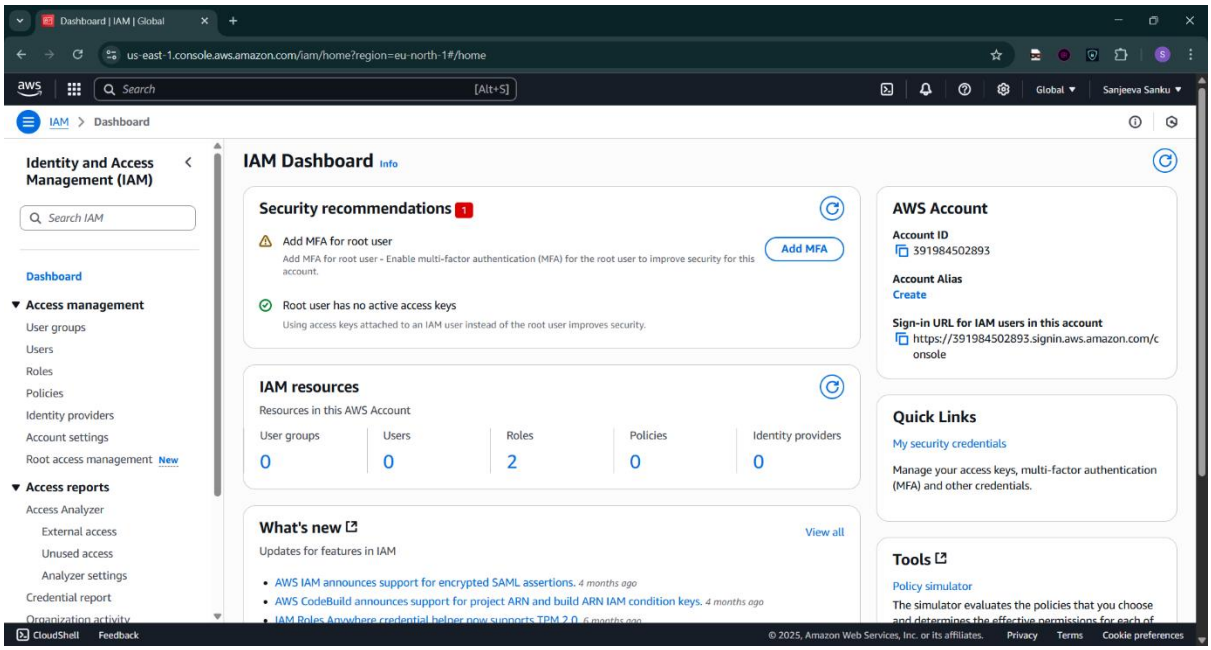
AWS IAM

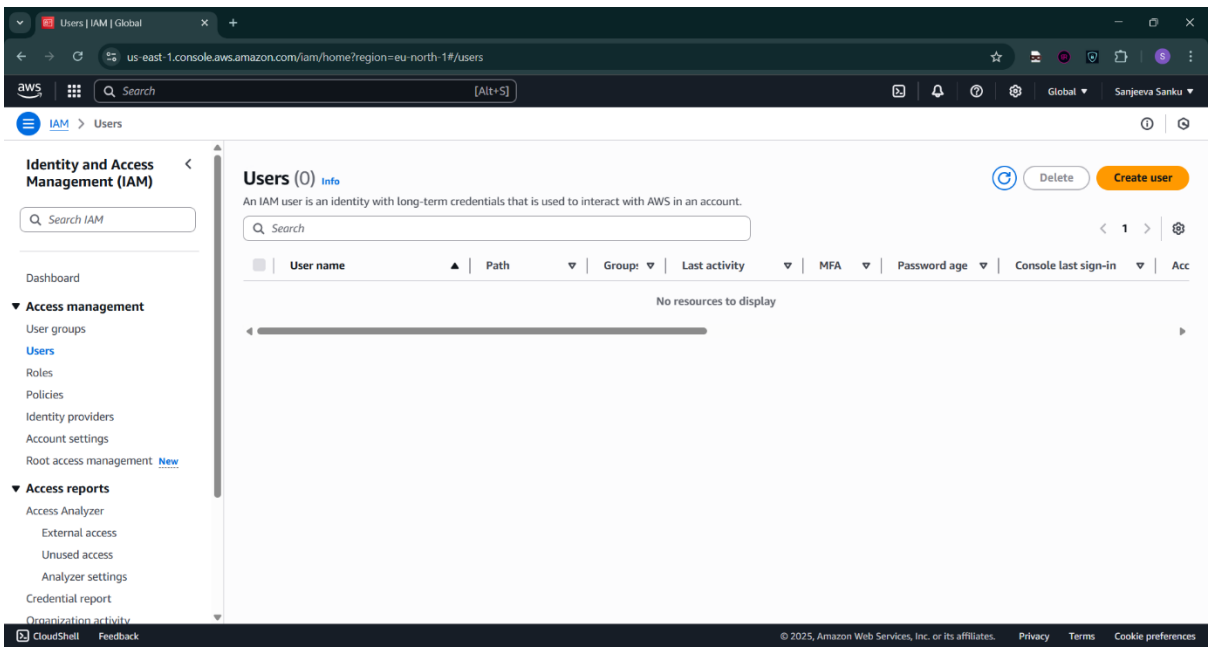
AWS Identity and Access Management (IAM) is a web service that enables secure control over access to AWS resources. It allows you to create and manage user authentication, and limit access to specific AWS resources.

1.Creating user with name – Sanjeeva and giving ec2 full access

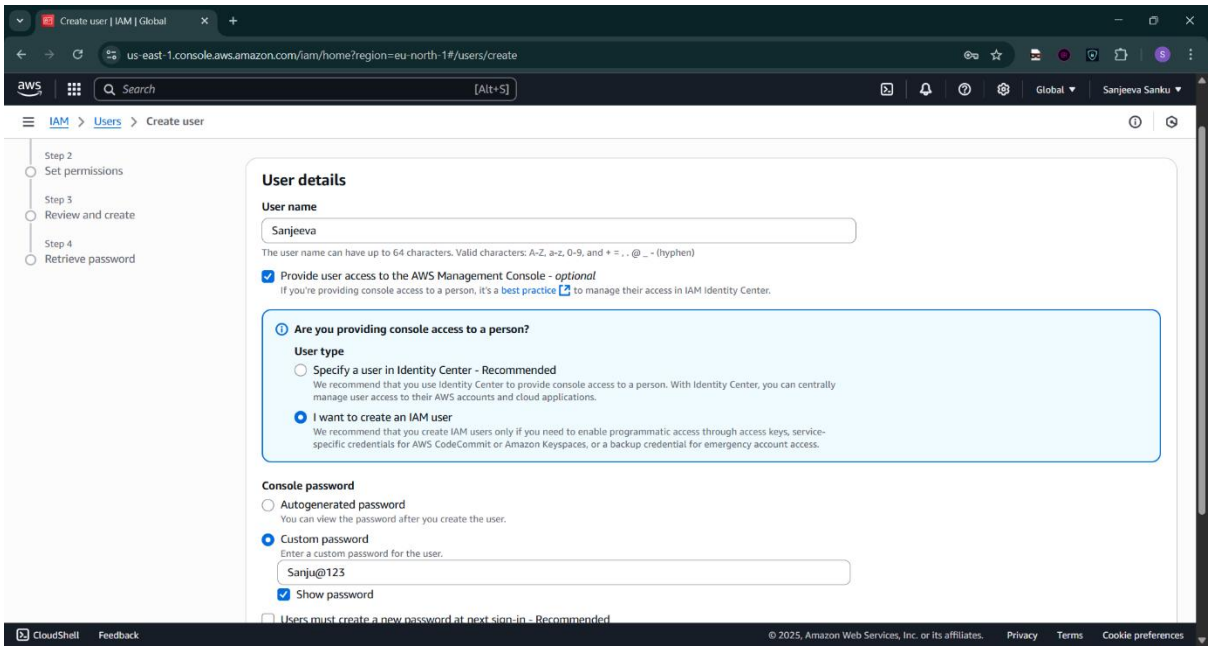
Login to the root user



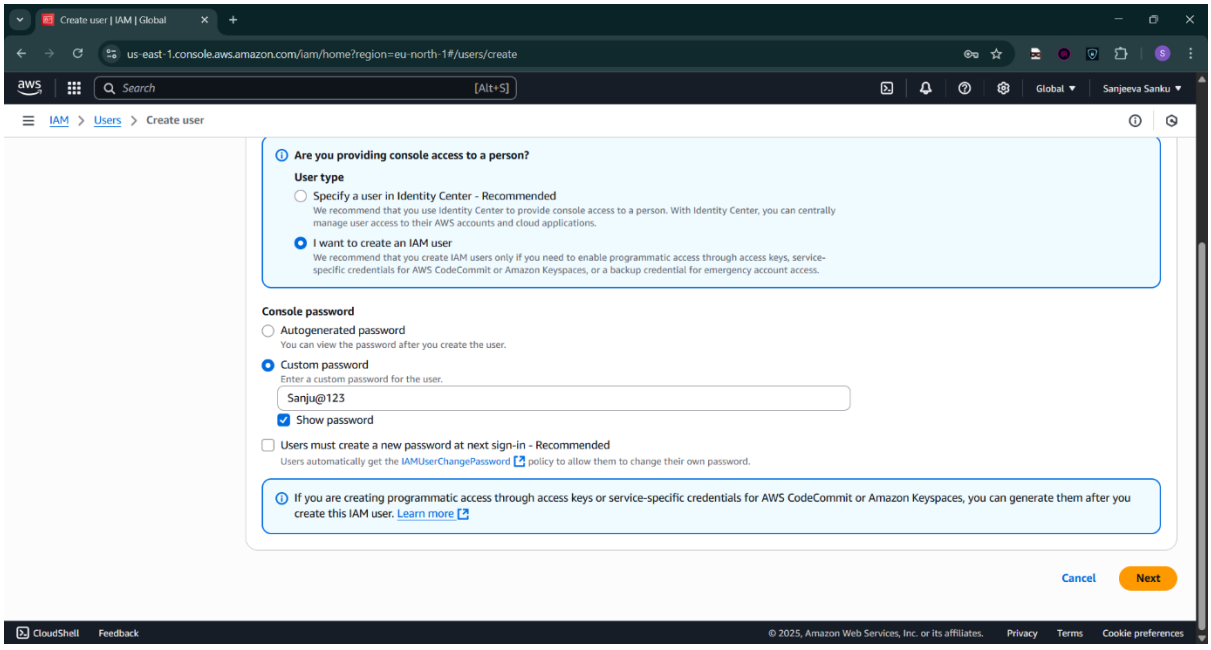
Click on Users on the side bar and click on create user



Give user name as Sanjeeva, and provide user access to the Aws Management console so that they can view console, and create an IAM user with custom password.

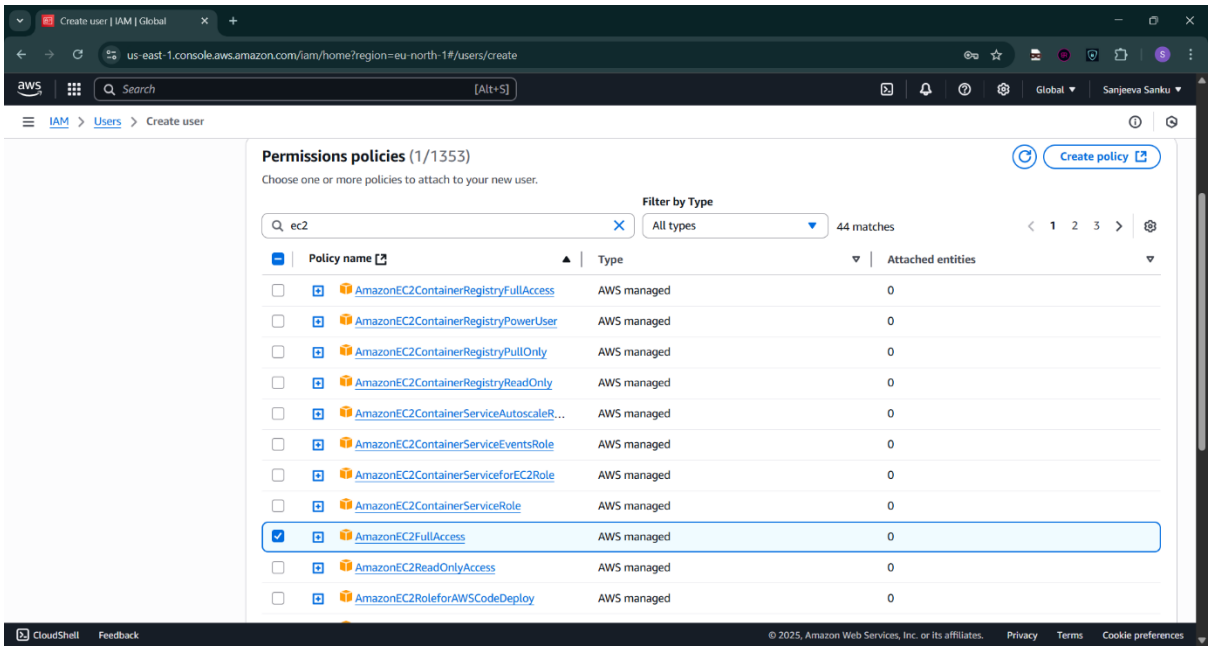


Uncheck the users much create a new password at next sign in it is not needed.

