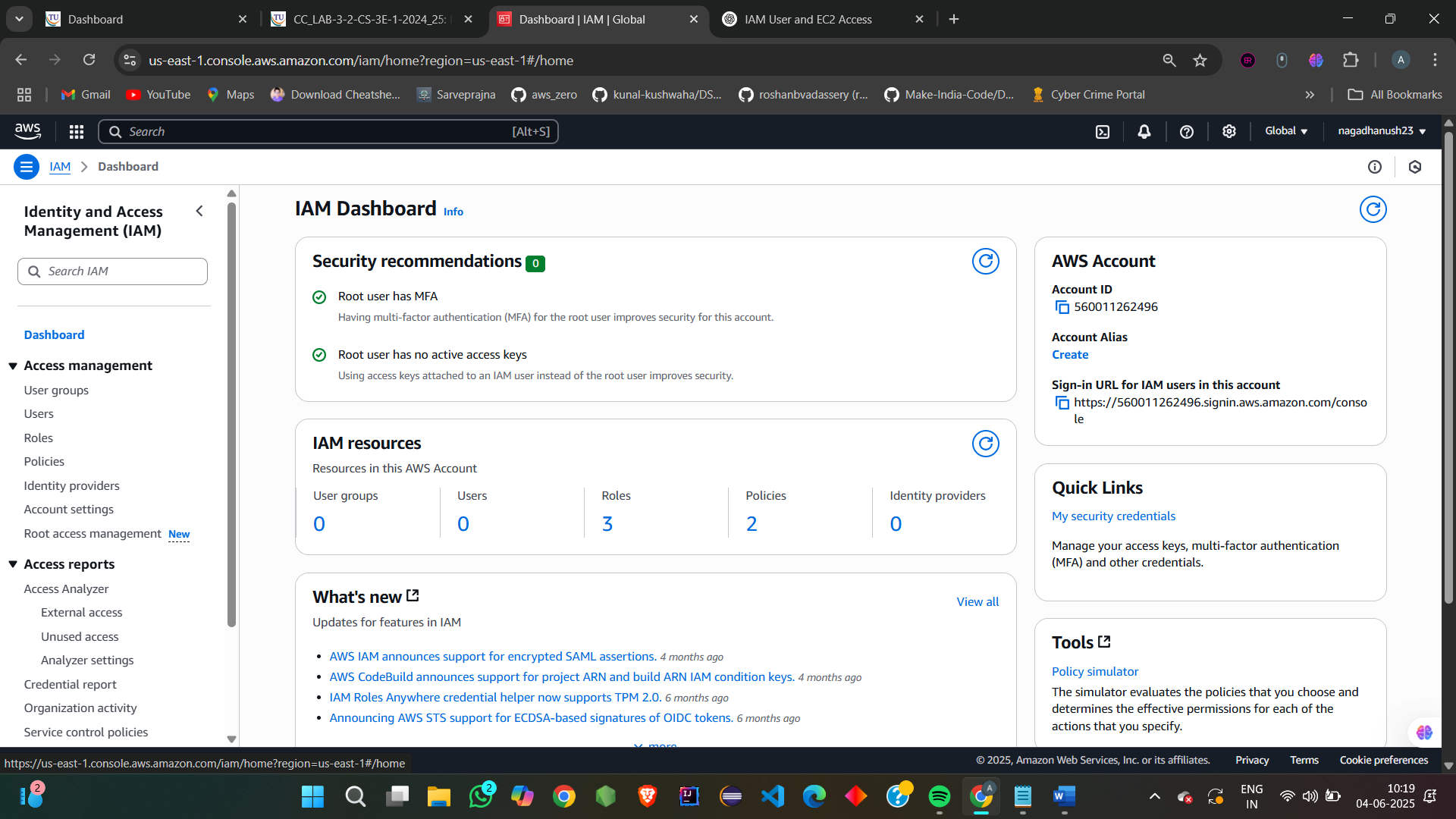
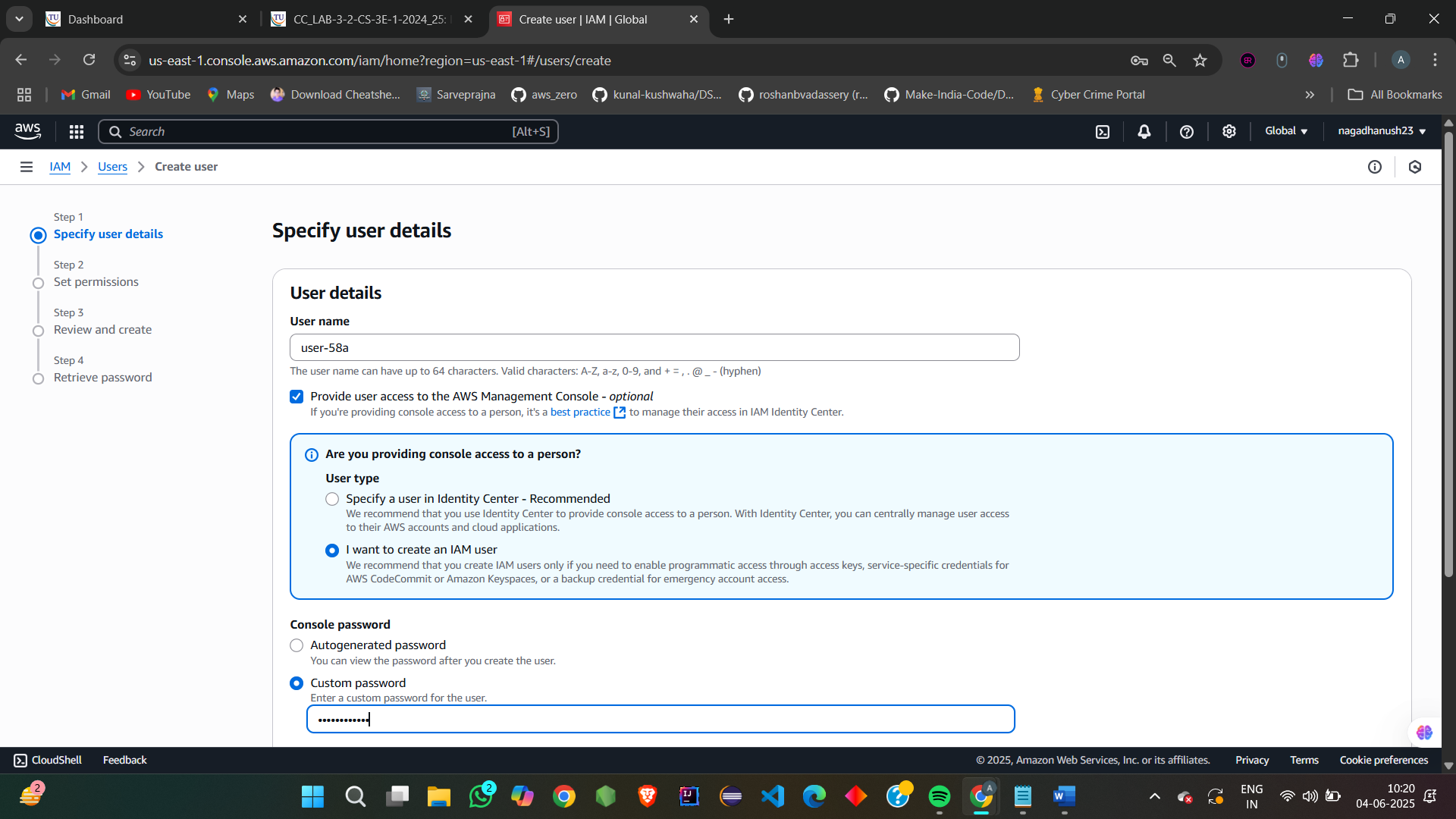
**Experiment 13:Creation of IAM user and group using GUI and CLI**

**A. IAM User Creation Using AWS Management Console**

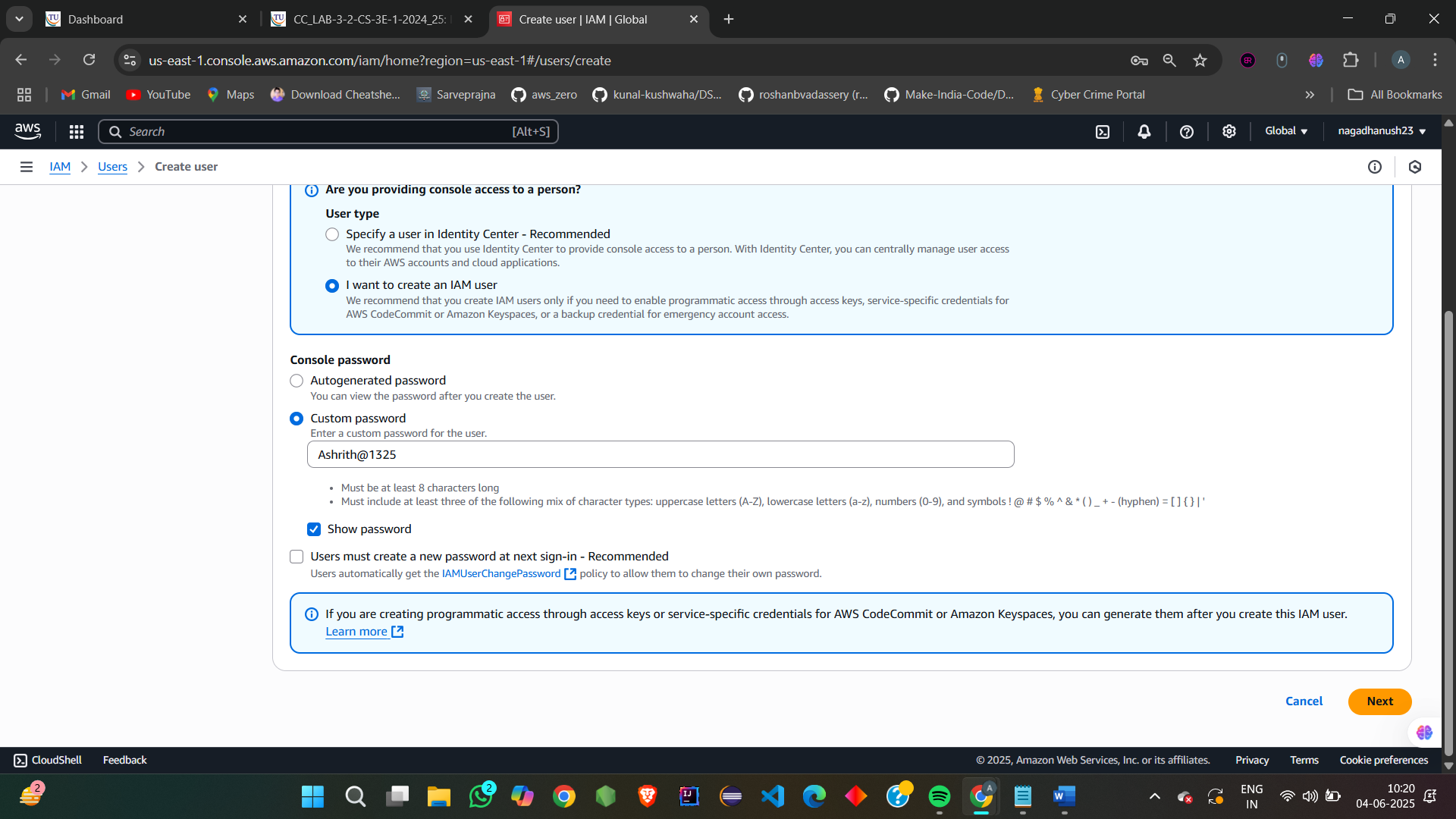
1. **Sign in to AWS Console**
   * Go to:<https://console.aws.amazon.com/>
   * Log in with root/admin credentials.
2. **Navigate to IAM**
   * In the Services menu, search for and select **IAM**.



