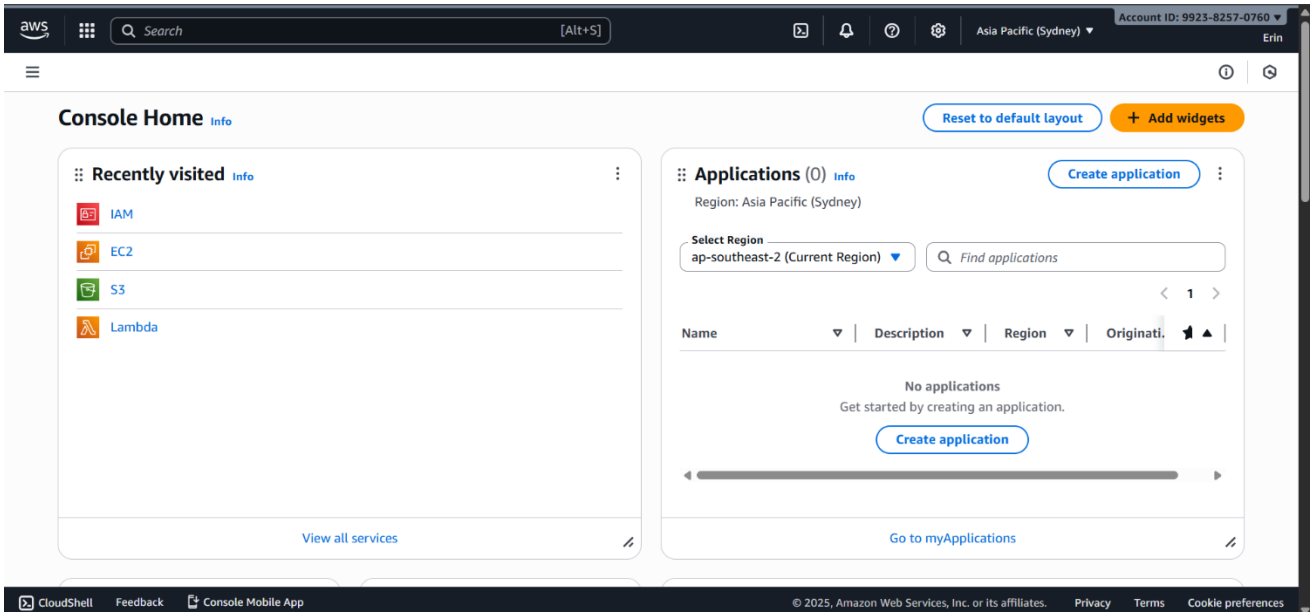
Practical:-5

Objective:- Creating **an** IAM (Identity and Access Management) user in AWS is to provide secure and controlled access to AWS resources for individuals or applications without using the root account.