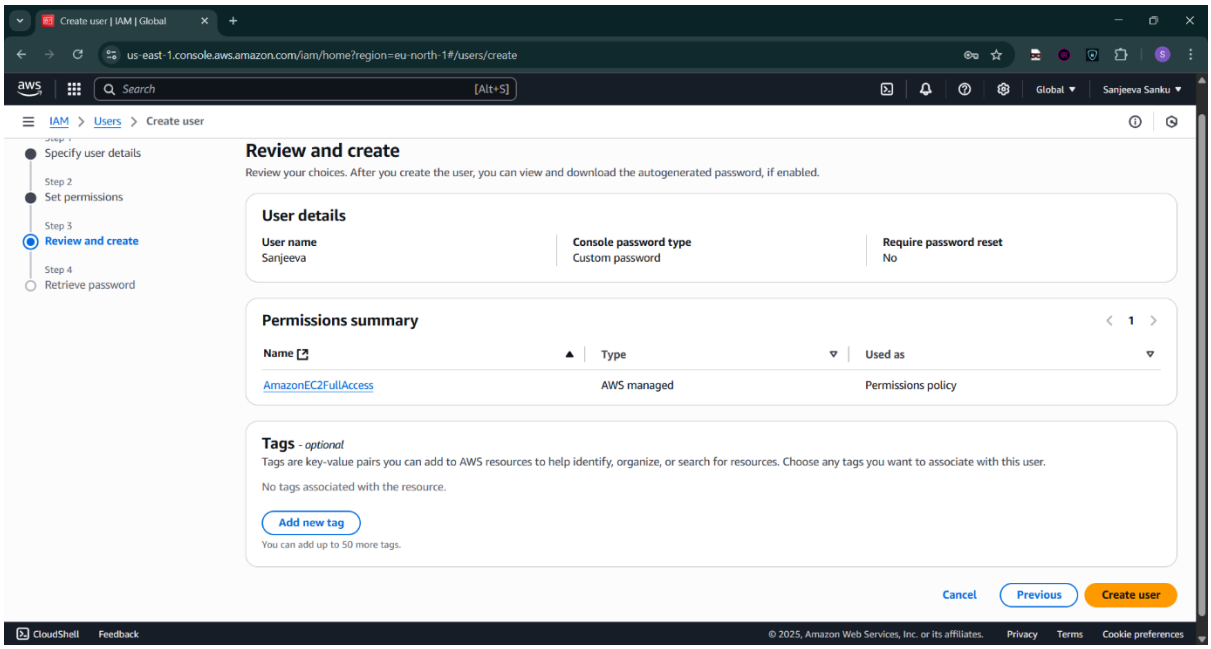


After clicking on next it will show 3 options Add user to group , copy permissions, Attach policies directly, since we don't have group we will go for attach policies directly

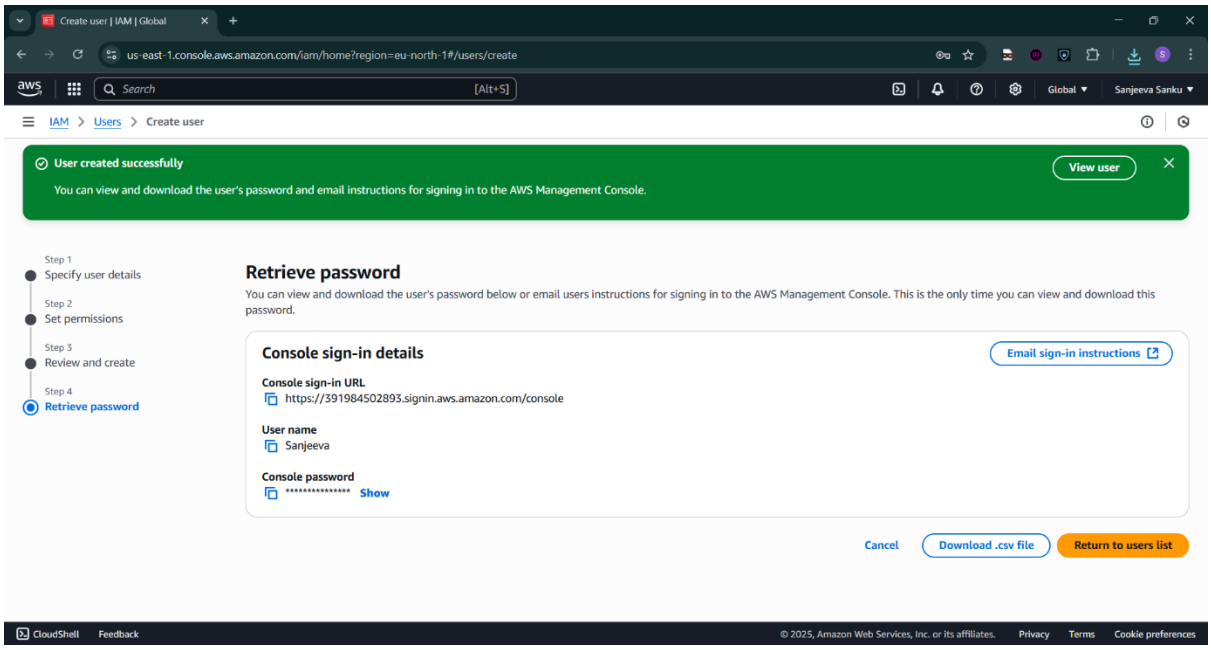
And give AmazonEC2FullAccess



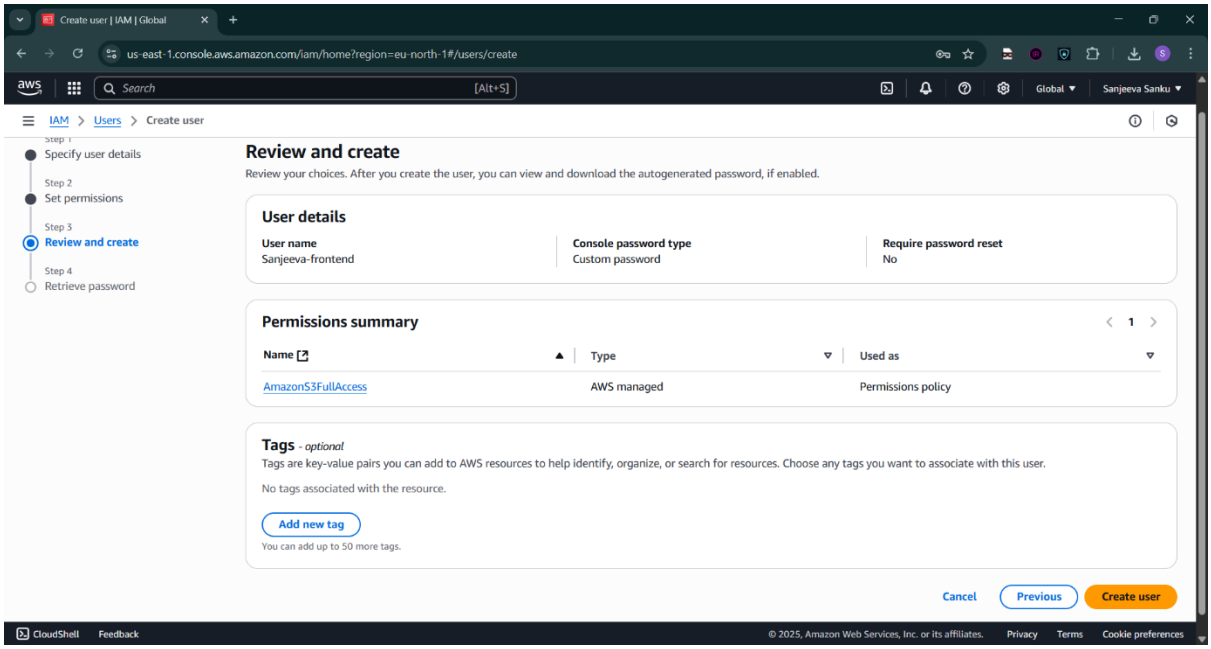
Click on next to review and create the user



We can download .csv file for the credentials

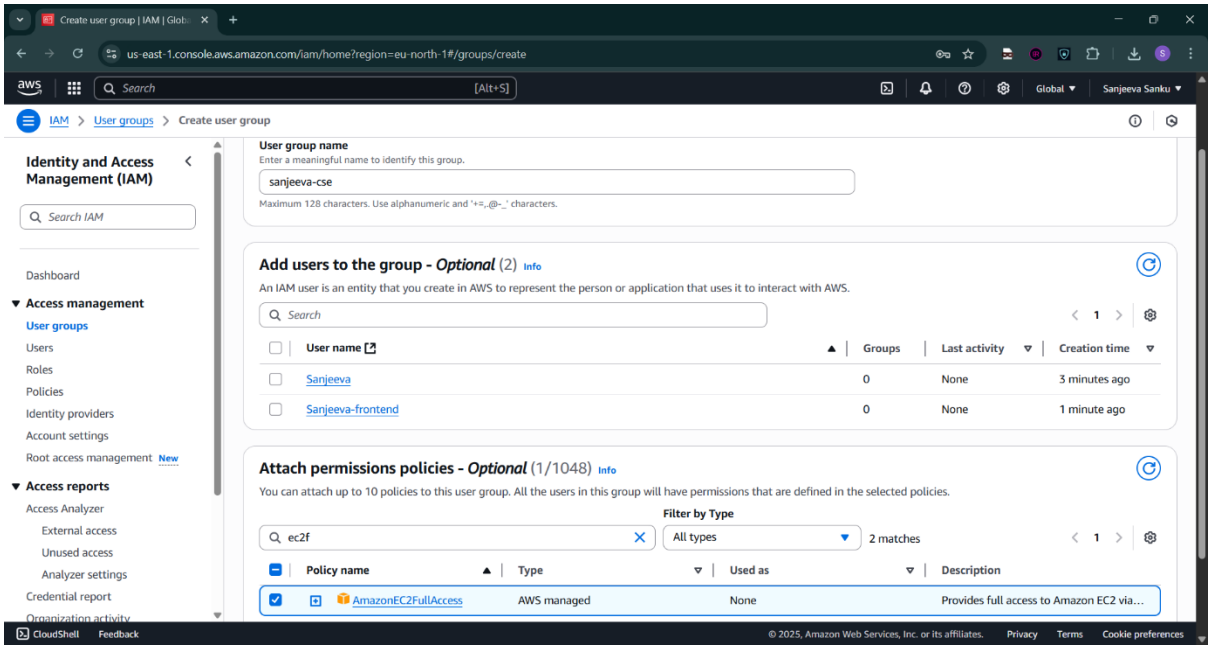


Next create a user named Sanjeeva-frontend and five AmazonS3FullAccess



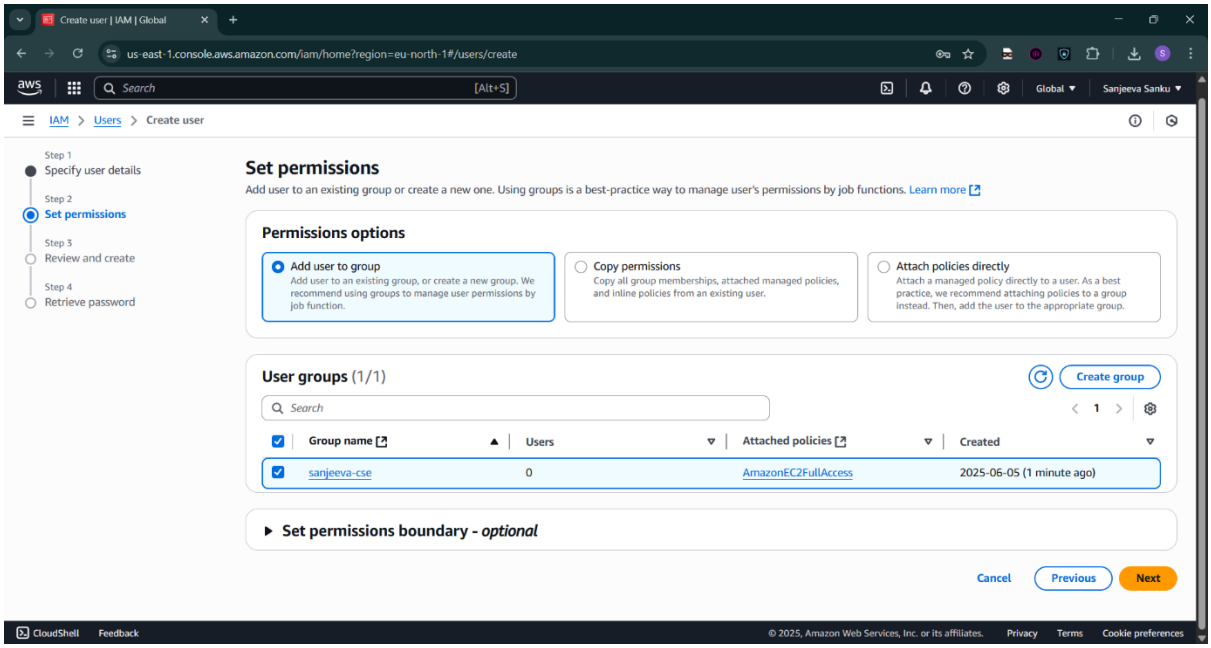
2.Creting a Group and adding xyz user to it

