Ganpat University
॥ विद्यया समाजोत्कर्षः ॥
Institute of Computer Technology

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Sub: CCE(Cloud Computing Essentials)

Branch: CBA

Batch:61

----------PRACTICAL 01----------

Bob is an ITAdministrator of SNS group Pvt limited is organized and wants to be adopted as Infrastructure as a Service (IAAS) using AWS cloud solution. Their majority of clients are e-commerce and OTP service providers. Initially, they want to set up three virtual Linux servers using Amazon EC2 which can be resizable and provide compute capacity along with a web-scale cloud computing solution. Bob is planning to create IAAS as below for E-Commerce clients.

You are required to provide the solution Bob with proper step by step demonstration.

Consider the following attached scenario and perform the following tasks using AWS EC2 Service:

• Launch a web server with termination protection enabled

• Monitor Your EC2 instance

• Modify the security group that your web server is using to allow HTTP access

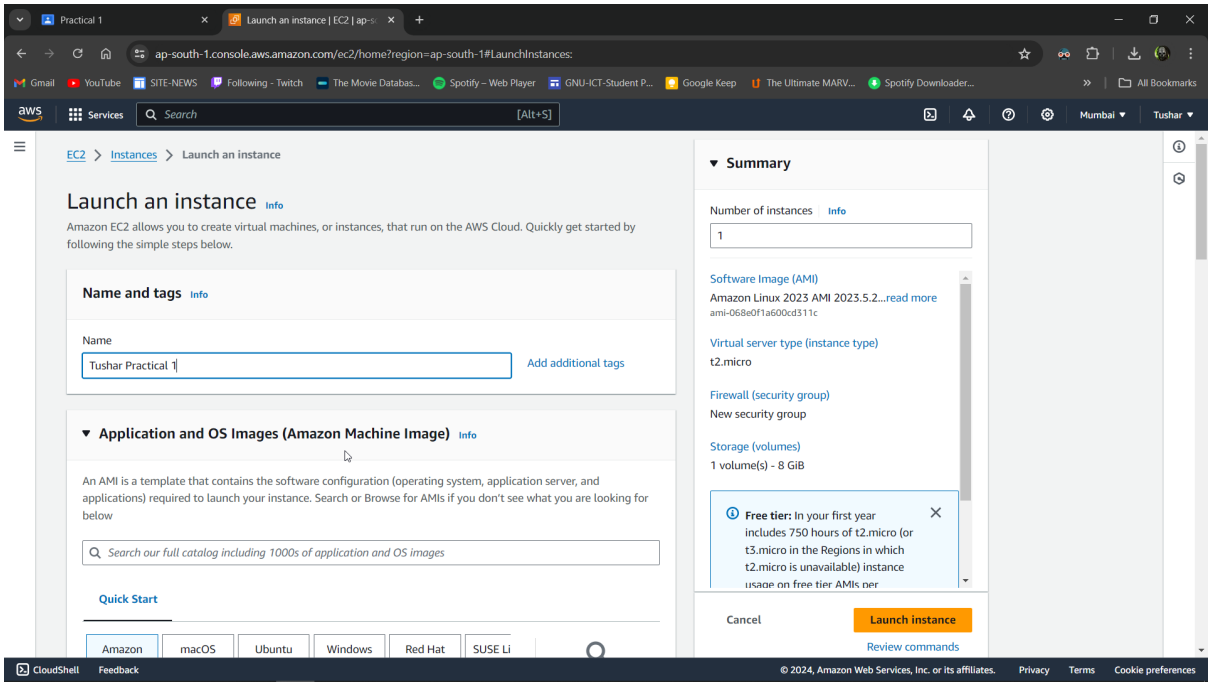
• Resize your Amazon EC2 instance to scale

• Explore EC2 limits

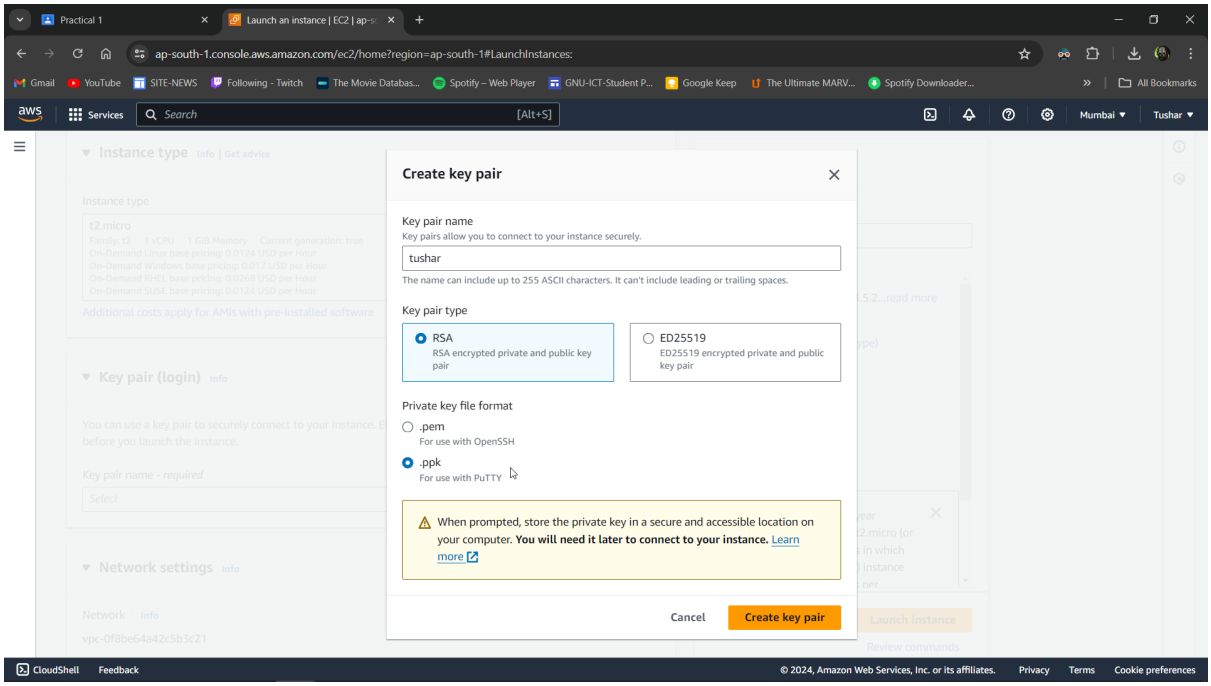
• Test termination protection • Terminate your EC2 instance

First log in to AWS console and then search for EC2 in search box .

