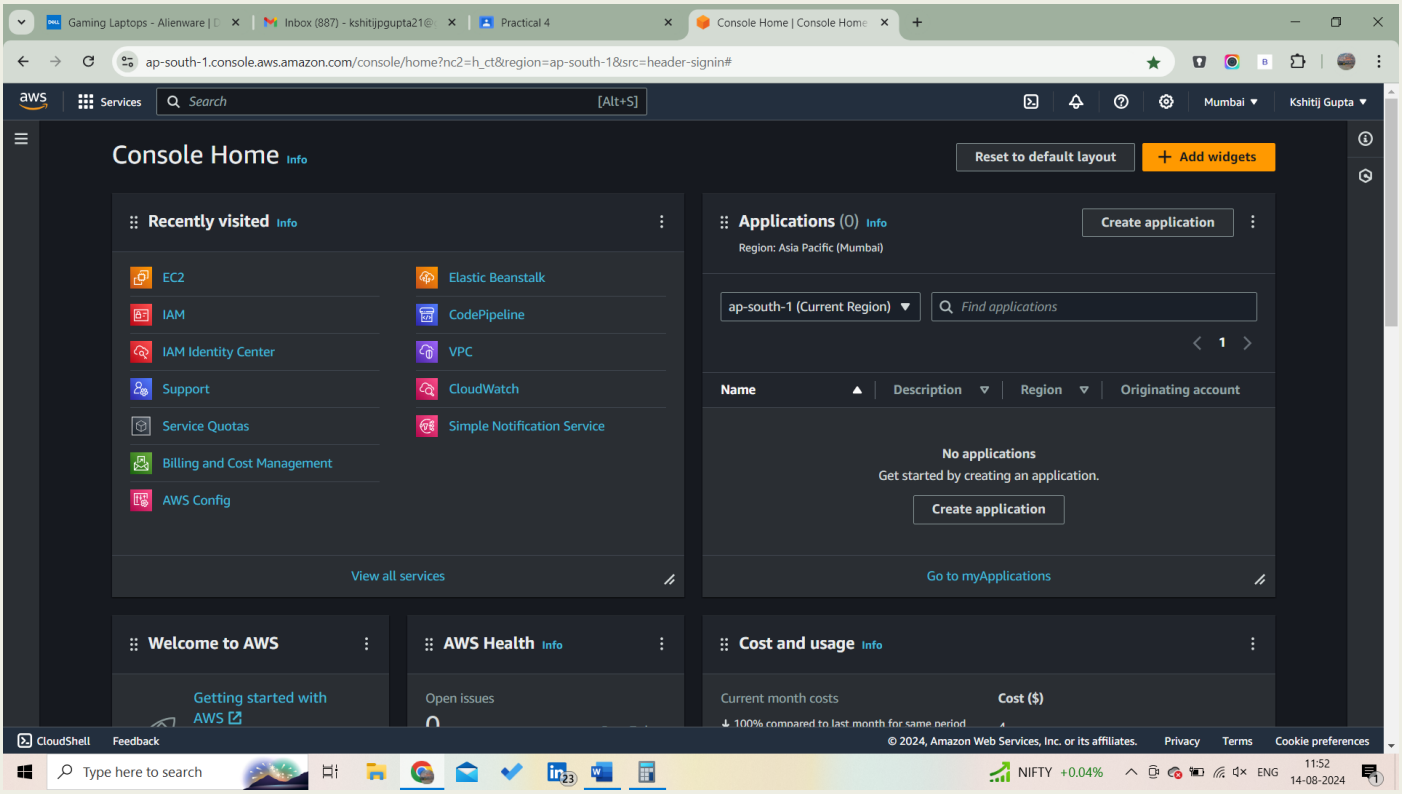
NAME: KSHITIJ GUPTA
Enrolment Number: 21162101007
Sub: CCE

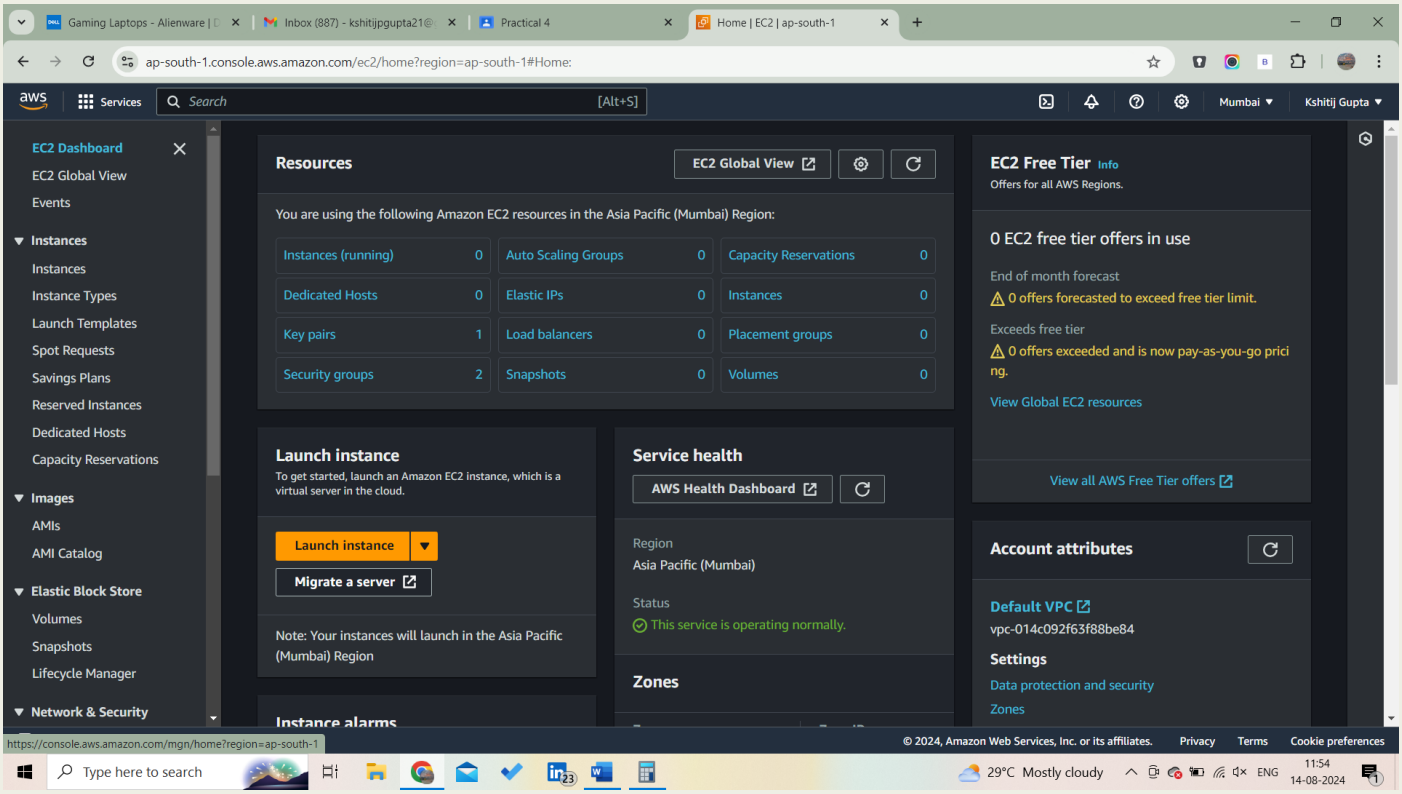
Practical – 4[Batch-71]

- **Create an IAM users like DevOps, Solution Architect.**
- **Manage User roles and policies using Identity and Access Management (IAM).**

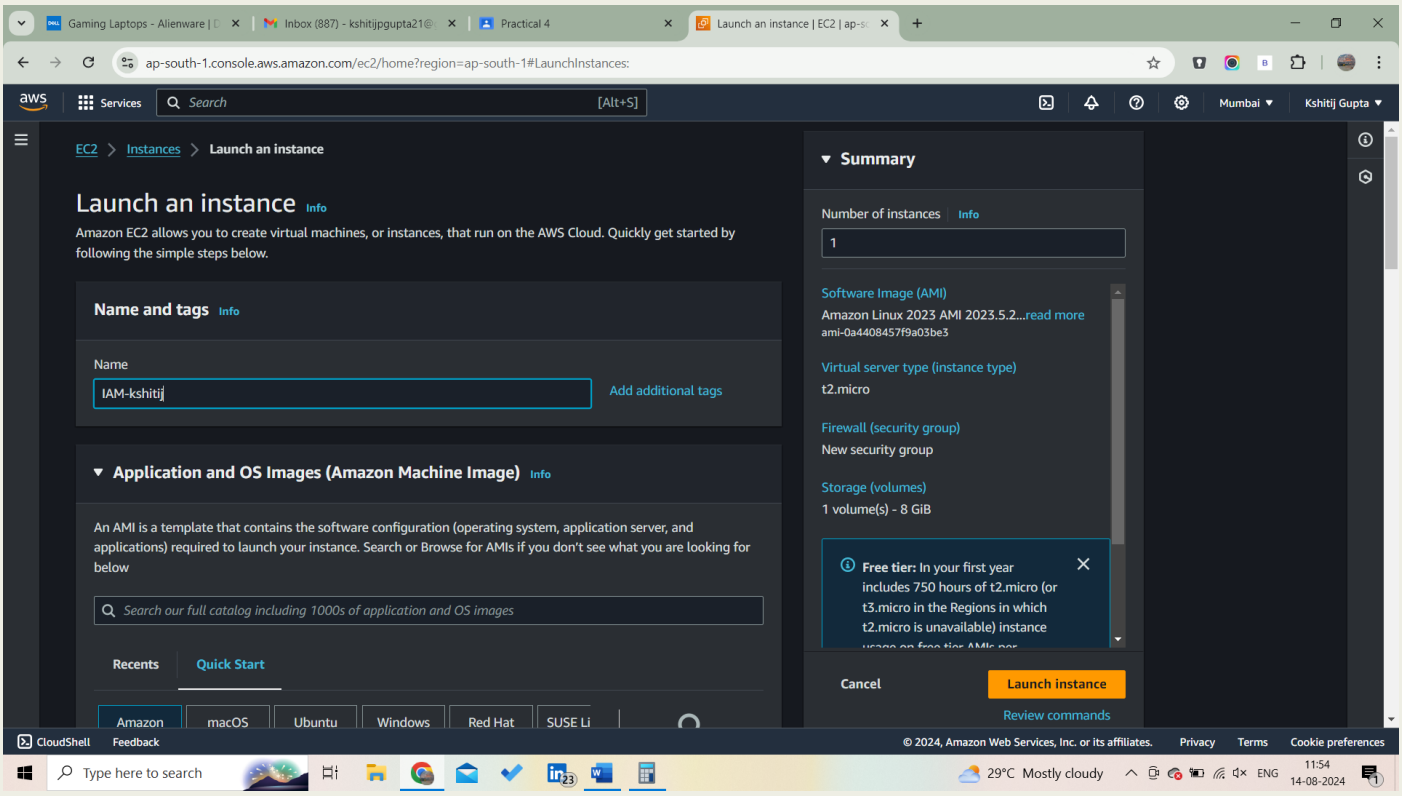
Step-1: Go to console



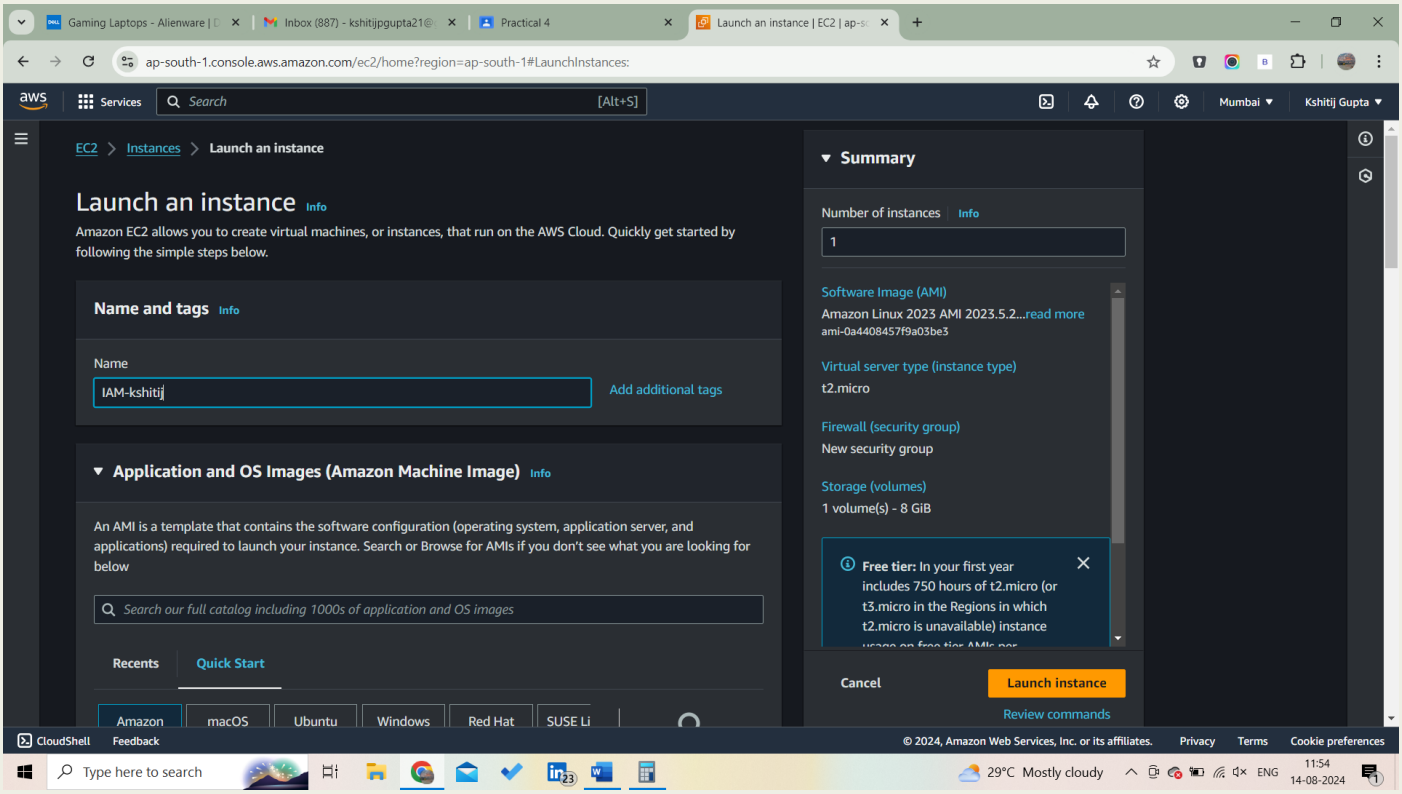
Step-2: Click on EC2



Step-3: Create and Lunch Instance



Step-4:


Launch an instance | EC2 | ap-s
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:
Services
Search
[Alt+S]
Mumbai
Kshitij Gupta
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
IAM-kshitij
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
Recents
Quick Start
Amazon
macOS
Ubuntu
Windows
Red Hat
SUSE Li
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2023 AMI 2023.5.2...read more
ami-0a4408457f9a03be3
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance
Cancel
Launch instance
Review commands
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
29°C Mostly cloudy
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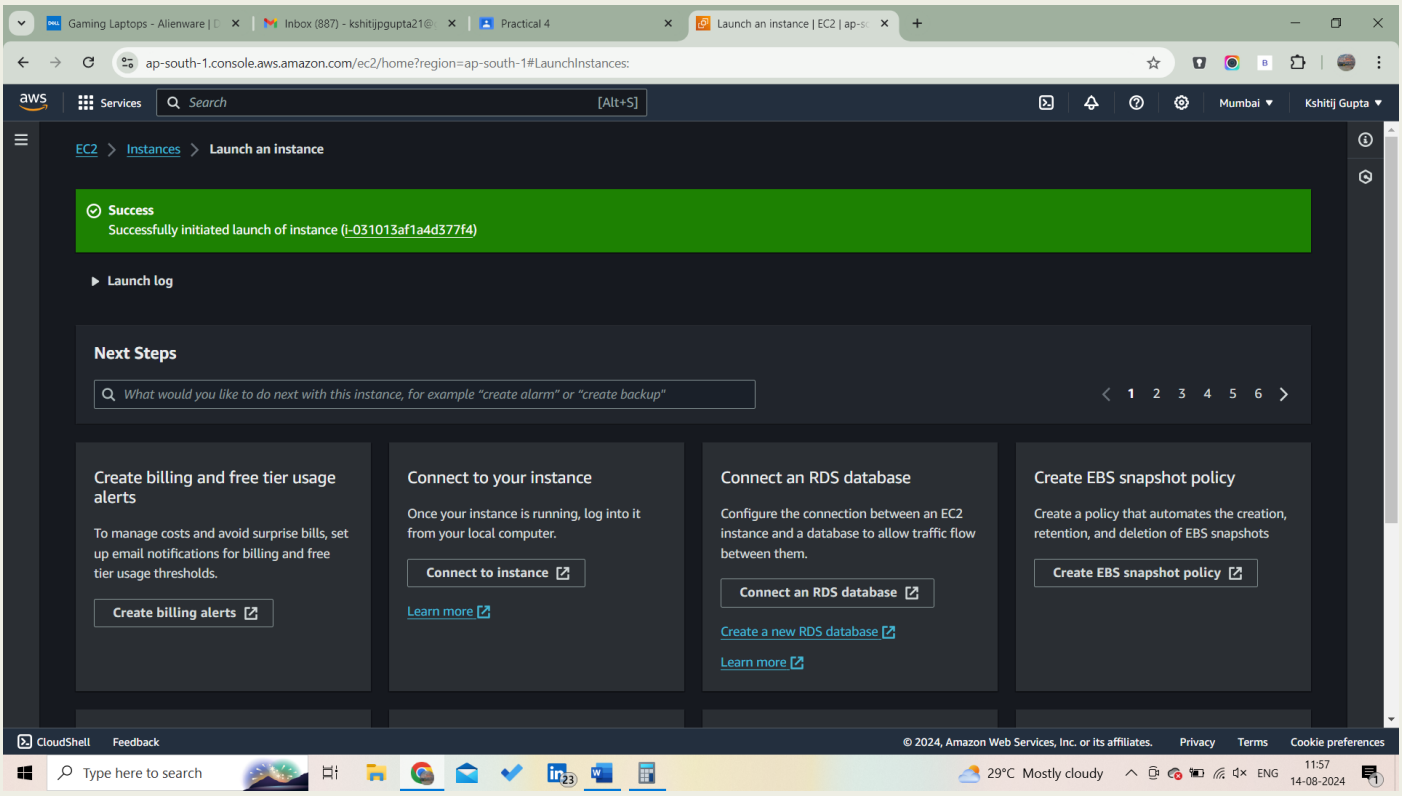
Step-5:


Launch an instance | EC2 | ap-s
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:
Services
Search
[Alt+S]
Mumbai
Kshitij Gupta
EC2 > Instances > Launch an instance
Success
Successfully initiated launch of instance (i-031013af1a4d377f4)
Launch log
Next Steps
What would you like to do next with this instance, for example "create alarm" or "create backup"
1 2 3 4 5 6
Create billing and free tier usage alerts
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.
Create billing alerts
Connect to your instance
Once your instance is running, log into it from your local computer.
Connect to instance
Learn more
Connect an RDS database
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
Connect an RDS database
Create a new RDS database
Learn more
Create EBS snapshot policy
Create a policy that automates the creation, retention, and deletion of EBS snapshots
Create EBS snapshot policy
CloudShell
Feedback
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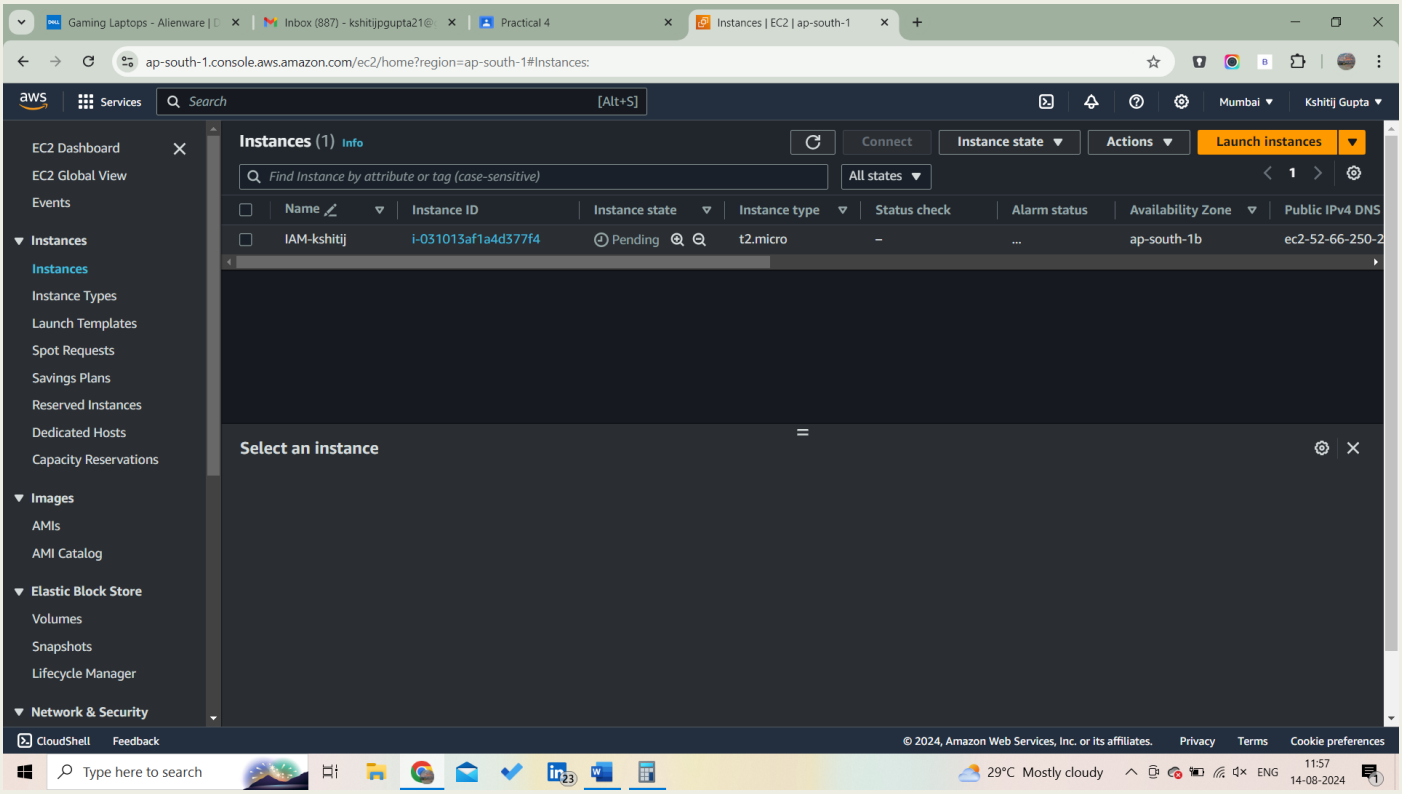
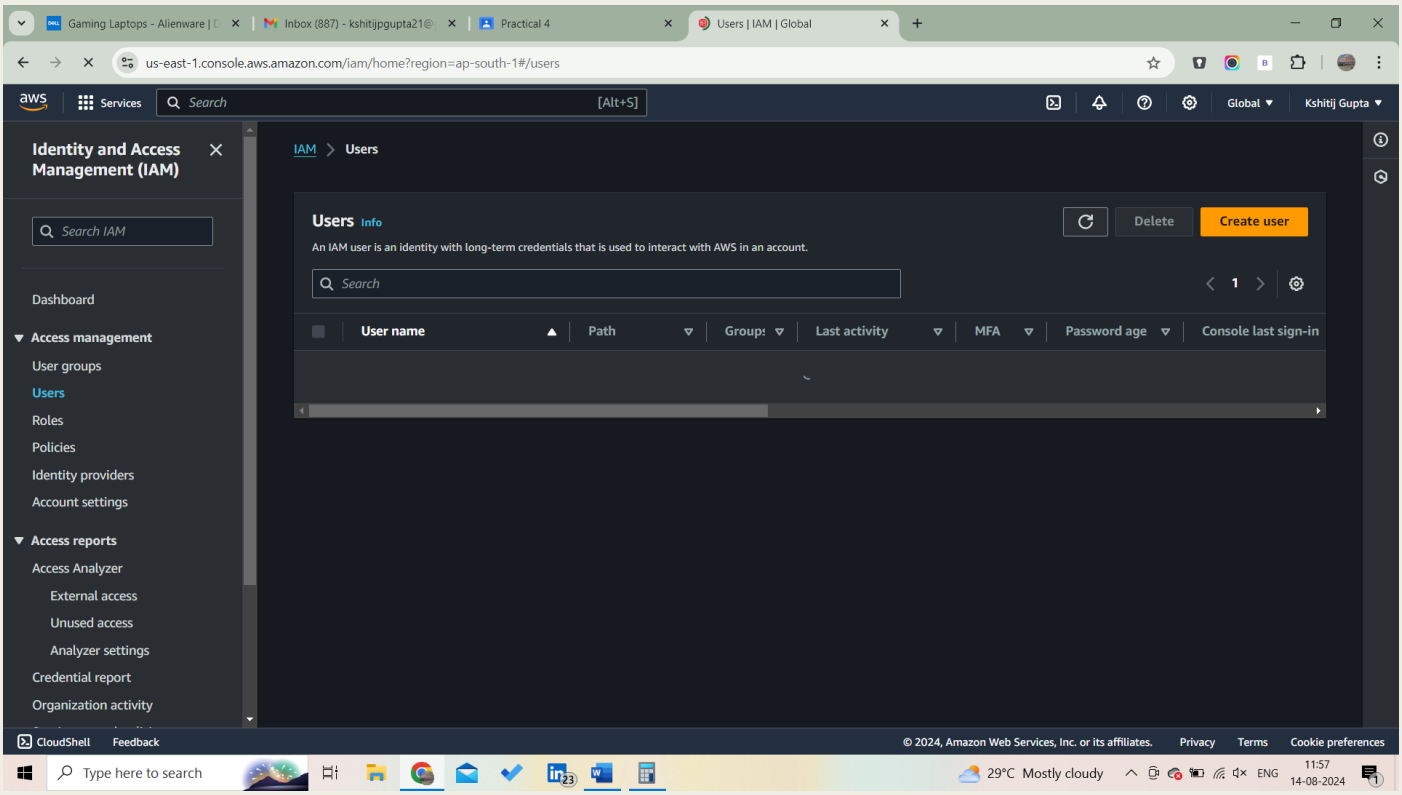
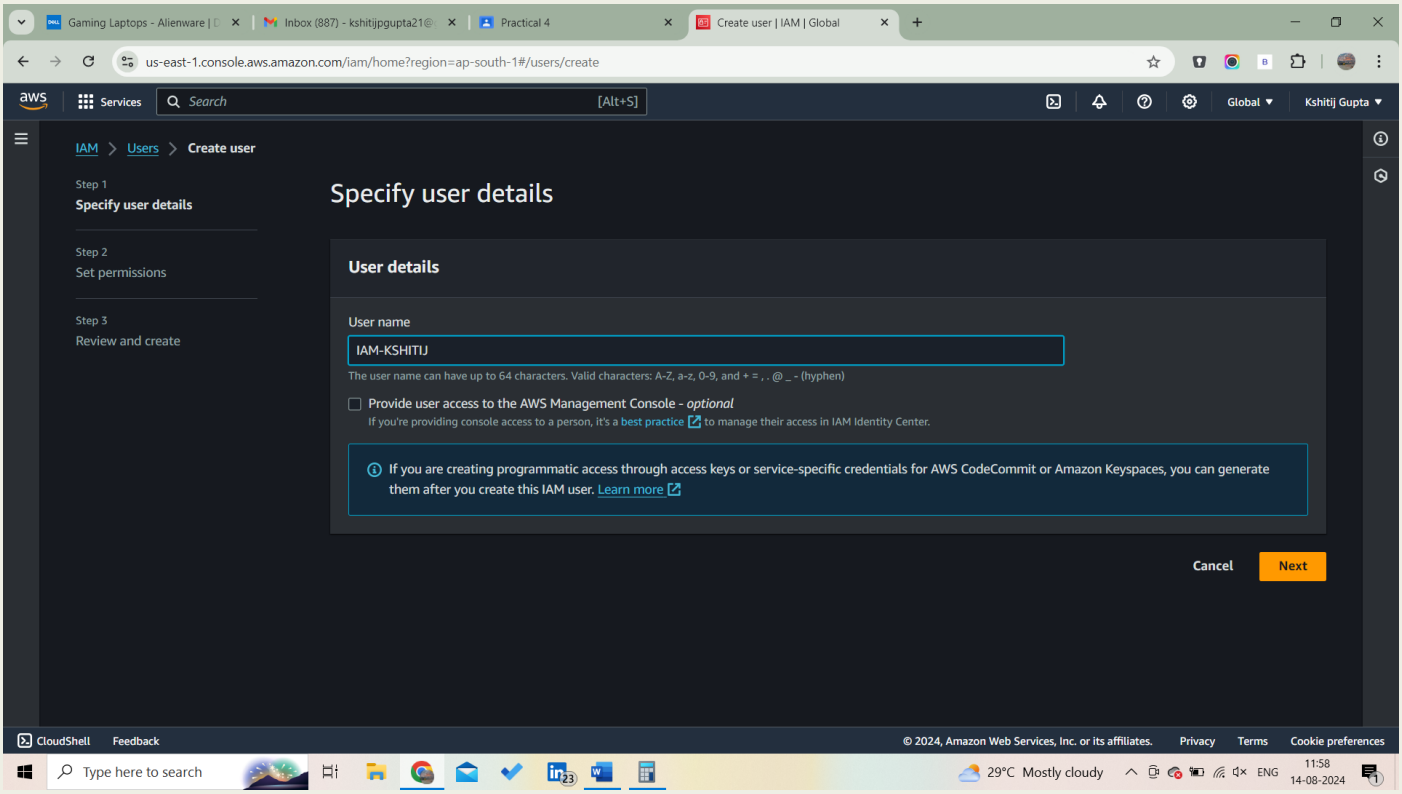