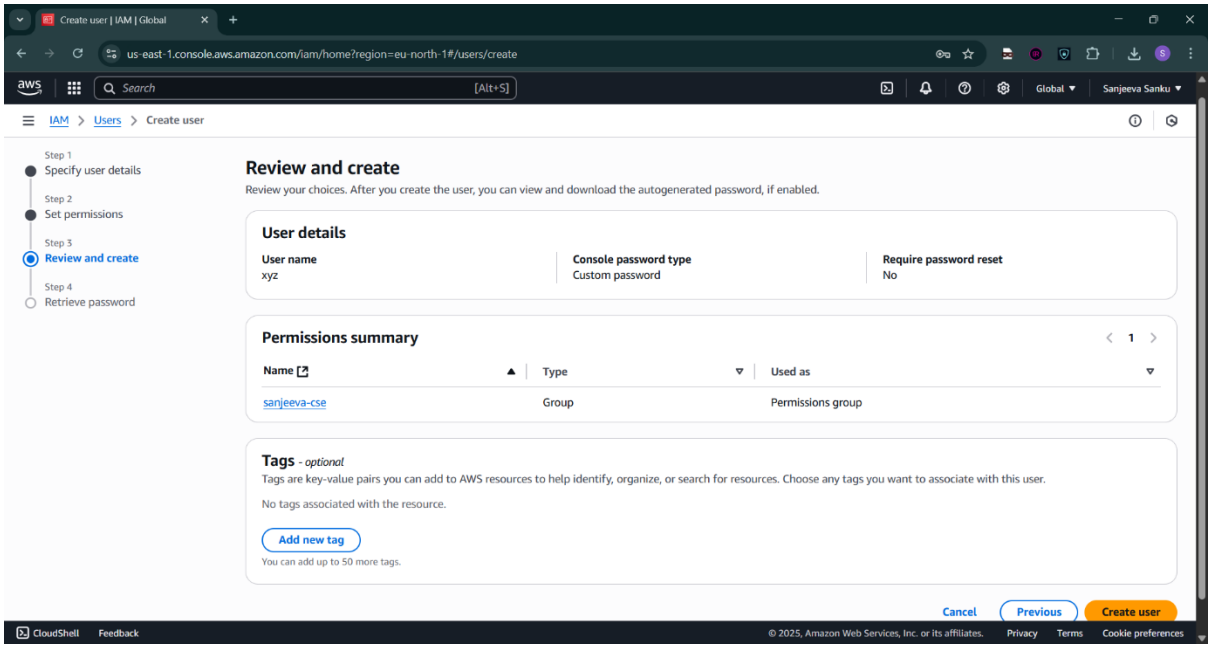
Now go to User groups and create group and give name sanjeeva-cse and attach permissions policies AmazonEC2FullAccess



Now create user with name xyz and now choose option add user to group.

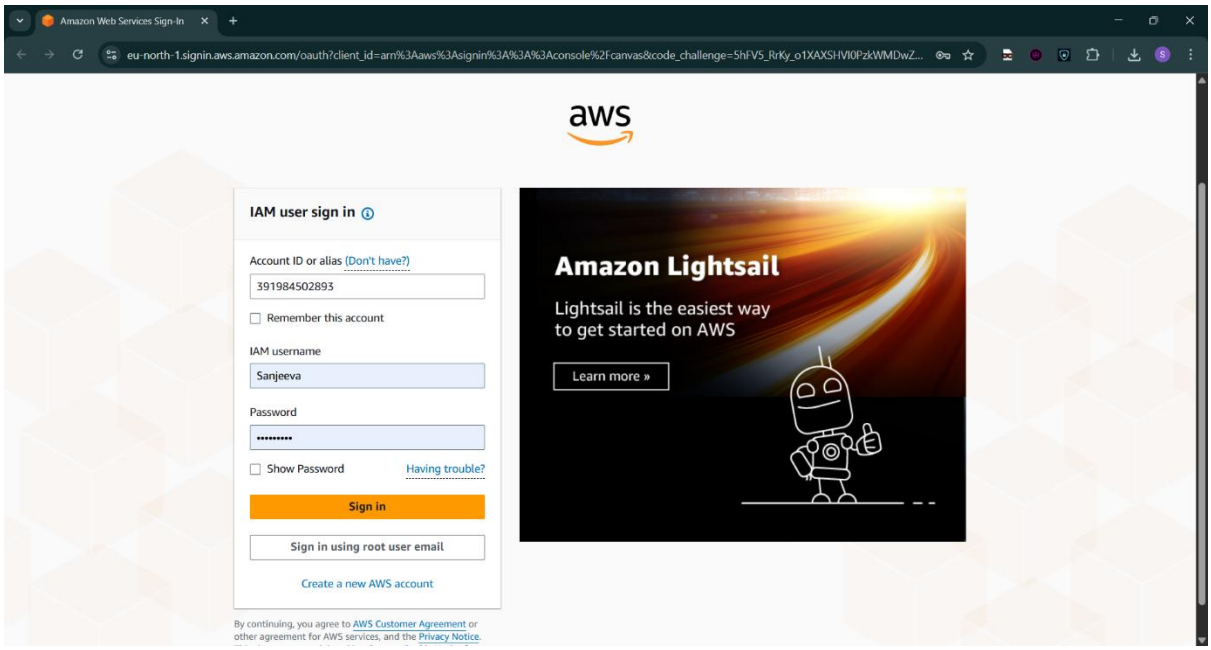
Choose sanjeeva-cse



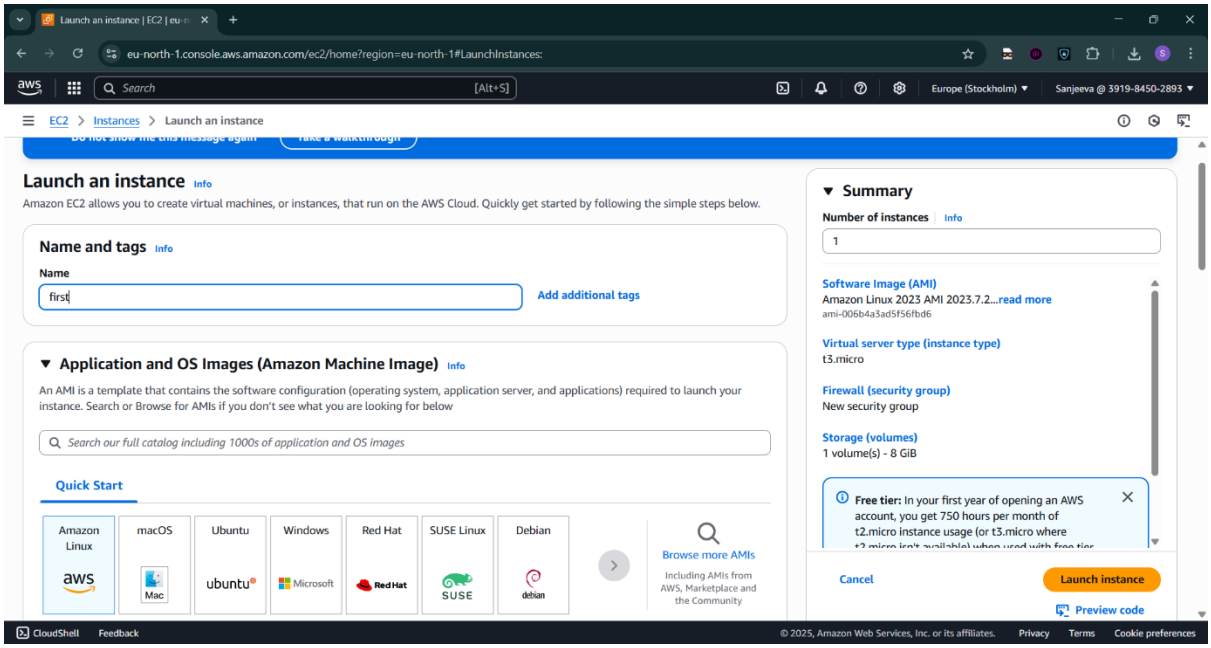


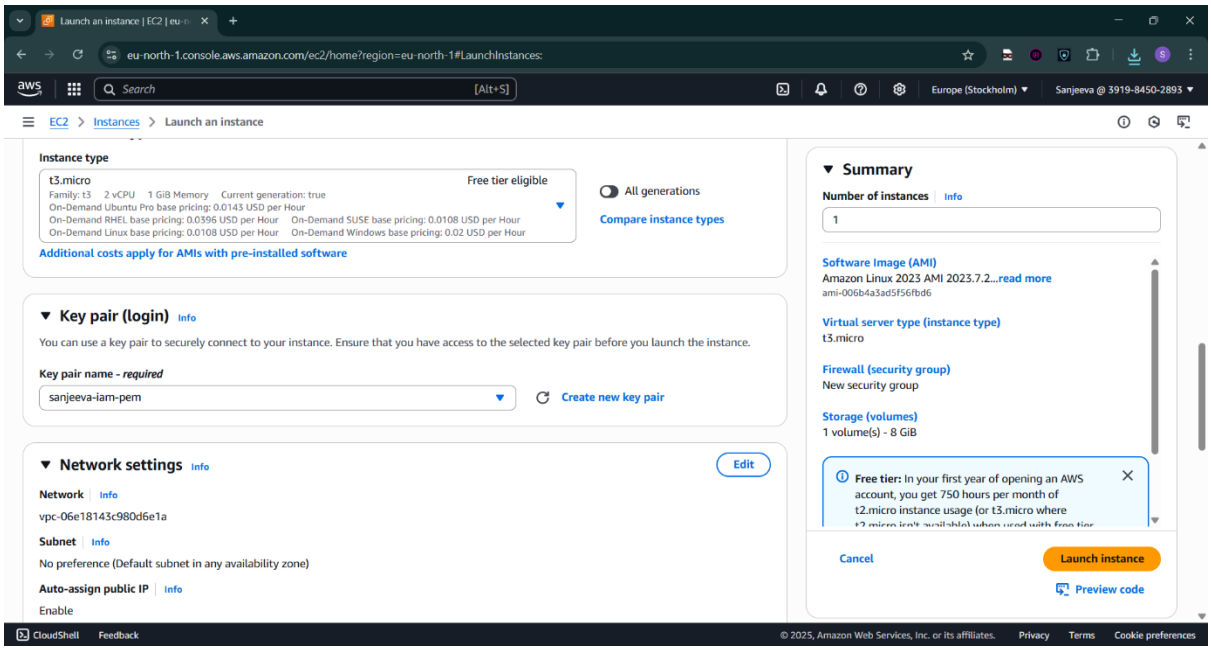
3.Login all ther IAM users and check their access