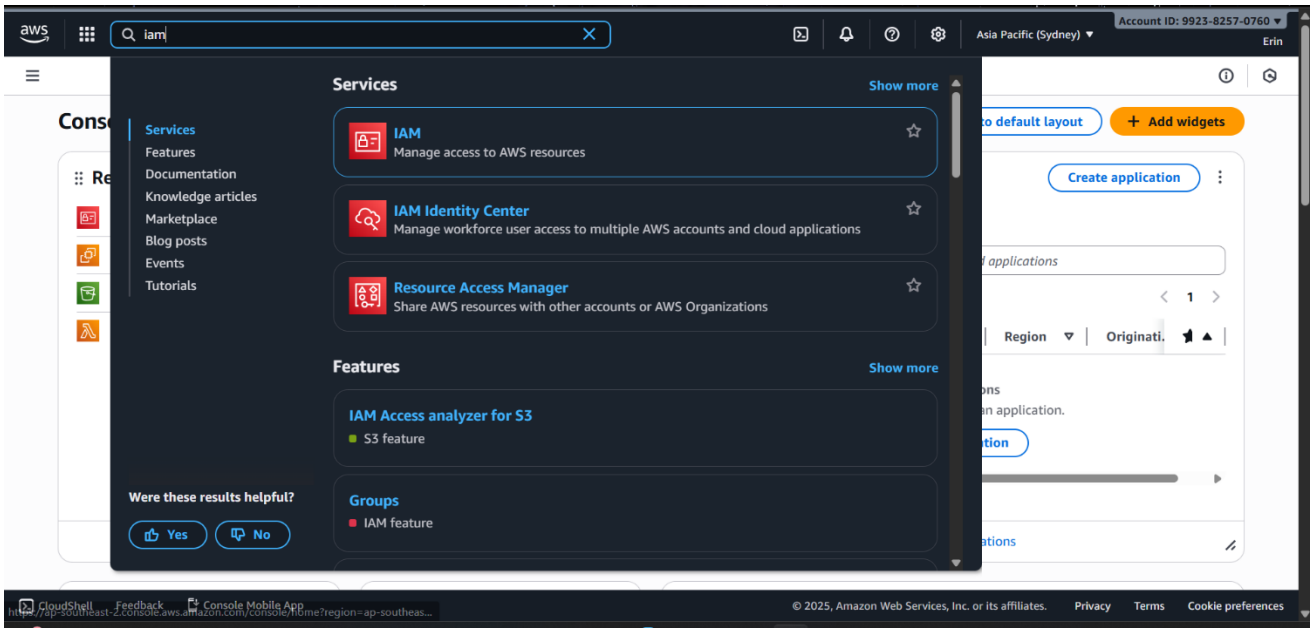
Step 1: Sign in to AWS Console

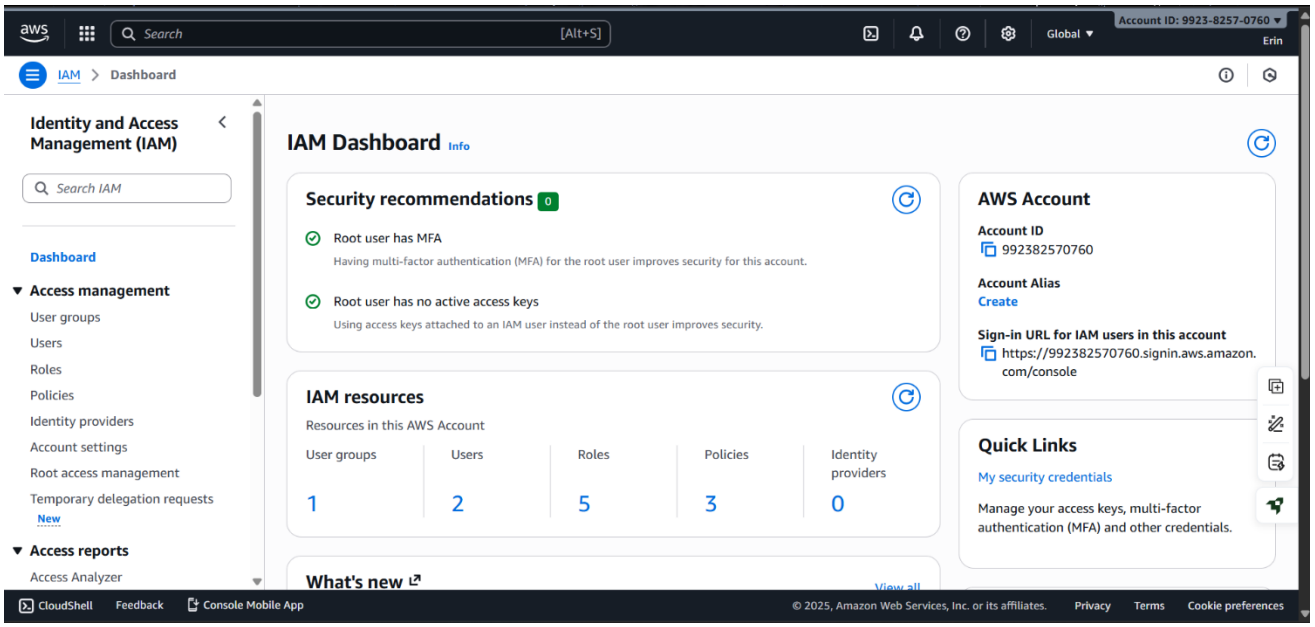
Log in to your **AWS Management Console** using your **root account** or an **IAM user** who has **Administrator privileges**.