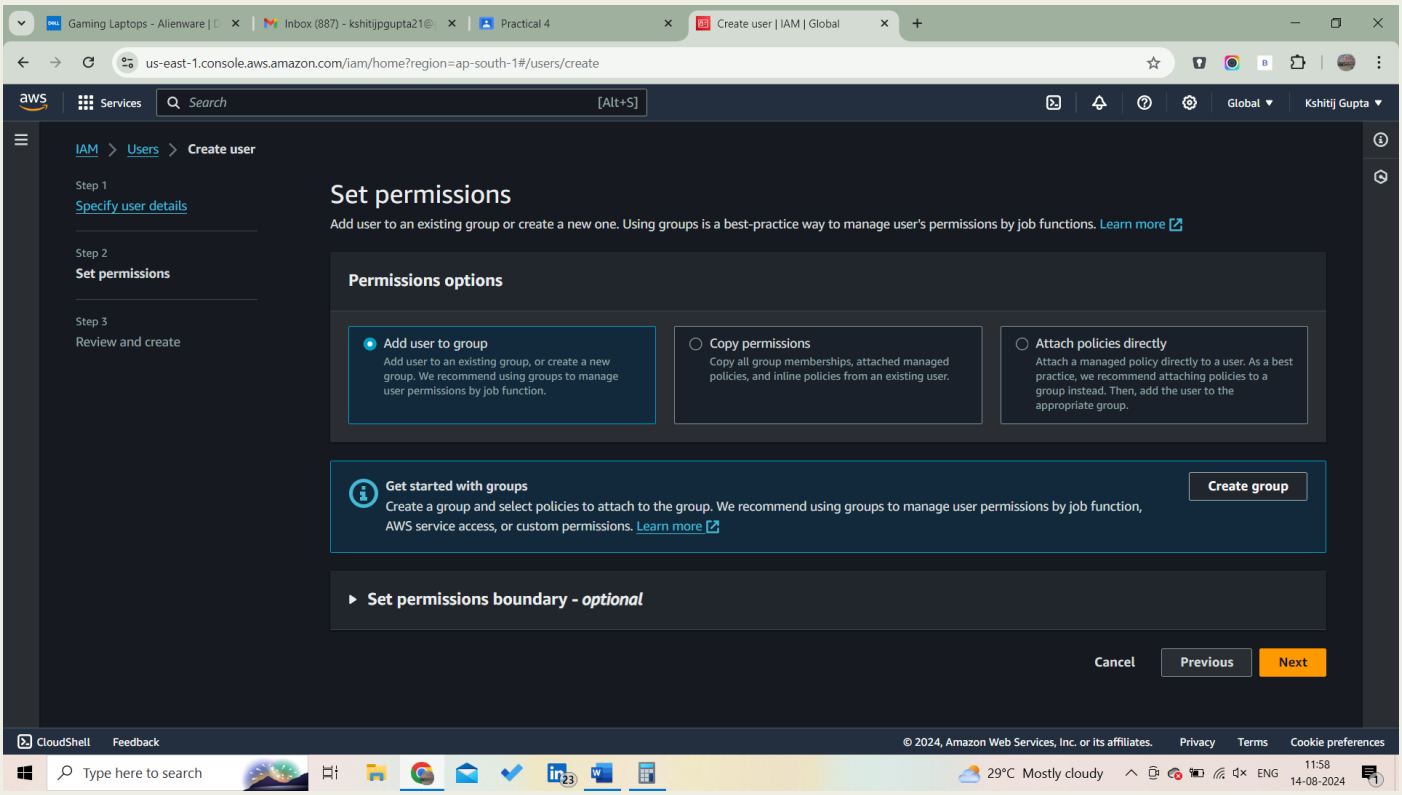
Step-6: Now go to IAM



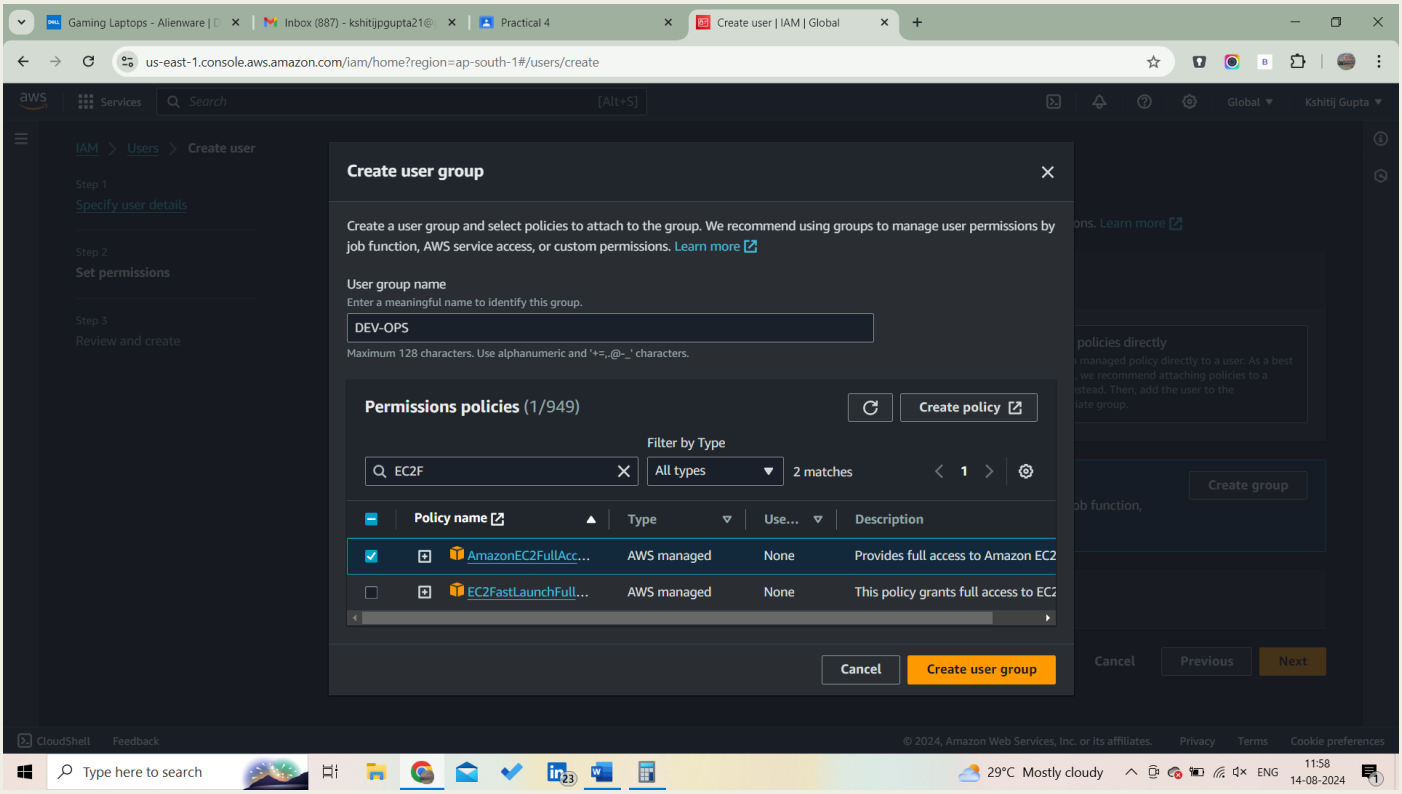
Step-7: Give a User name



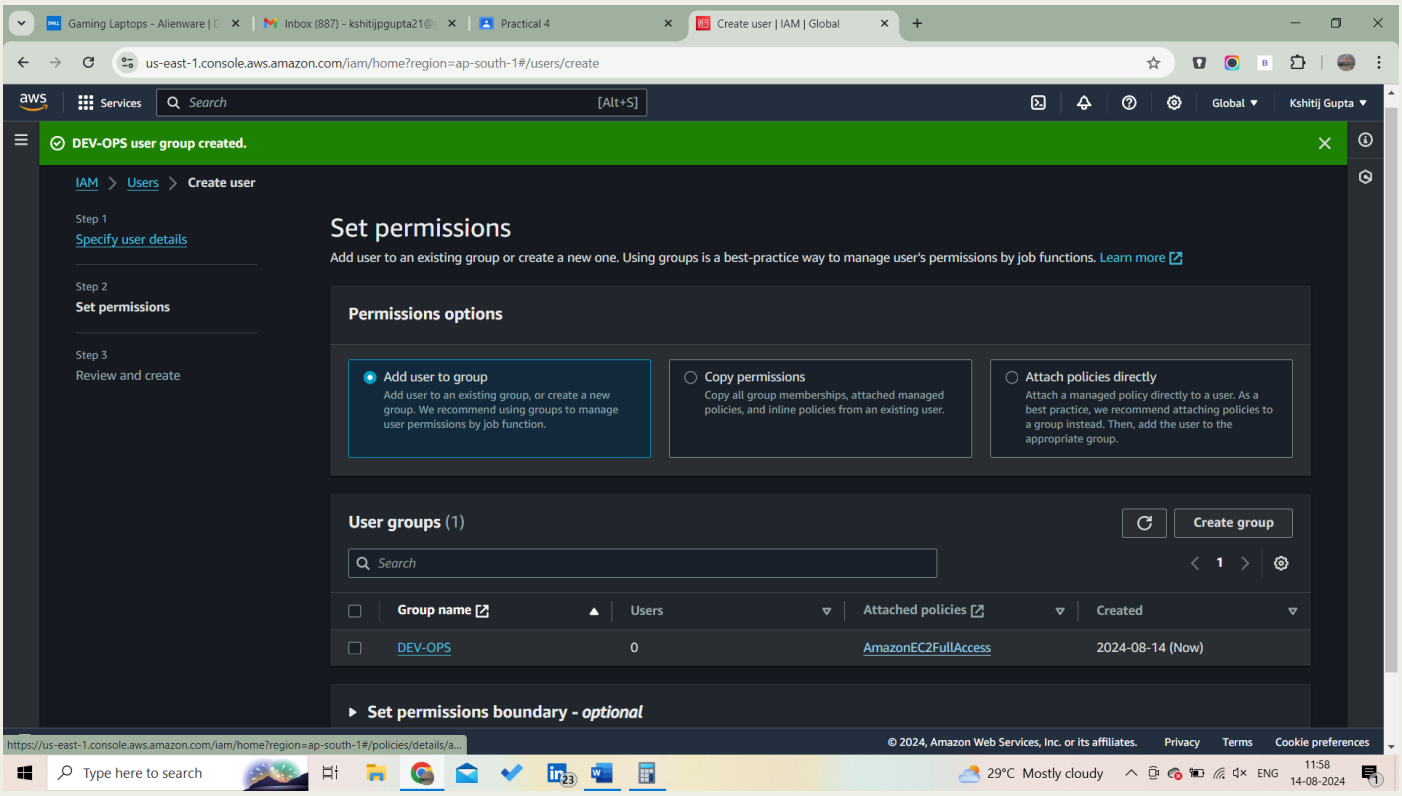
Step-8: before Set a permission



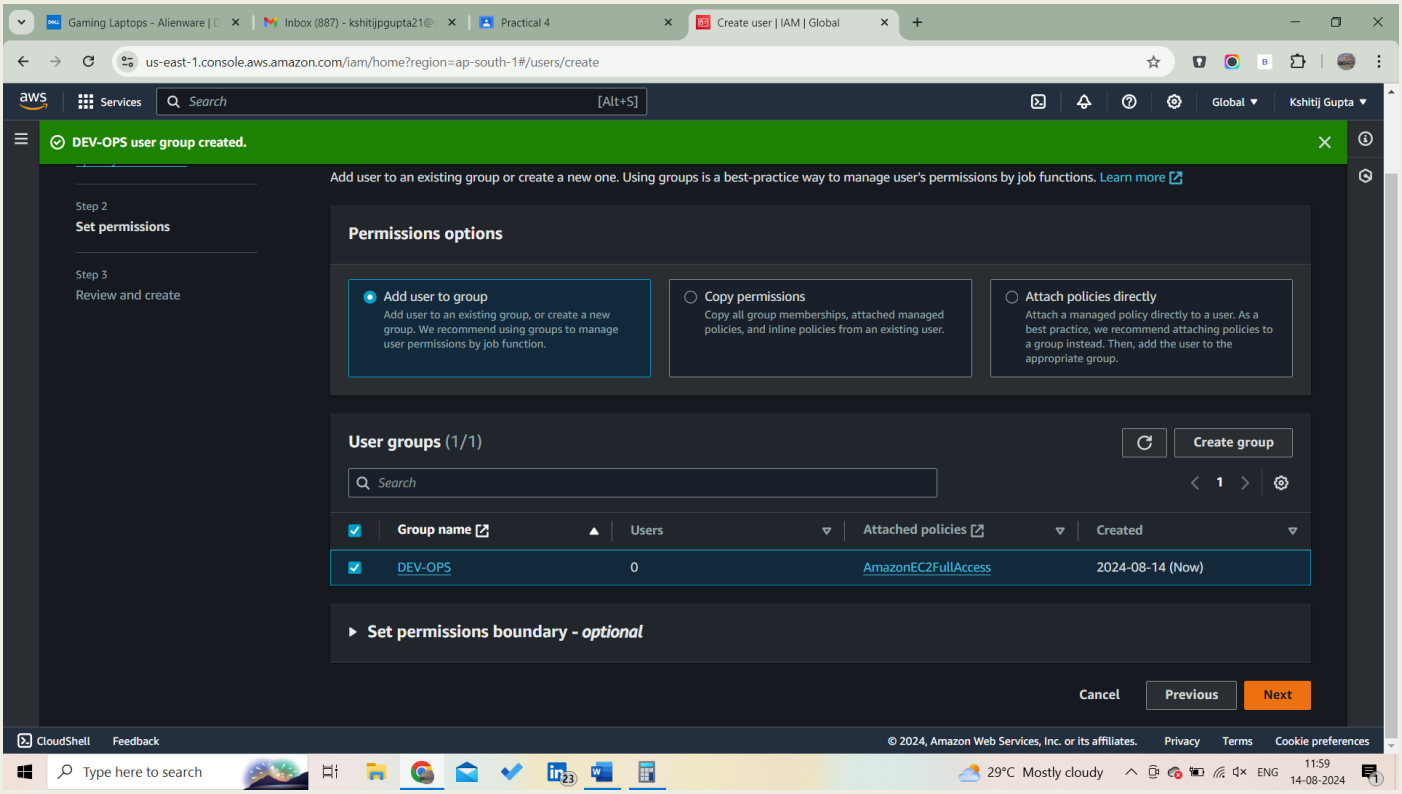
Step-9: Create a user group



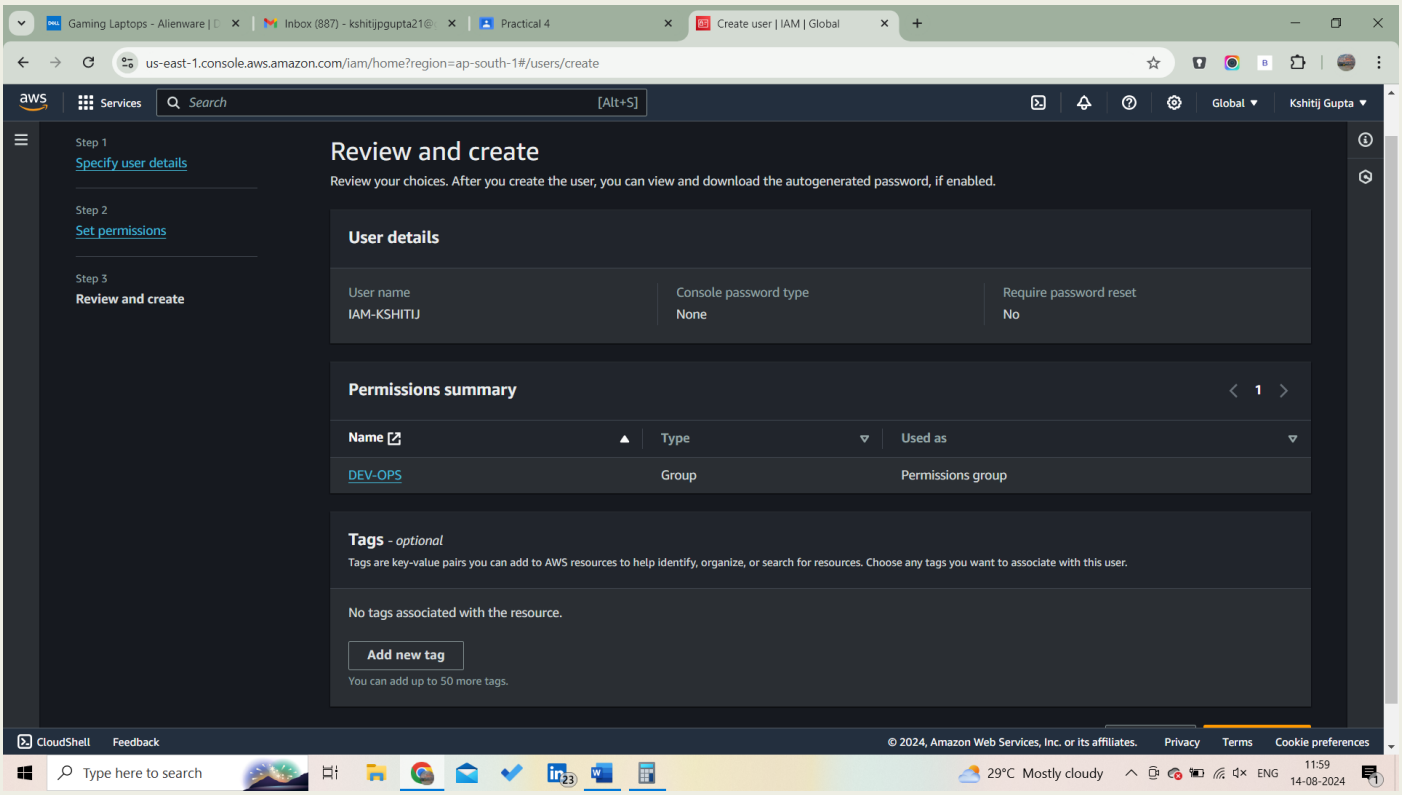
Step-10: Now set a permission



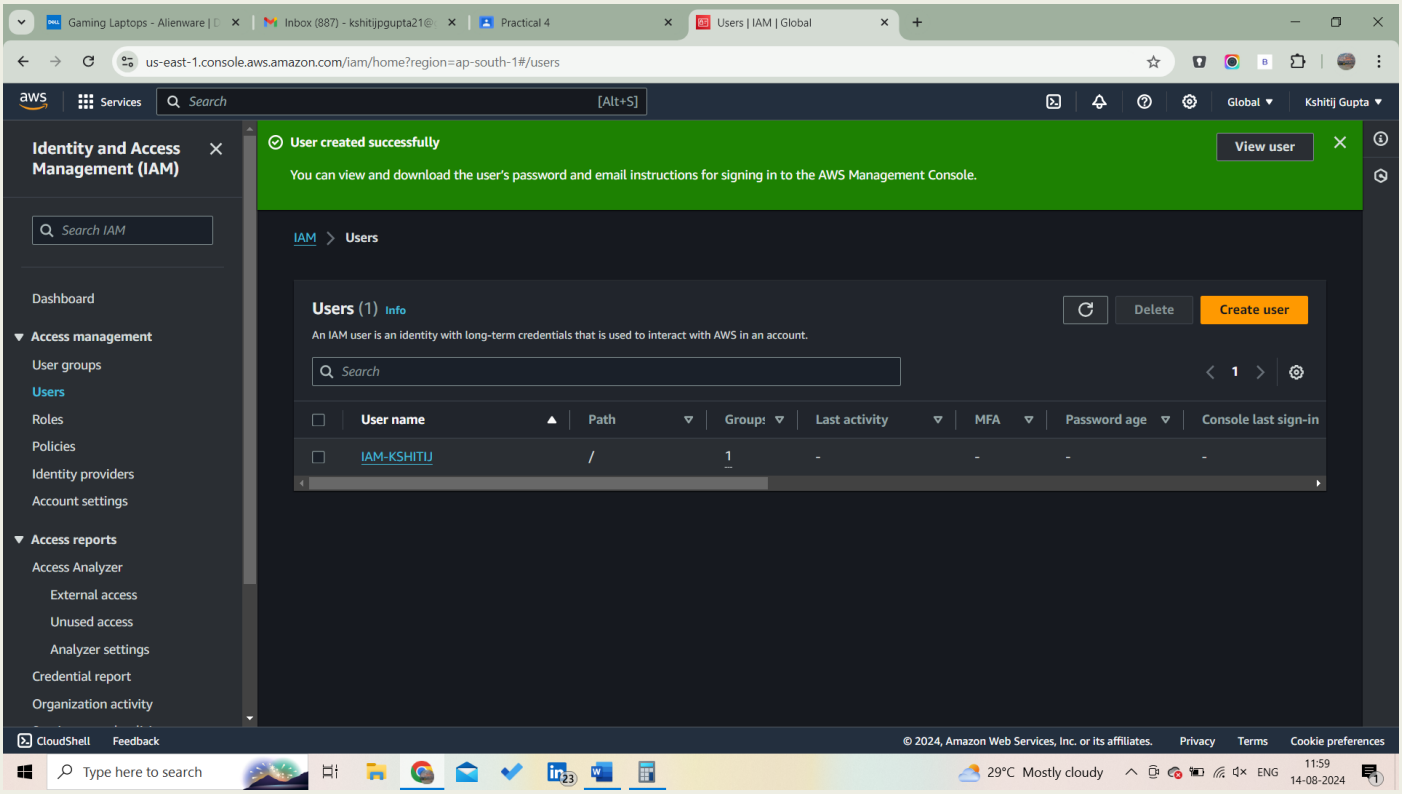
Step-11:in the permission option set a select the USER_GROUP