Sanjeeva has AmazonEC2FullAccess

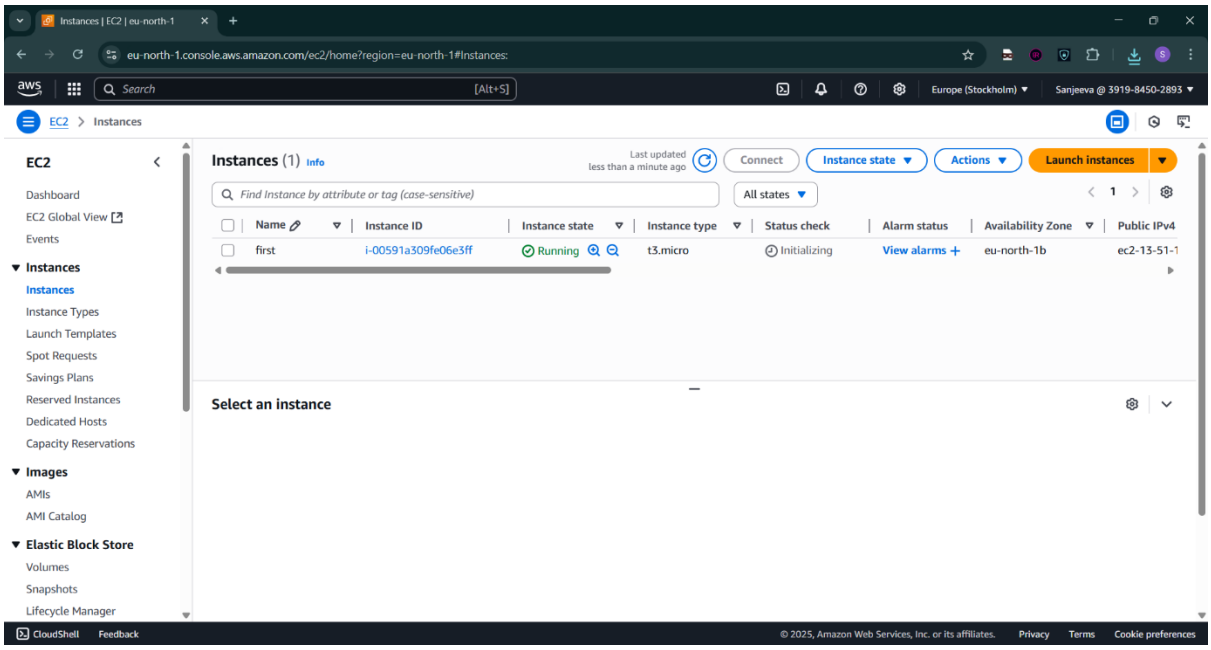


Try to create EC2 instance

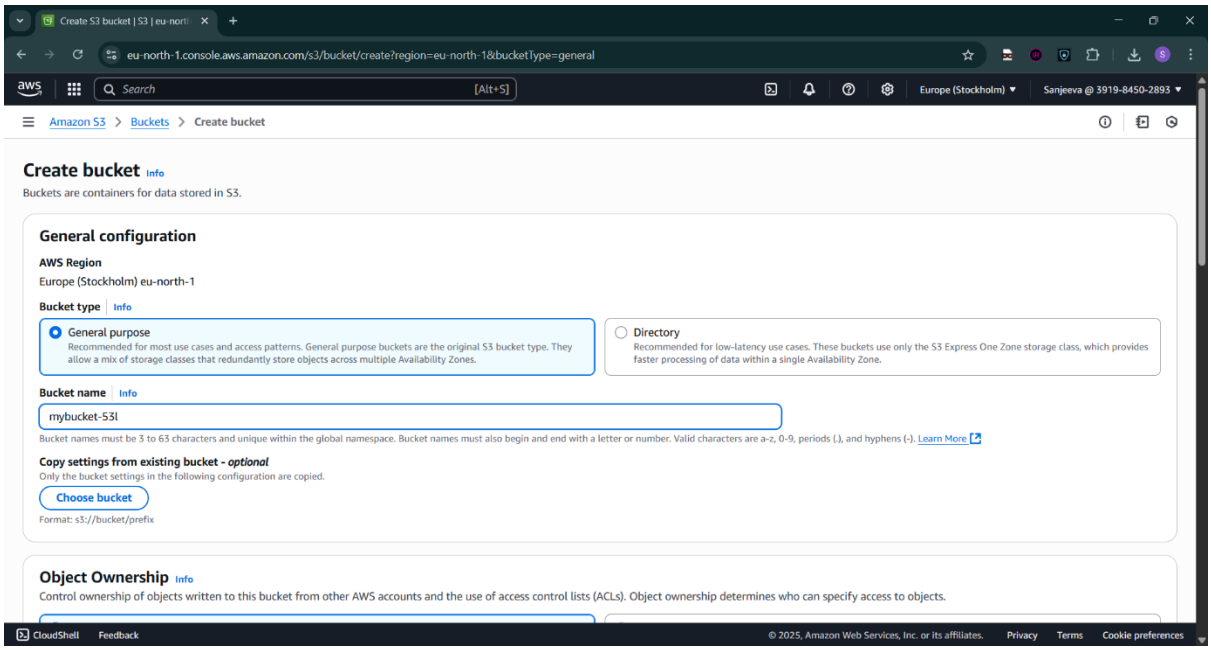




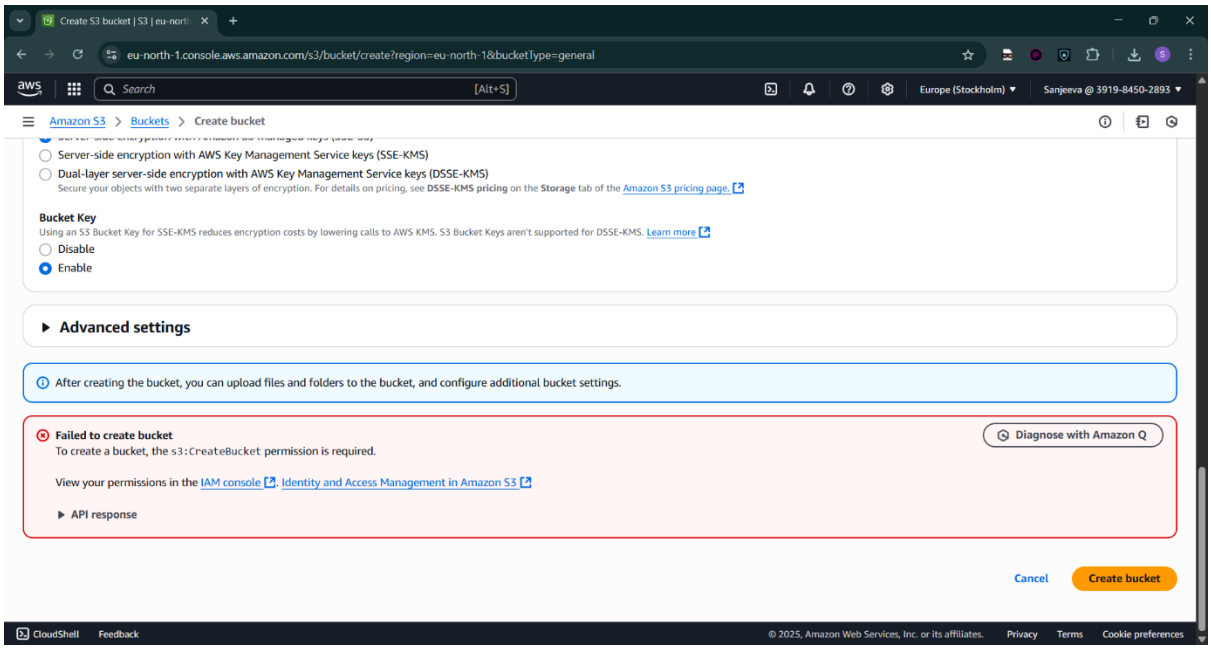
We can see that it is created.



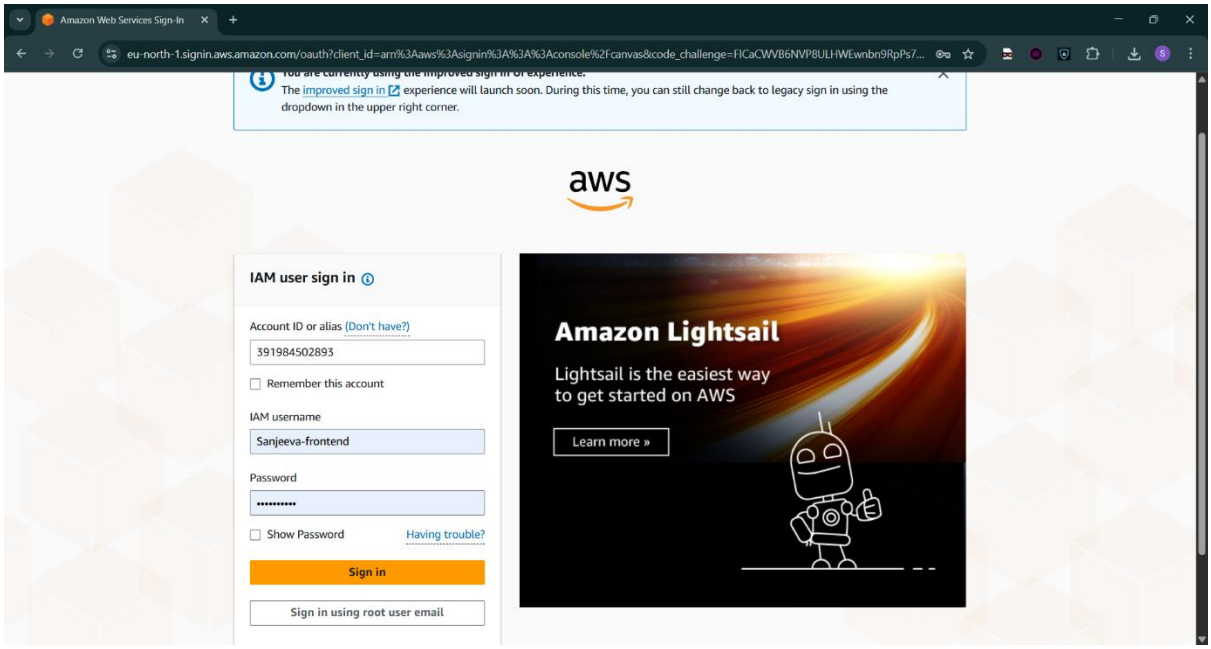
Now let us try to create S3bucket



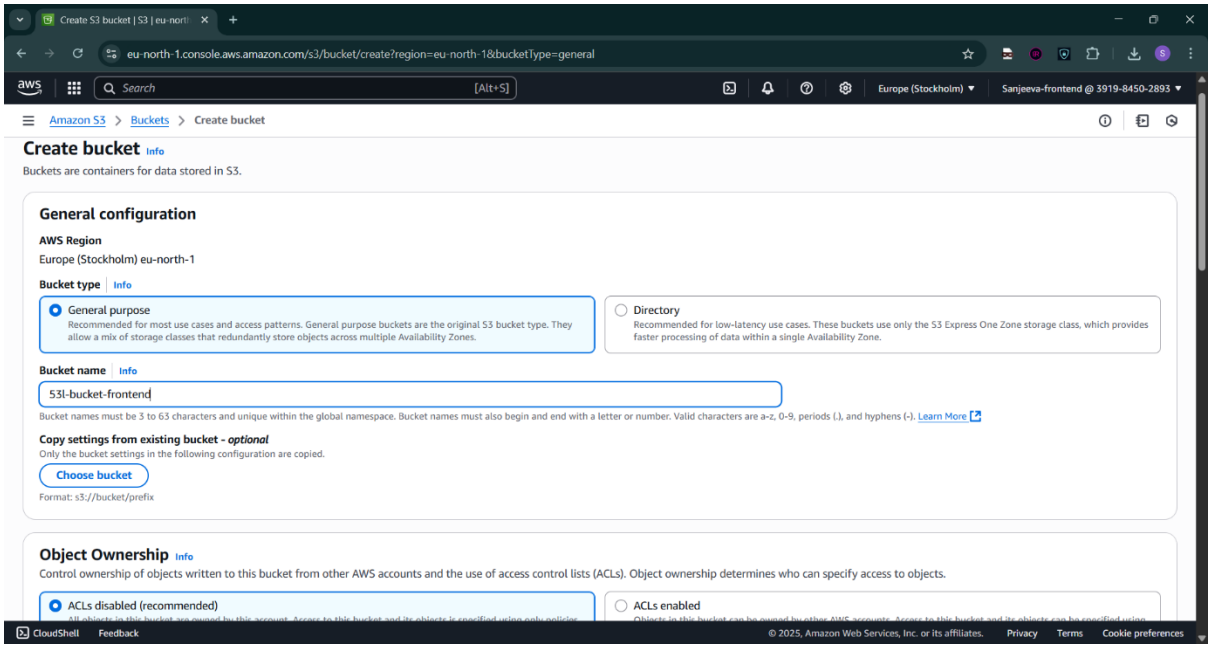
We can see that we don’t have permission to create s3 bucket



