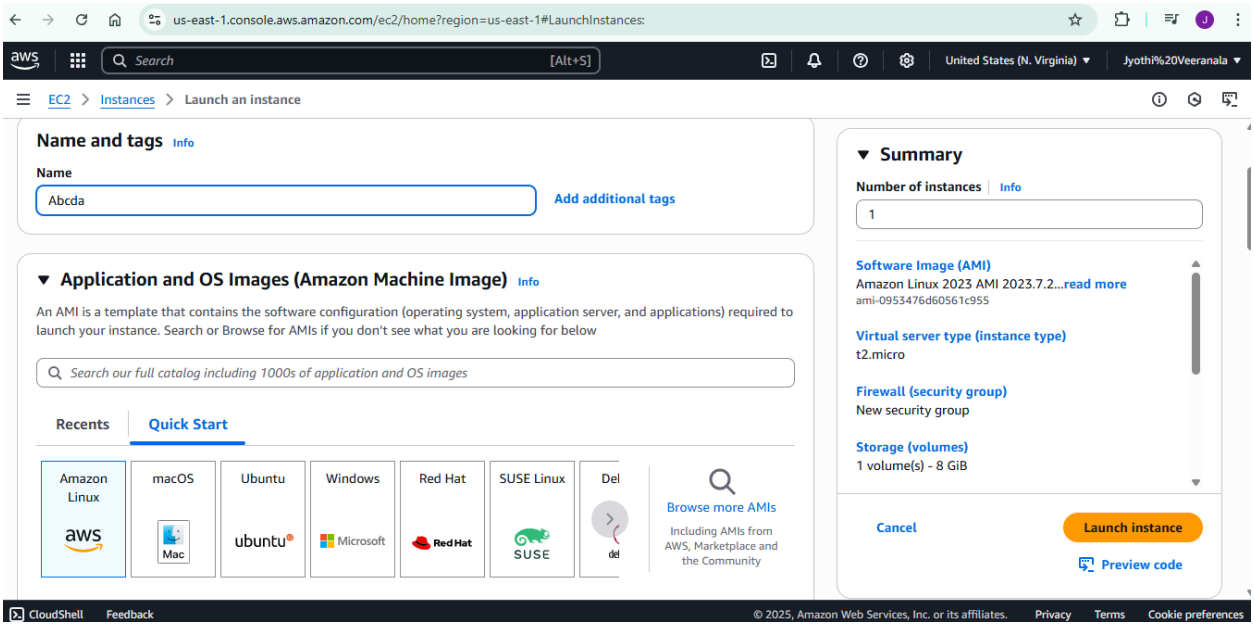
Click on **instance** and proceed.