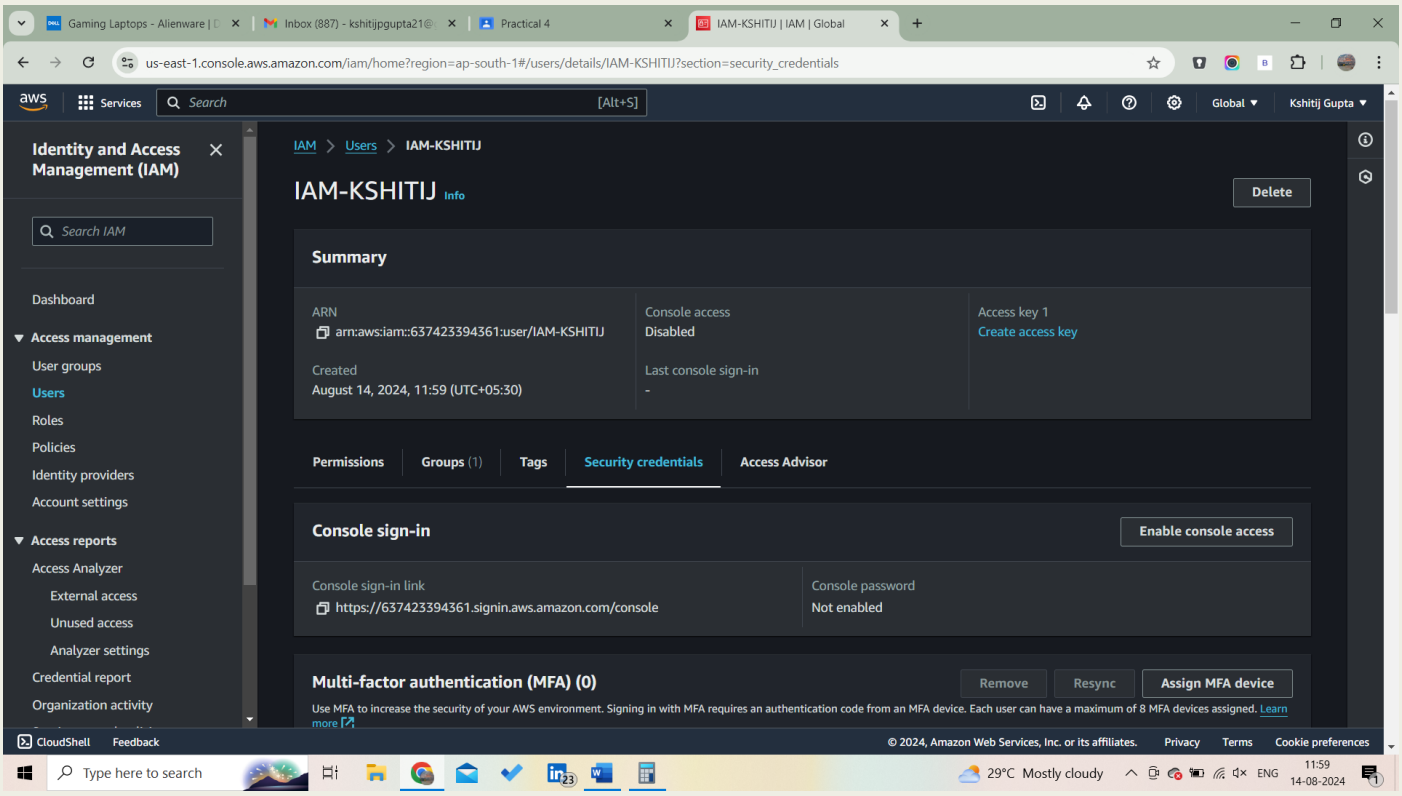
Step-12: Review your settings



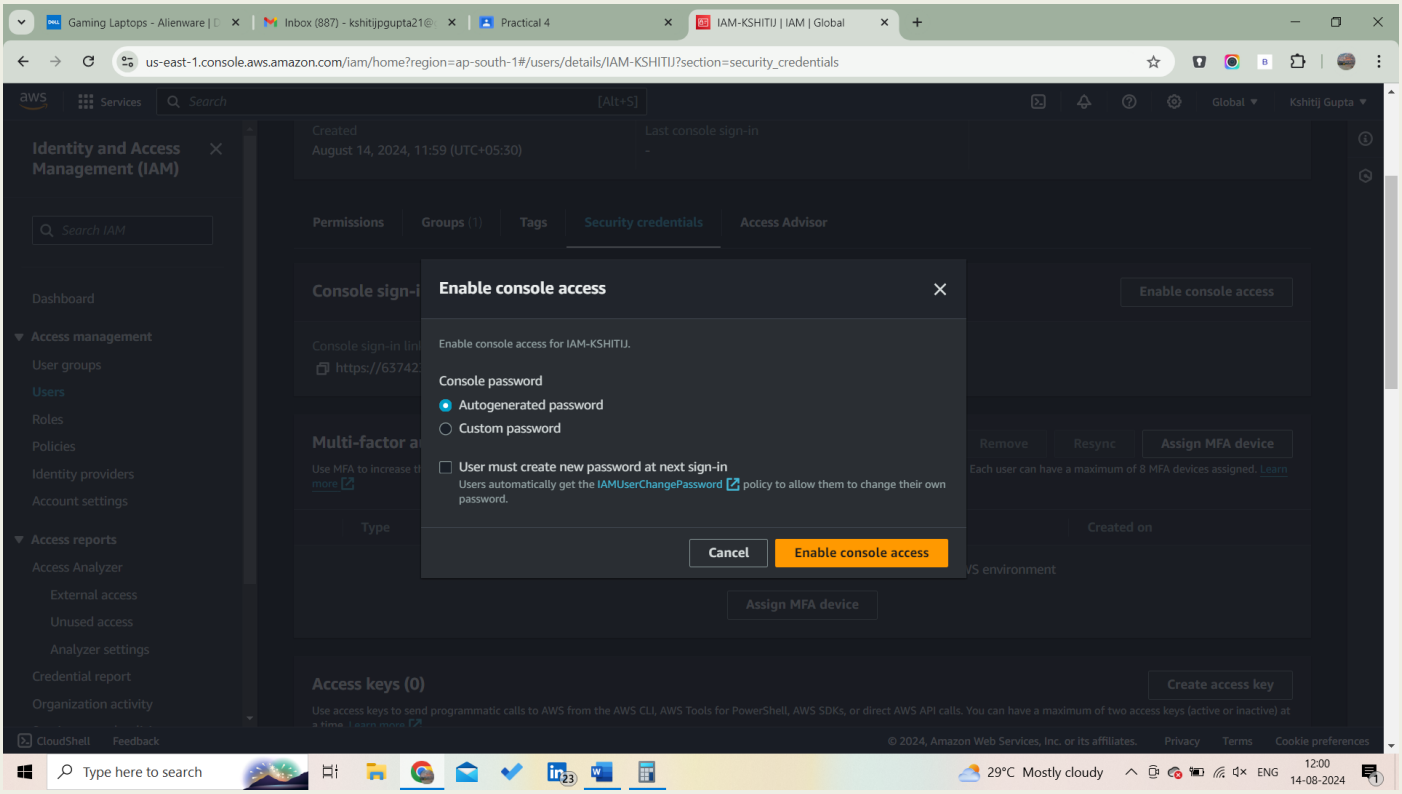
Step-13: User is created



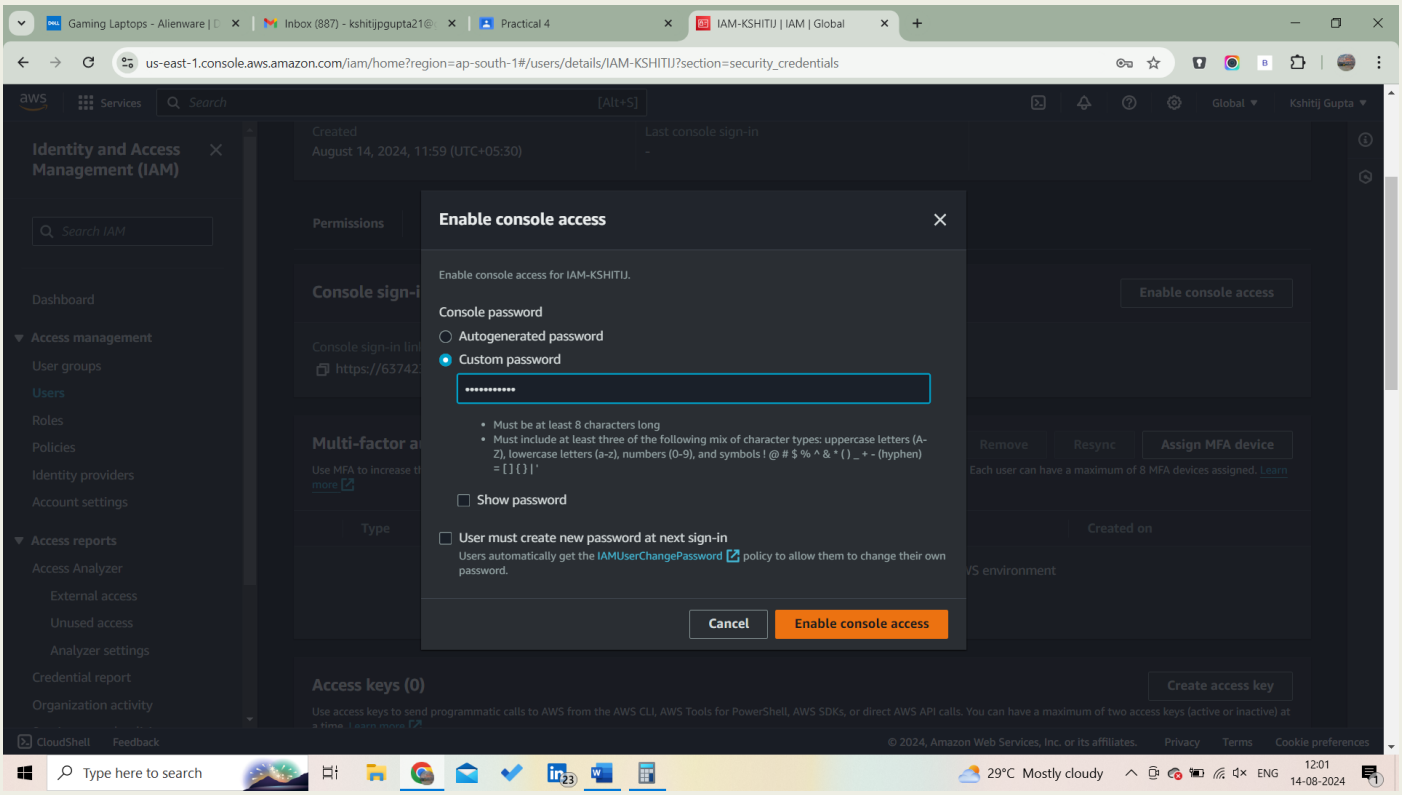
Step-14: click on the user and enable the console access