Step 2: Open IAM Service

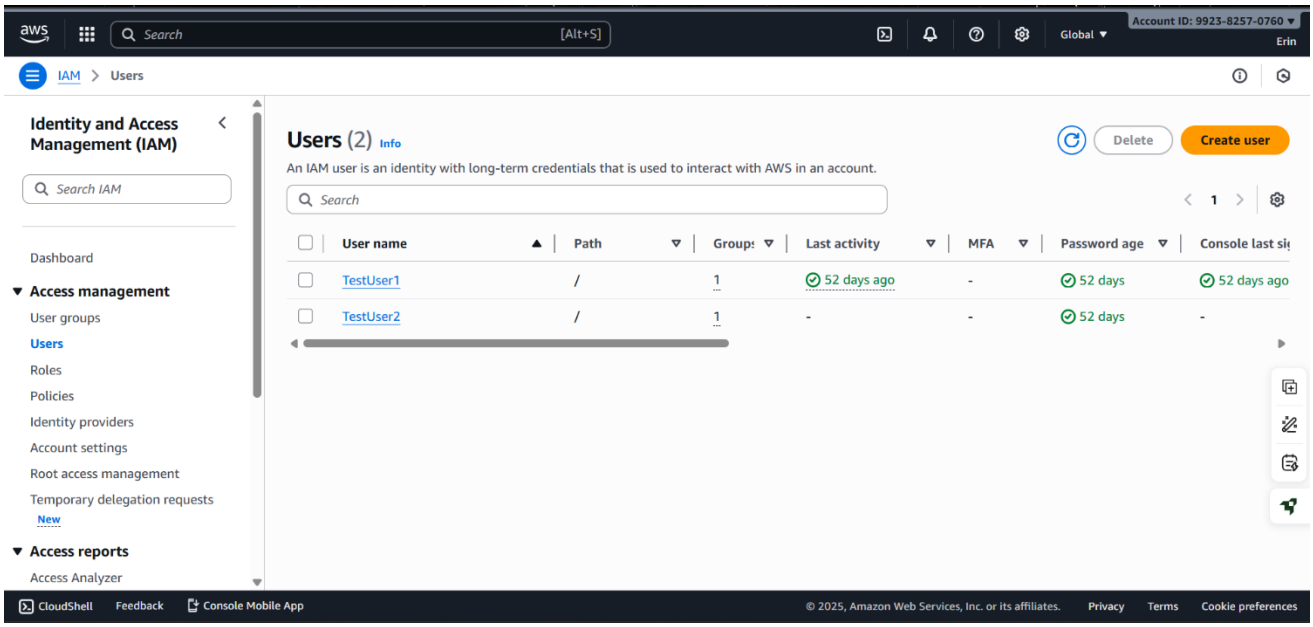
In the search bar at the top, type **IAM**. Select **IAM (Identity and Access Management)**.