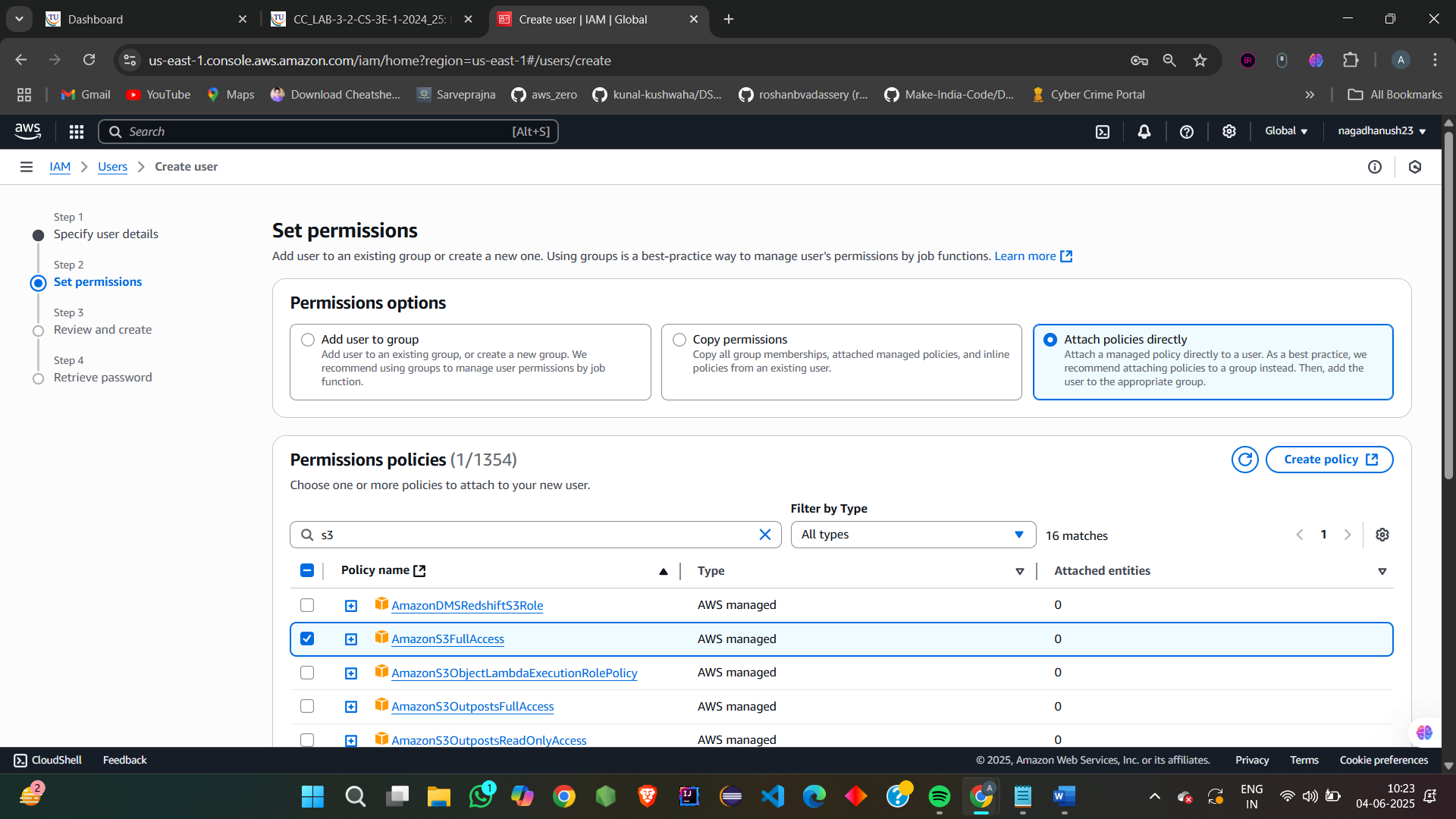
1. **Create a New User**
   * In the left navigation pane, select **Users** → **Create users**.
   * Enter **User name**. (e.g., user-58a)
   * Select checkbox for **AWS Management Console access**



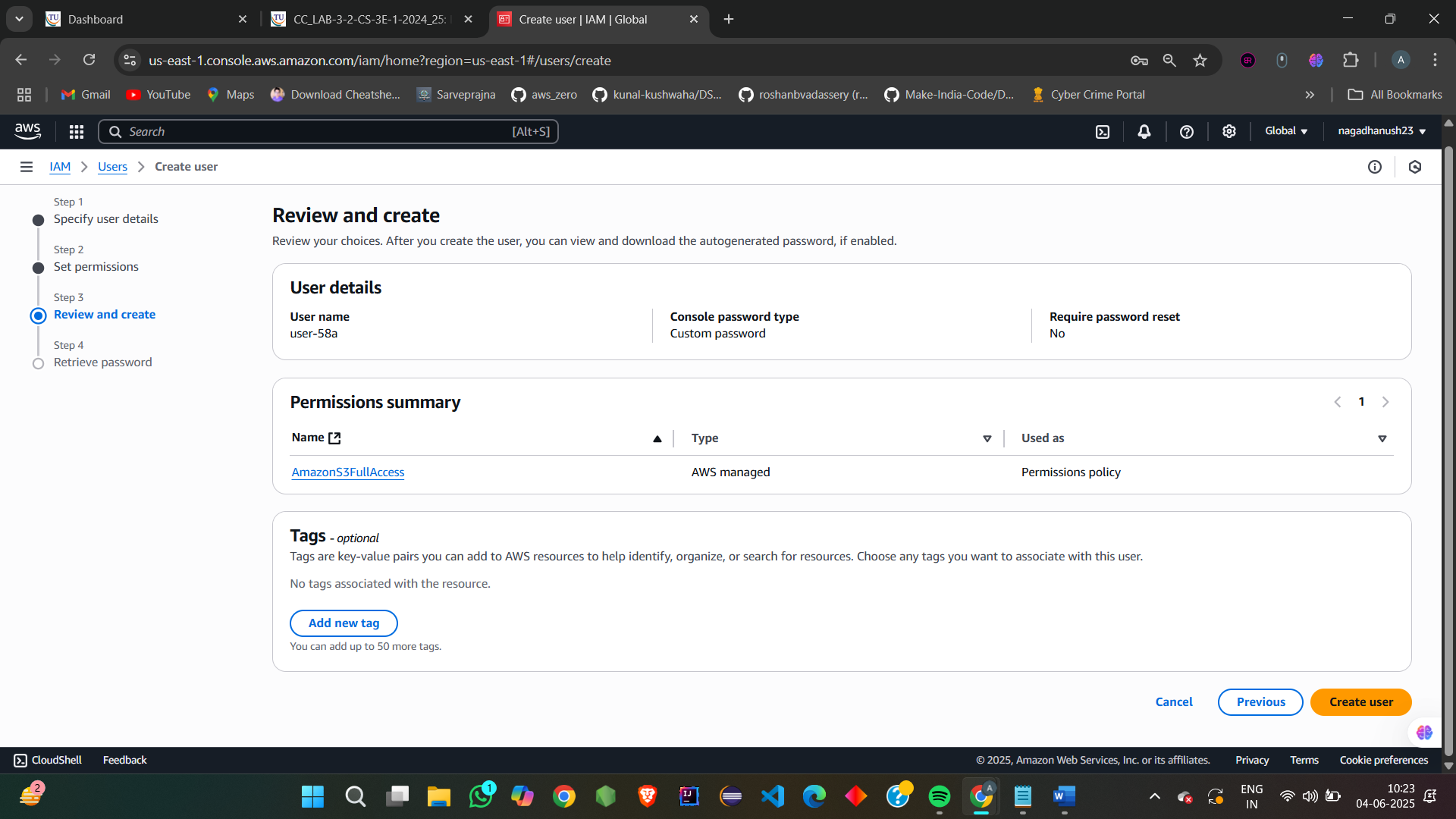
* + Choose one:
    - Autogenerated password
    - Custom password (e.g., Ashrith@1325)

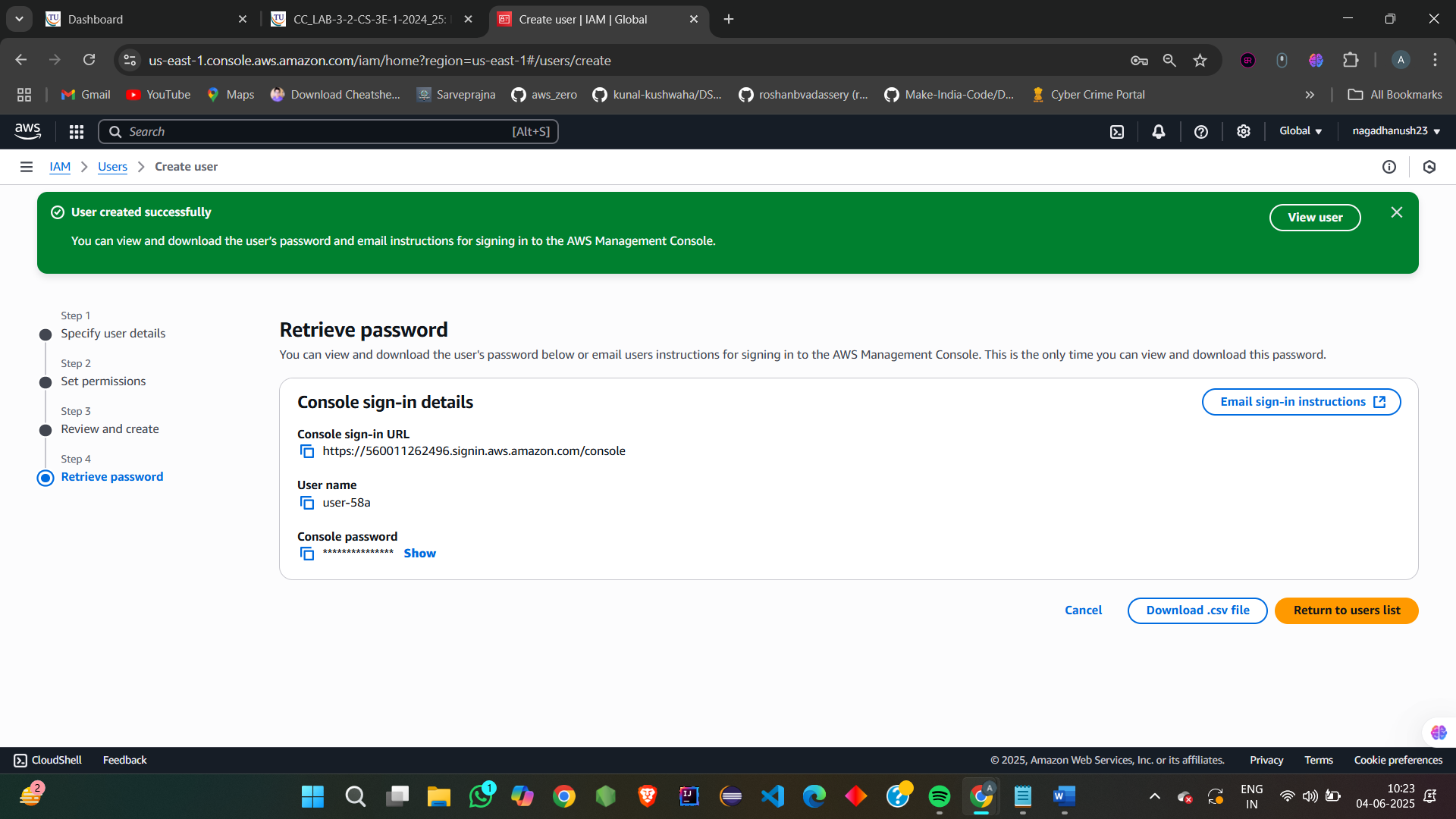
(Optional) Require password reset on next login.