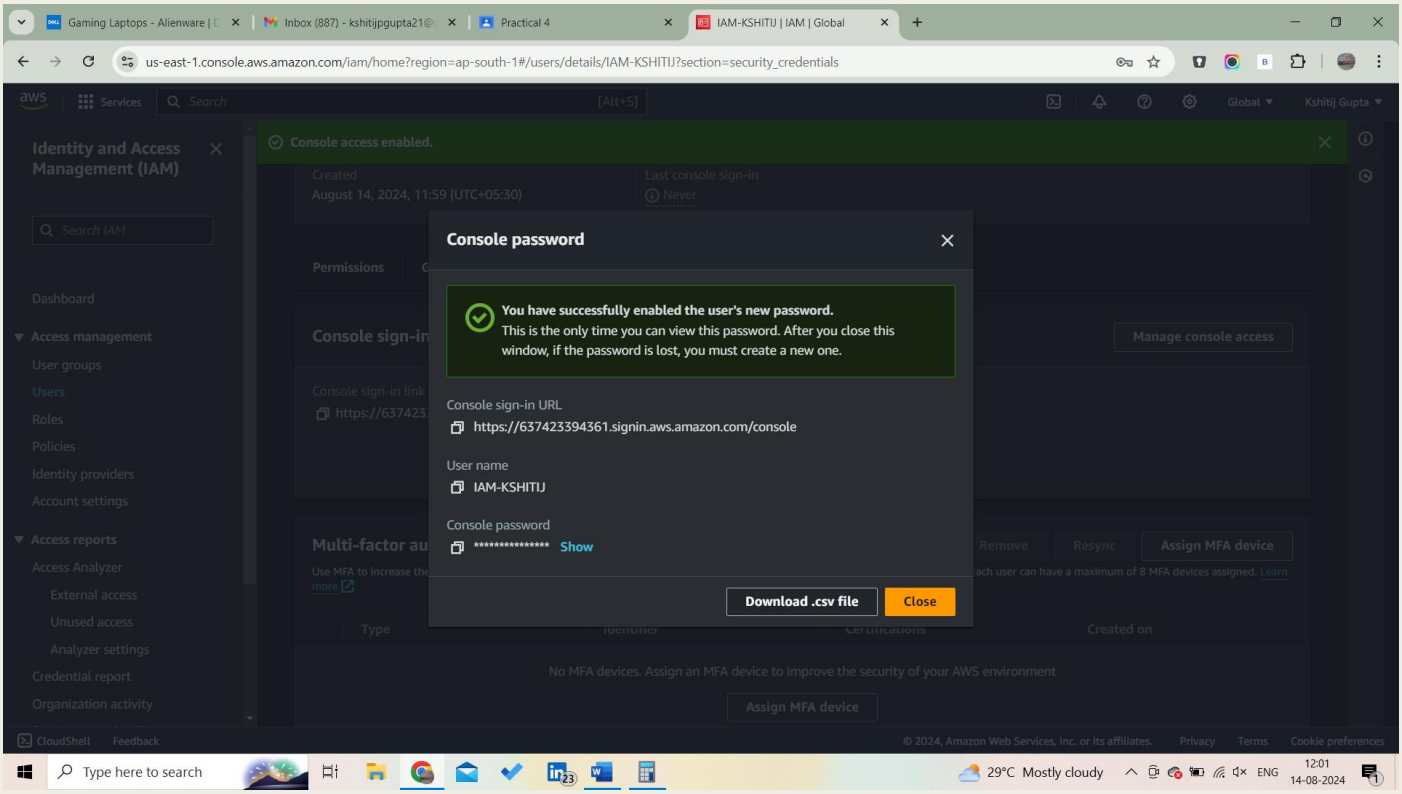
Step-15: select the option



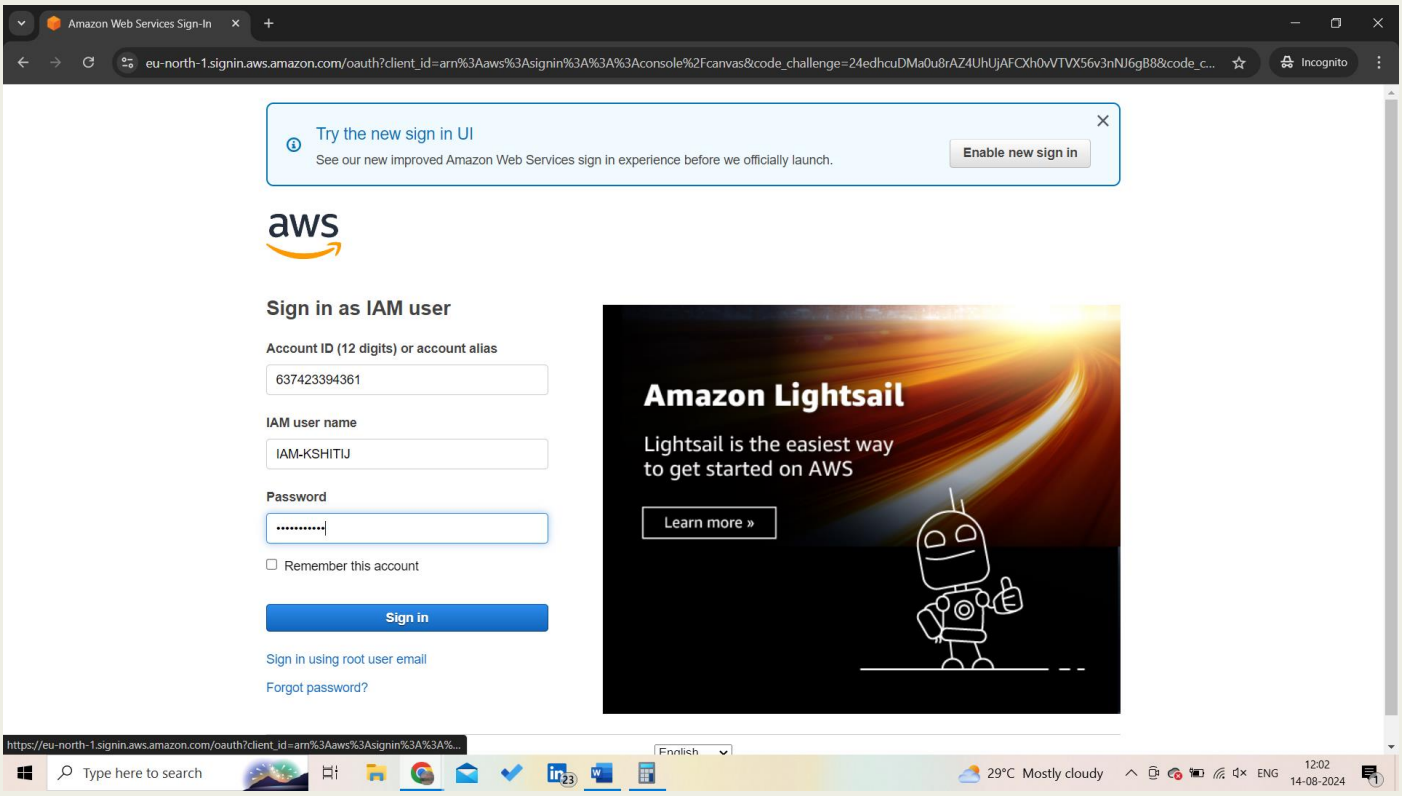
Step-16: set the password



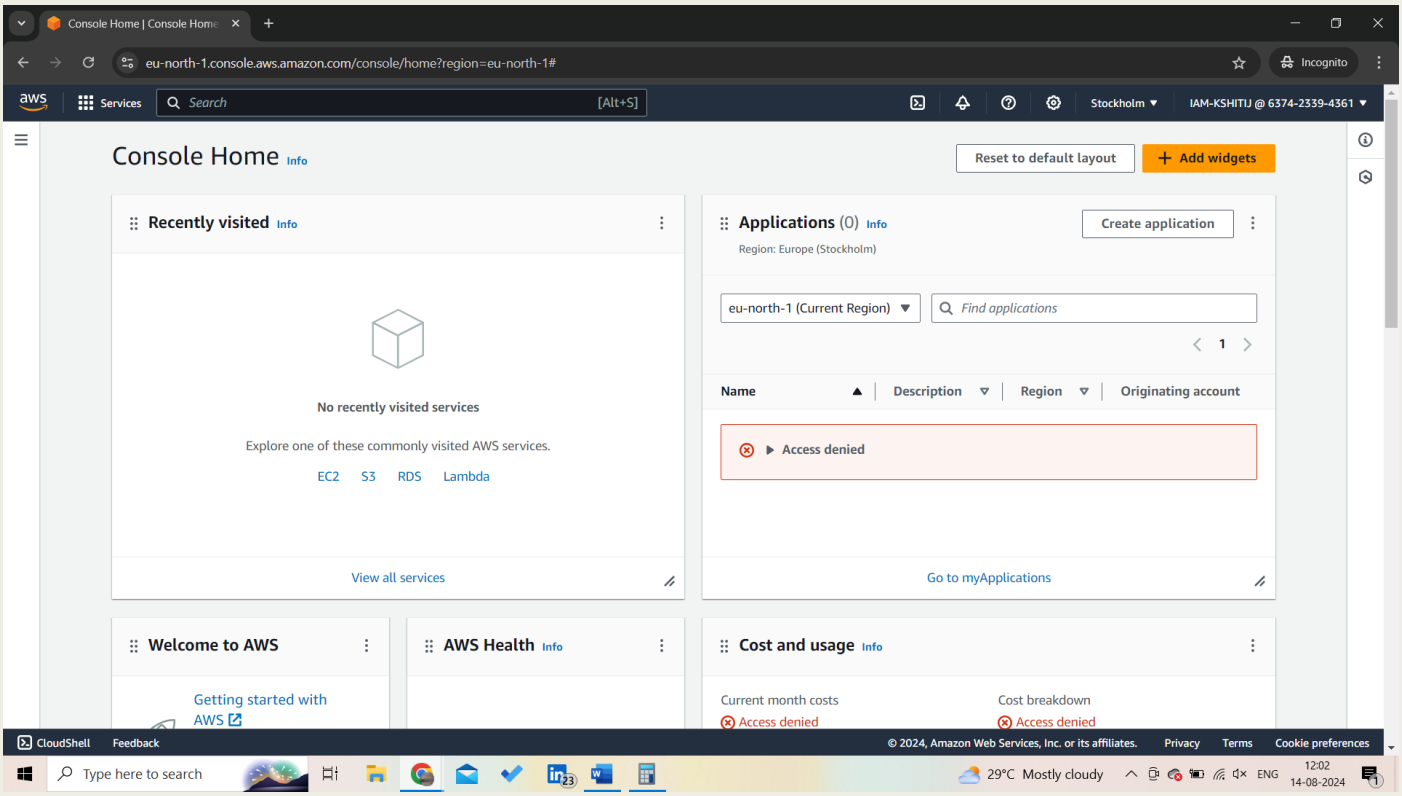
Step-17: download csv



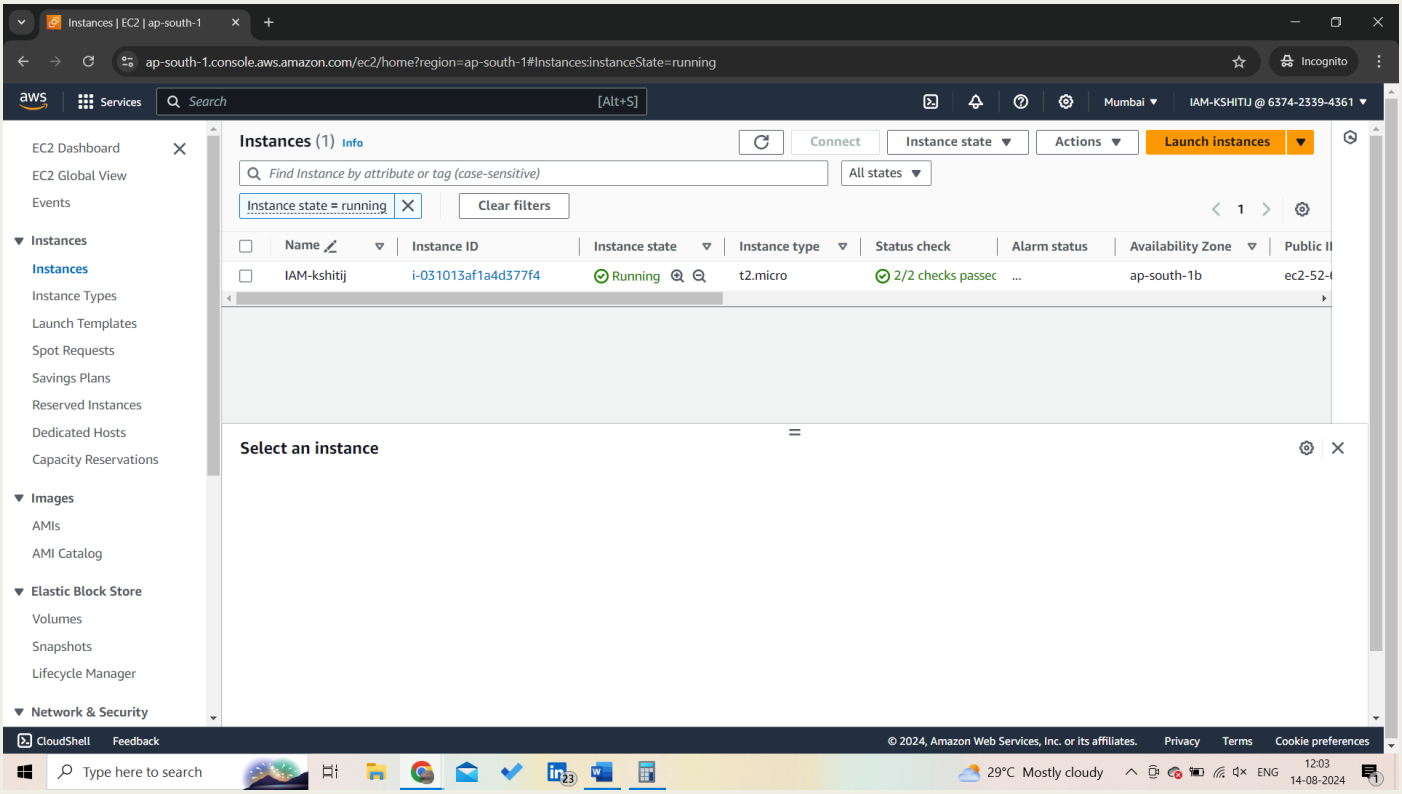
Step-18: copy the link and past on incognito web



Step-19: only EC2 service's access is provide and other's services are banned for created user

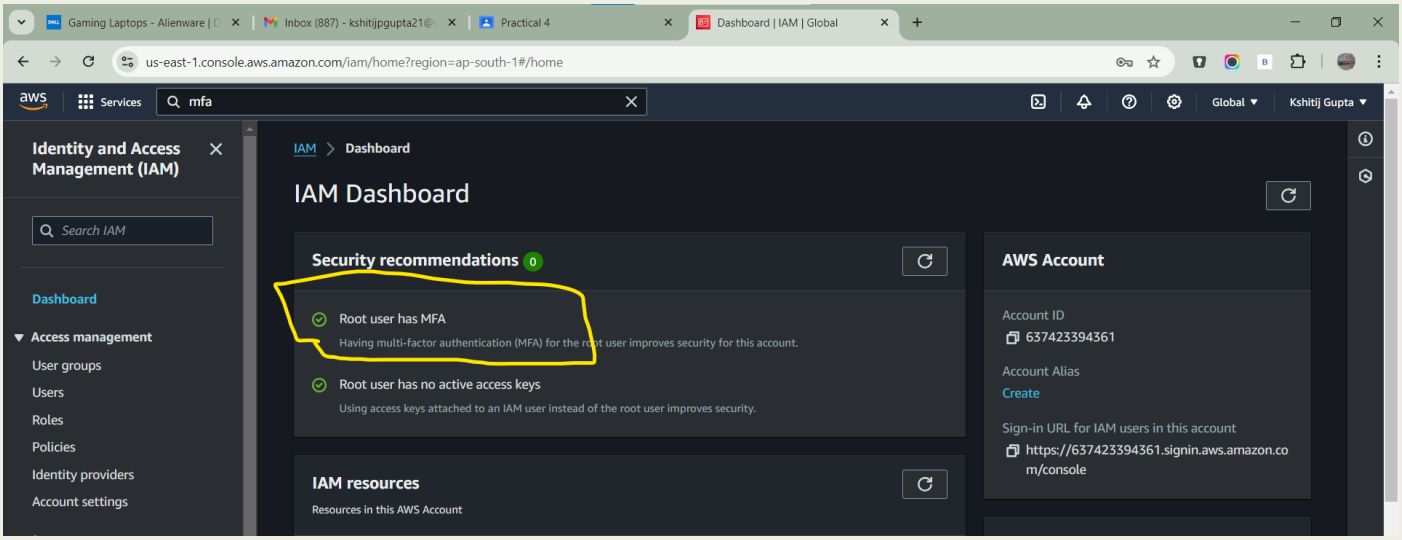


Step-20: you can see

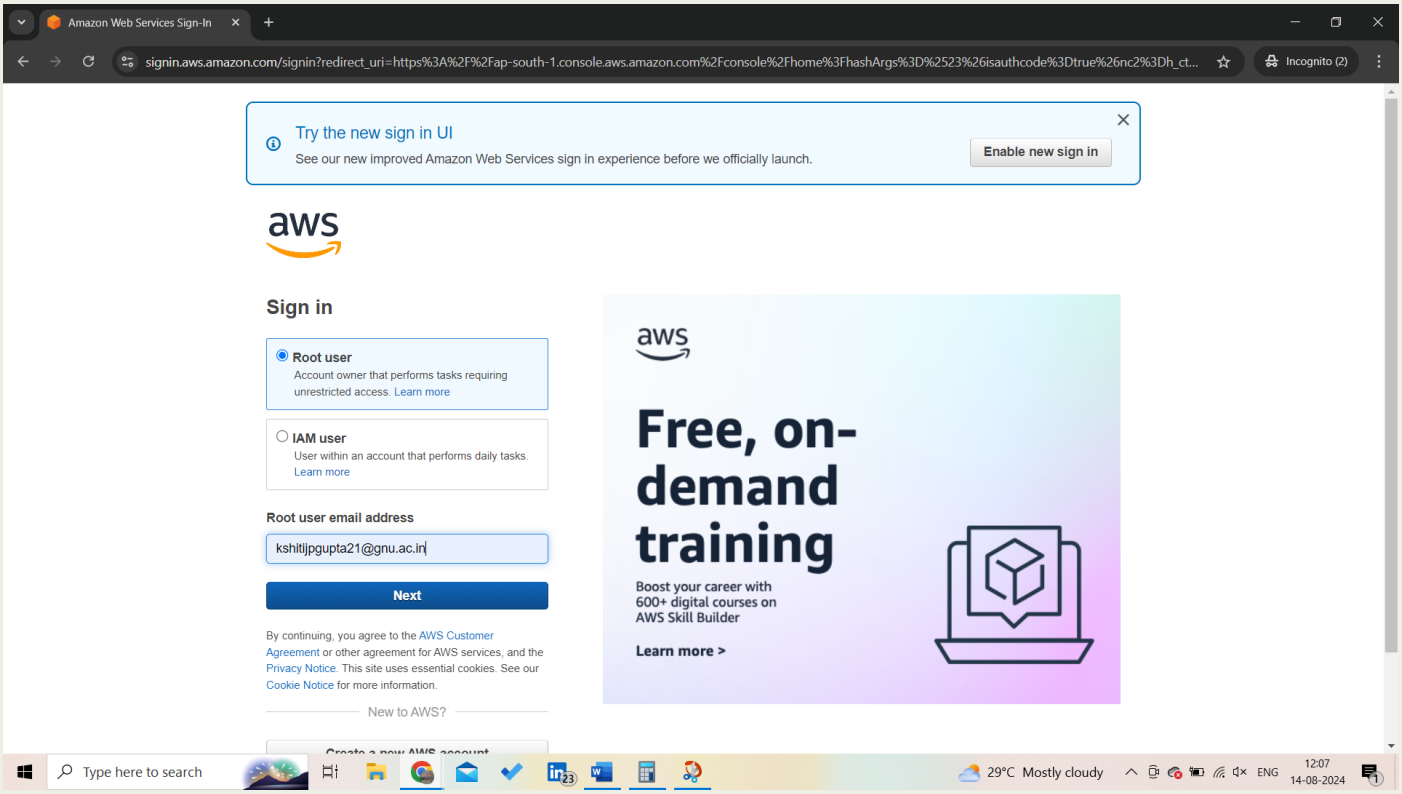


- **Create an MFA for all users.**

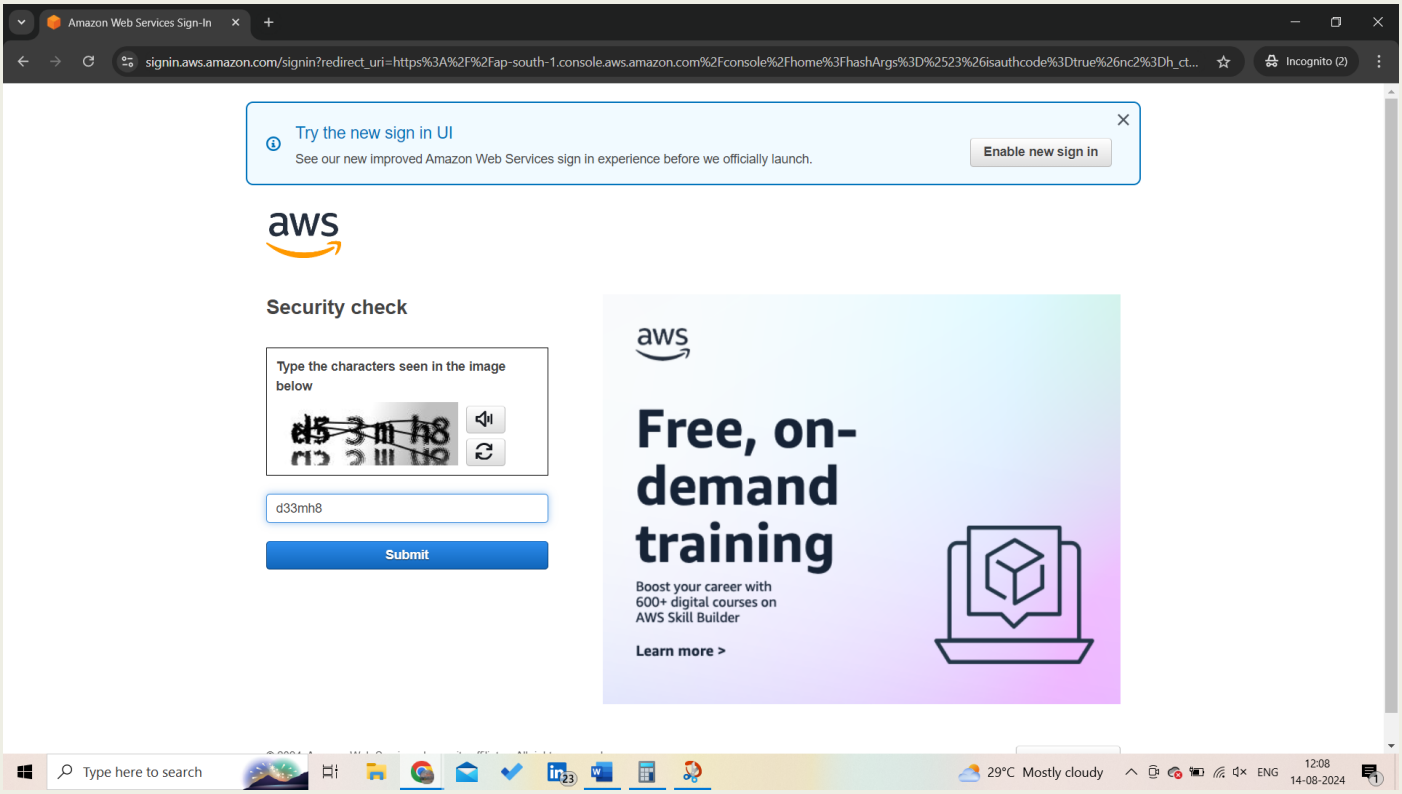
Step-21: I have already set the MFA so I just provide you demo of it