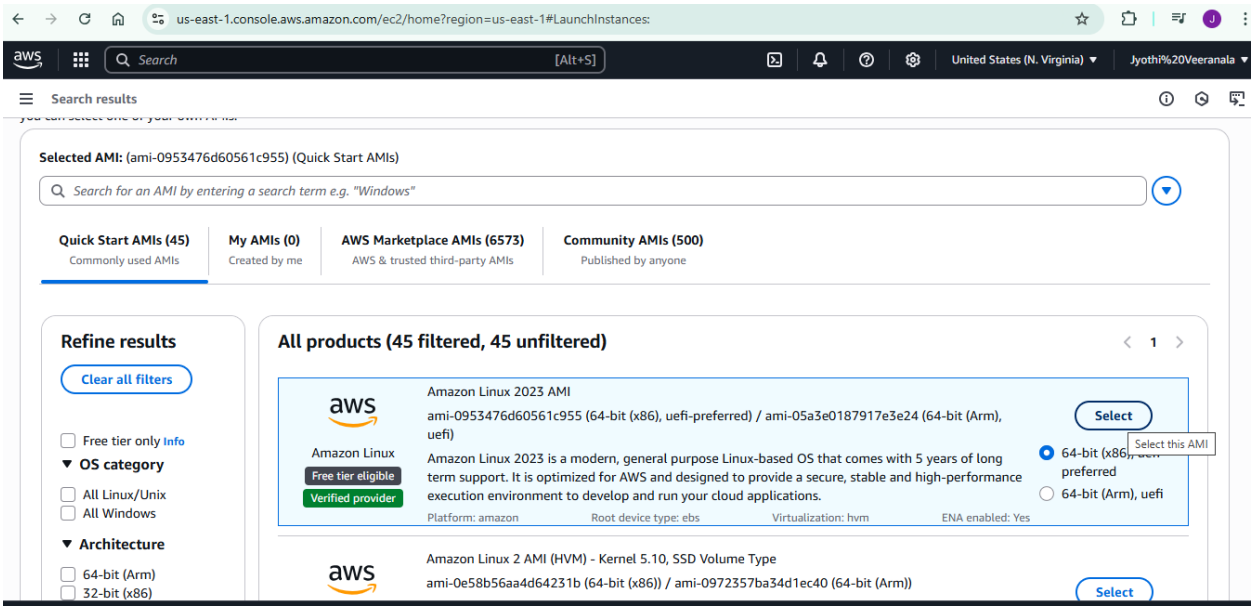
Lanuch Instance Click



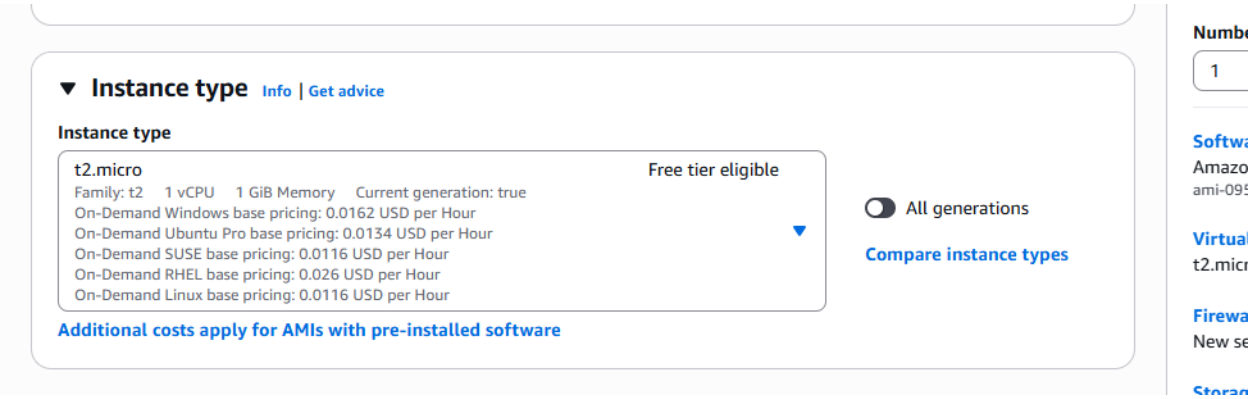
Name your instance(server) here I named it **abcd**



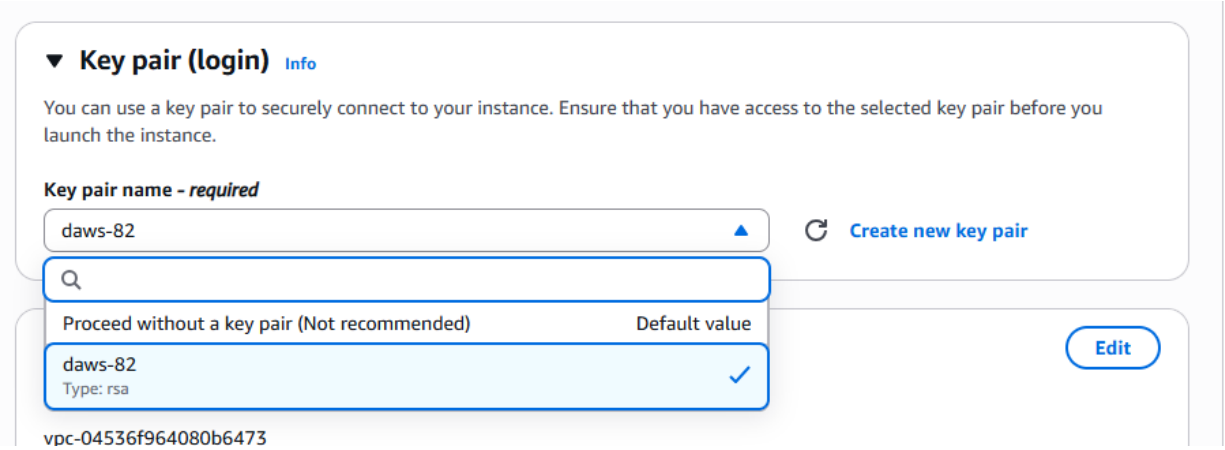
Machine image/Os image I am selecting in **Quick Start AMIs** and selecting **Amazon Linux 2023 AMI** which is not chargeable.



Instance type is choosing as **t3.micro** which is sufficient for me to as practice purpose