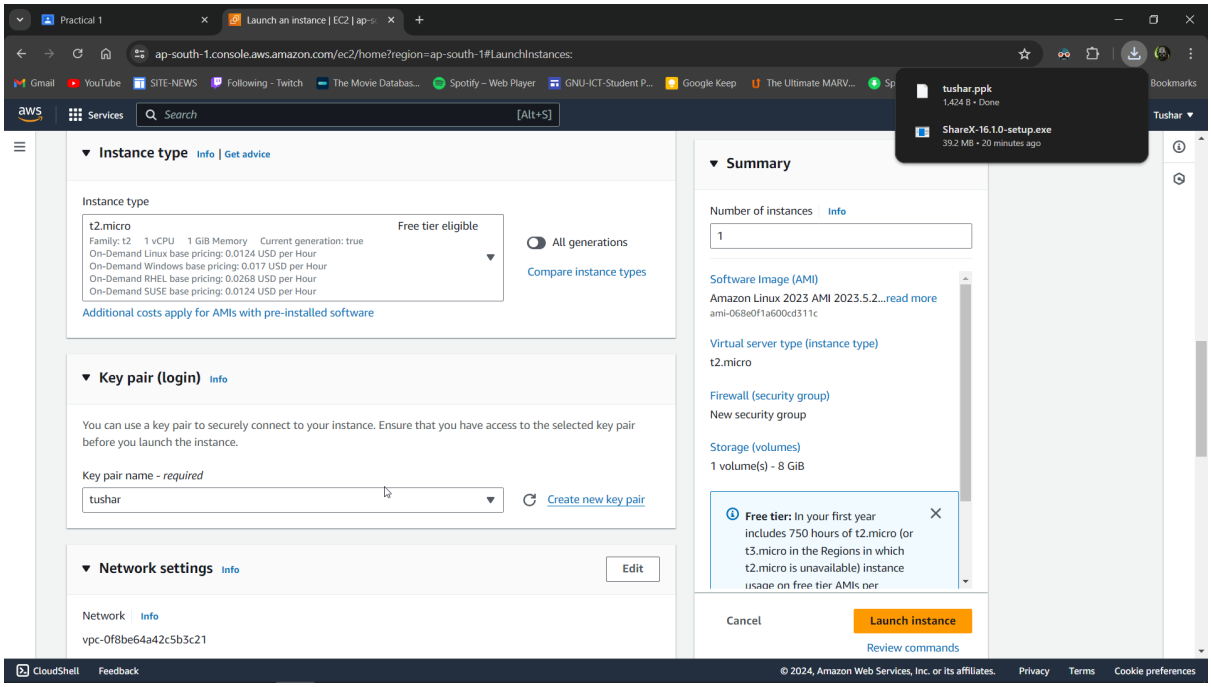
Then hit on launch instance then give a name to a instance



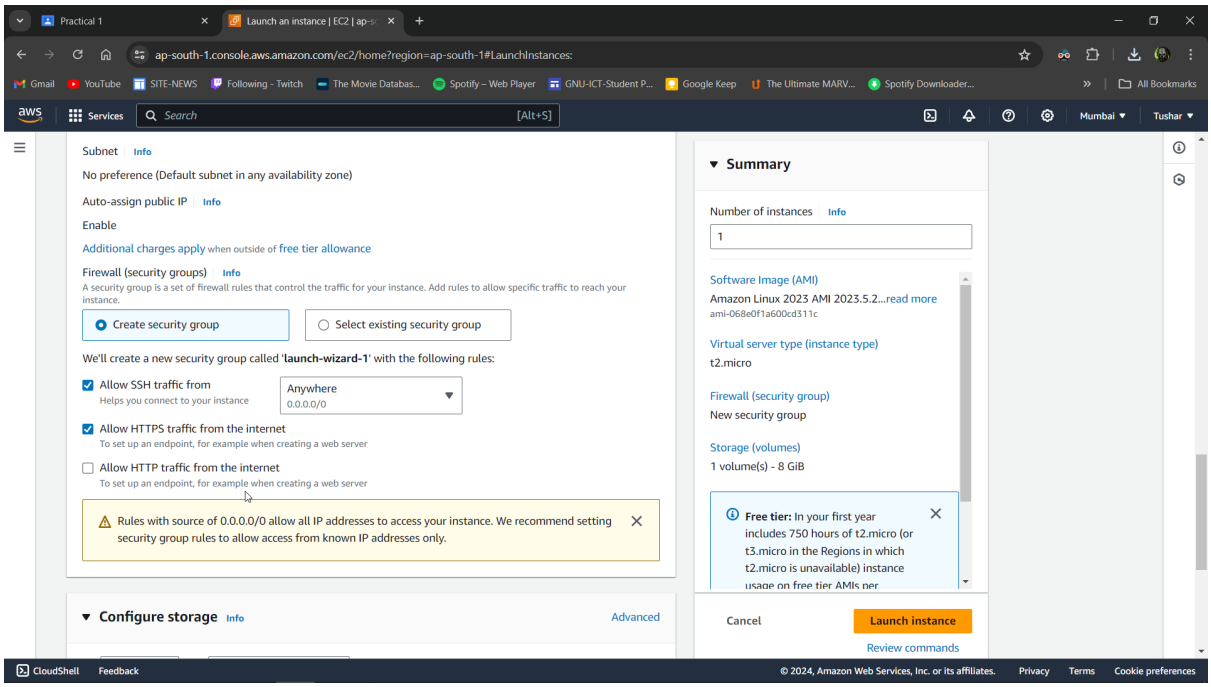
Then select OS Image and create new key pair for windows select .ppk



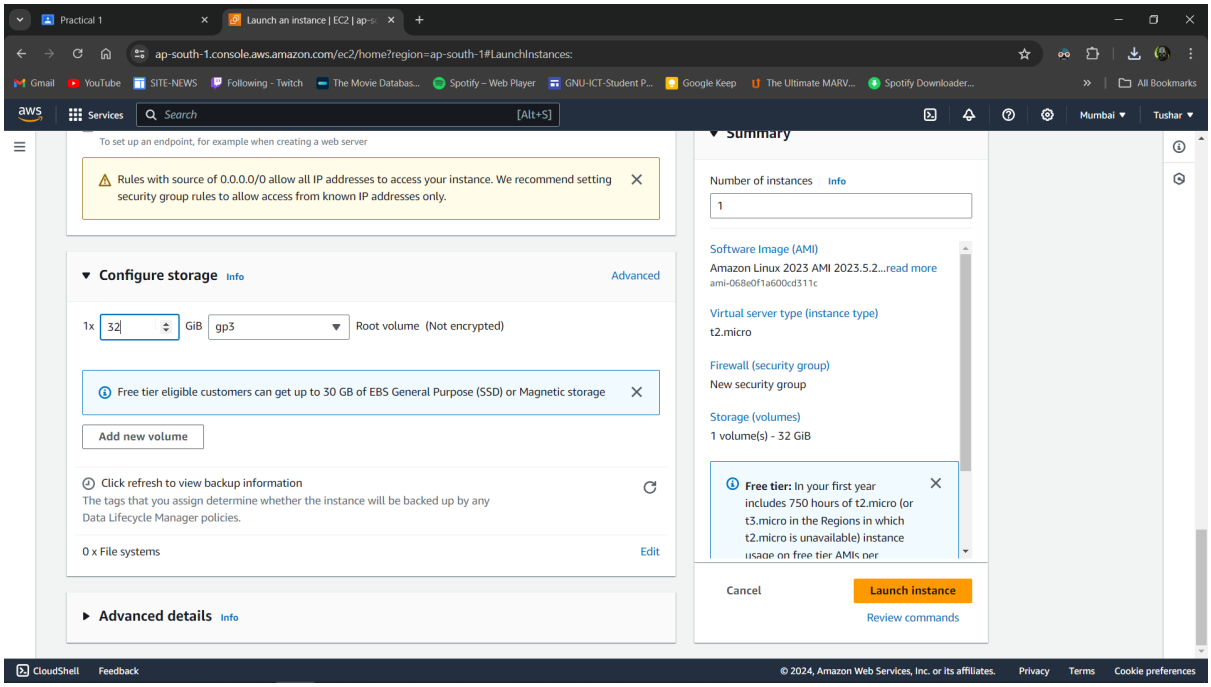
Then select instance type and select key pair that you have created