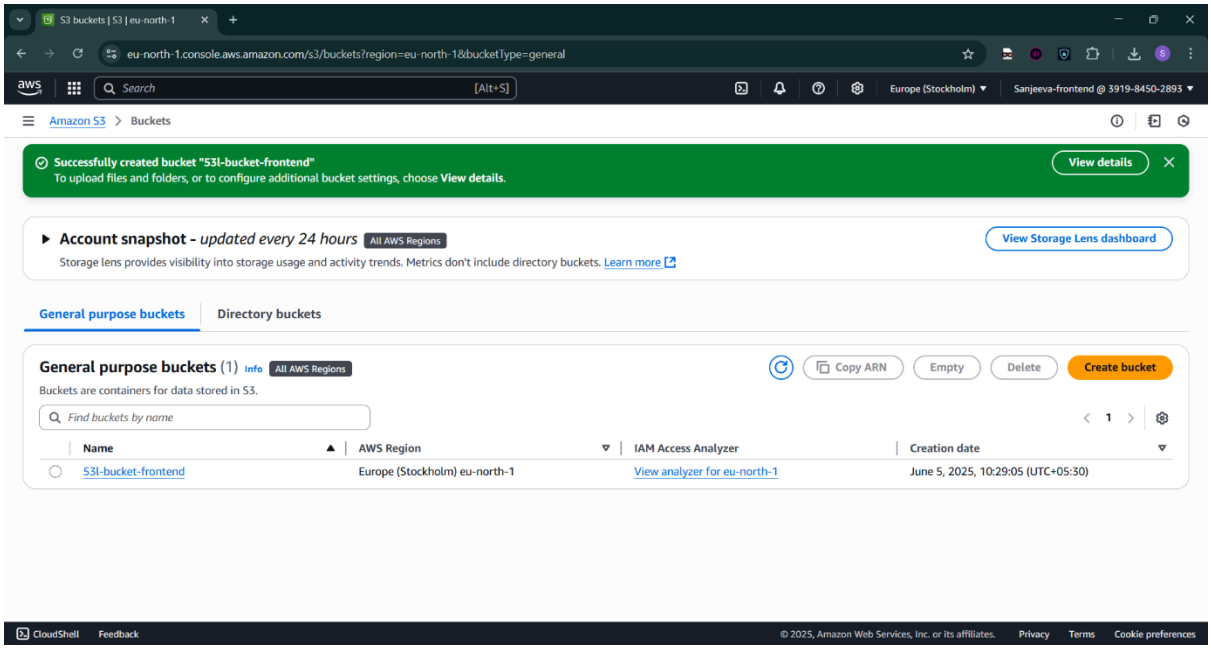
Sanjeeva-frontend has awss3fullacess



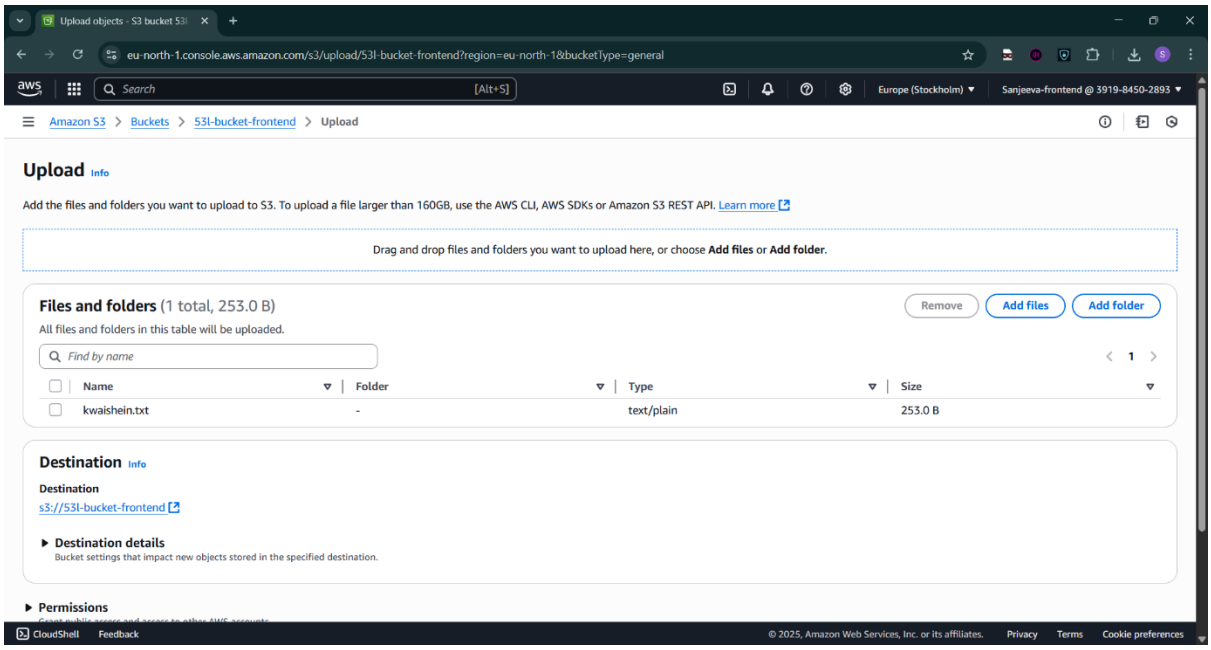
Let us create s3 bucket



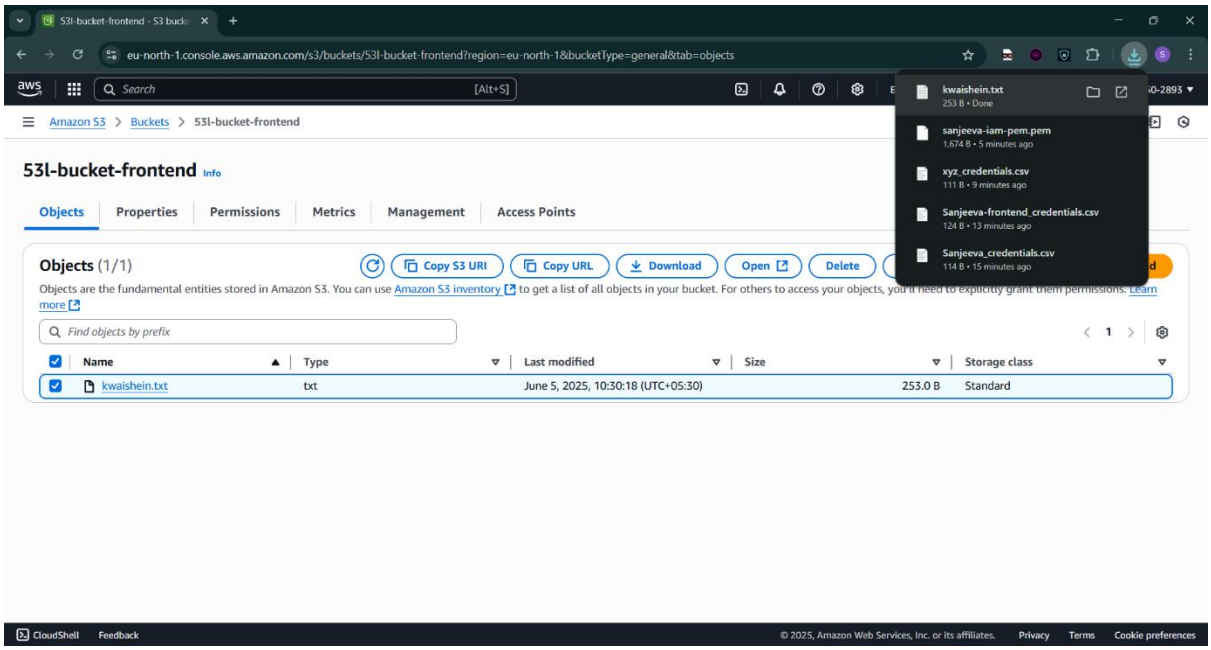
We can create



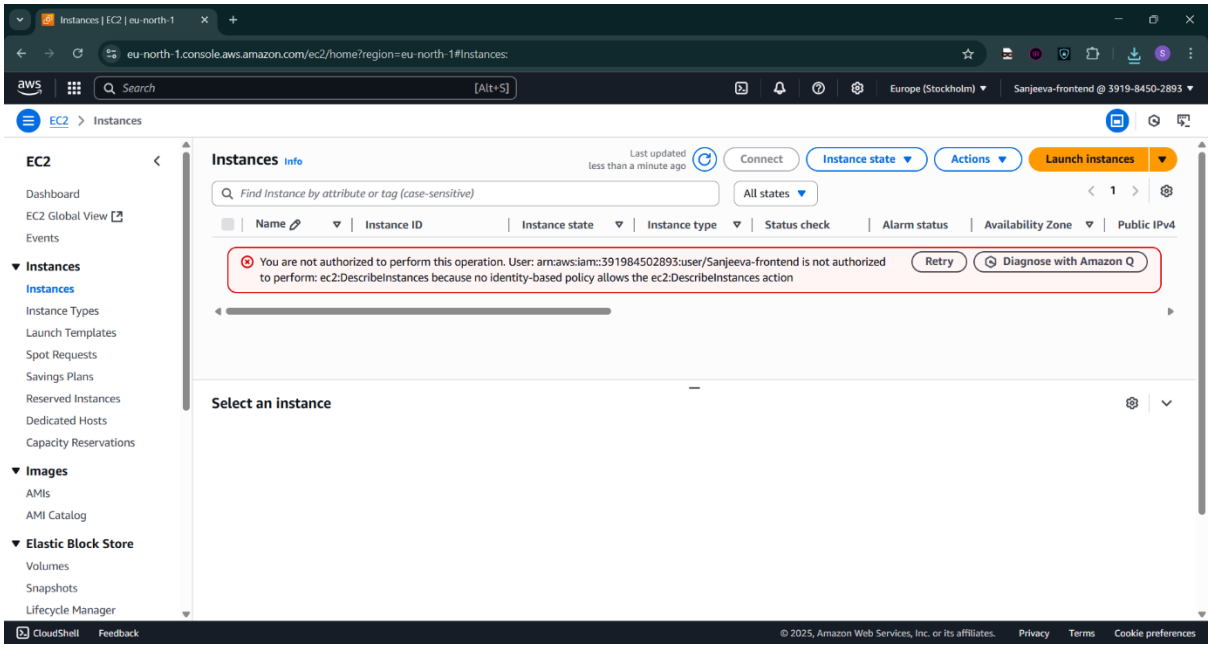
Try adding object (write)