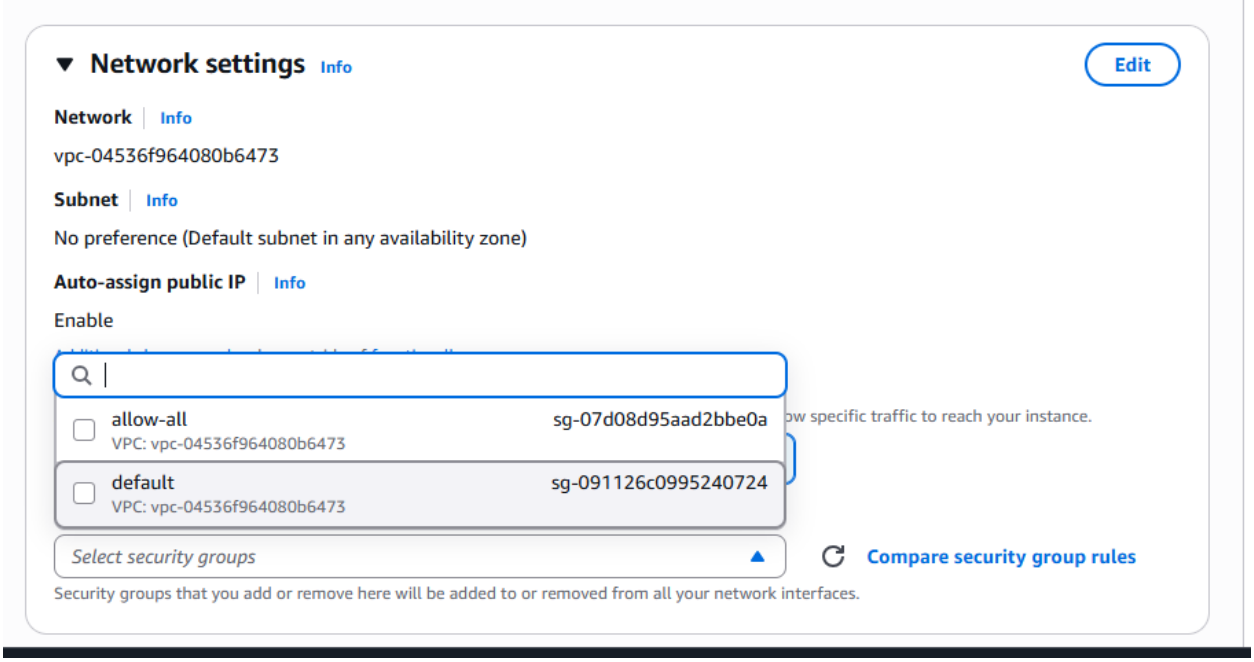


In key-pair we need to add public key I was explained how import public in at end of this document pls check it out.
Here, Already add public key file select it.



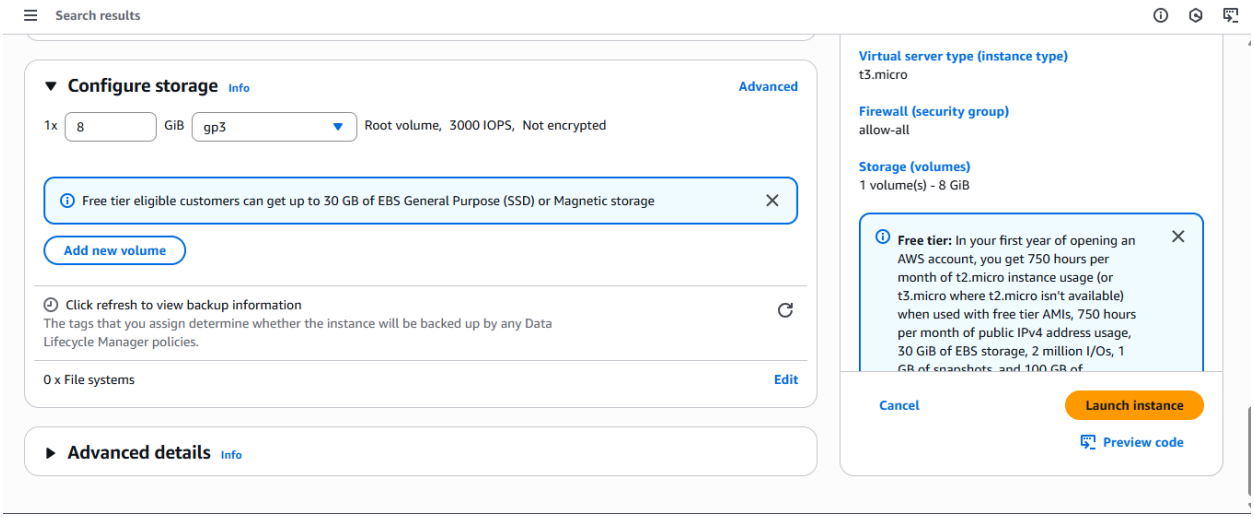
Network Setting I explained at the bottom of document.