1. **Set Permissions**
   * Choose one:
     + **Add user to group** (recommended)
     + **Copy permissions from existing user**
     + **Attach policies directly**



1. **(Optional) Add Tags**
   * Click **Add new tag** and define key-value pairs.
2. **Review and Create**
   * Click **Create user**.





1. **Retrieve Credentials**
   * Show or download the password.
   * Click **Download .csv** (contains username, URL, password).

Click **Email sign-in instructions**.

**Logging in as IAM User (user-58a)**

**->>Step 1: Go to the IAM login URL for your AWS account**

Open the following URL in your browser (replace the bolded part with your actual account ID — which you already gave):

https:// 560011262496.signin.aws.amazon.com/console

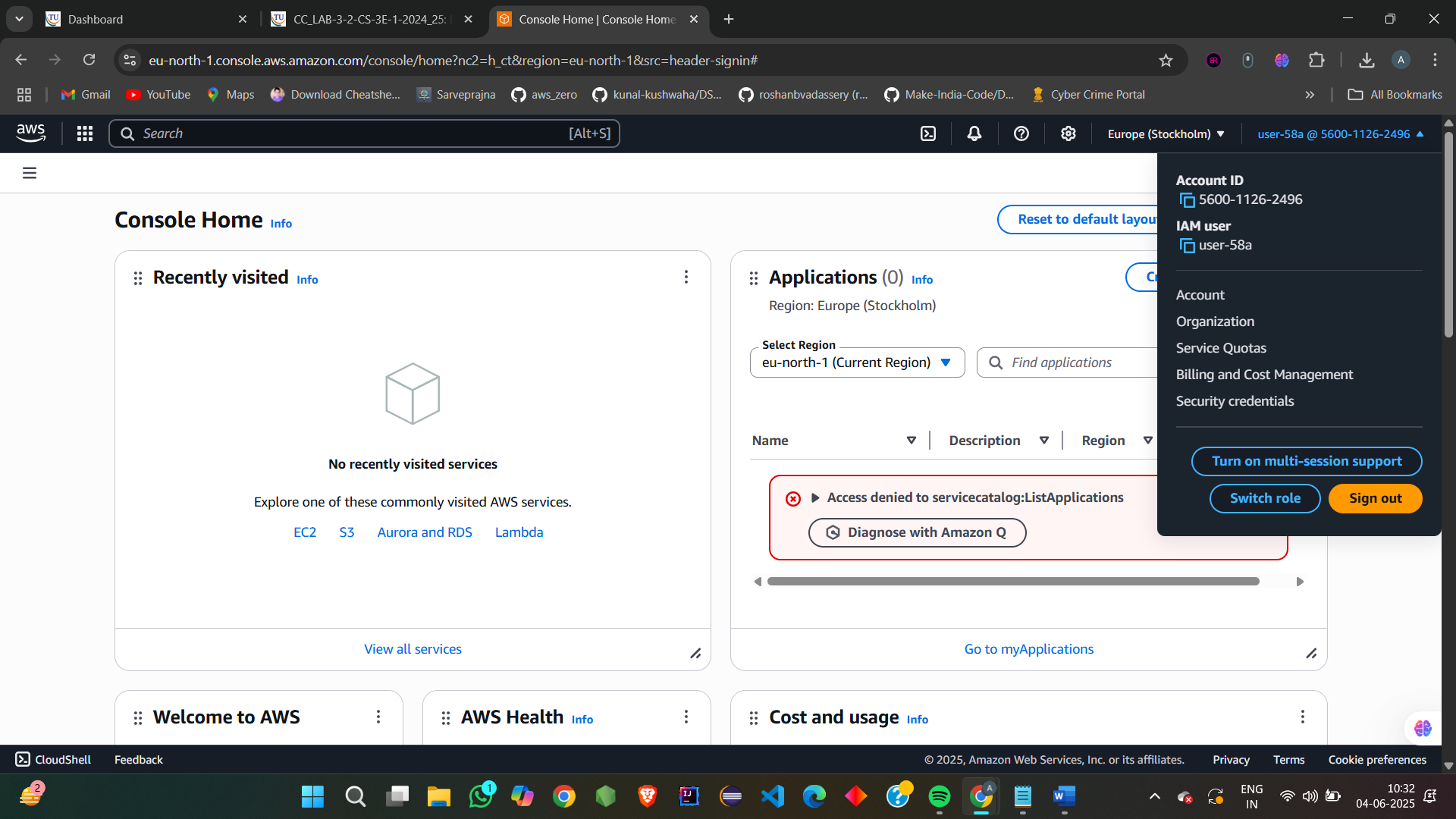
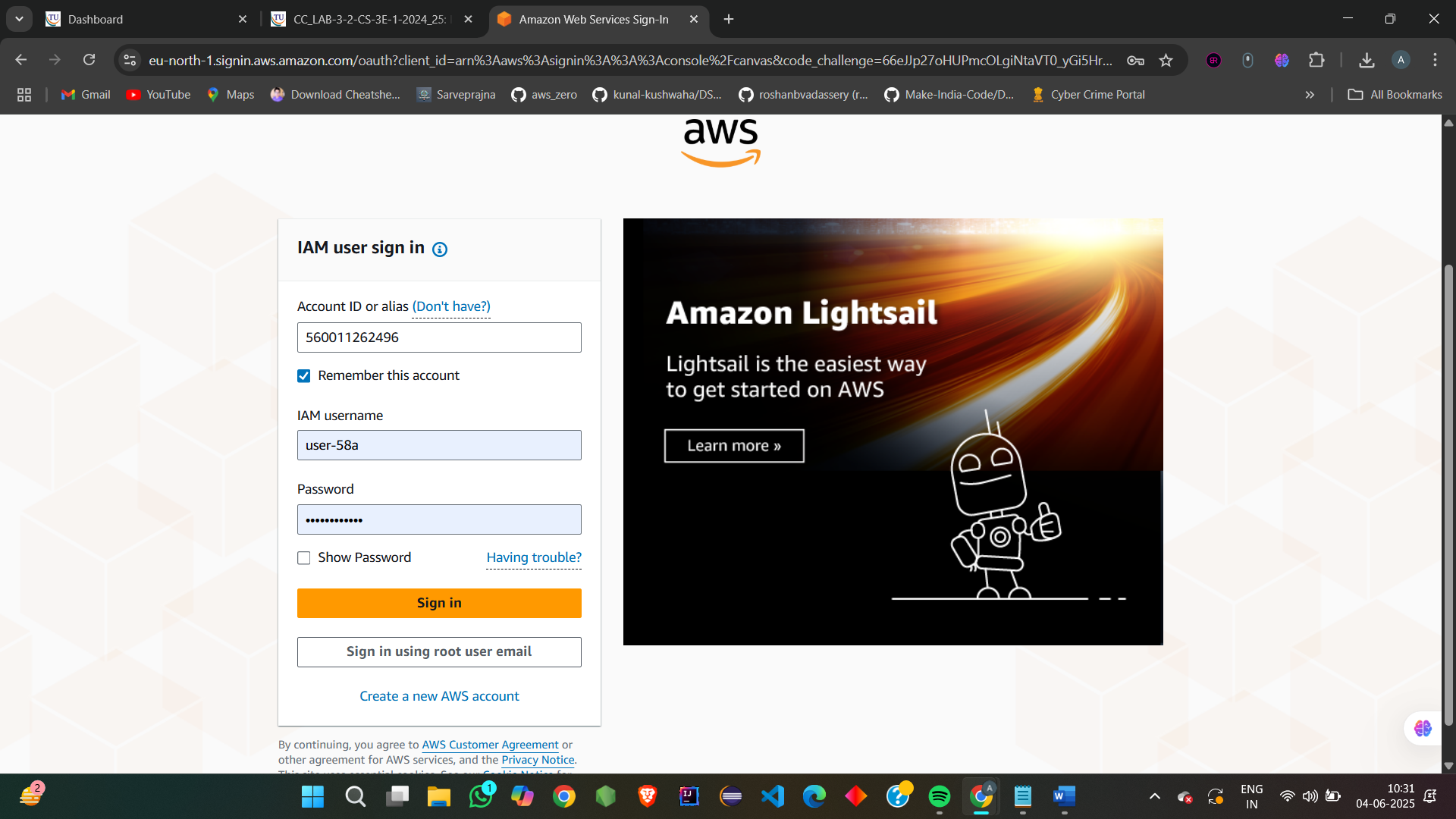
Or if you’ve set an **alias** for your AWS account, use this format:

https://YourAlias.signin.aws.amazon.com/console

**->>Step 2: Enter IAM User Credentials**

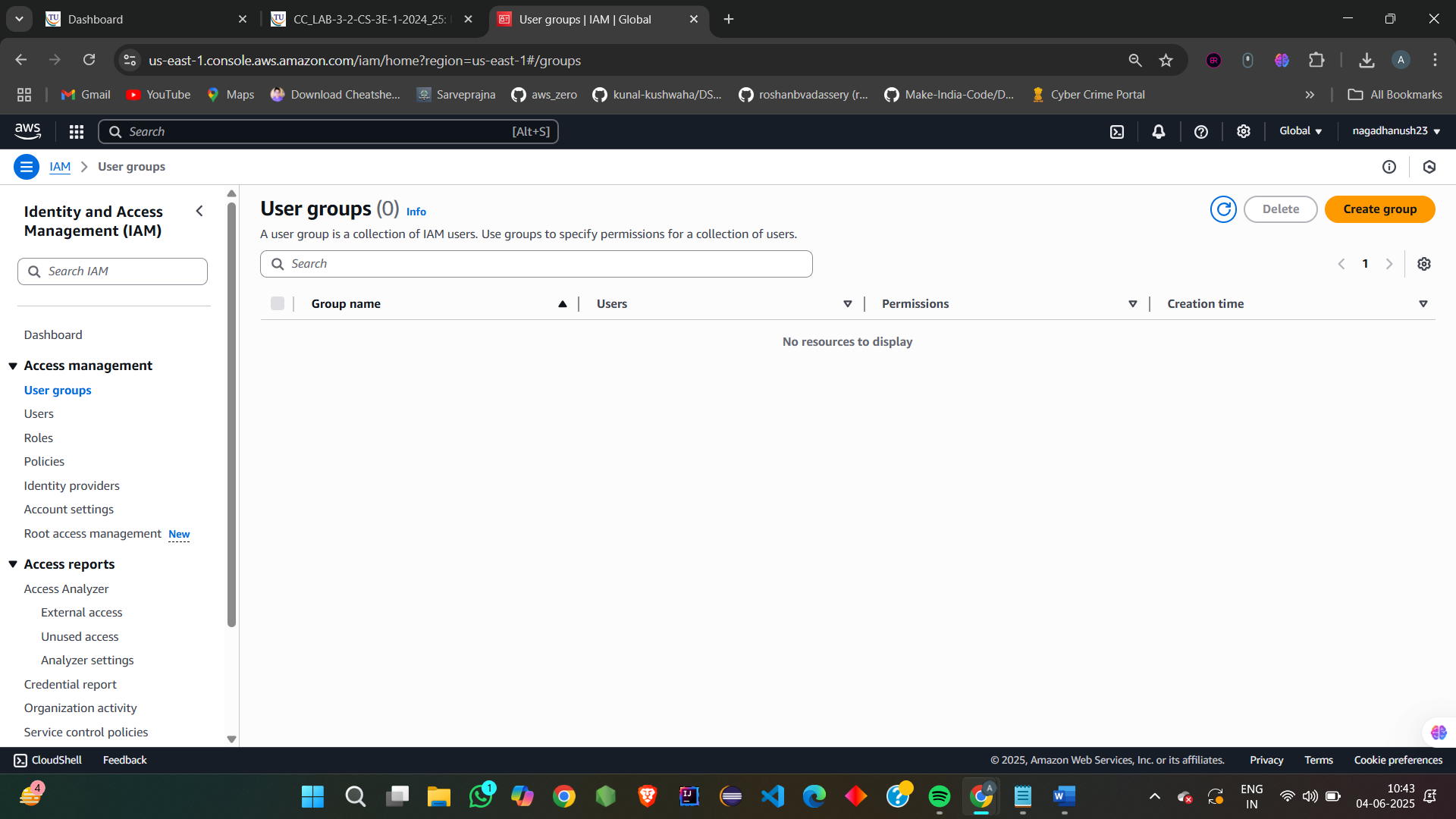
On the sign-in page:

* **Account ID or alias**: 560011262496 (already prefilled if you used the above URL)
* **IAM user name**: user-58a

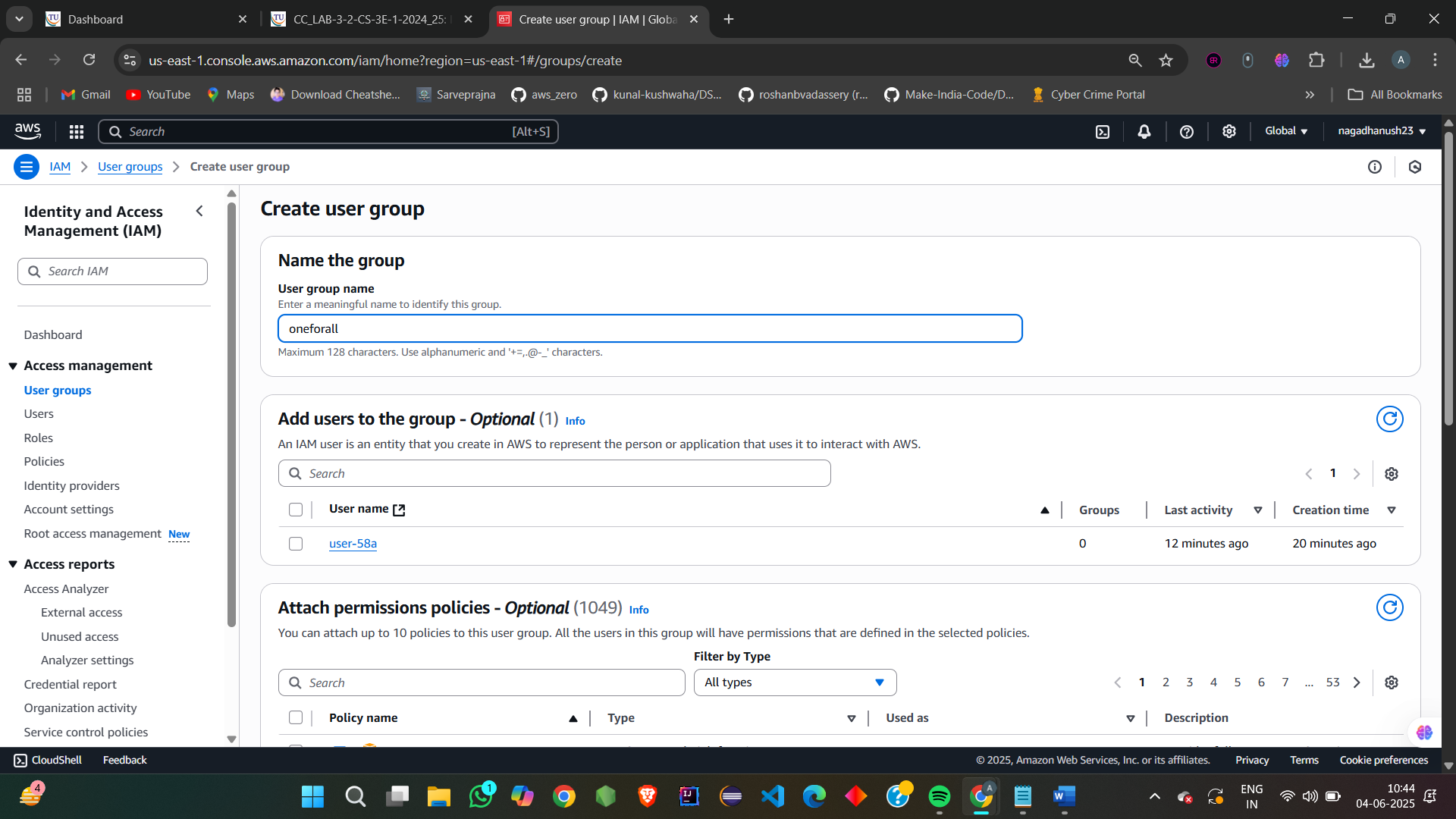
**Password**: Enter the password that was created during IAM user setup  


**Create IAM Group and Add User (user-58a) – Using AWS Management Console**

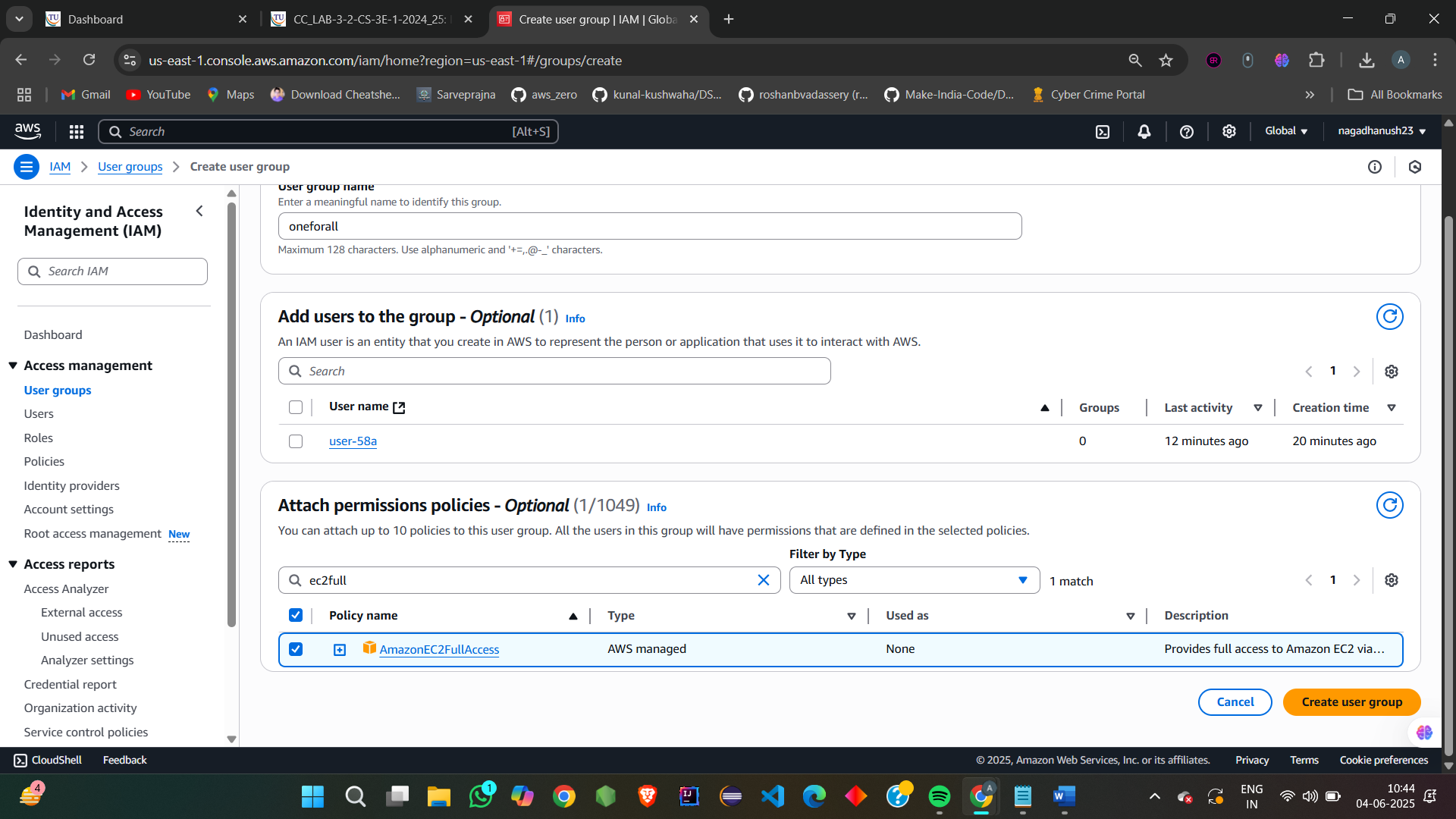
1. **Sign in to AWS Console**
   * URL:<https://console.aws.amazon.com/>
   * Use your admin credentials.
2. **Open IAM Service**
   * From the AWS services menu, search for and open **IAM**.