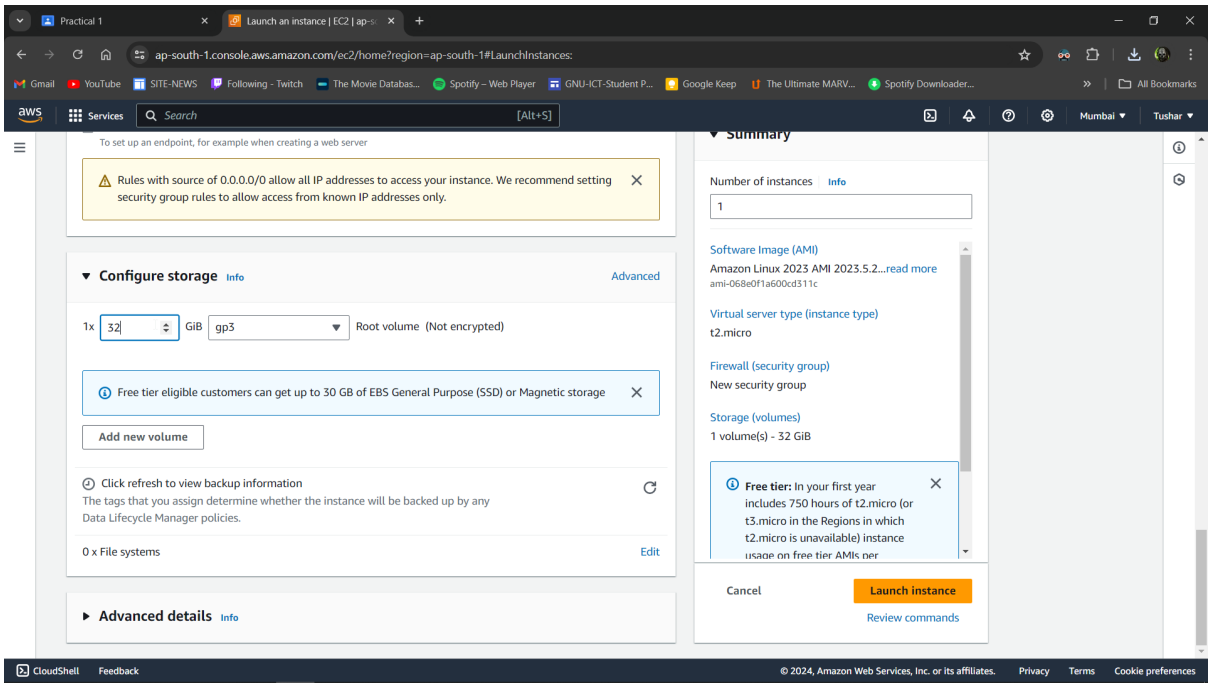
Then allow HTTPS traffic from the internet