I am providing access for all **allow-all**

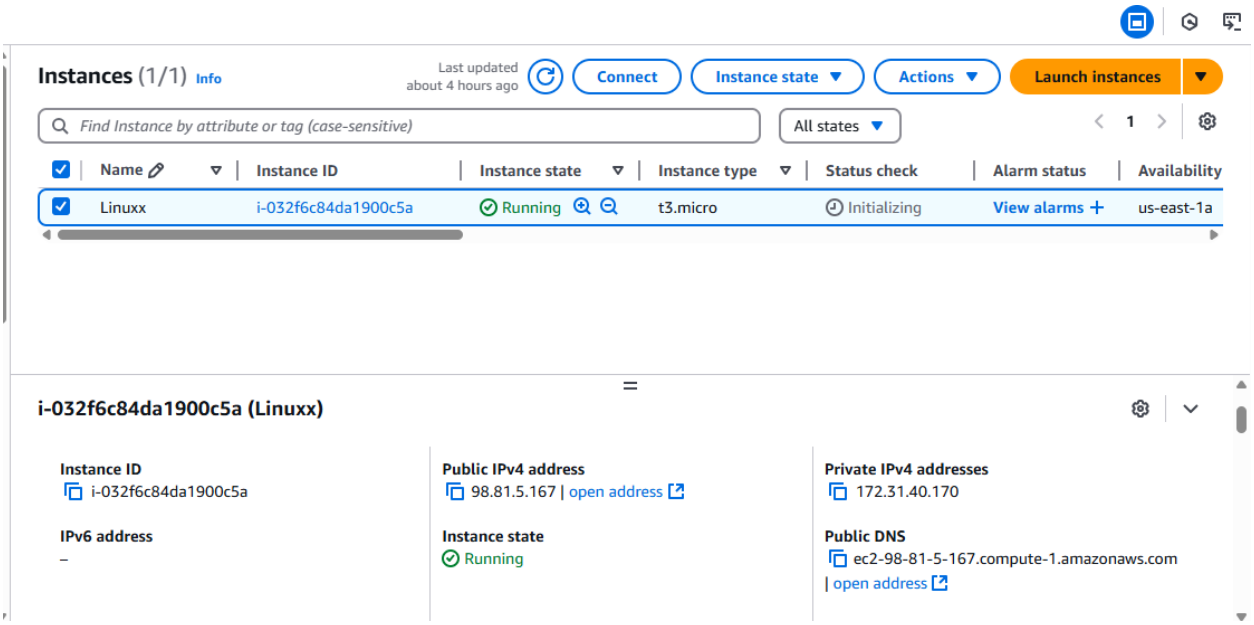


confirgure storage I chosen 8gb after that click on **Launch instance.**

Now, your instance is ready.



Copy the **public Ip**

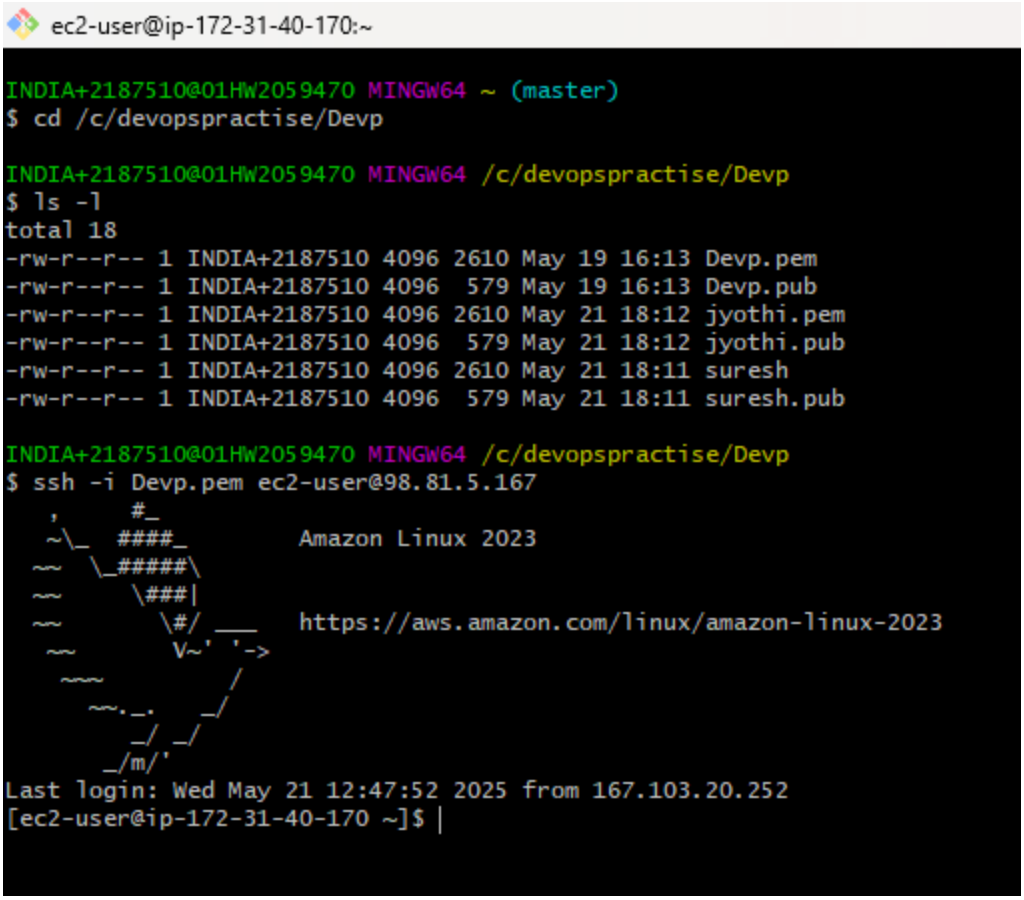


Connecting to the server

>> open gitbash and go to the path where we created private key.