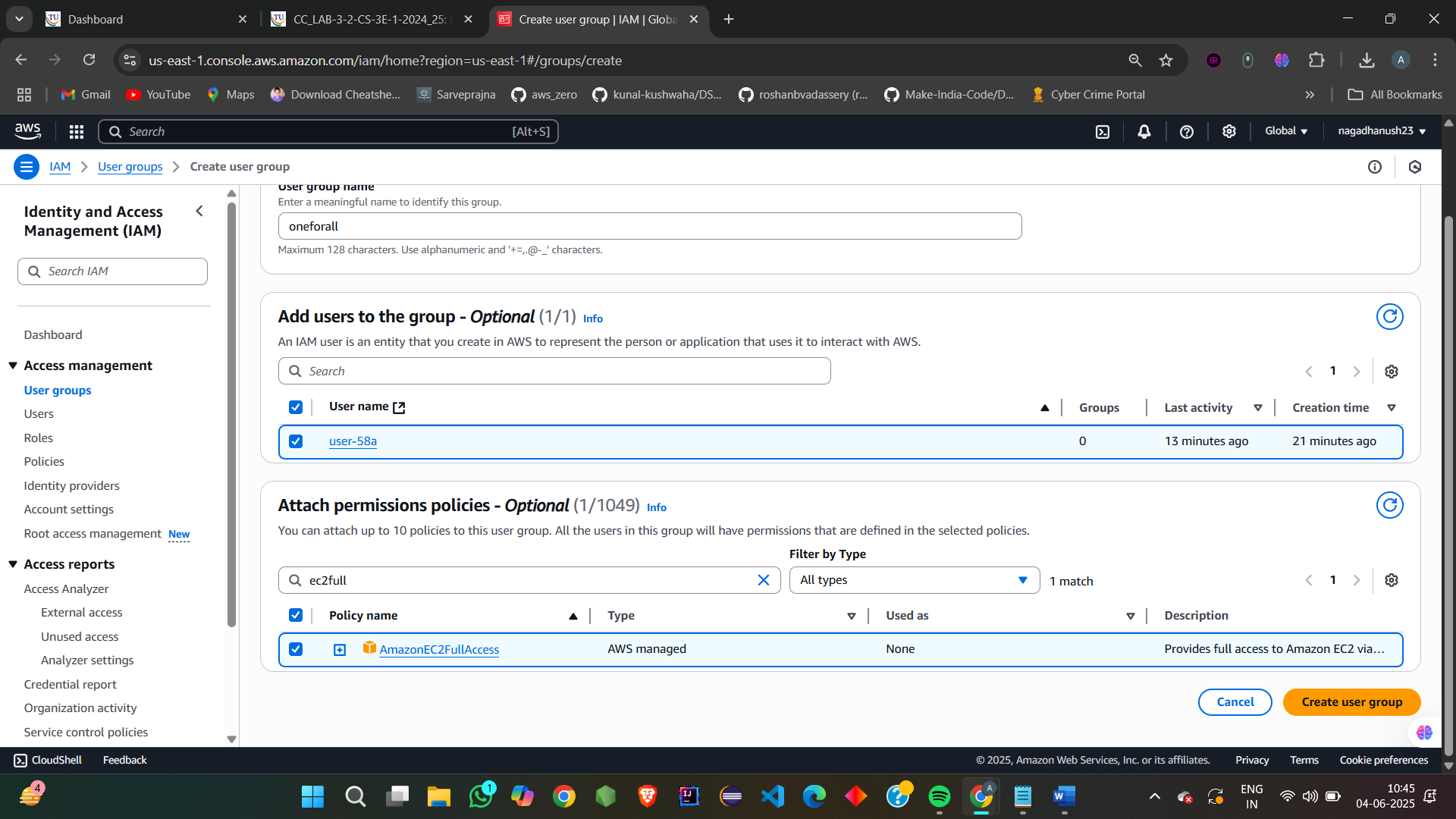
1. **Create a New Group**
   * In the left sidebar, click **User groups** → Click **Create group**.
   * **Enter Group name**: For example, OneForAll.



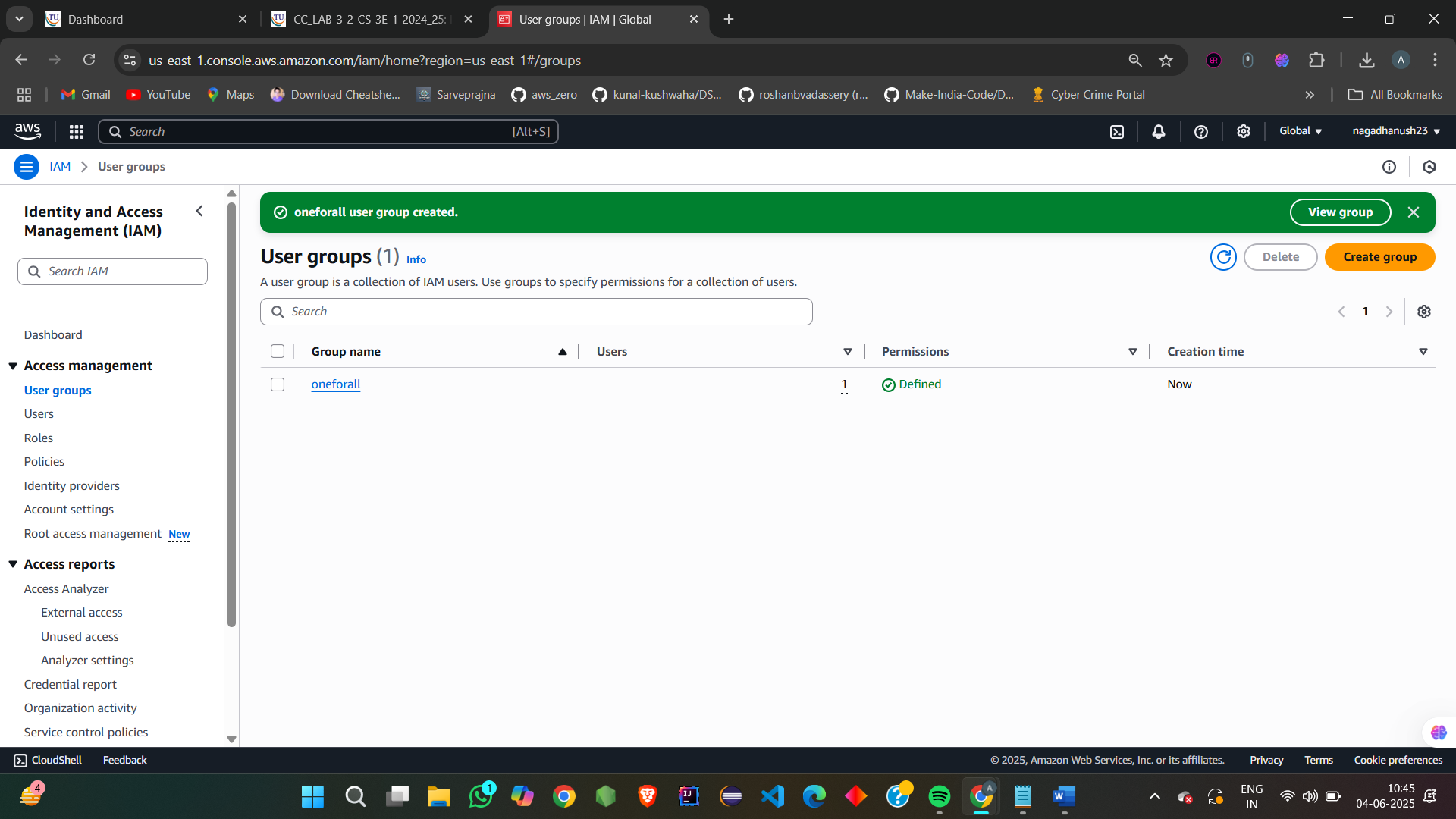
1. **Attach Permissions (Policies)**
   * Select policies to attach (e.g., AmazonEC2ReadOnlyAccess, AmazonS3ReadOnlyAccess, AmazonEC2FullAccess).
   * You can skip this if you're adding policies later.



1. **Add Users to the Group**
   * From the list of users, check the box next to **user-58a**.



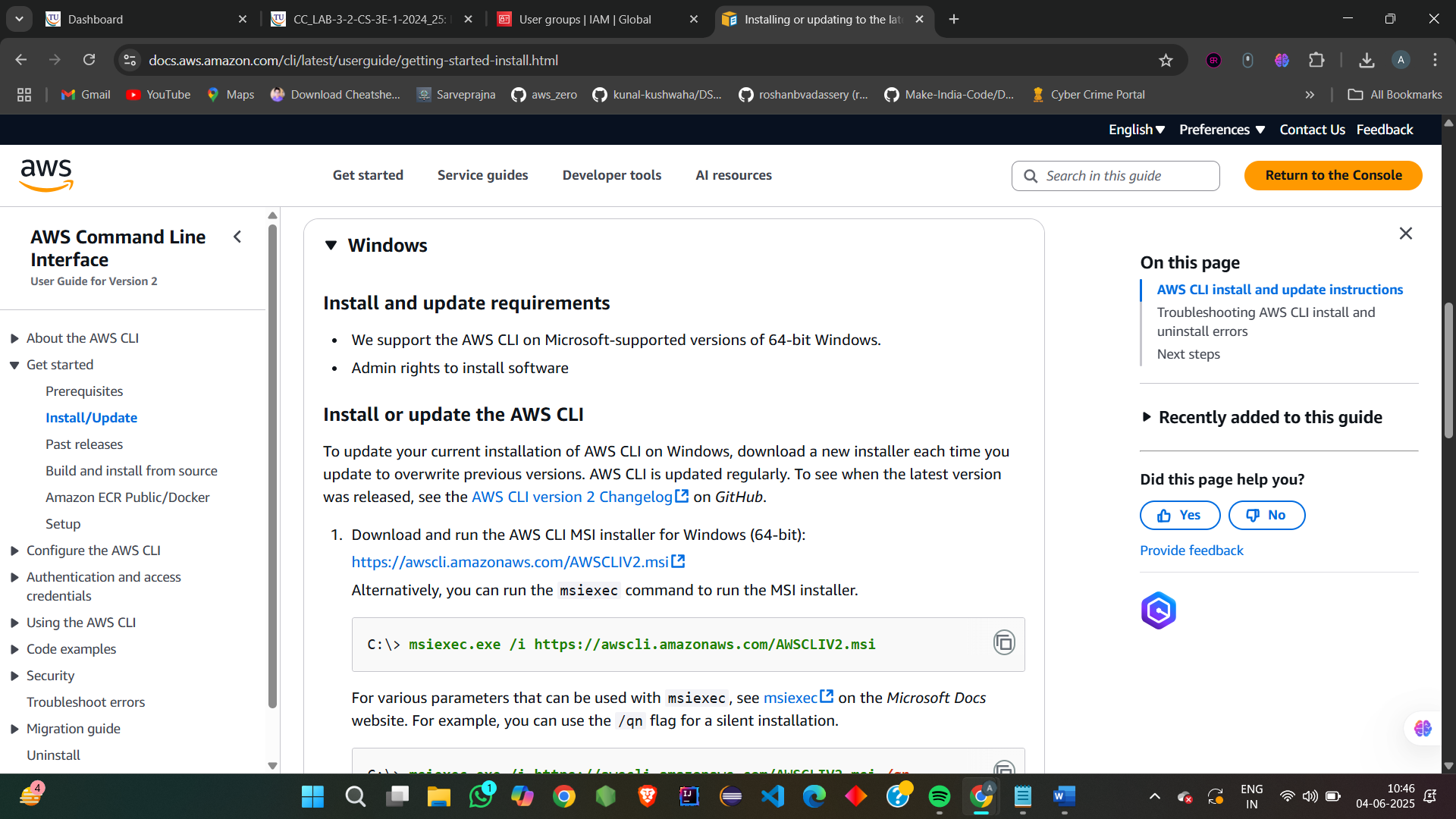
1. **Review and Create**
   * Click **Create group**.