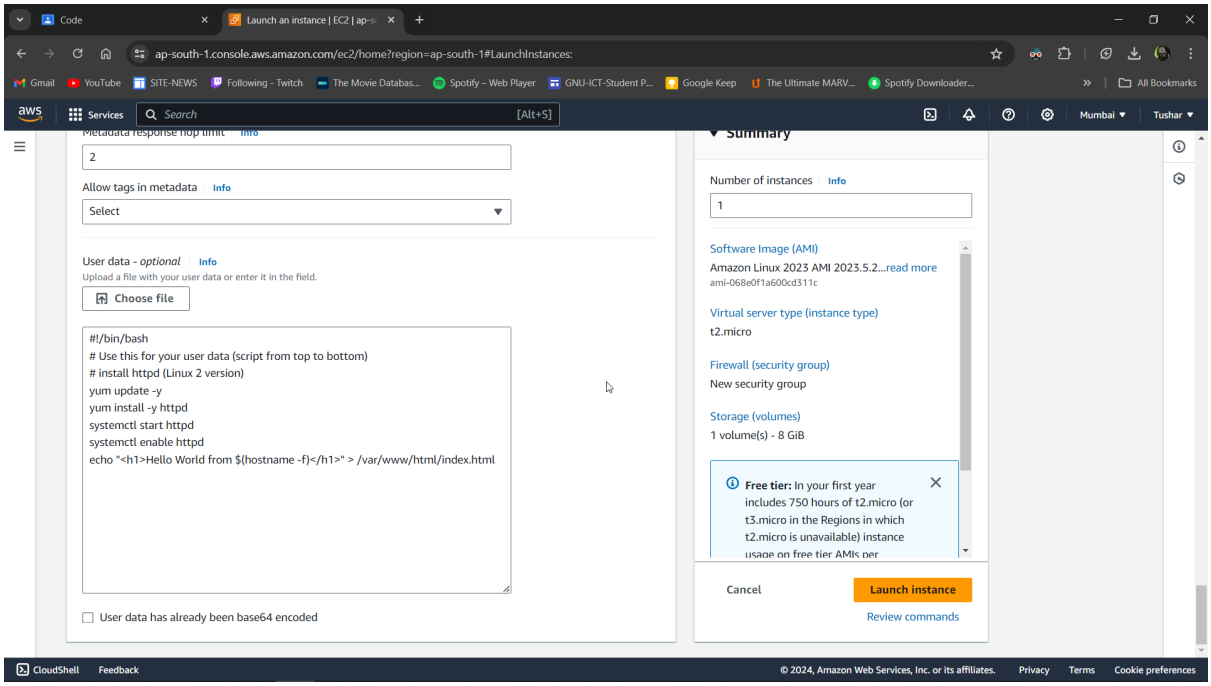
Then configure storage to 32gb



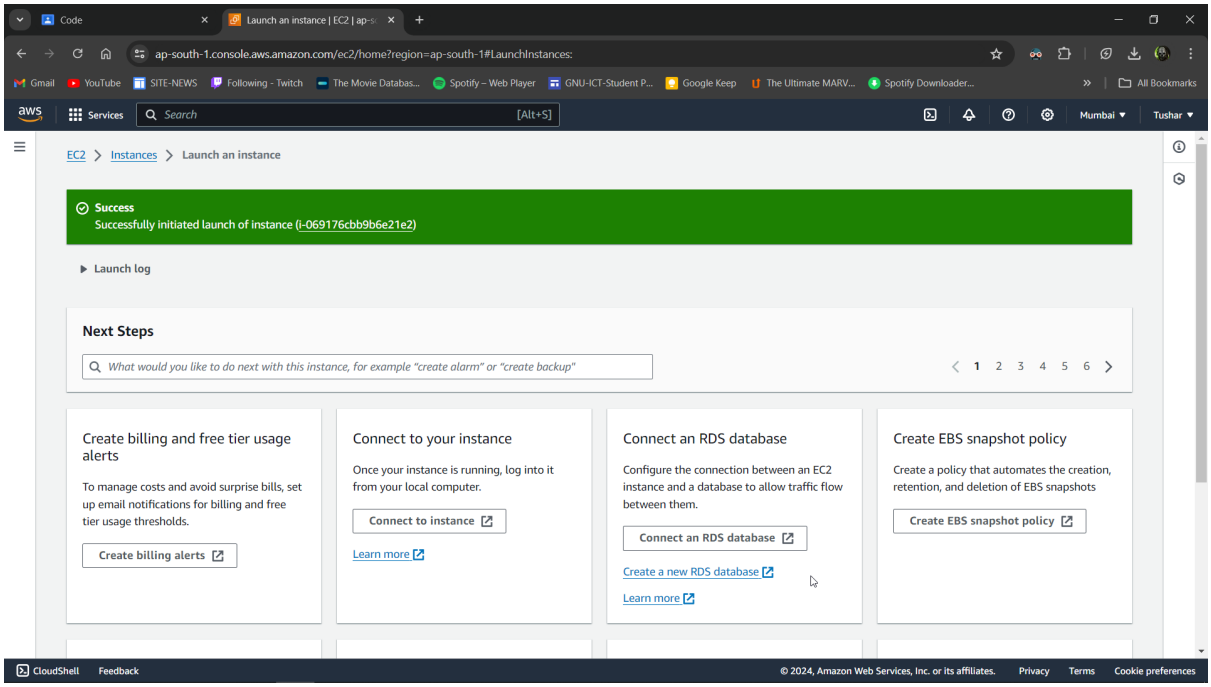
Then in advanced details enable termination protection



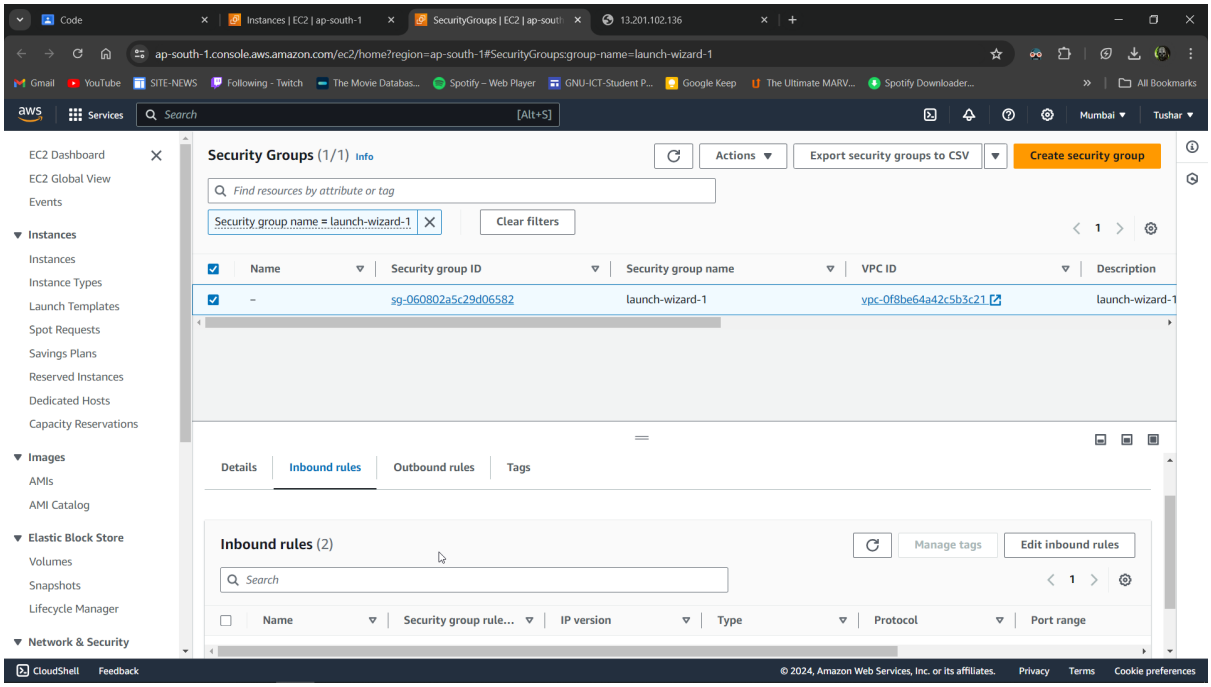
And then in user data paste code (this code install apache server and show us hello world msg in web)



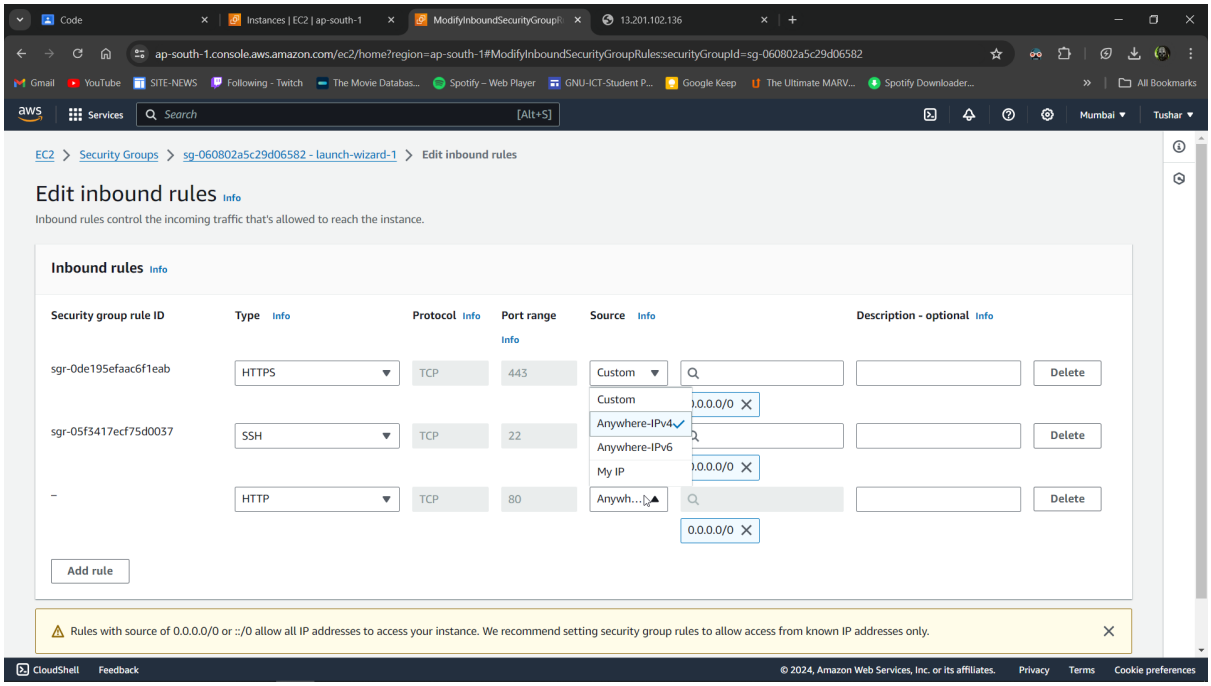
Then hit launch instance and you will see instance in launched successfully