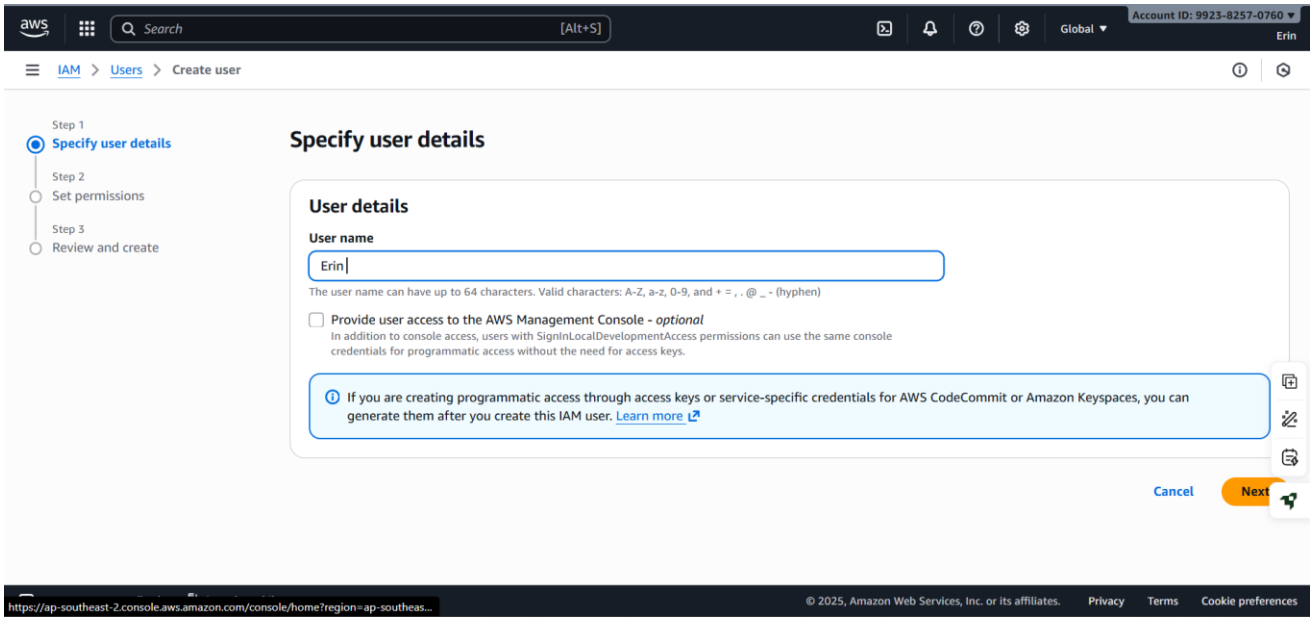
Step 3: Go to Users Section

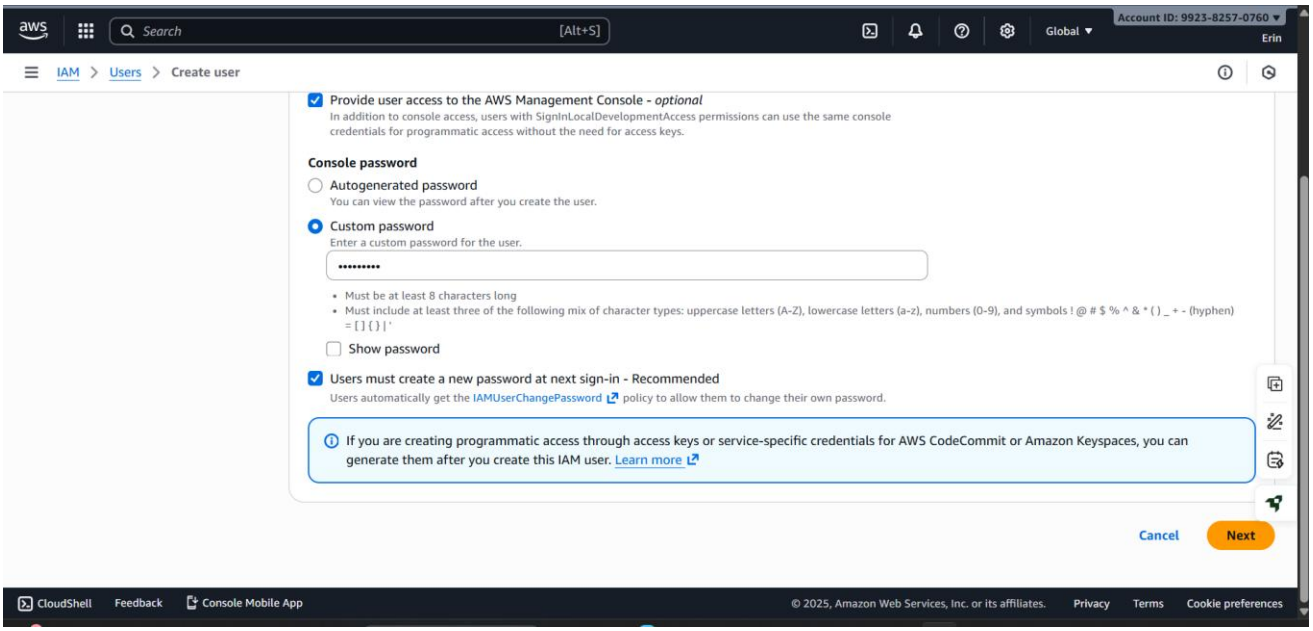
In the left sidebar, click on **Users**. You will see a list of all existing users. Click **"Create user"** to add a new one.