Then use below command

ssh –i <privatekeyfile name> ec2-user@<public Ip>


ec2-user@ip-172-31-40-170:~
INDIA+2187510@01HW2059470 MINGW64 ~ (master)
$ cd /c/devopspractise/Devp
INDIA+2187510@01HW2059470 MINGW64 /c/devopspractise/Devp
$ ls -l
total 18
-rw-r--r-- 1 INDIA+2187510 4096 2610 May 19 16:13 Devp.pem
-rw-r--r-- 1 INDIA+2187510 4096 579 May 19 16:13 Devp.pub
-rw-r--r-- 1 INDIA+2187510 4096 2610 May 21 18:12 jyothi.pem
-rw-r--r-- 1 INDIA+2187510 4096 579 May 21 18:12 jyothi.pub
-rw-r--r-- 1 INDIA+2187510 4096 2610 May 21 18:11 suresh
-rw-r--r-- 1 INDIA+2187510 4096 579 May 21 18:11 suresh.pub
INDIA+2187510@01HW2059470 MINGW64 /c/devopspractise/Devp
$ ssh -i Devp.pem ec2-user@98.81.5.167
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
Last login: Wed May 21 12:47:52 2025 from 167.103.20.252
[ec2-user@ip-172-31-40-170 ~]$

Network setting

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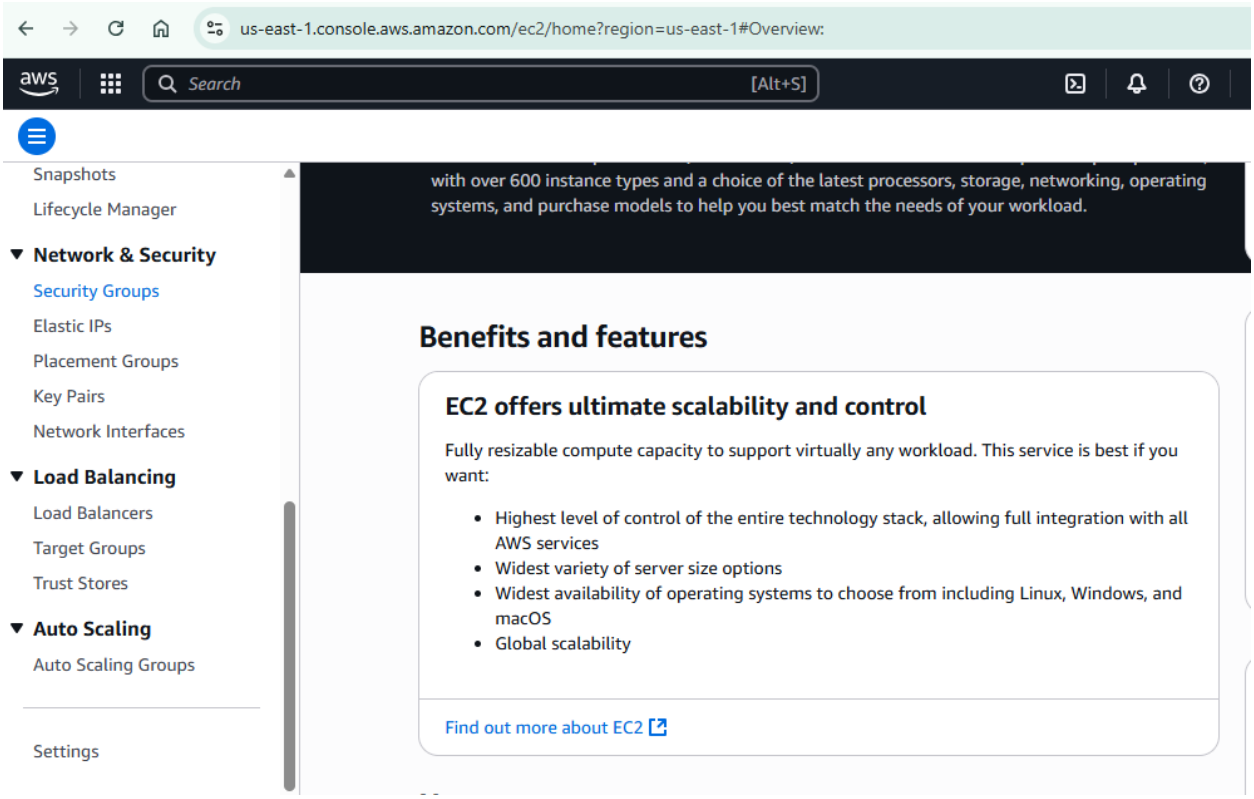
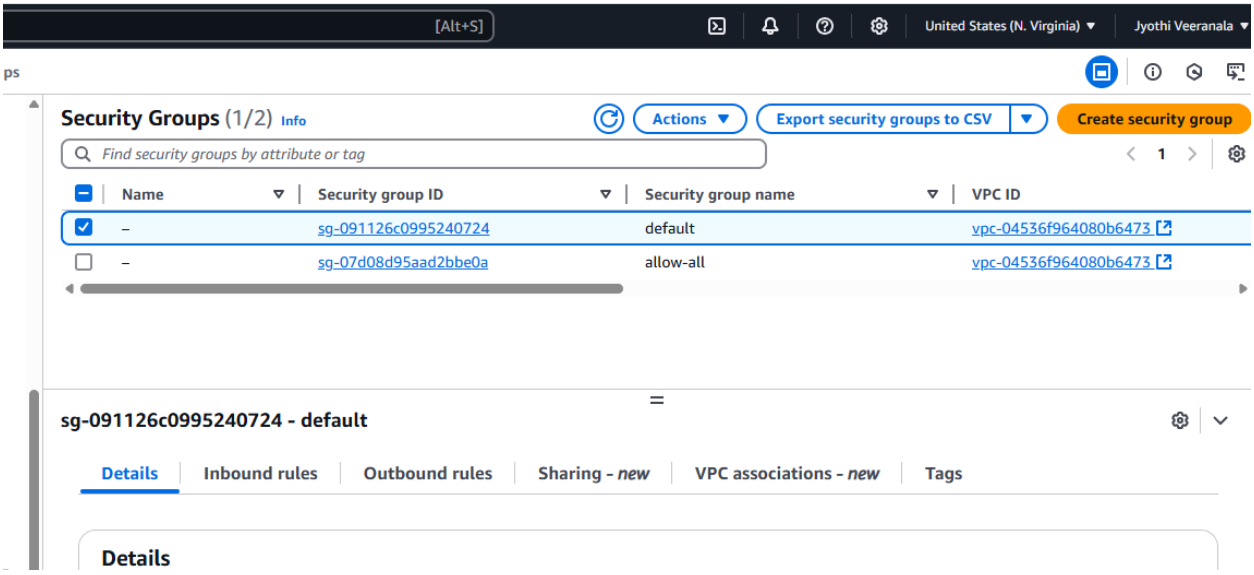
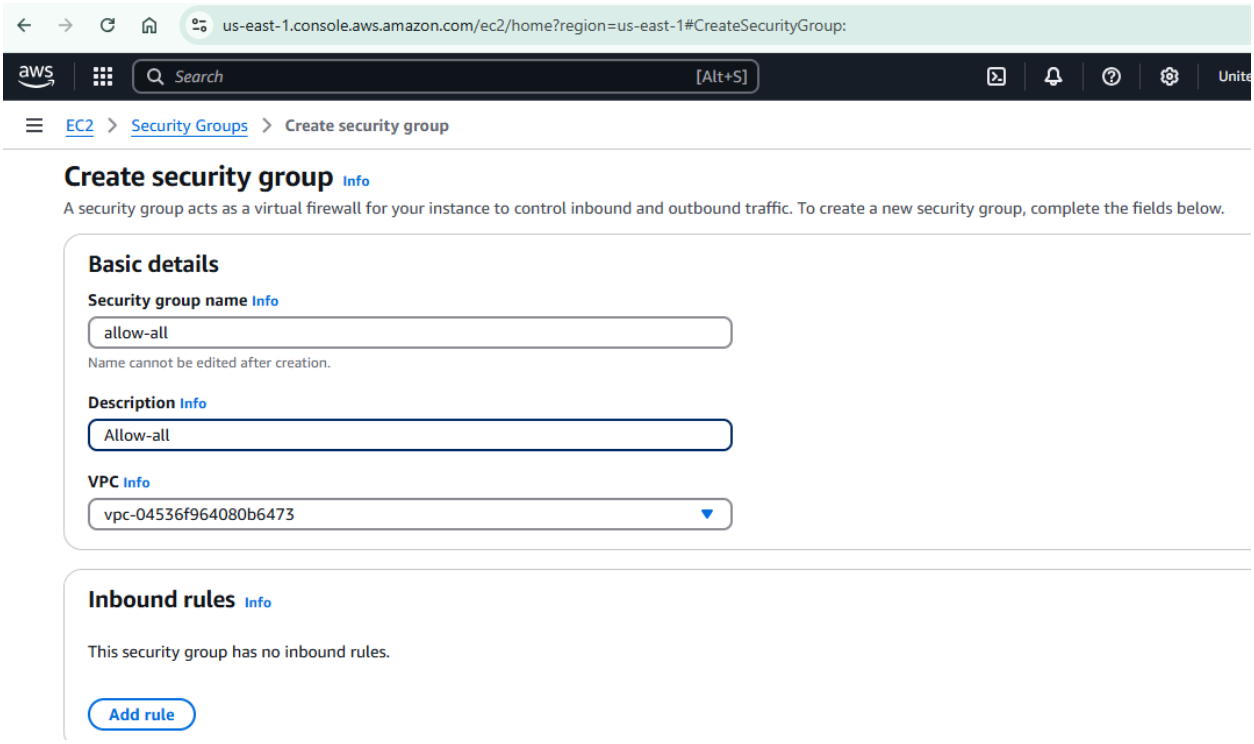
Before starting instance create do these 2 steps

Go to **Security Groups**> Click on **Create Security Group**





Provide your security name here i named i as allow-all and Description same.