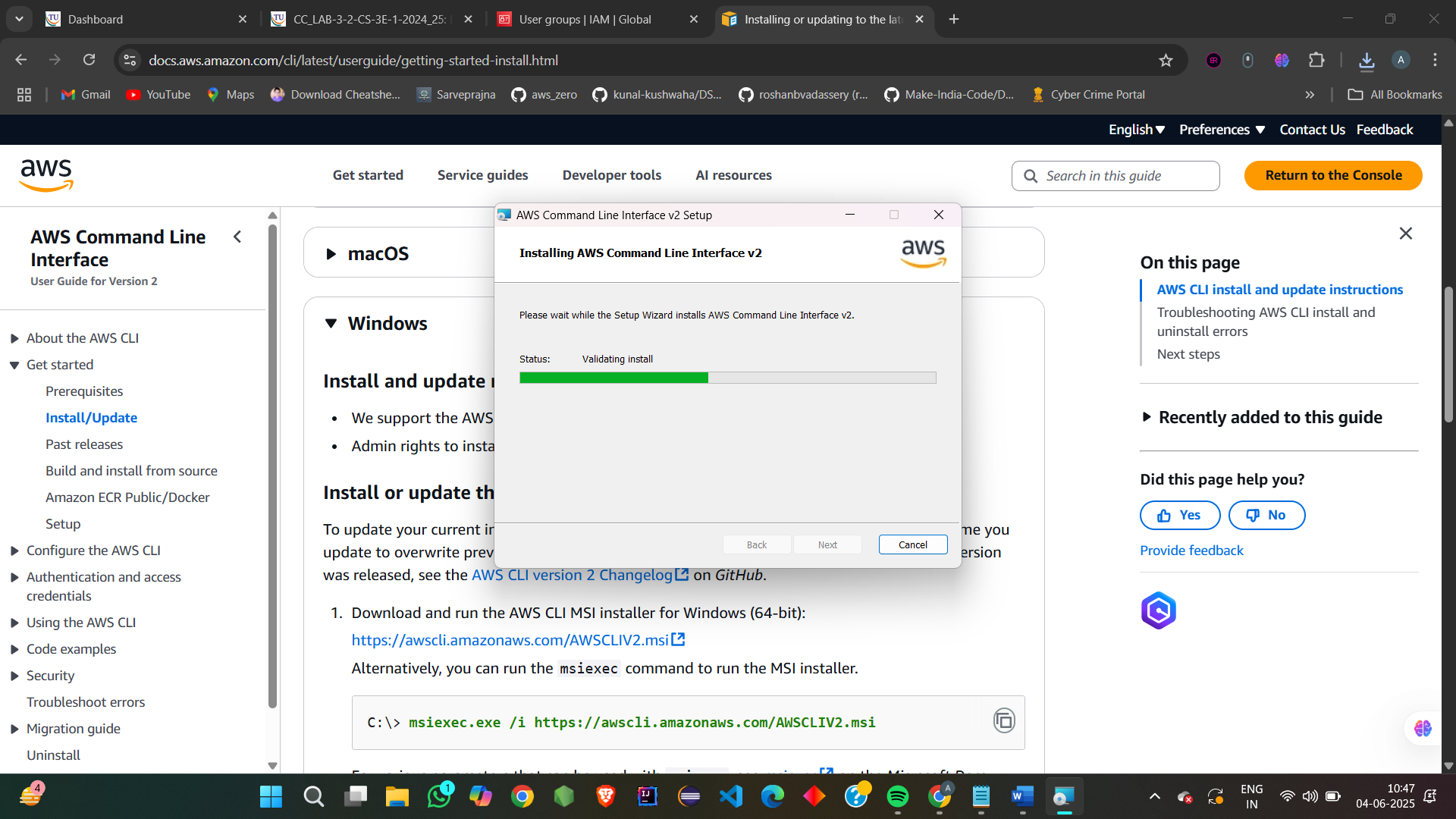


**IAM User Creation Using AWS CLI**

**Pre-requisites**

* Install AWS CLI.





**Create Access Key & Secret Key in AWS Console**

You must be logged in as a user with **sufficient IAM permissions**, like an admin.

**Step 1: Log into AWS Console**

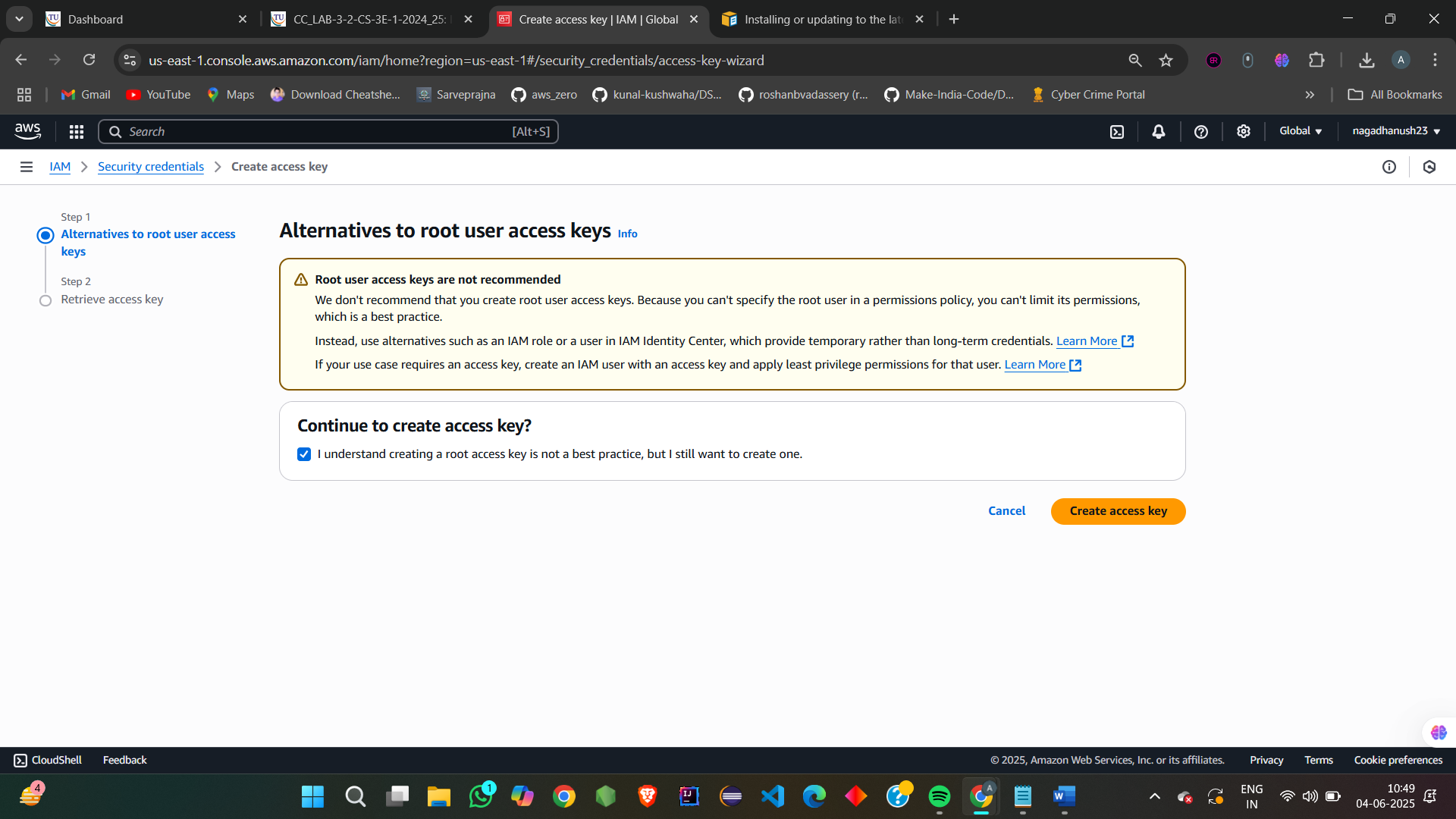
* Go to your IAM login URL:  
   🔗<https://643978560112.signin.aws.amazon.com/console>
* Login using your **IAM user with admin rights**.