Step 4: Enter User Details

Enter a **User name** . Choose the type of access: **Password access** → if the user needs to log in to the AWS Console. Click **Next**.

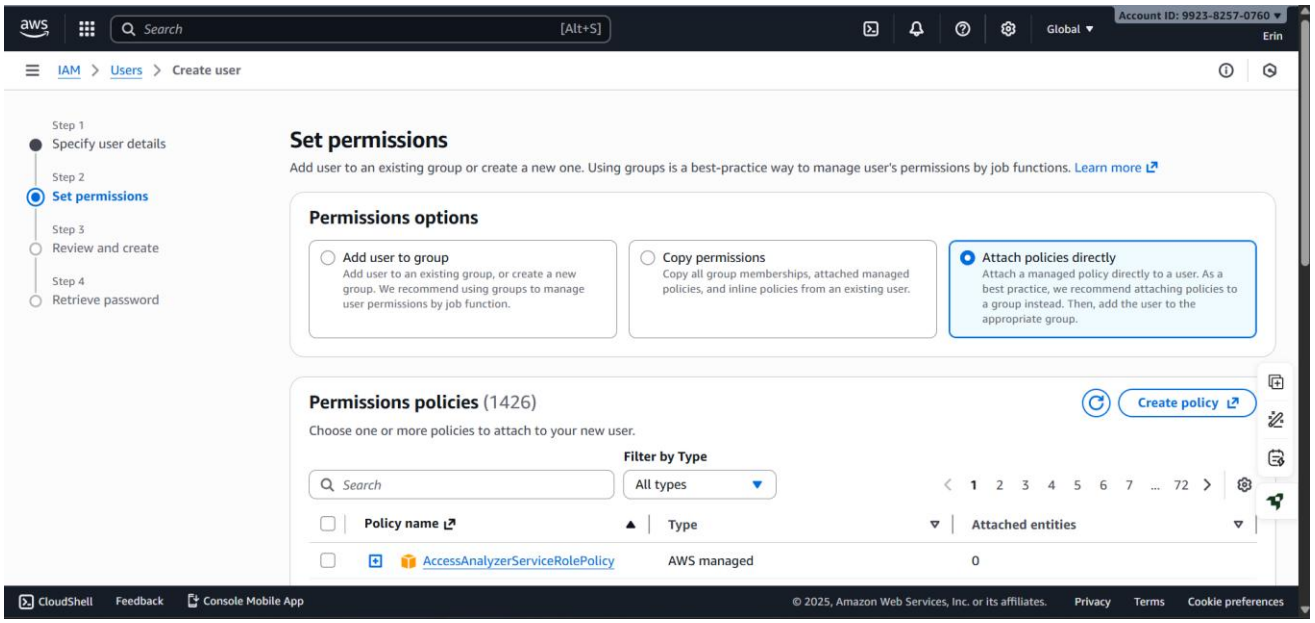


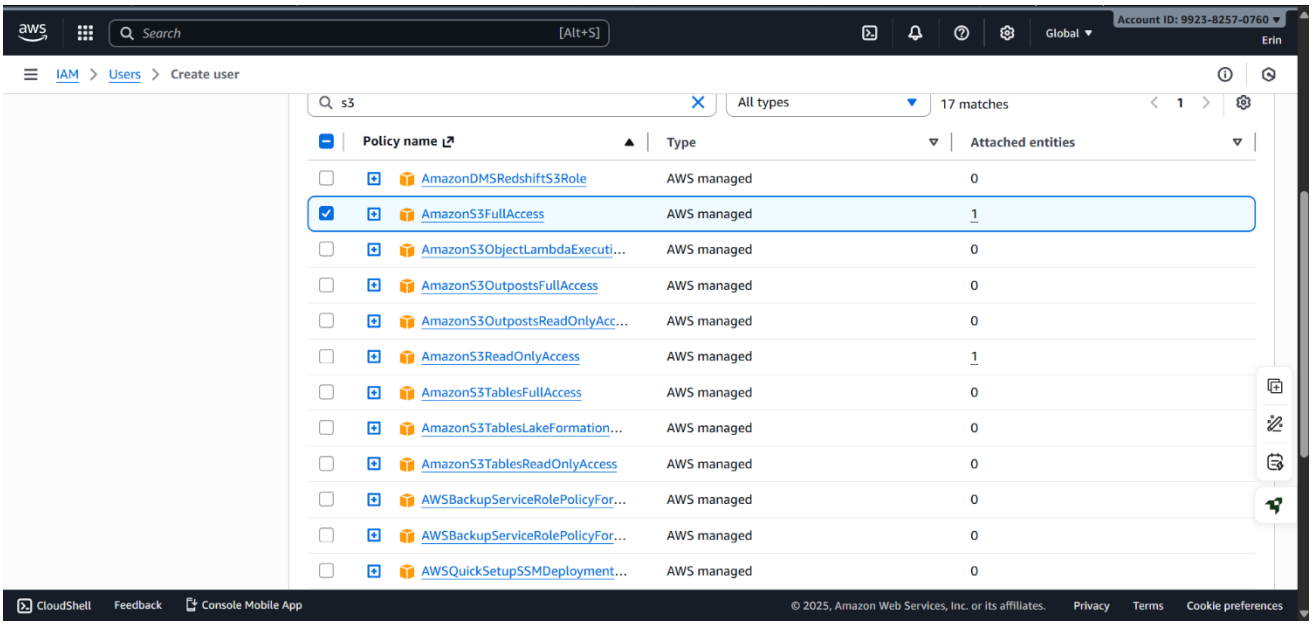