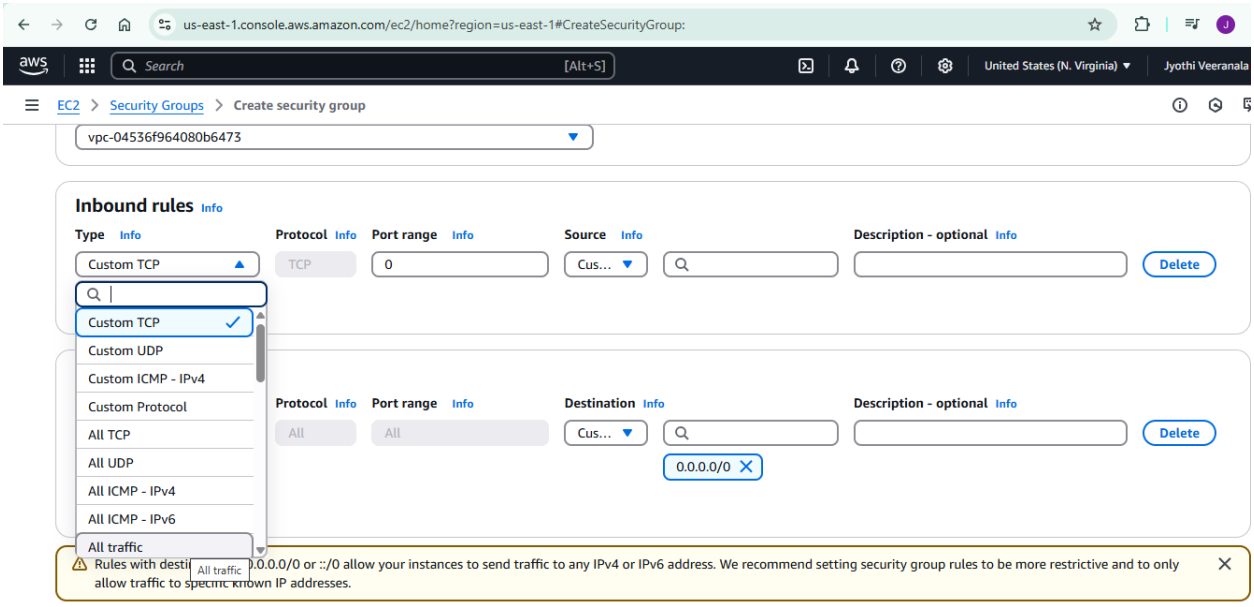


Inbound rules I gave it as **All traffic** bcoz i want to give access to all same as well for **outbound rules** .