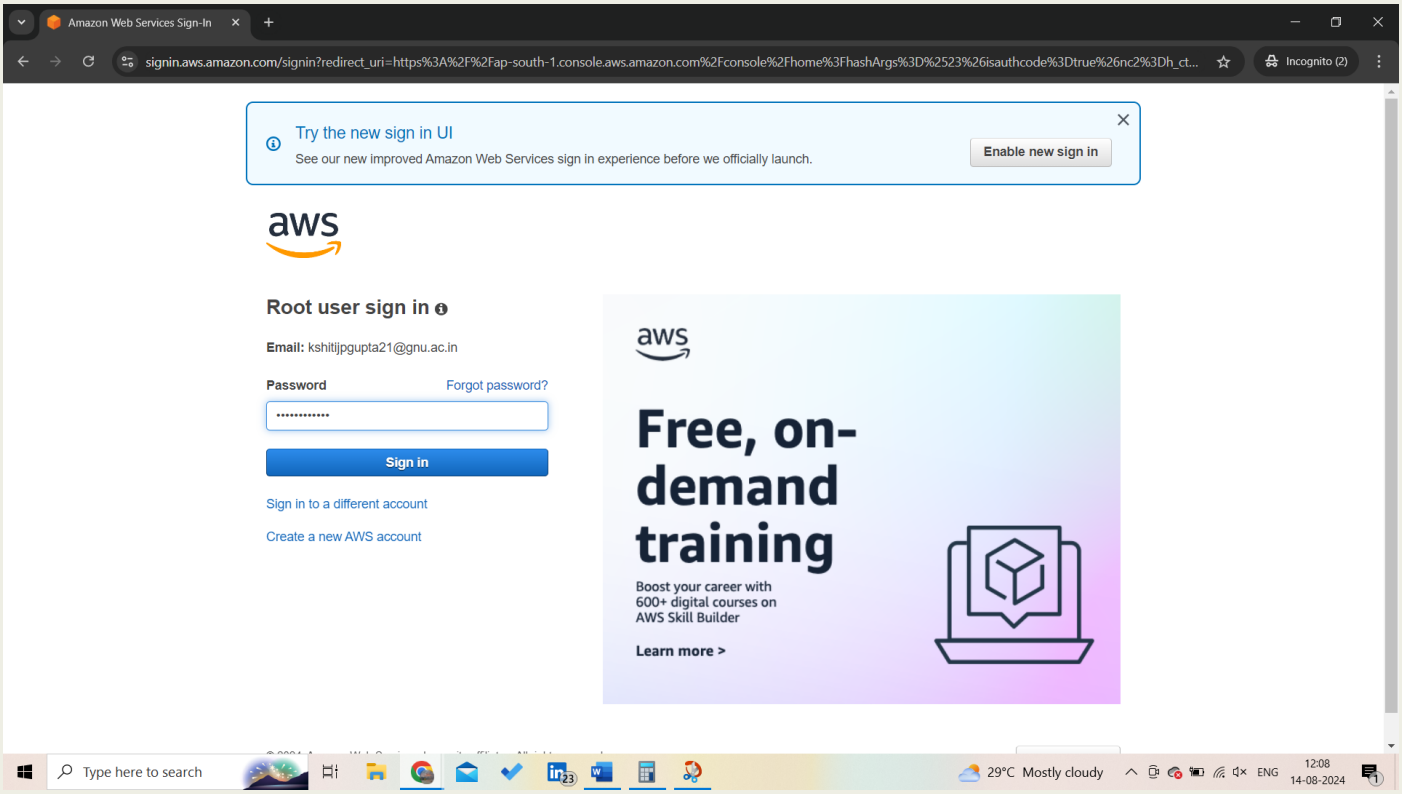
Step-22:



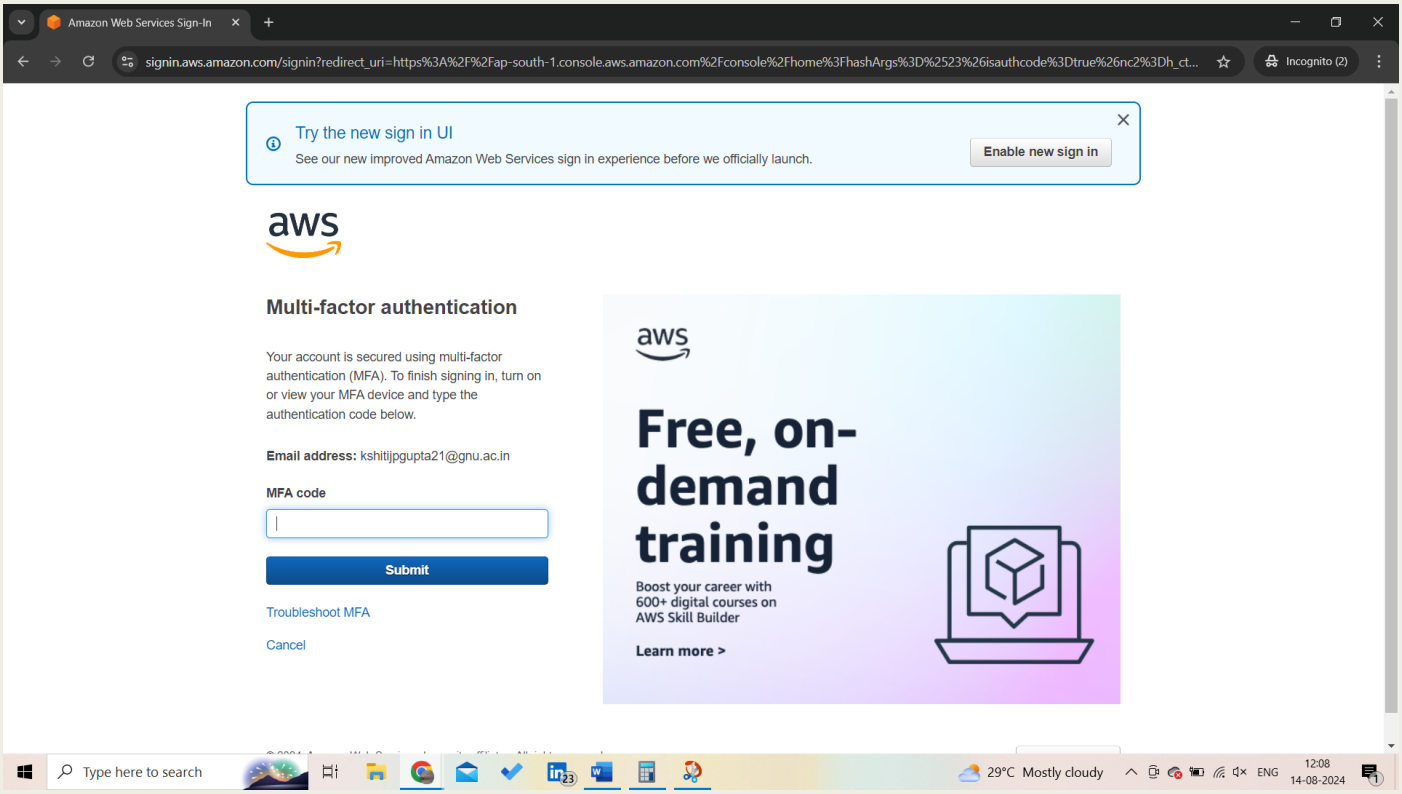
Step-23:



Step-24:



Step-25:


Amazon Web Services Sign-In
signin.aws.amazon.com/signin?redirect_uri=https%3A%2F%2Fap-south-1.console.aws.amazon.com%2Fconsole%2Fhome%3FhashArgs%3D%2523%26isauthcode%3Dtrue%26nc2%3Dh_ct...
Incognito (2)
Try the new sign in UI
See our new improved Amazon Web Services sign in experience before we officially launch.
Enable new sign in
aws
Multi-factor authentication
Your account is secured using multi-factor authentication (MFA). To finish signing in, turn on or view your MFA device and type the authentication code below.
Email address: kshitijpgupta21@gnu.ac.in
MFA code
Submit
Troubleshoot MFA
Cancel
Free, on-demand training
Boost your career with 600+ digital courses on AWS Skill Builder
Learn more >
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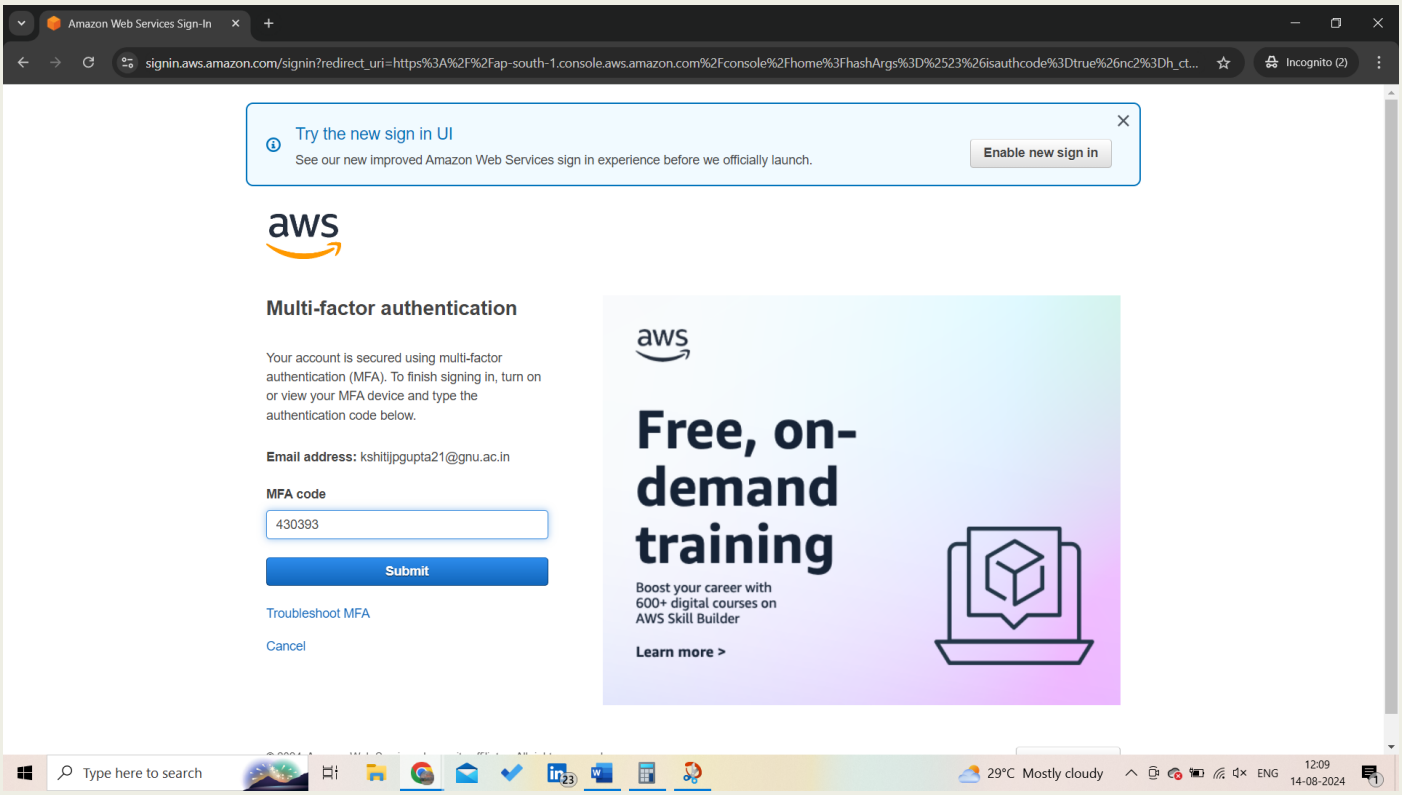
Step-26:


Amazon Web Services Sign-In
signin.aws.amazon.com/signin?redirect_uri=https%3A%2F%2Fap-south-1.console.aws.amazon.com%2Fconsole%2Fhome%3FhashArgs%3D%2523%26isauthcode%3Dtrue%26nc2%3Dh_ct...
Incognito (2)
Try the new sign in UI
See our new improved Amazon Web Services sign in experience before we officially launch.
Enable new sign in
aws
Multi-factor authentication
Your account is secured using multi-factor authentication (MFA). To finish signing in, turn on or view your MFA device and type the authentication code below.
Email address: kshitijpgupta21@gnu.ac.in
MFA code
430393
Submit
Troubleshoot MFA
Cancel
Free, on-demand training
Boost your career with 600+ digital courses on AWS Skill Builder
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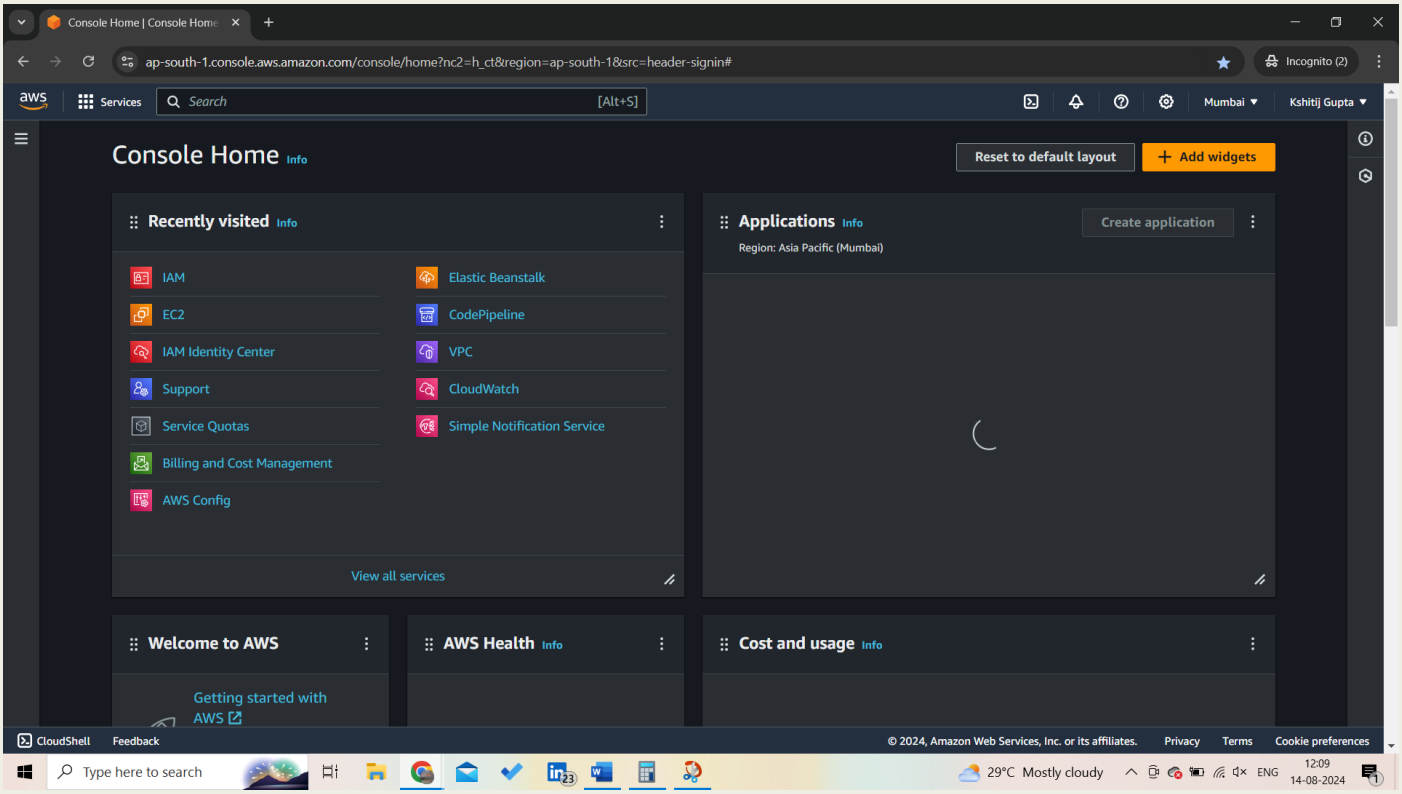
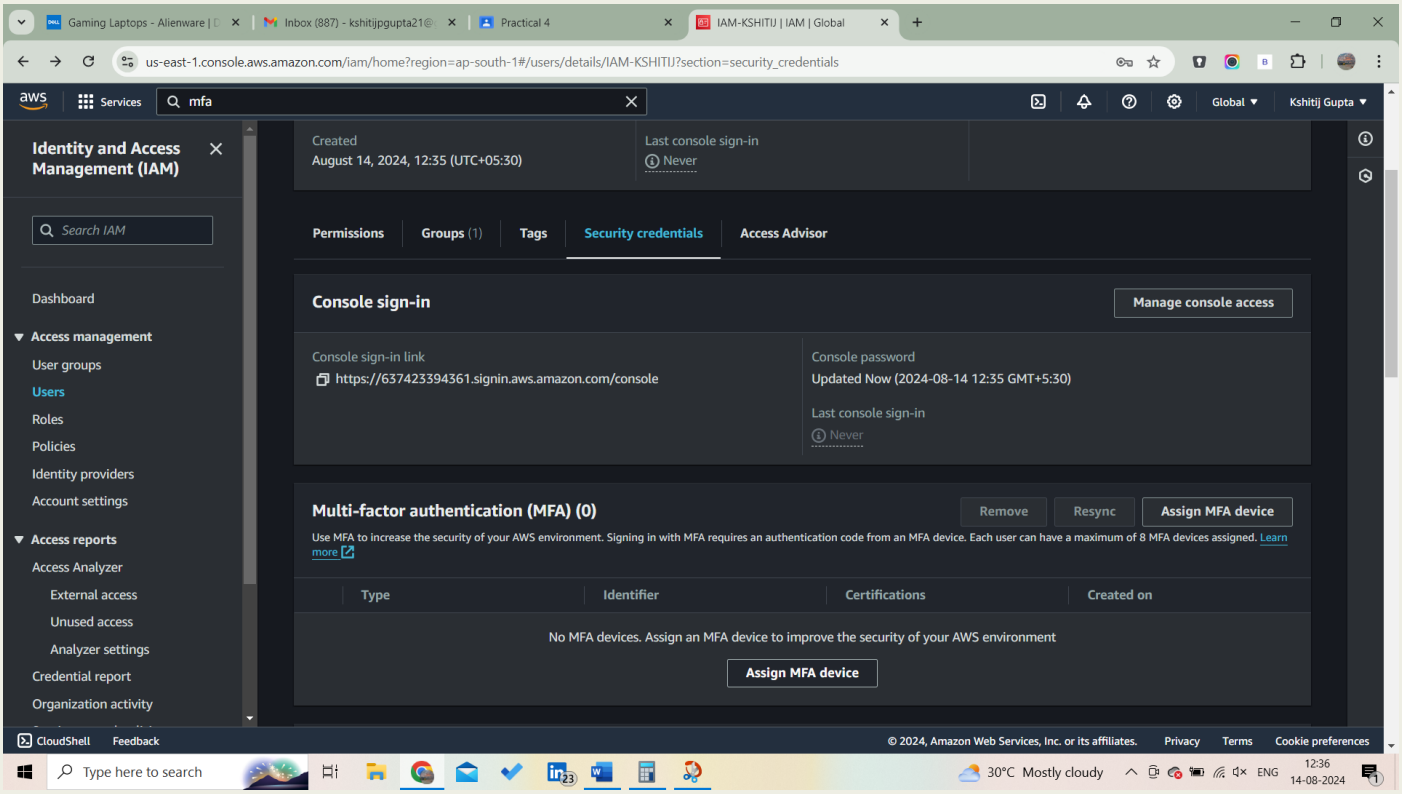
Step-27:



- **Set The MFA for created user:**




Gaming Laptops - Alienware | D
Inbox (887) - kshitijpgupta21@
Practical 4
Assign MFA device | IAM | Glob
us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/users/details/IAM-KSHITIJ/mfa
aws
Services
mfa
Global
Kshitij Gupta
Select MFA device
Info
Step 2
Set up device
MFA device name
Device name
This name will be used within the identifying ARN for this device.
IAM-TESTING
Maximum 64 characters. Use alphanumeric and '+ = , . @ - _' characters.
MFA device
Device options
In addition to username and password, you will use this device to authenticate into your account.
Passkey or security key
Authenticate using your fingerprint, face, or screen lock. Create a passkey on this device or use another device, like a FIDO2 security key.
Authenticator app
Authenticate using a code generated by an app installed on your mobile device or computer.
CloudShell
Feedback
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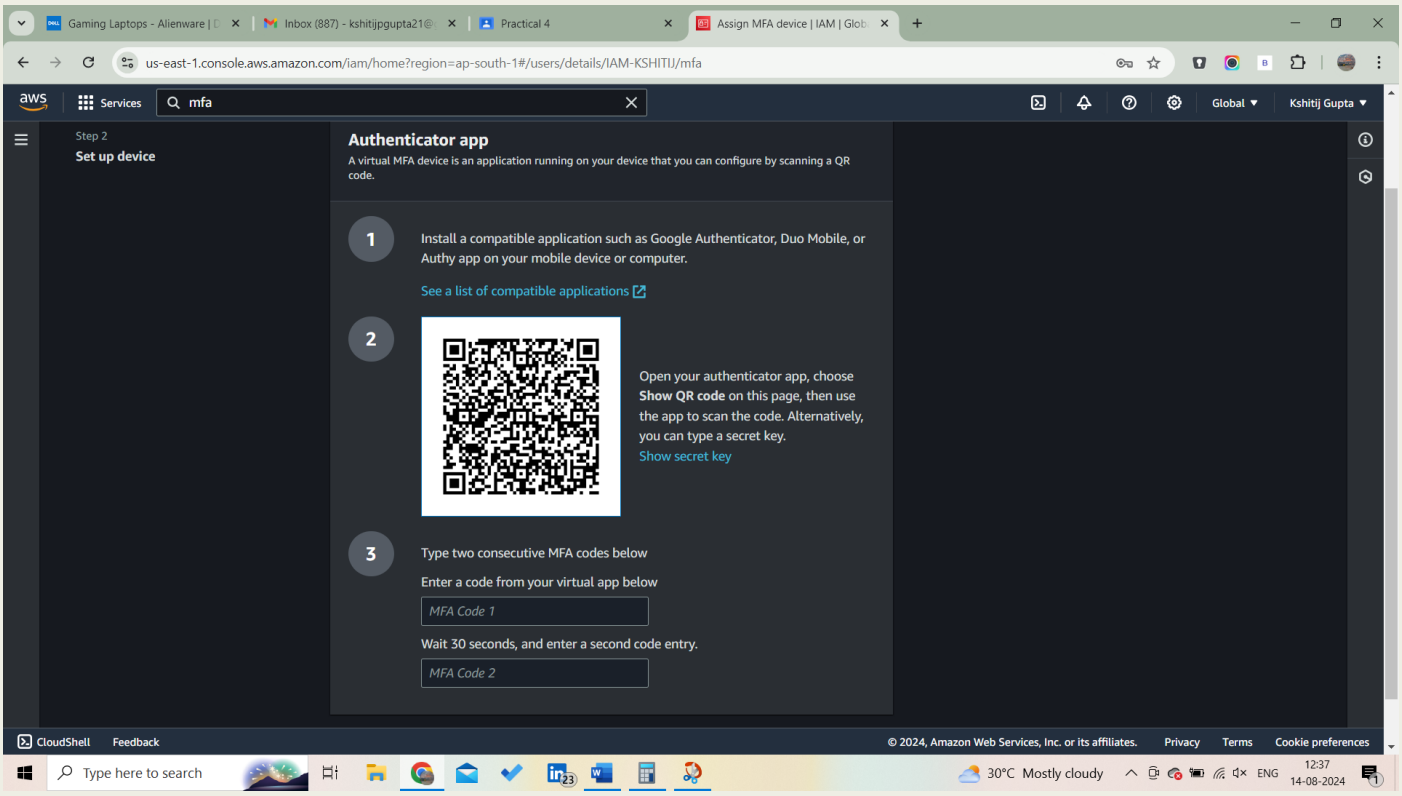
Gaming Laptops - Alienware | D
Inbox (887) - kshitijpgupta21@
Practical 4
Assign MFA device | IAM | Glob
us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/users/details/IAM-KSHITIJ/mfa
aws
Services
mfa
Global
Kshitij Gupta
Step 2
Set up device
Authenticator app
A virtual MFA device is an application running on your device that you can configure by scanning a QR code.
1
Install a compatible application such as Google Authenticator, Duo Mobile, or Authy app on your mobile device or computer.
See a list of compatible applications
2
Open your authenticator app, choose Show QR code on this page, then use the app to scan the code. Alternatively, you can type a secret key.
Show secret key
3
Type two consecutive MFA codes below
Enter a code from your virtual app below
MFA Code 1
Wait 30 seconds, and enter a second code entry.
MFA Code 2
CloudShell
Feedback
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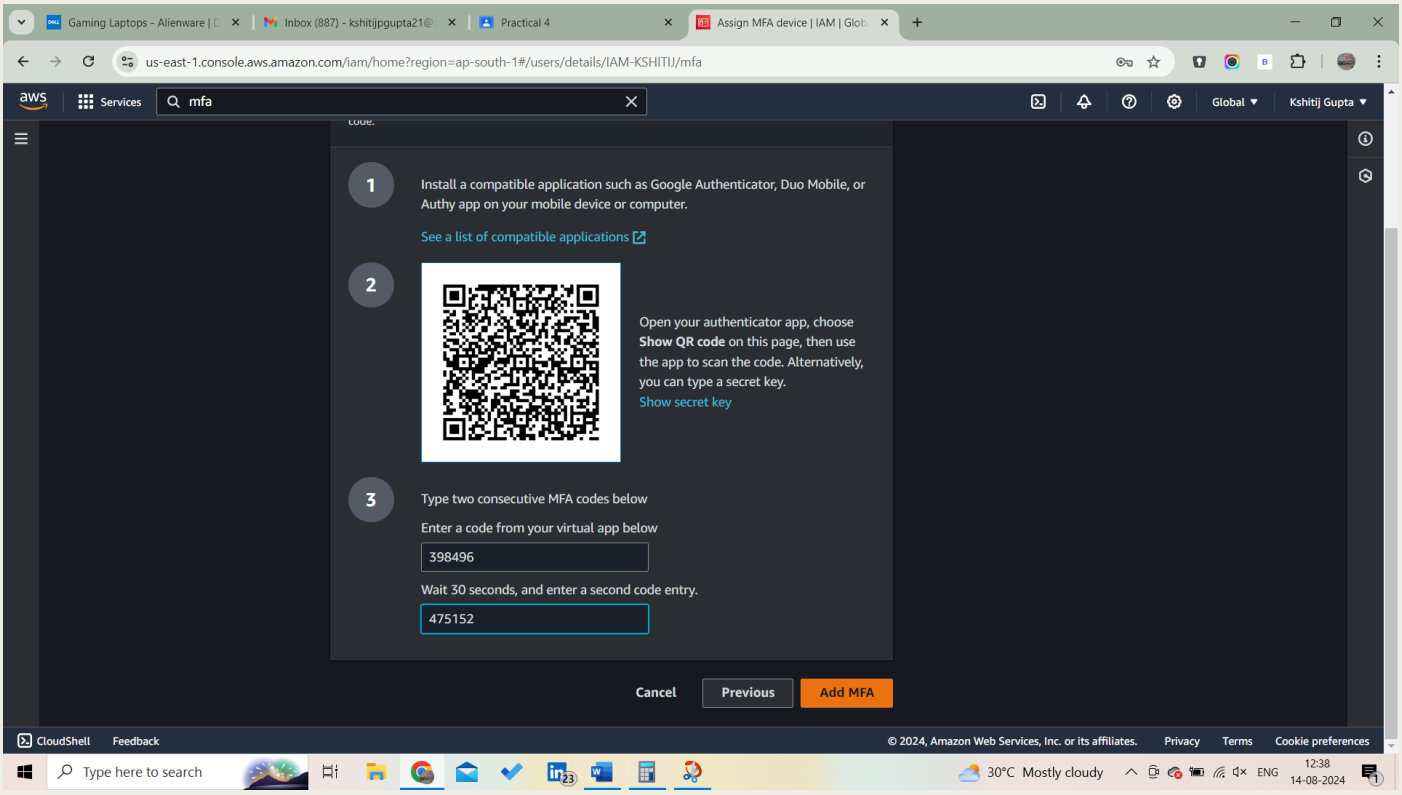
Gaming Laptops - Alienware | D
Inbox (887) - kshitijpgupta21@
Practical 4
Assign MFA device | IAM | Glob
us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/users/details/IAM-KSHITIJ/mfa
aws
Services
mfa
Global
Kshitij Gupta
1
Install a compatible application such as Google Authenticator, Duo Mobile, or Authy app on your mobile device or computer.
See a list of compatible applications
2
Open your authenticator app, choose Show QR code on this page, then use the app to scan the code. Alternatively, you can type a secret key.
Show secret key
3
Type two consecutive MFA codes below
Enter a code from your virtual app below
398496
Wait 30 seconds, and enter a second code entry.
475152
Cancel
Previous
Add MFA
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
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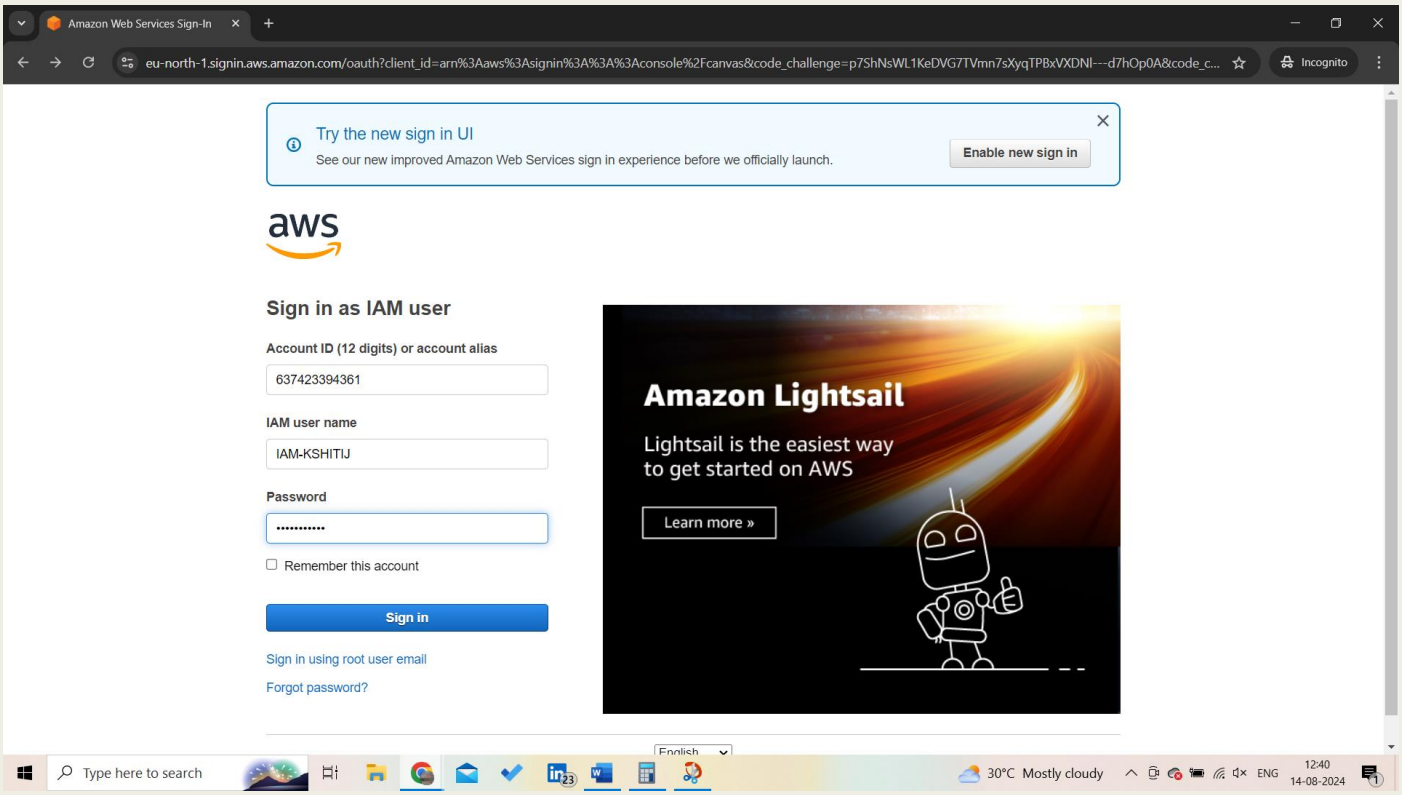
14-08-2024