Step 5: Set Permissions

Choose **Attach policies directly** → assign permissions manually (e.g., `AmazonS3FullAccess`, `AdministratorAccess`, etc.).

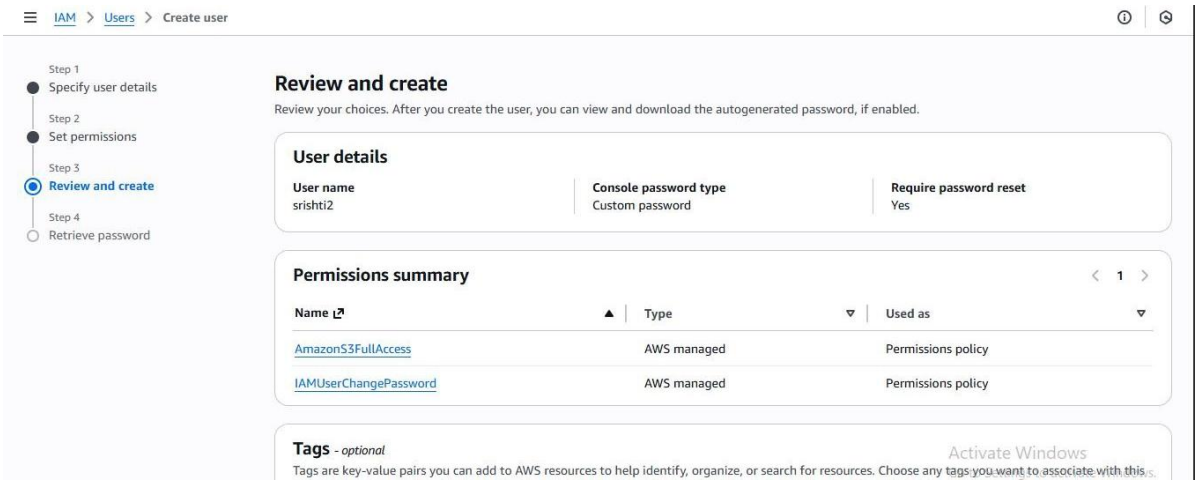
Then click **Next**.