try downloading (read) both successful

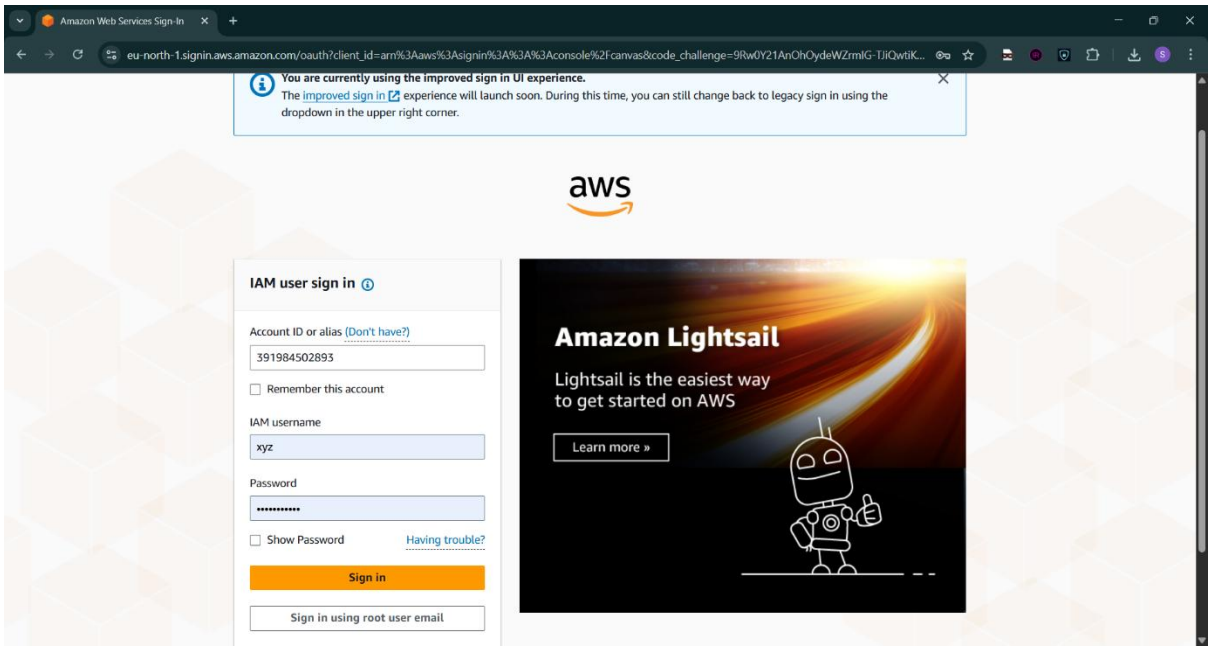


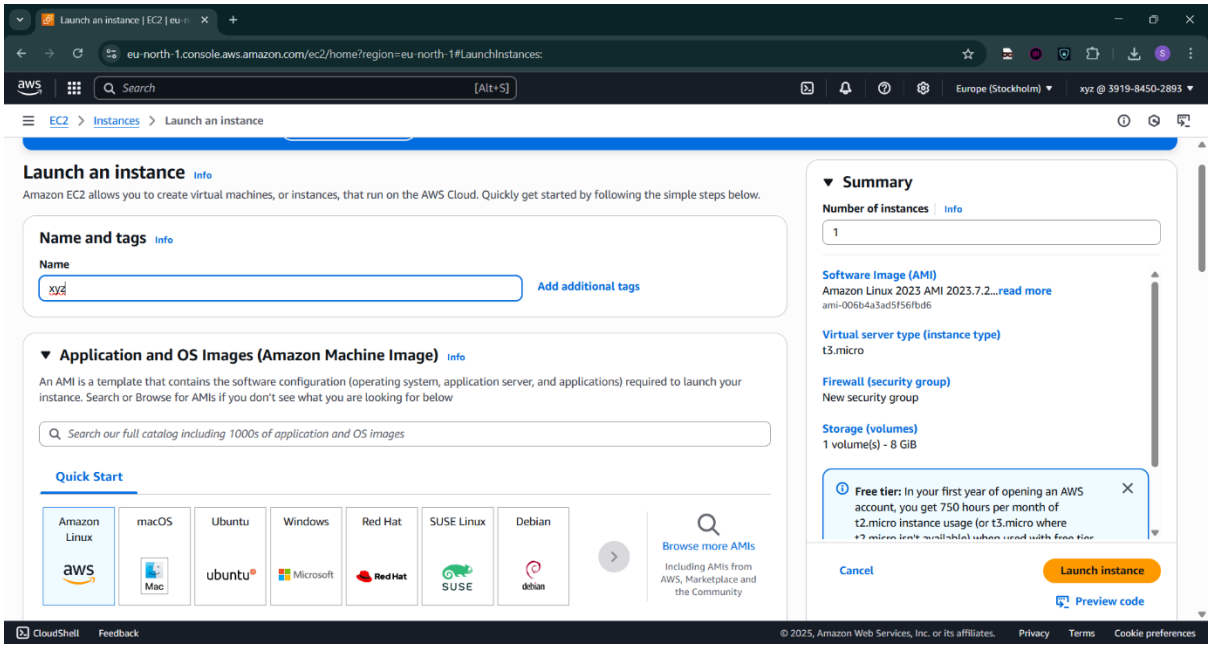
Same manner let us create EC2 instance, we can see we not authorized to create instance

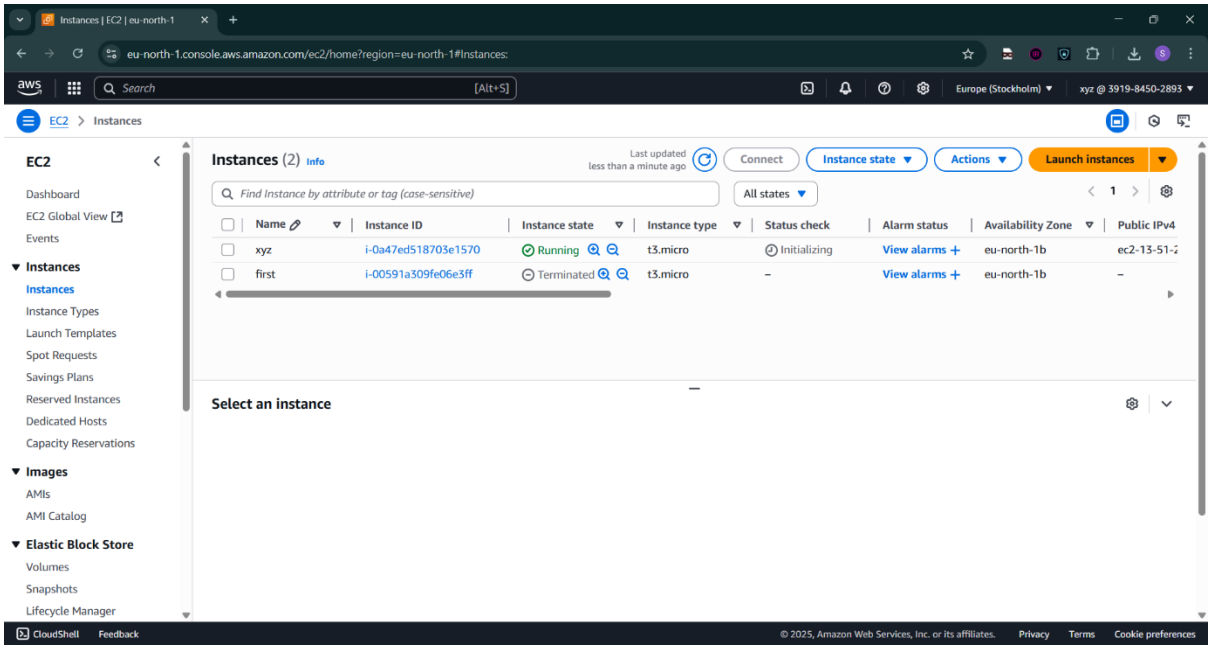


Now check whether xyz has EC2 full access

Create instance with name xyz

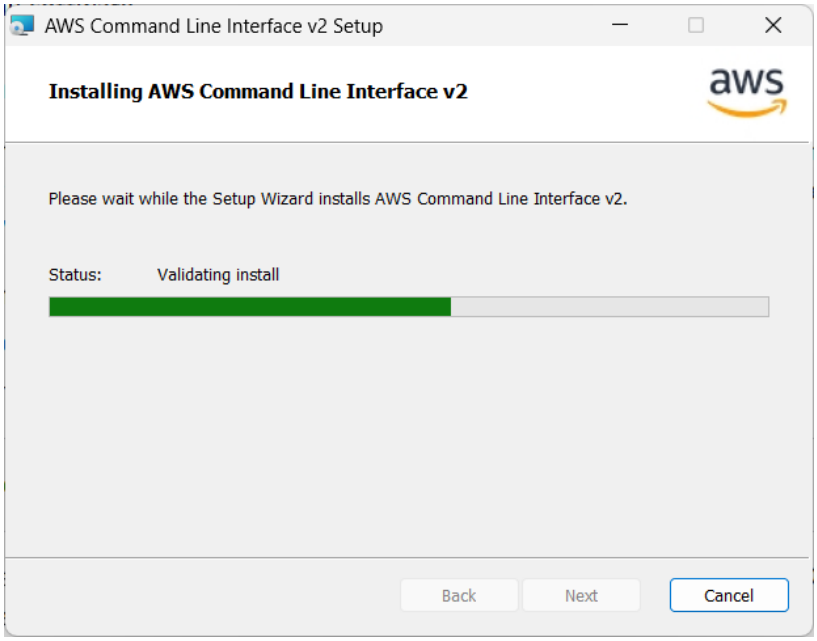



Launch an instance | EC2 | eu-north-1
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#LaunchInstances:
Search [Alt+S]
Europe (Stockholm)
xyz @ 3919-8450-2893
EC2 > Instances > Launch an instance
Launch an instance Info
Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.
Name and tags Info
Name
xyz
Add additional tags
Application and OS Images (Amazon Machine Image) Info
An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below
Search our full catalog including 1000s of application and OS images
Quick Start
Amazon Linux
macOS
Ubuntu
Windows
Red Hat
SUSE Linux
Debian
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2023 AMI 2023.7.2...read more
ami-006b4a3ad5f56fbd6
Virtual server type (instance type)
t3.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where
Cancel
Launch instance
Preview code
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


Instances | EC2 | eu-north-1
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#Instances:
Search [Alt+S]
Europe (Stockholm)
xyz @ 3919-8450-2893
EC2 > Instances
EC2
Dashboard
EC2 Global View
Events
Instances
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
Instances (2) Info
Last updated less than a minute ago
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
xyz
i-0a47ed518703e1570
Running
t3.micro
Initializing
View alarms
eu-north-1b
first
i-00591a309fe06e3ff
Terminated
t3.micro
View alarms
eu-north-1b
Select an instance
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

3.Access the IAM user with CLI and List IAM Users

Now go to browser type for aws cli tool download ->install the first link provided.