Amazon Web Services Sign-In
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Incognito
Try the new sign in UI
See our new improved Amazon Web Services sign in experience before we officially launch.
Enable new sign in
aws
Sign in as IAM user
Account ID (12 digits) or account alias
637423394361
IAM user name
IAM-KSHITIJ
Password
Remember this account
Sign in
Sign in using root user email
Forgot password?
Amazon Lightsail
Lightsail is the easiest way to get started on AWS
Learn more »
English
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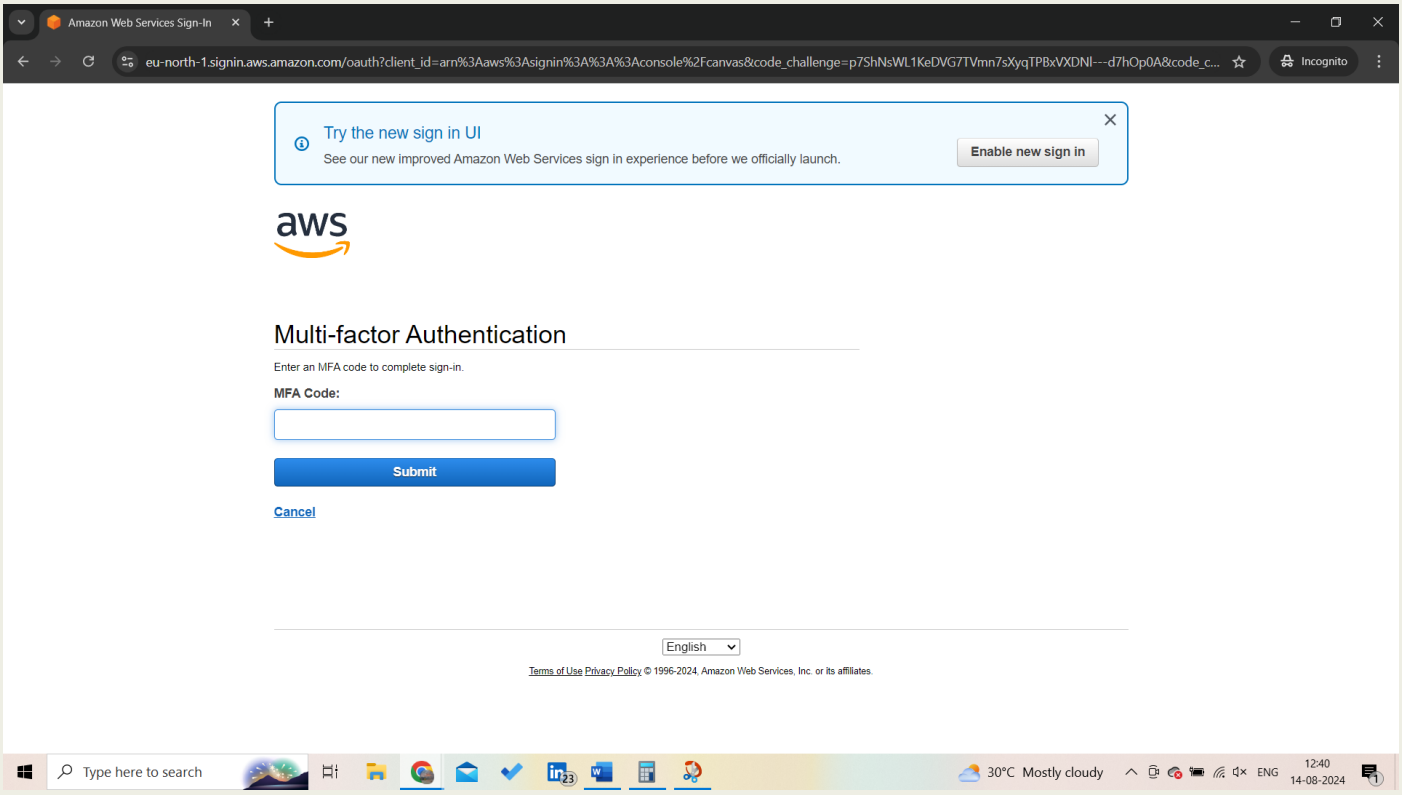
Amazon Web Services Sign-In
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Incognito
Try the new sign in UI
See our new improved Amazon Web Services sign in experience before we officially launch.
Enable new sign in
aws
Multi-factor Authentication
Enter an MFA code to complete sign-in.
MFA Code:
Submit
Cancel
English
Terms of Use Privacy Policy © 1996-2024, Amazon Web Services, Inc. or its affiliates.
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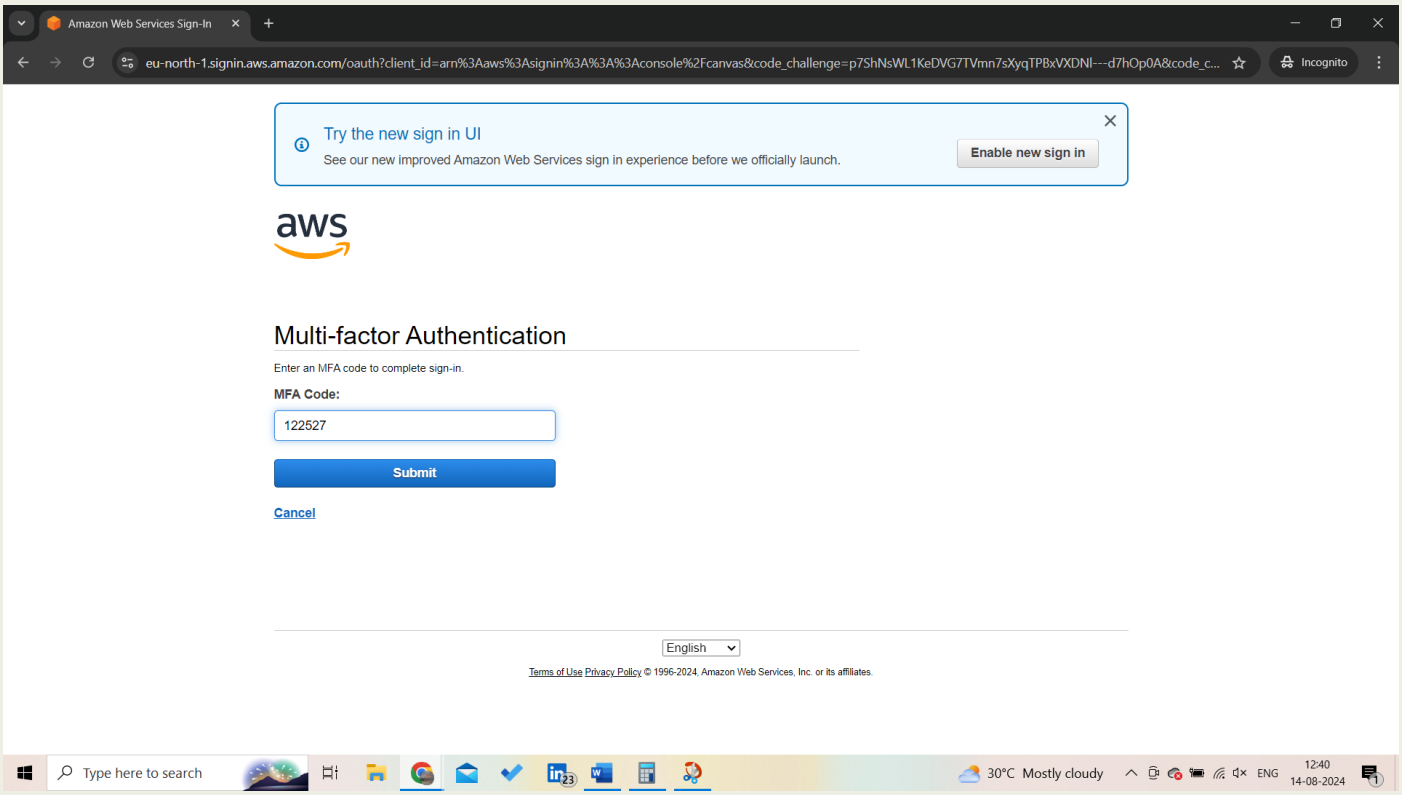
12:40
14-08-2024


Amazon Web Services Sign-In
eu-north-1.signin.aws.amazon.com/oauth?client_id=arn%3Aaws%3Asignin%3A%3A%3Aconsole%2Fcanvas&code_challenge=p7ShNsWL1KeDVG7TVmn7sXyqTPBxVXDNl---d7hOp0A&code_c...
Incognito
Try the new sign in UI
See our new improved Amazon Web Services sign in experience before we officially launch.
Enable new sign in
aws
Multi-factor Authentication
Enter an MFA code to complete sign-in.
MFA Code:
122527
Submit
Cancel
English
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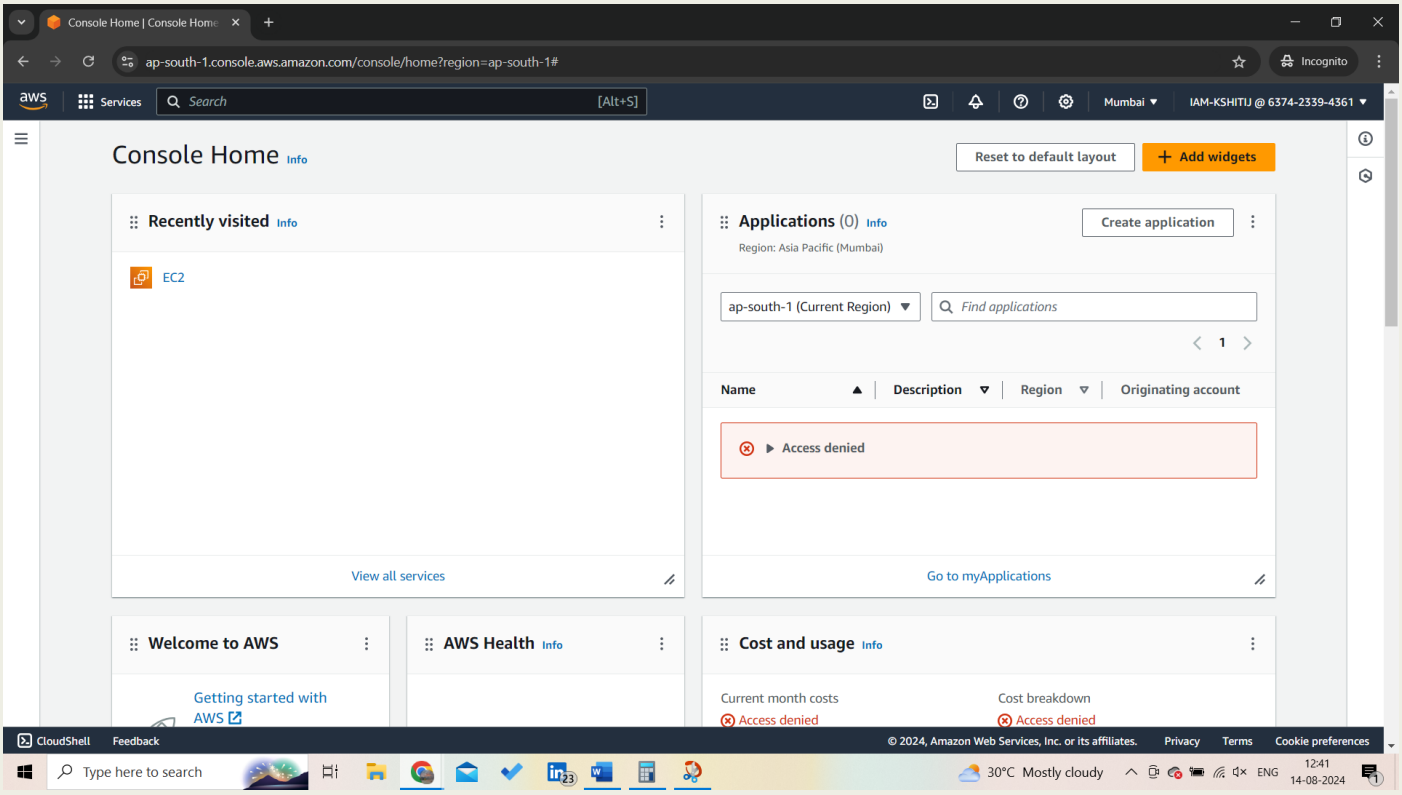
Type here to search
30°C Mostly cloudy
ENG
12:40
14-08-2024


Console Home | Console Home
ap-south-1.console.aws.amazon.com/console/home?region=ap-south-1#
Incognito
aws
Services
Search
[Alt+S]
Mumbai
IAM-KSHITIJ @ 6374-2339-4361
Console Home Info
Reset to default layout
+ Add widgets
Recently visited Info
EC2
View all services
Applications (0) Info
Region: Asia Pacific (Mumbai)
Create application
ap-south-1 (Current Region)
Find applications
1
Name
Description
Region
Originating account
Access denied
Go to myApplications
Welcome to AWS
Getting started with AWS
AWS Health Info
Cost and usage Info
Current month costs
Access denied
Cost breakdown
Access denied
CloudShell
Feedback
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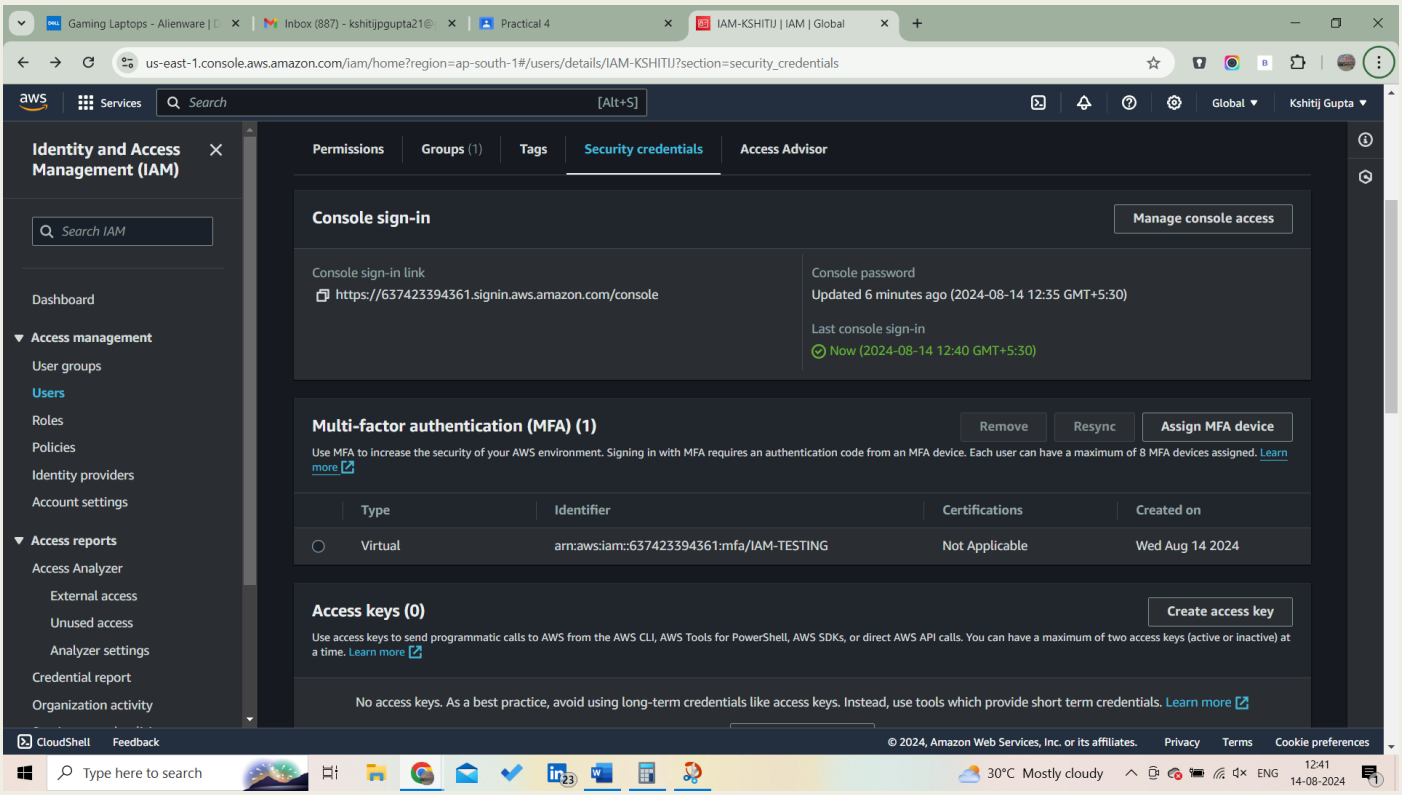
ENG
12:41
14-08-2024


Gaming Laptops - Alienware
Inbox (887) - kshitijpgupta21@
Practical 4
IAM-KSHITIJ | IAM | Global
us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/users/details/IAM-KSHITIJ?section=security_credentials
aws
Services
Search
[Alt+S]
Global
Kshitij Gupta
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access Analyzer
External access
Unused access
Analyzer settings
Credential report
Organization activity
Permissions
Groups (1)
Tags
Security credentials
Access Advisor
Console sign-in
Manage console access
Console sign-in link
https://637423394361.signin.aws.amazon.com/console
Console password
Updated 6 minutes ago (2024-08-14 12:35 GMT+5:30)
Last console sign-in
Now (2024-08-14 12:40 GMT+5:30)
Multi-factor authentication (MFA) (1)
Remove
Resync
Assign MFA device
Use MFA to increase the security of your AWS environment. Signing in with MFA requires an authentication code from an MFA device. Each user can have a maximum of 8 MFA devices assigned. Learn more
Type
Identifier
Certifications
Created on
Virtual
arn:aws:iam::637423394361:mfa/IAM-TESTING
Not Applicable
Wed Aug 14 2024
Access keys (0)
Create access key
Use access keys to send programmatic calls to AWS from the AWS CLI, AWS Tools for PowerShell, AWS SDKs, or direct AWS API calls. You can have a maximum of two access keys (active or inactive) at a time. Learn more
No access keys. As a best practice, avoid using long-term credentials like access keys. Instead, use tools which provide short term credentials. Learn more
CloudShell
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14-08-2024