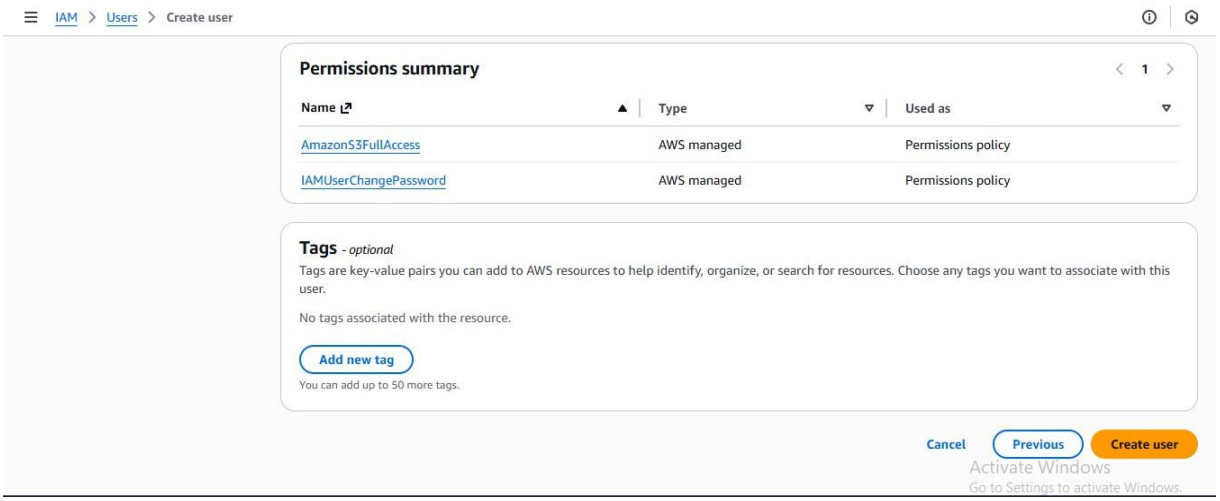




Step 6: Review and Create

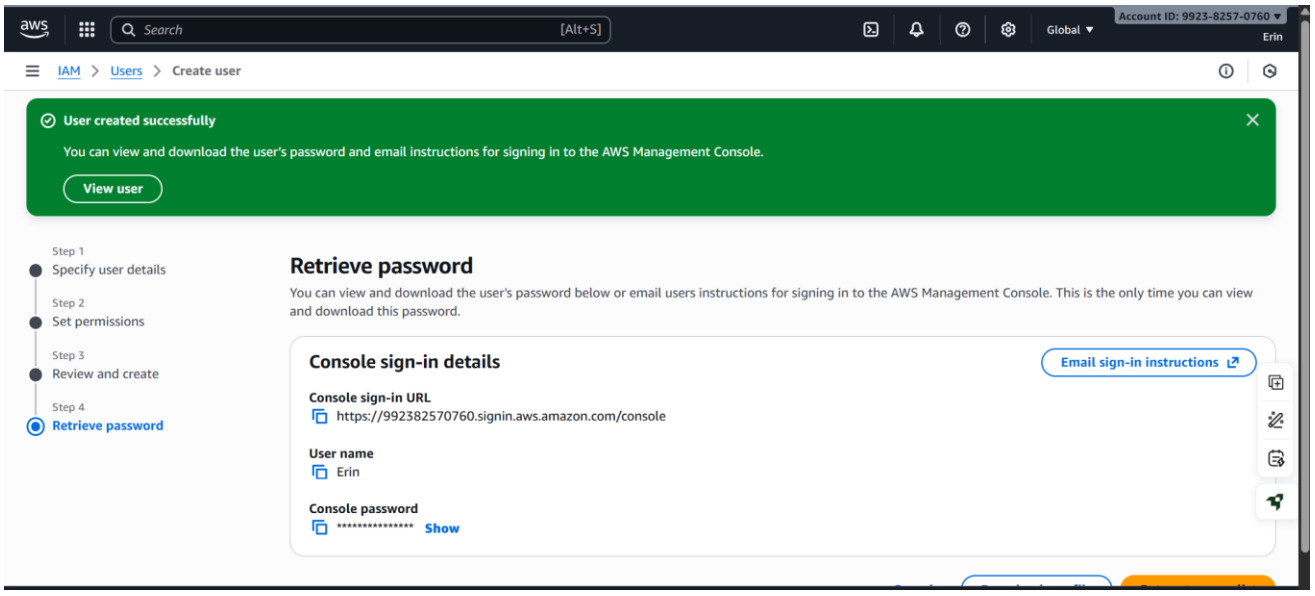
Review all details carefully. Click **Create user**.