**Step 2: Go to the IAM Dashboard**

* On the AWS Console homepage, click **“Services”**
* Search for **IAM** and select it

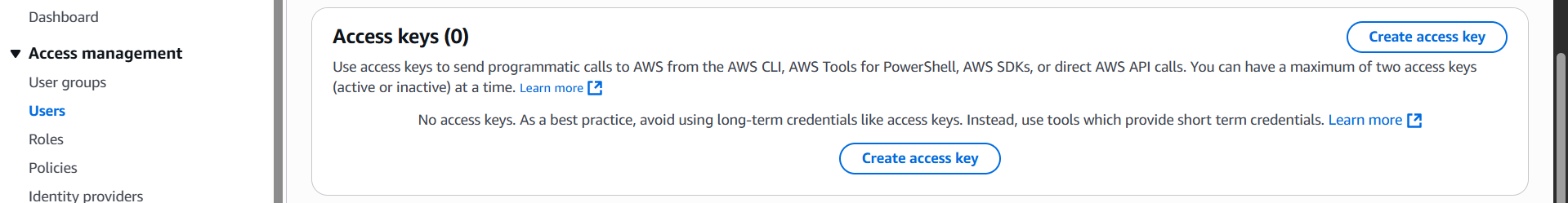
**Step 3: Select the User**

* In the **left sidebar**, click **Users**
* Click on the **username** (e.g., user-58a or your admin user)



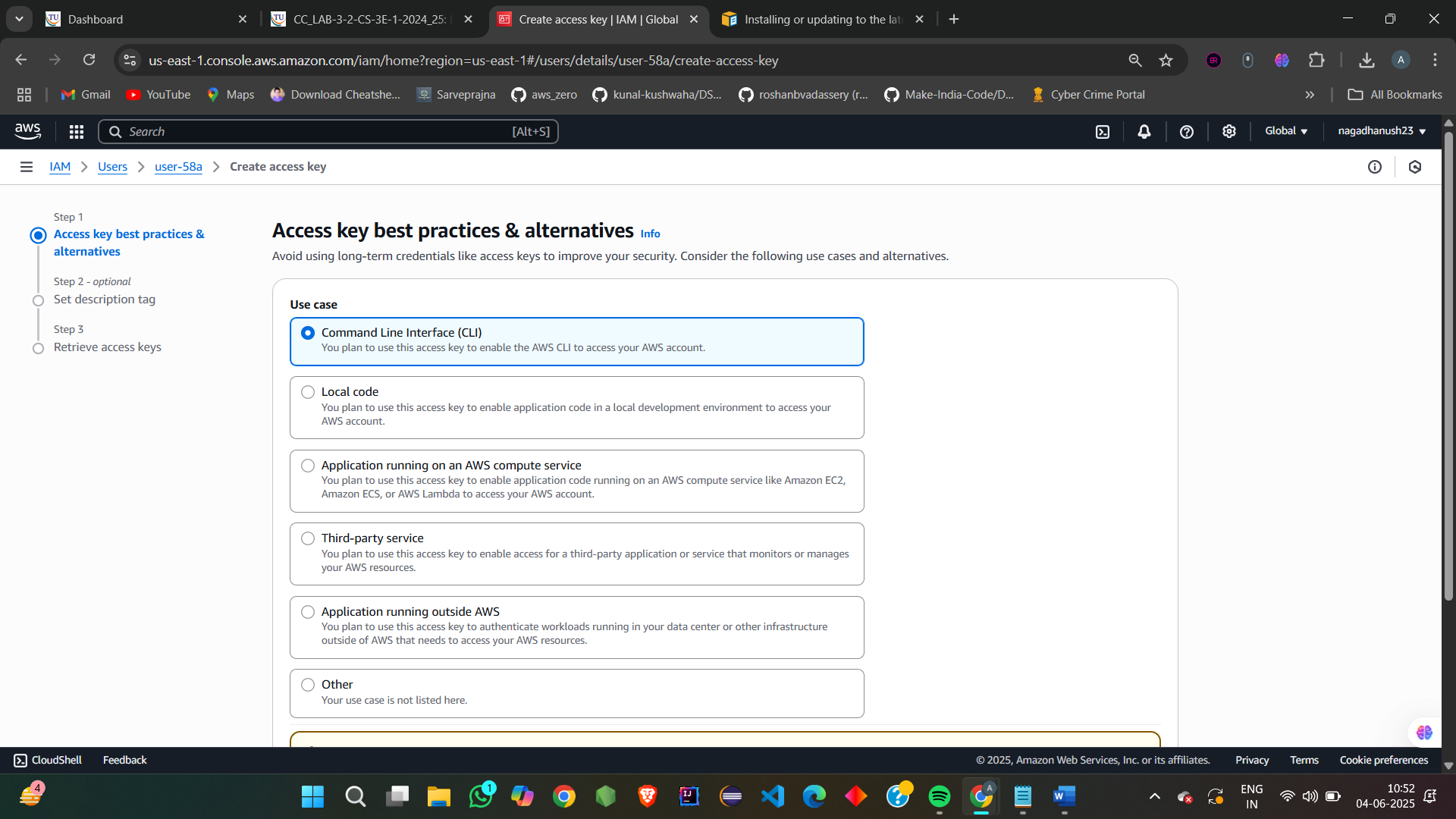
**Step 4: Create Access Key**

1. Go to the **“Security credentials”** tab
2. Scroll down to **Access keys**
3. Click the **“Create access key”** button



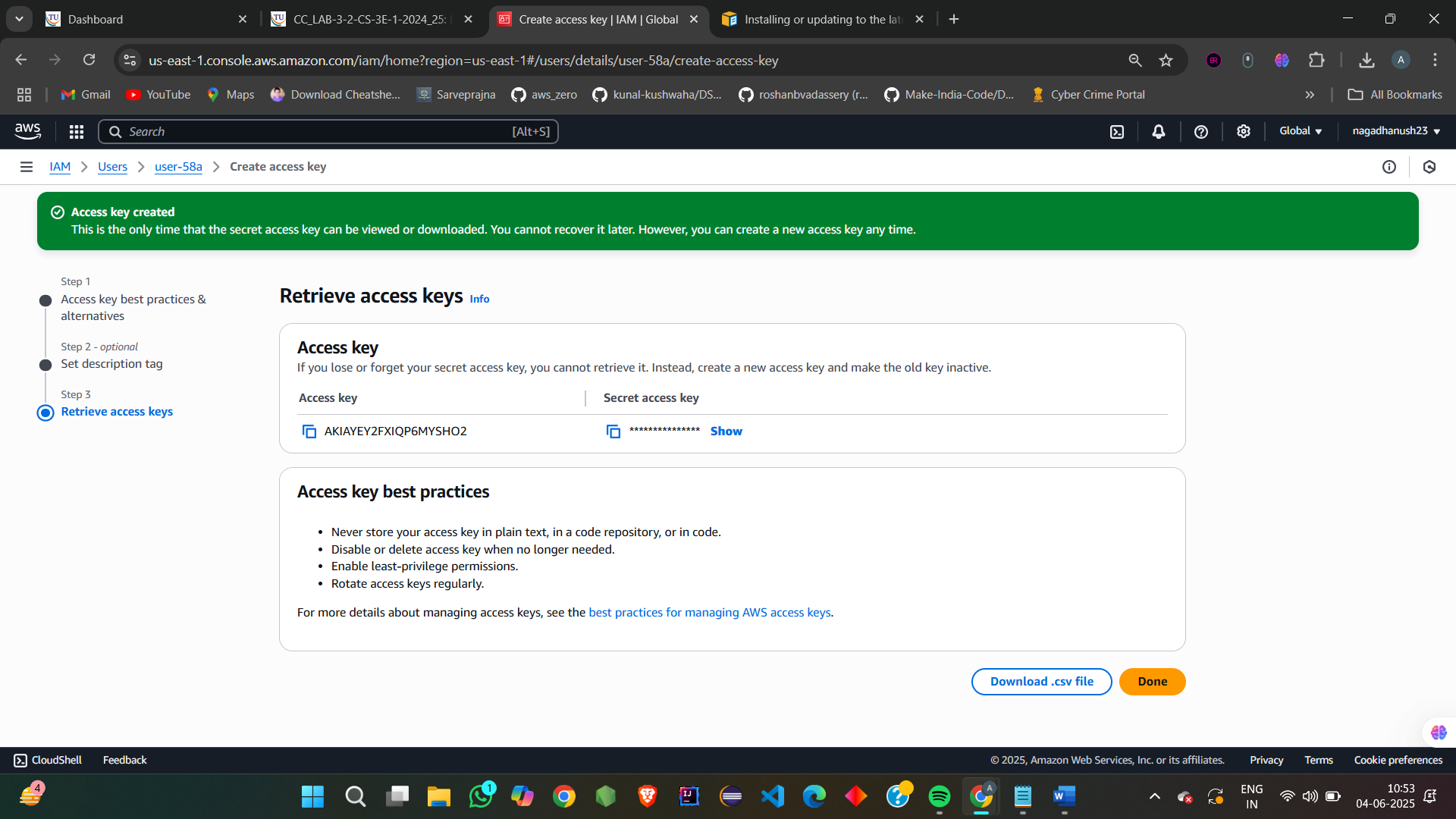
**Step 5: Select Use Case**

* Choose the access type:
  + If it’s for the **AWS CLI, SDK, or API**, select:  
     **“Command Line Interface (CLI)”**
  + Click **Next**