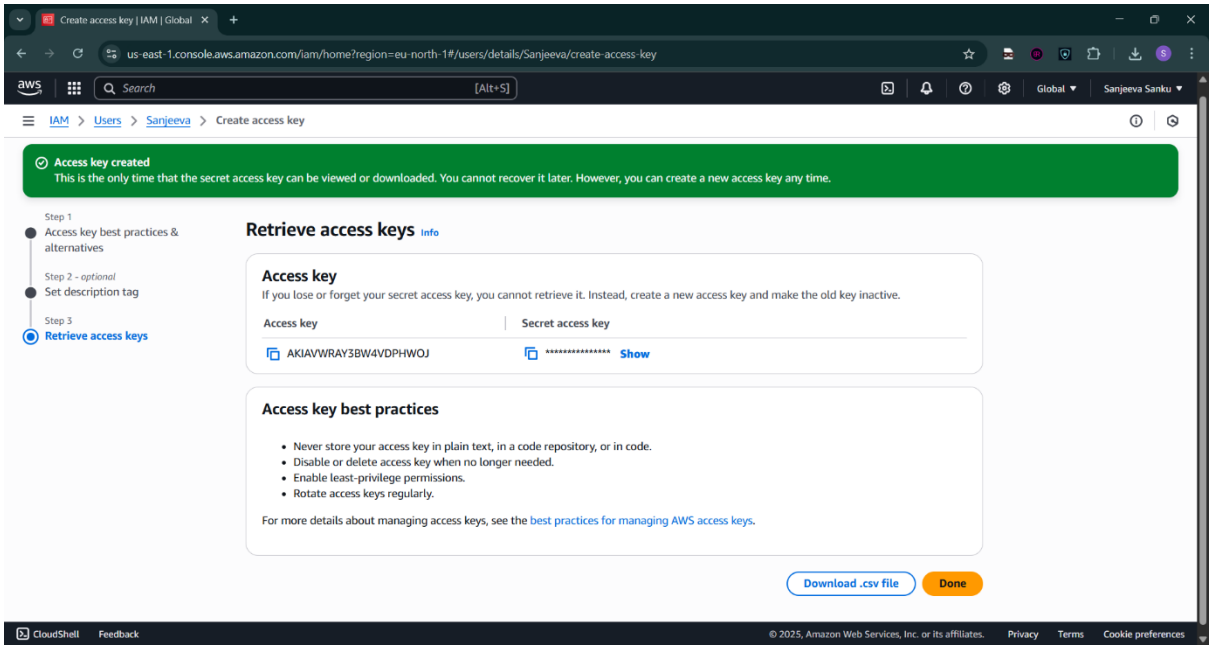


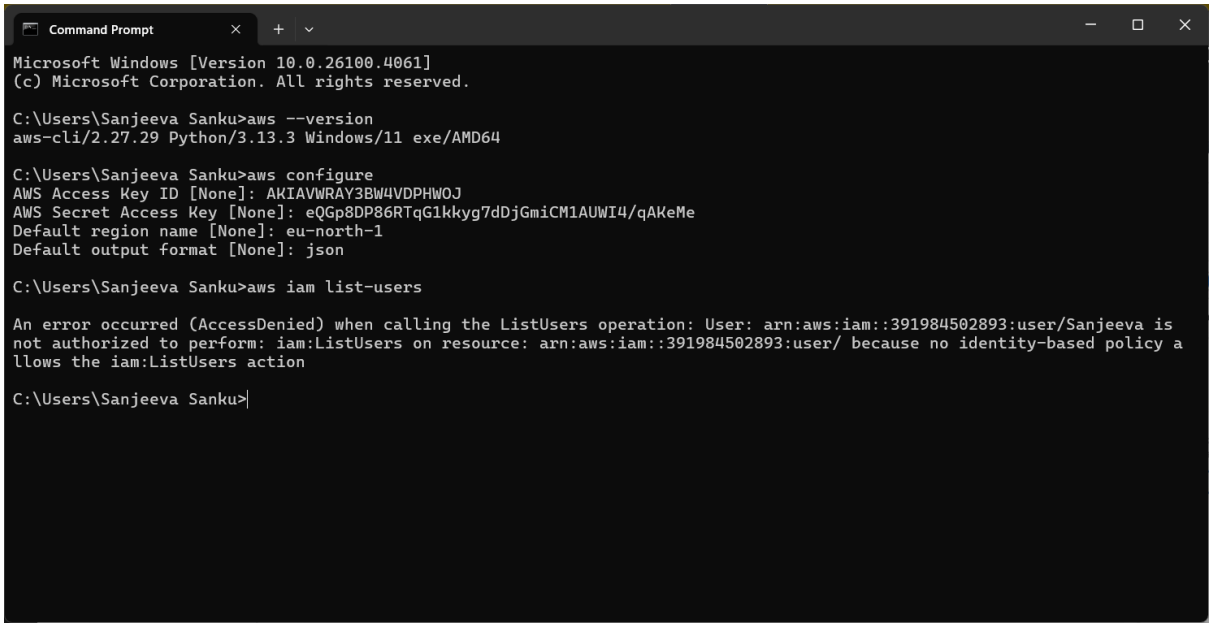
Open the command prompt

Type -> aws configure , it asks for access key and secret access key

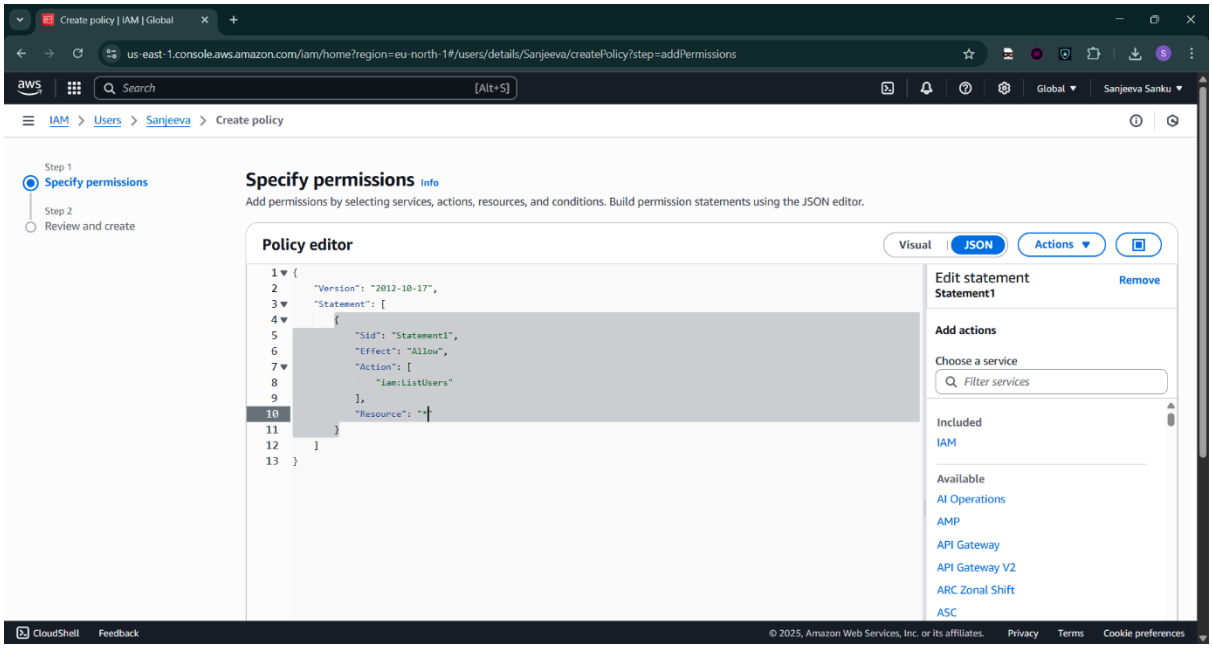
Now create access key by moving to existing user> security credentials and choose access key > purpose CLI and click on create

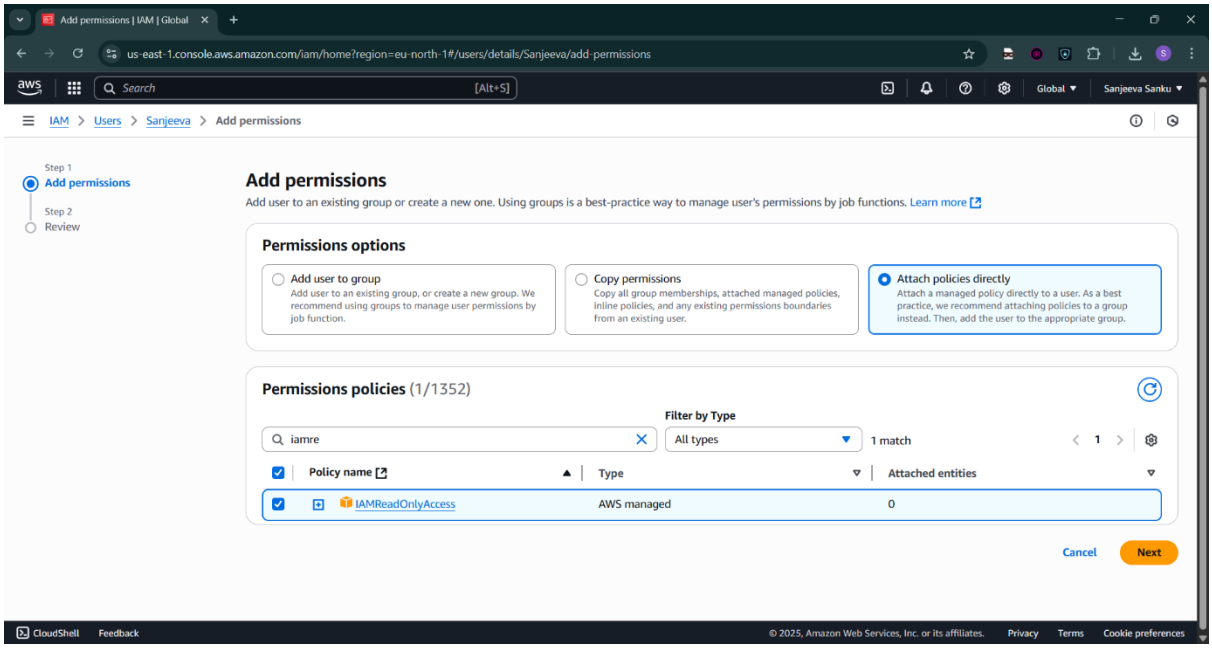
Copy both access key and secret access key



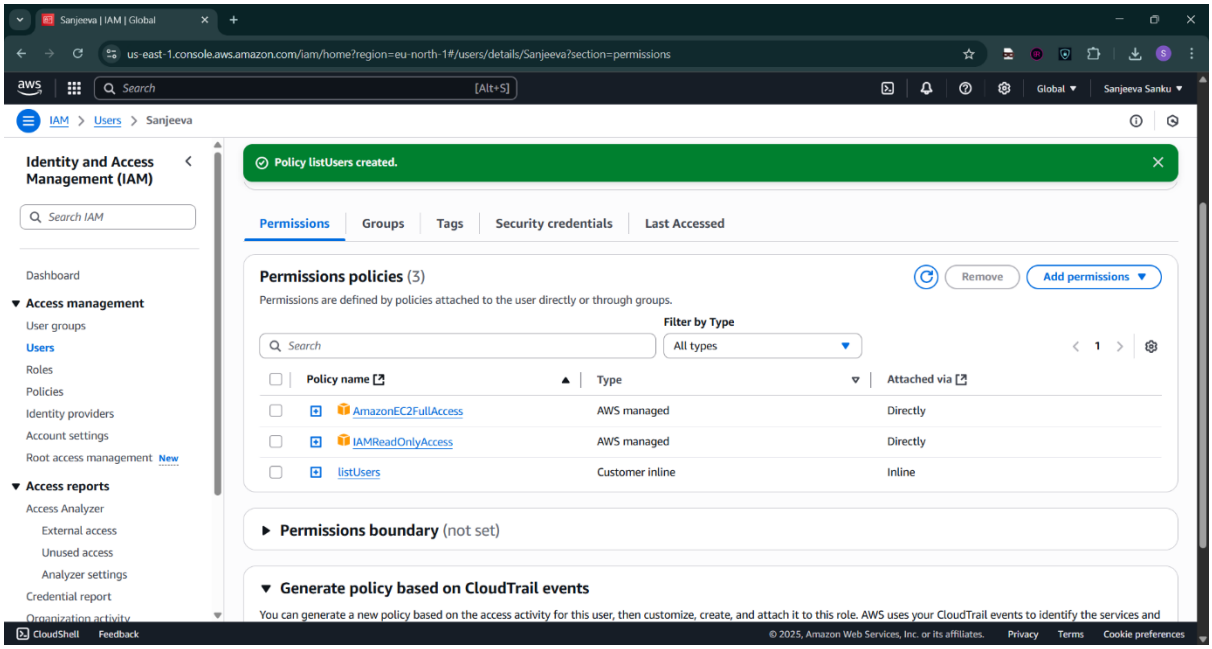


Create a inline policy under permissions of existing user as we can’t see output because of no permission of ListUsers