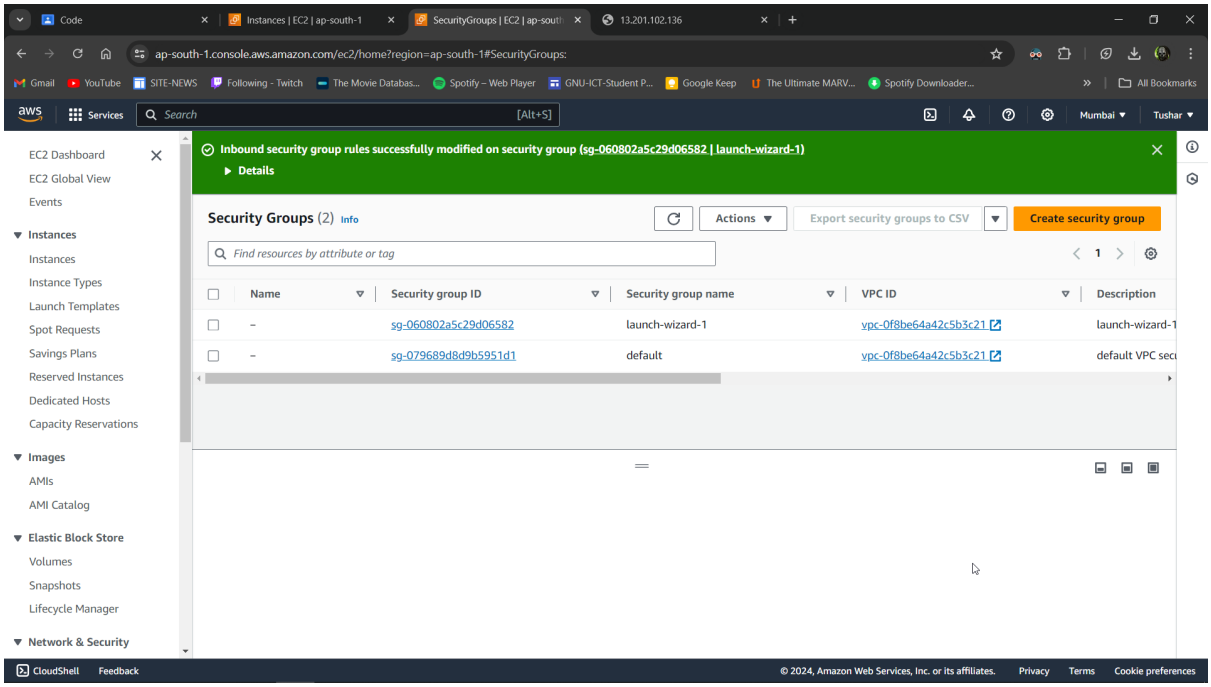
Then go to inbound rules



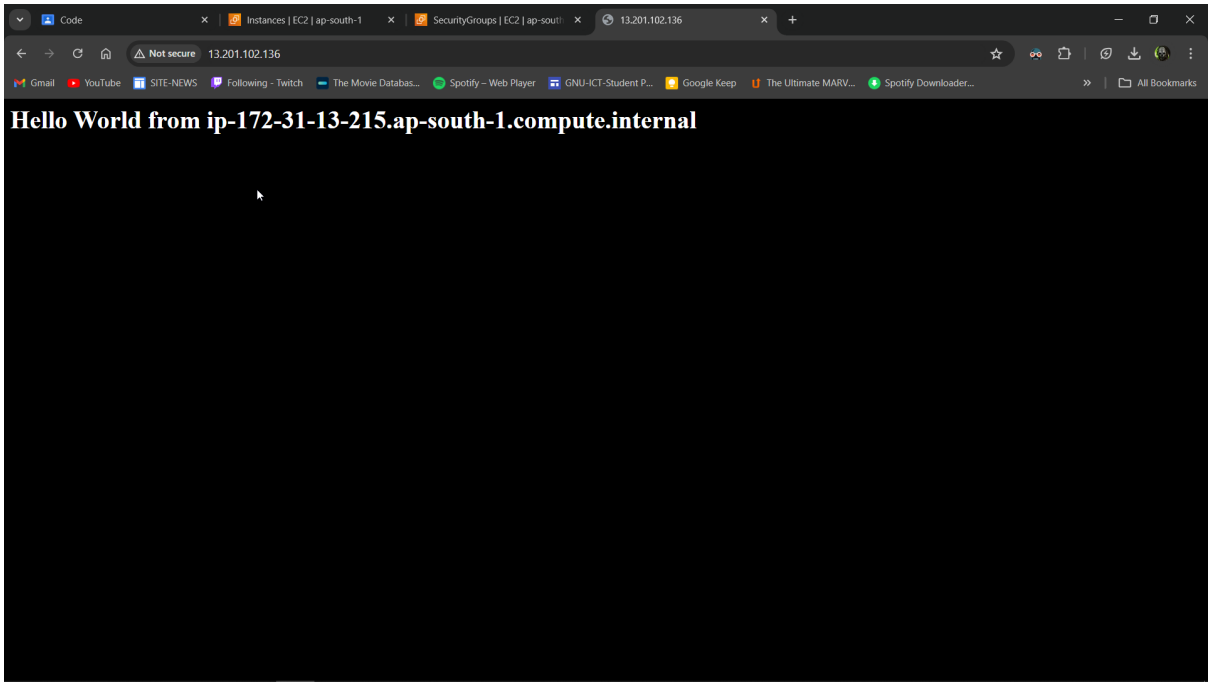
And hit edit rules and add new rule and select http and in source select anywhere ipv4