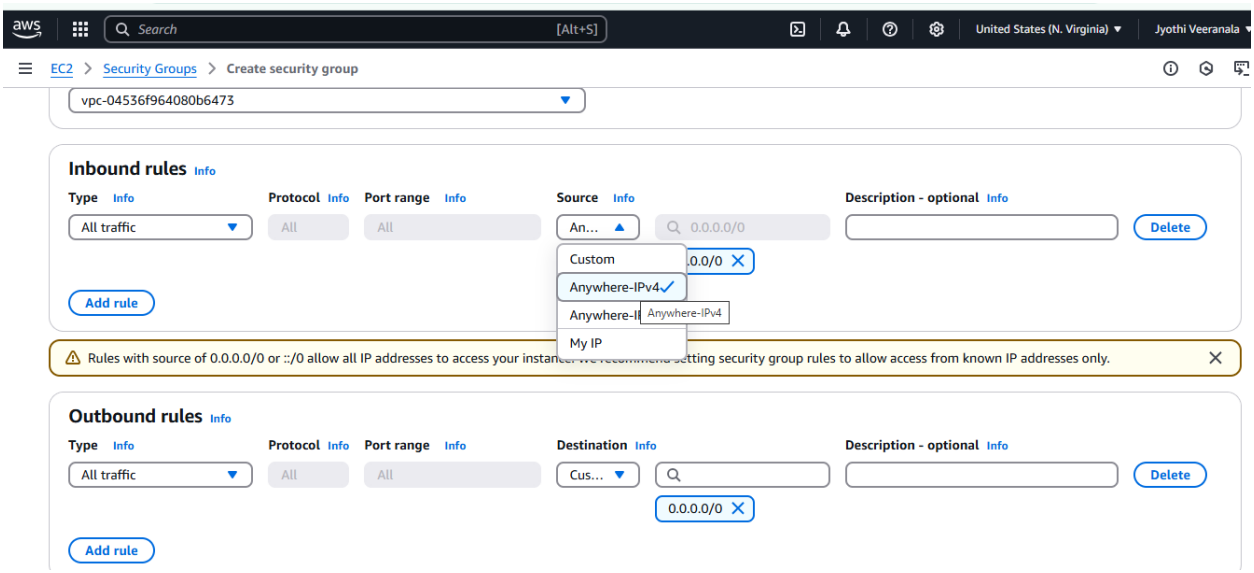
Inbound--> Incoming traffic

Outbound--> Outgoing traffing

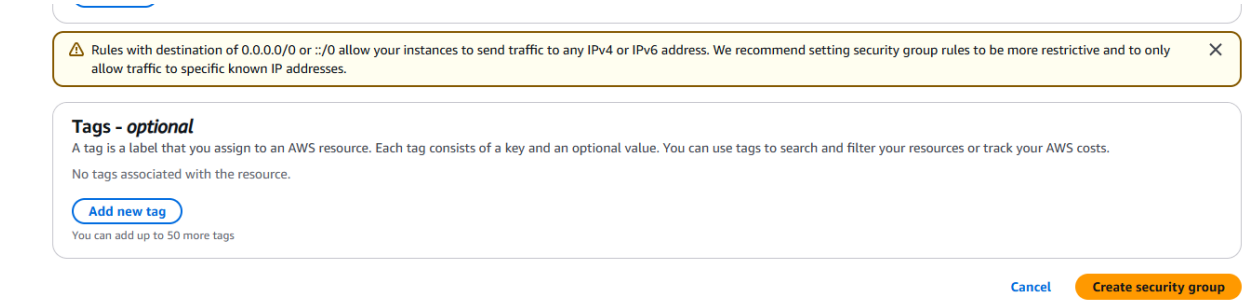
0.0.0.0/0 means access for every computer in the internet.



Source as **Anywhere Ipv4** same for outbound rules

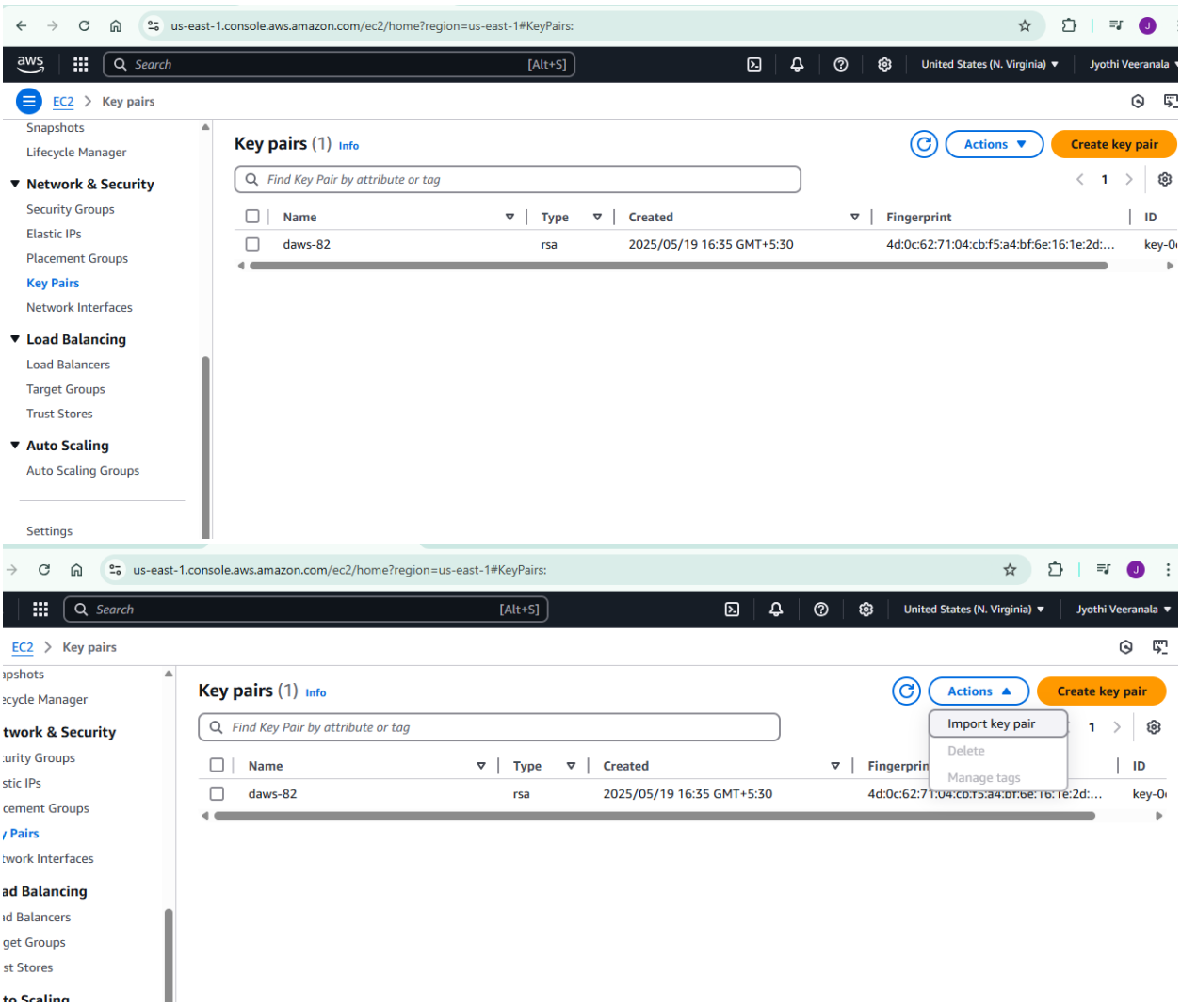


Now click on **Create Security group** now your network setting done.



KEY PAIR SETTING:

To set your public key Go to **key pairs** and then in Action choose **Import key pairs**



Name you file and provide you **public key** without spaces after that click on Update your keypair