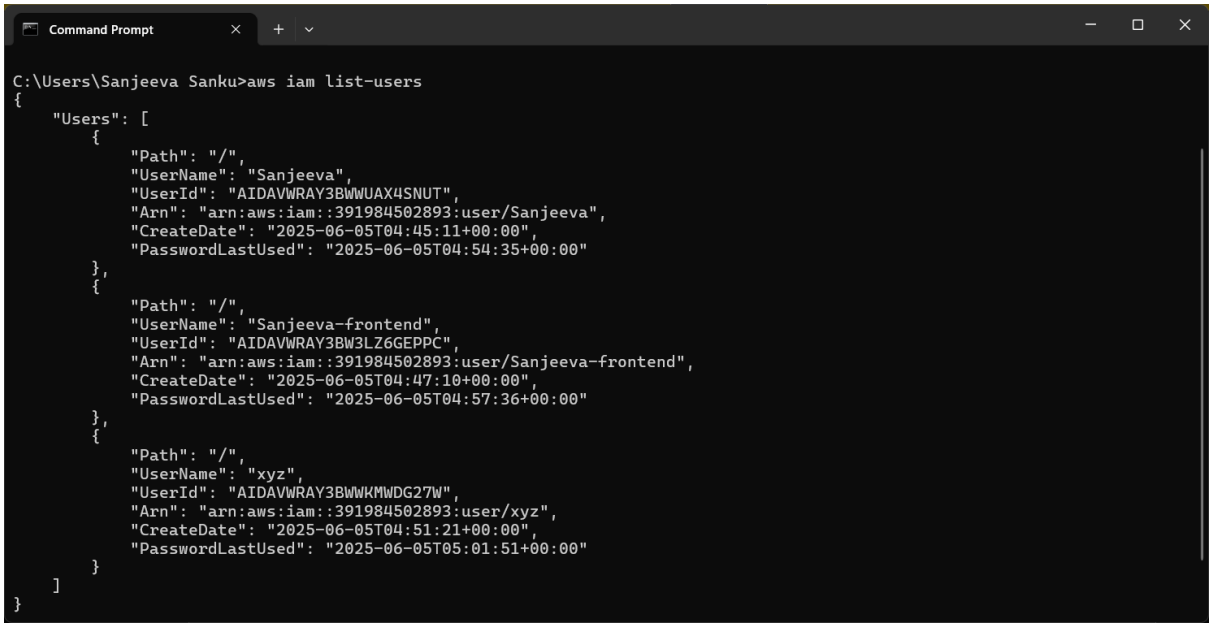




Add permission of IAMReadonlyAccess

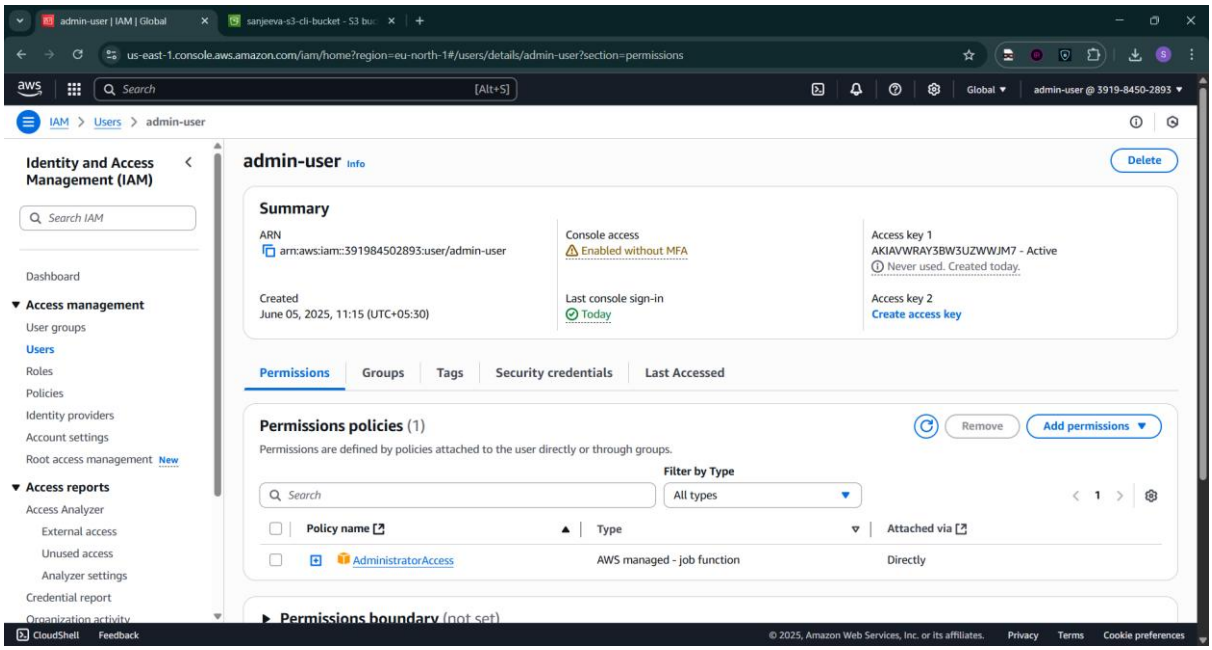


Now we got the list of users

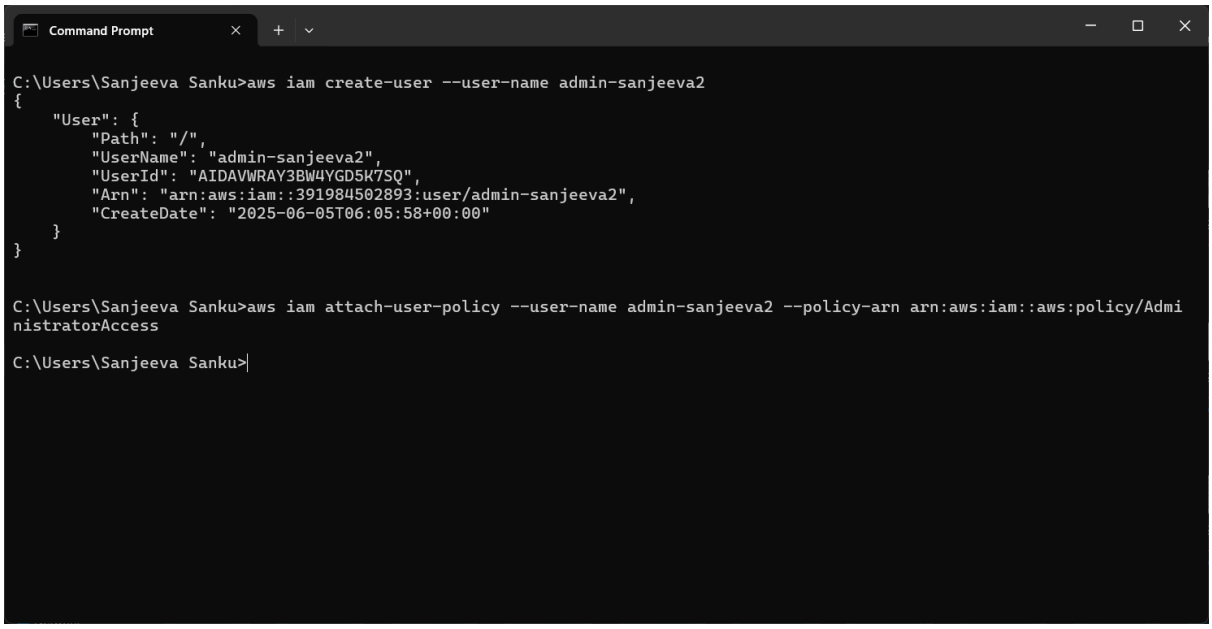


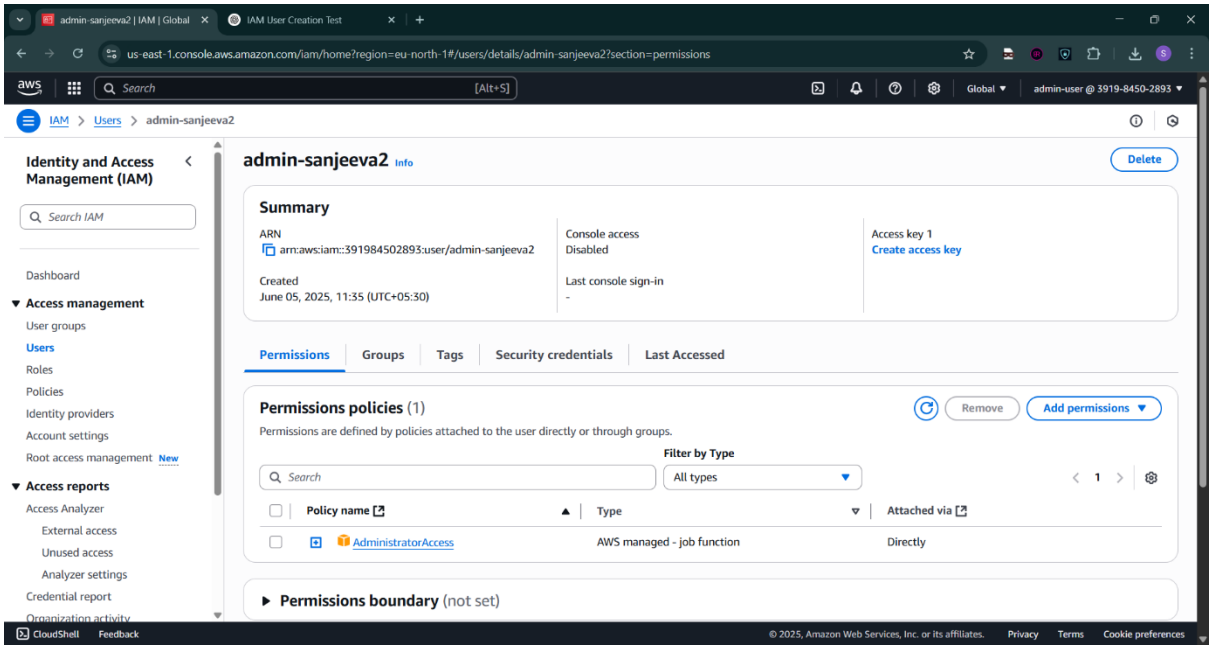
4.Create IAM User Two with CLI

Created user using cli

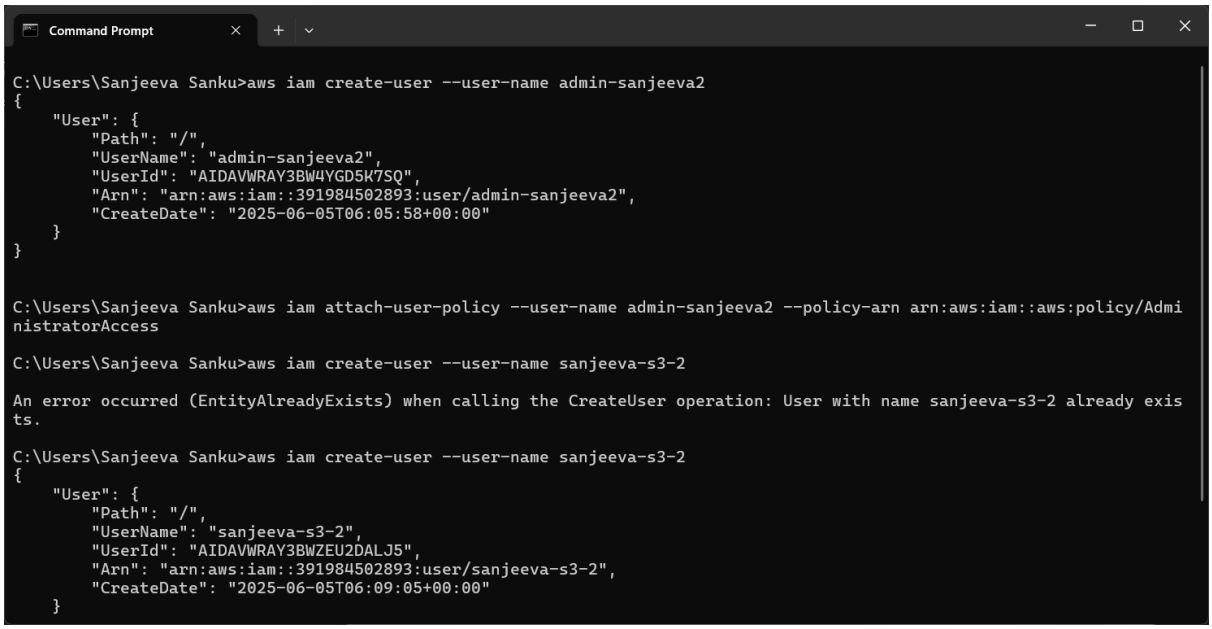


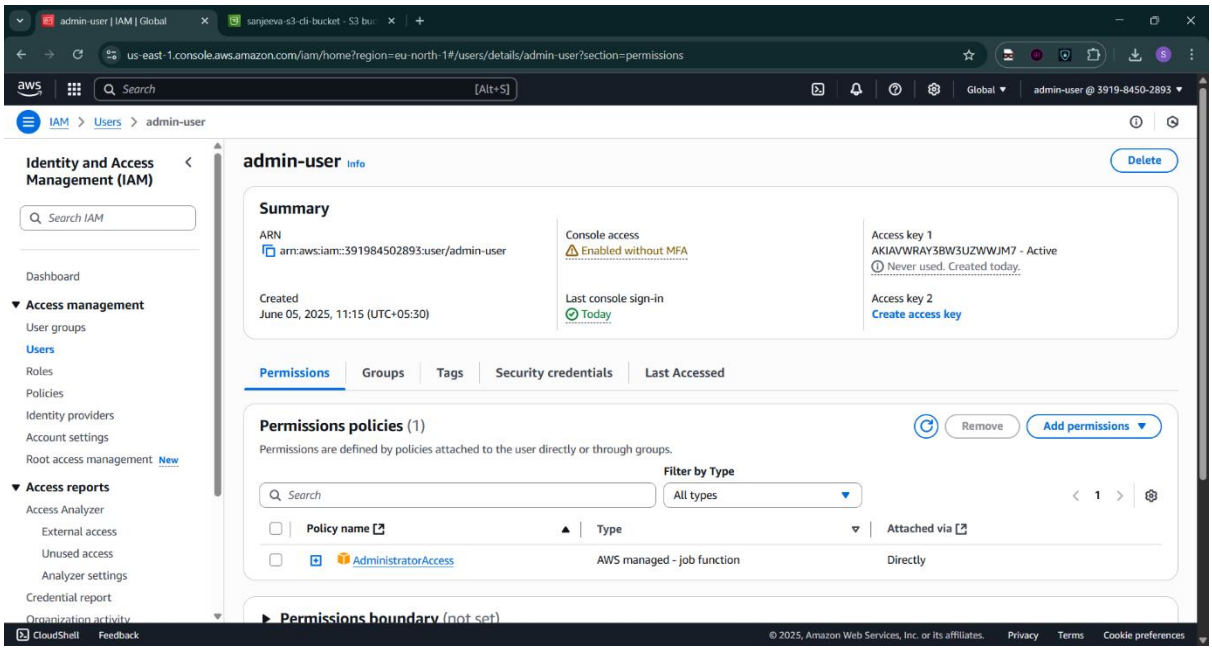
Created one more user using cli





5) Create a IAM user with administrative full access and check whether created IAM user can create other IAM user with S3 full access and another IAM user with administrative full access with both CLI and GUI.





6)Create the bucket in S3 and copy the contents from CLI