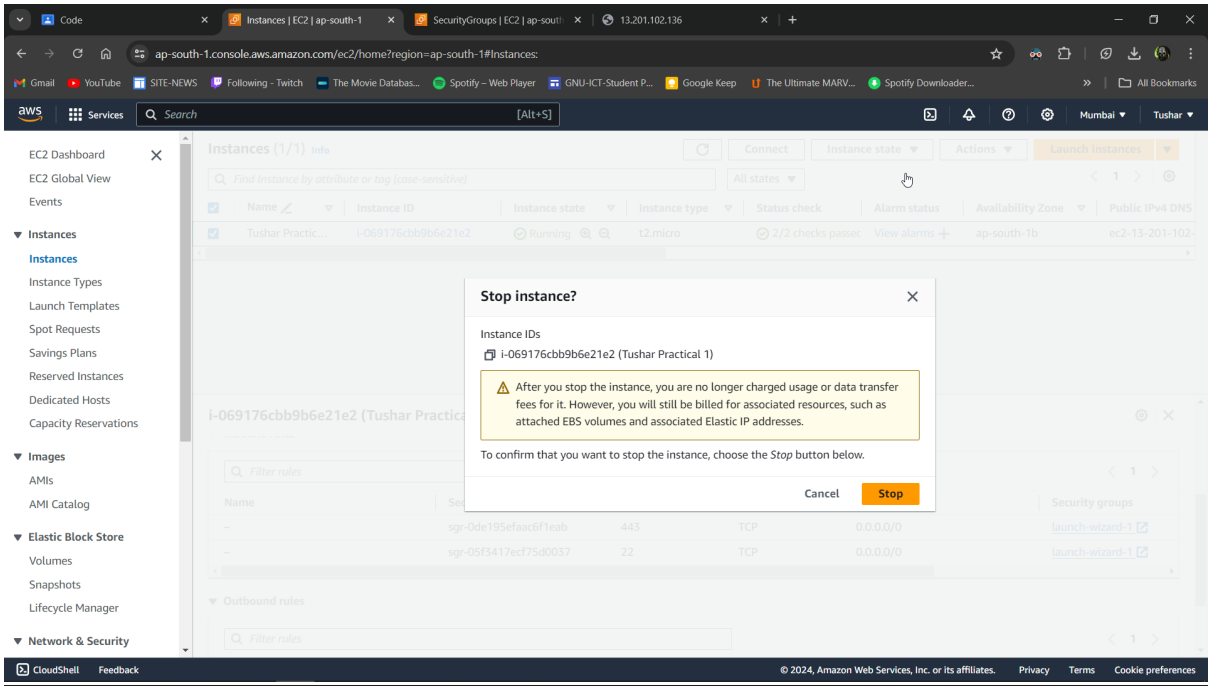
Then hit save rules

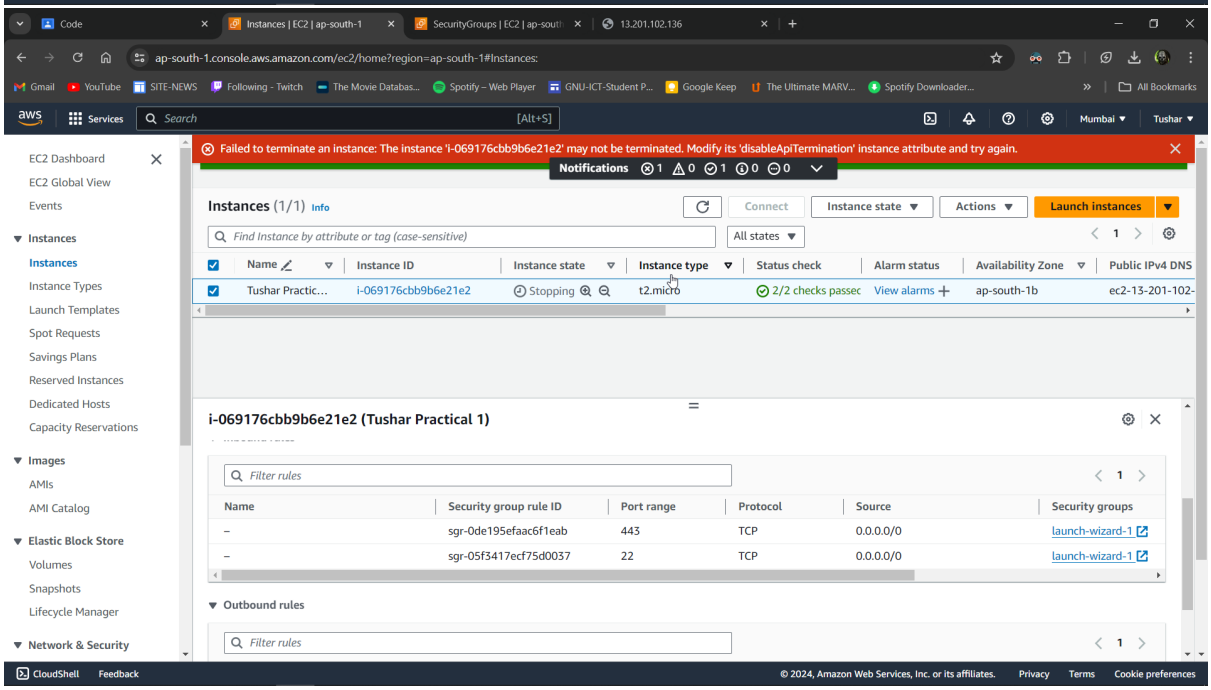


Now if you go through your instance endpoint you will be able to see our code has been loaded (HTML)