**Step 6: Download the Access Key**

* The screen will now show:
  + ✅ **Access key ID**
  + 🔑 **Secret access key**



* Click **“Download .csv file”** to save the keys securely

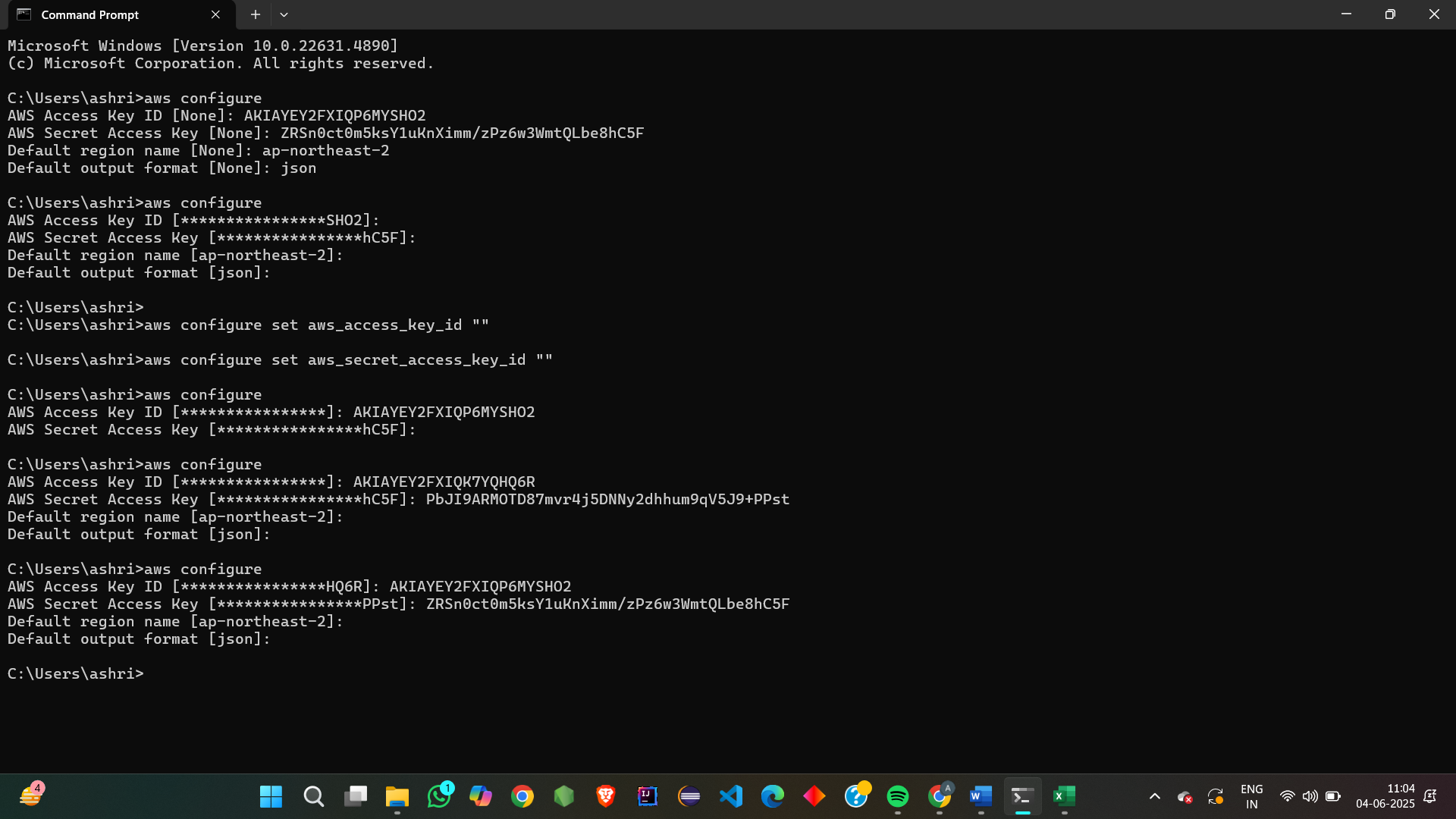
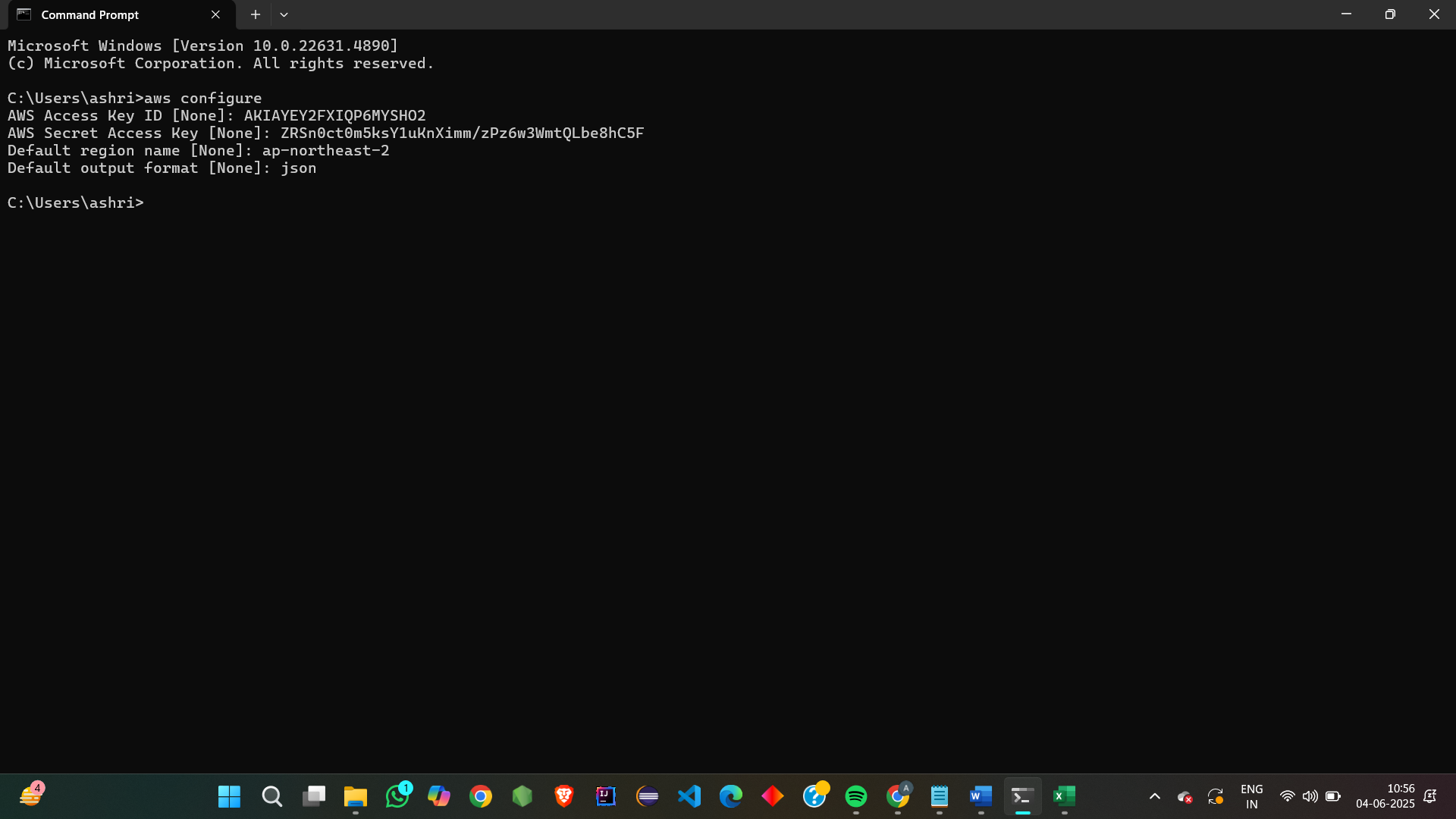
**You will never see the secret key again** after this page, so store it safely.

**Done!**

Now you can use these keys to run: aws configure

And paste in:

* Access Key ID
* Secret Access Key



**Log in to the IAM user with S3 permissions using CLI**✅ **Create an S3 bucket from that user**

**PREREQUISITES**

You must have:

* Access Key ID and Secret Access Key for the IAM user
* IAM user should have **AmazonS3FullAccess** permission (or similar)
* AWS CLI installed (already done)

**✅ STEP 1: Configure AWS CLI with the IAM user**

Open CMD or terminal and run: aws configure

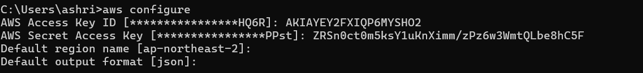
Enter the IAM user's credentials when prompted:

AWS Access Key ID [None]: AKIAZL4A5AJYGUL26BFM

AWS Secret Access Key [None]: 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

Default region name [None]: ap-northeast-2

Default output format [None]: json

****

**STEP 2: Create an S3 bucket**

Now that you're authenticated as the IAM user with S3 access, create a bucket.

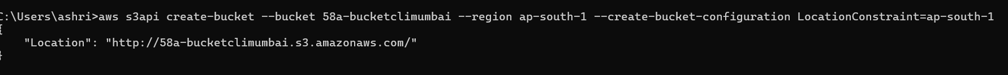
**Option 1: Simple command (uses default region from above)**

aws s3 mb s3://58a-bucketcli.



**Option 2: Create with mumbai region (more control using s3api)**

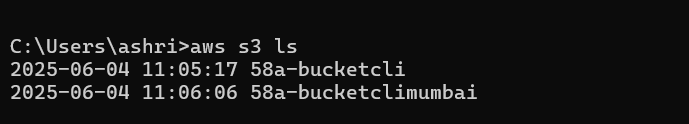
aws s3api create-bucket --bucket 58z-bucketclimumbai --region ap-south-1 --create-bucket-configuration LocationConstraint=ap-south-1.



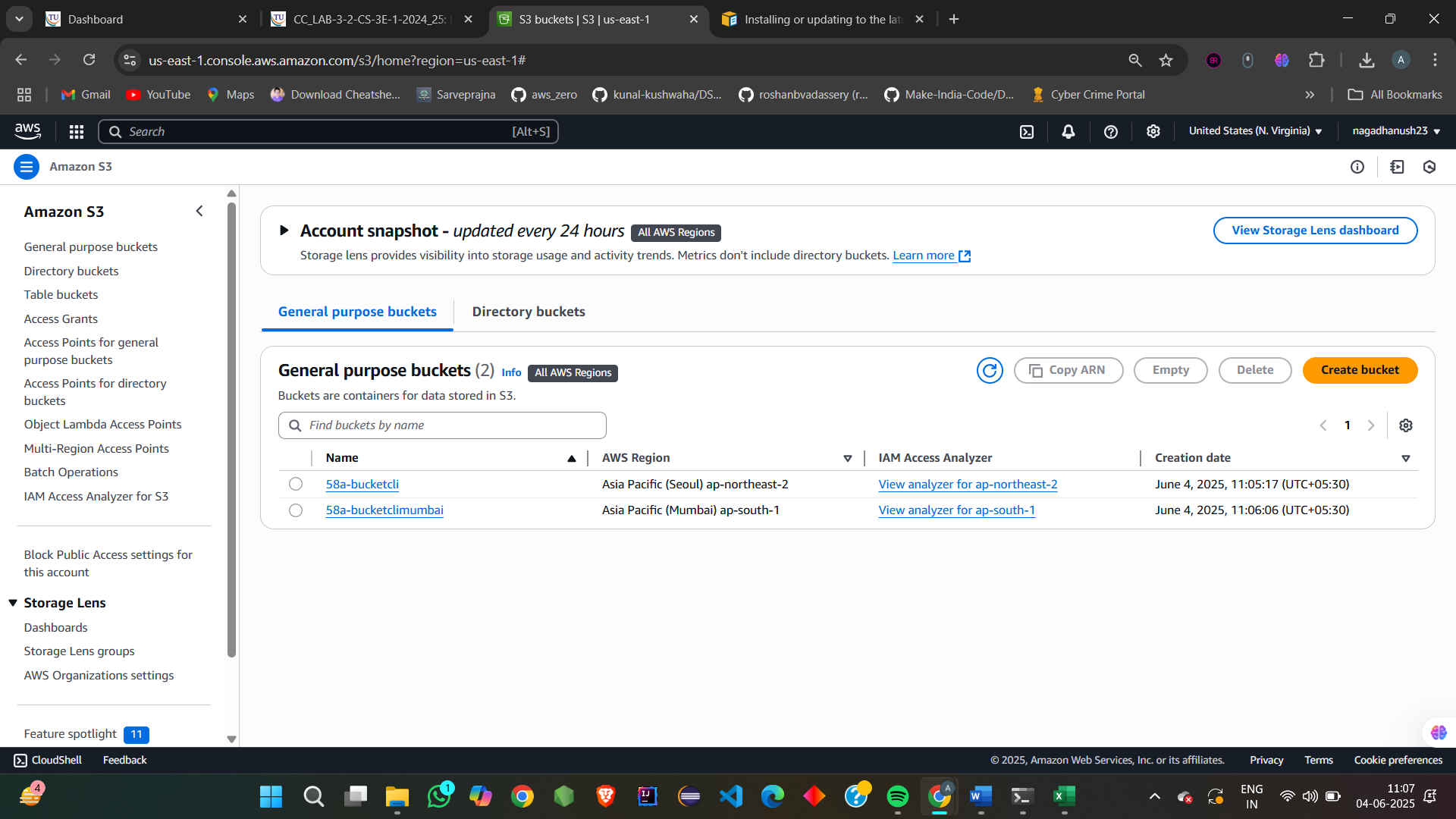
**STEP 3: Verify the bucket**

List all your S3 buckets: aws s3 ls

You should see your newly created bucket listed.



Verifying the s3 buckets in AWS account.



Creating an EC2 instance and check for the details. 