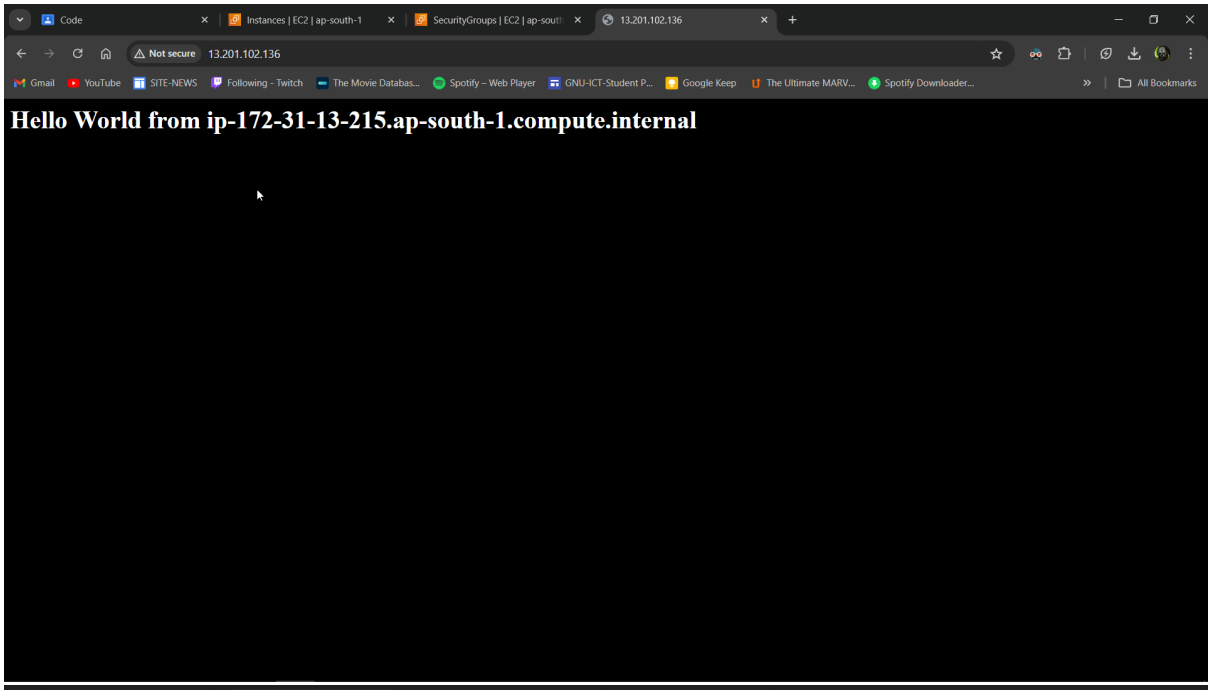


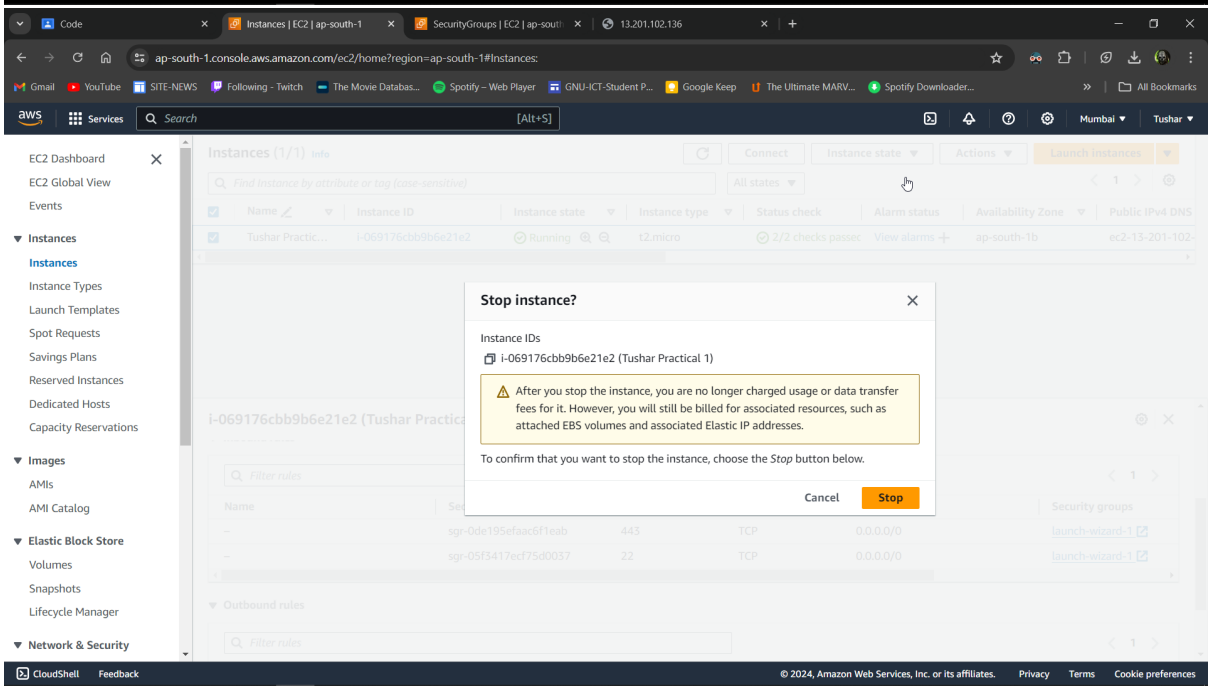
Now try to stop instance you will face error because we enabled termination protection

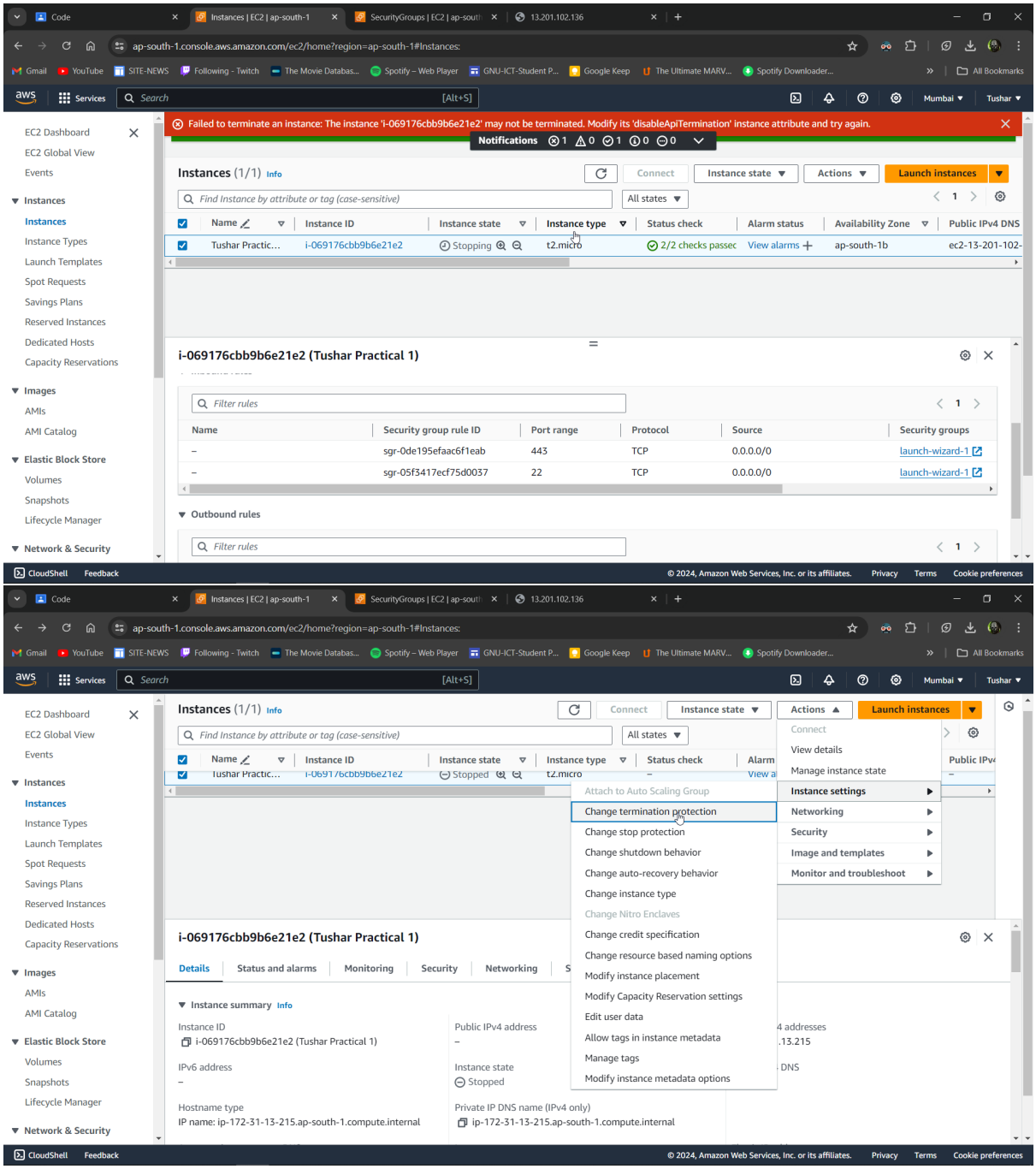




Now disable termination protection and you will be able to termination that instance






Failed to terminate an instance: The instance 'i-069176cbb9b6e21e2' may not be terminated. Modify its 'disableApiTermination' instance attribute and try again.
Instances (1/1) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
Tushar Practic...
i-069176cbb9b6e21e2
Stopping
t2.micro
2/2 checks passec
View alarms
ap-south-1b
ec2-13-201-102-
i-069176cbb9b6e21e2 (Tushar Practical 1)
Filter rules
Name
Security group rule ID
Port range
Protocol
Source
Security groups
sgr-0de195efaac6f1eab
443
TCP
0.0.0.0/0
launch-wizard-1
sgr-05f3417ecf75d0037
22
TCP
0.0.0.0/0
launch-wizard-1
Outbound rules
EC2 Dashboard
EC2 Global View
Events
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
CloudShell
Feedback
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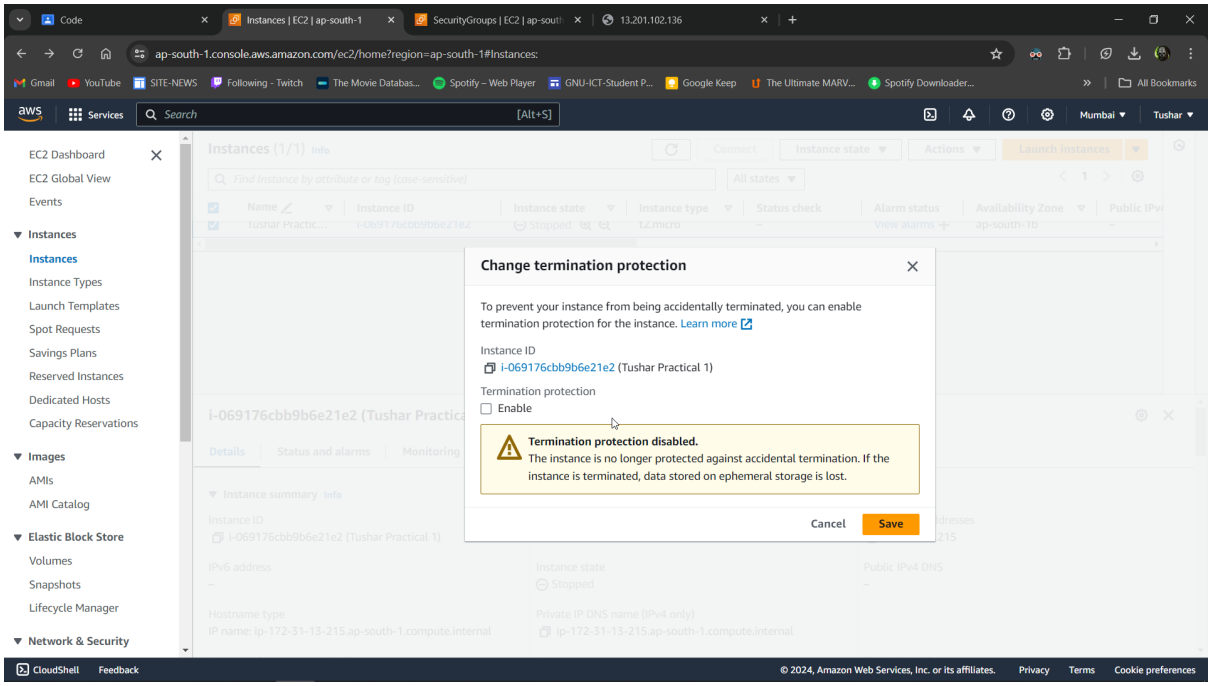
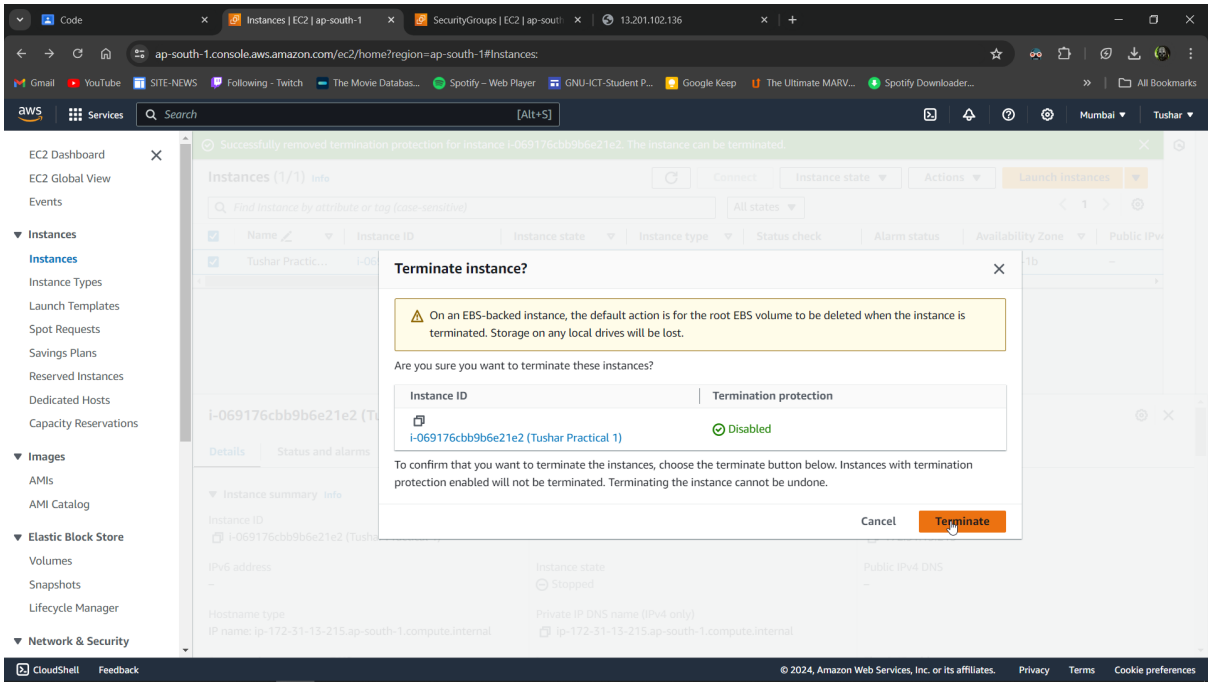
Privacy
Terms
Cookie preferences

Instances (1/1) Info
Connect
Instance state
Actions
Launch instances
Connect
View details
Manage instance state
Attach to Auto Scaling Group
Change termination protection
Change stop protection
Change shutdown behavior
Change auto-recovery behavior
Change instance type
Change Nitro Enclaves
Change credit specification
Change resource based naming options
Modify instance placement
Modify Capacity Reservation settings
Edit user data
Allow tags in instance metadata
Manage tags
Modify instance metadata options
Instance settings
Networking
Security
Image and templates
Monitor and troubleshoot
i-069176cbb9b6e21e2 (Tushar Practical 1)
Details
Status and alarms
Monitoring
Security
Networking
Instance summary Info
Instance ID
i-069176cbb9b6e21e2 (Tushar Practical 1)
Public IPv4 address
IPv6 address
Instance state
Stopped
Hostname type
IP name: ip-172-31-13-215.ap-south-1.compute.internal
Private IP DNS name (IPv4 only)
ip-172-31-13-215.ap-south-1.compute.internal


Change termination protection
To prevent your instance from being accidentally terminated, you can enable termination protection for the instance. Learn more
Instance ID
i-069176cbb9b6e21e2 (Tushar Practical 1)
Termination protection
Enable
Termination protection disabled.
The instance is no longer protected against accidental termination. If the instance is terminated, data stored on ephemeral storage is lost.
Cancel
Save


Terminate instance?
On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost.
Are you sure you want to terminate these instances?
Instance ID
Termination protection
i-069176cbb9b6e21e2 (Tushar Practical 1)
Disabled
To confirm that you want to terminate the instances, choose the terminate button below. Instances with termination protection enabled will not be terminated. Terminating the instance cannot be undone.
Cancel
Terminate

After disabling termination protection we can be able to terminate our instance