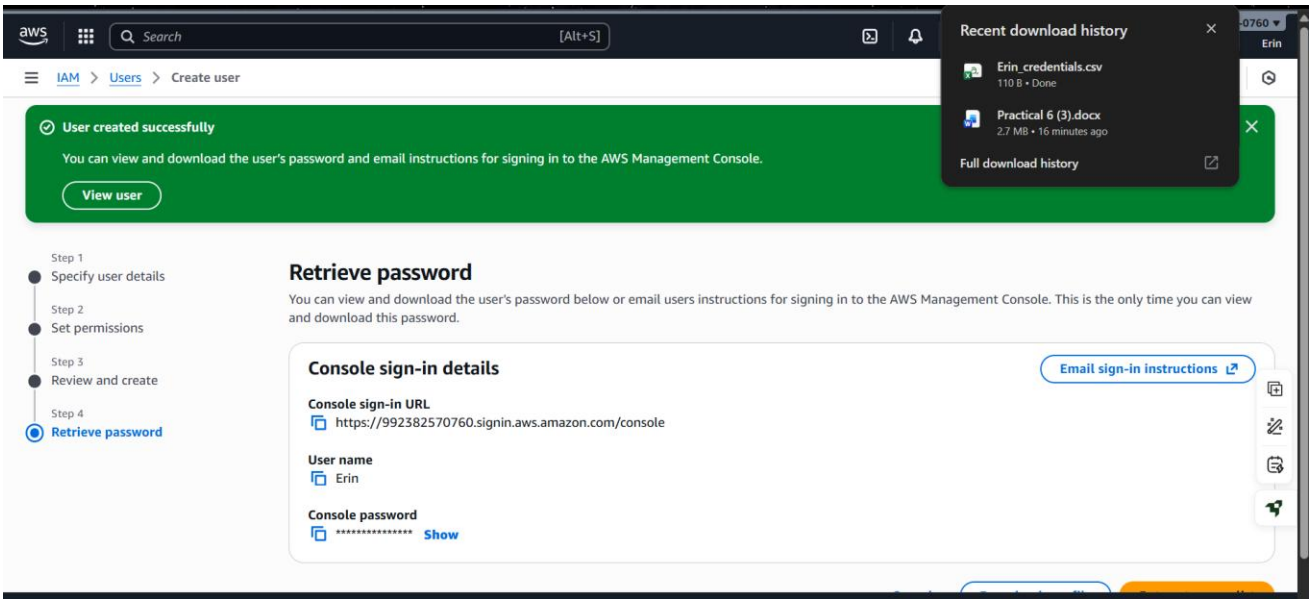




Step 7: Save Login Details

- Once the user is created, AWS will show:
  - **User ARN (Amazon Resource Name)**
  - **Console login link**
  - **Password or Access key/Secret key** (Download the `.csv` file — it won't be shown again).

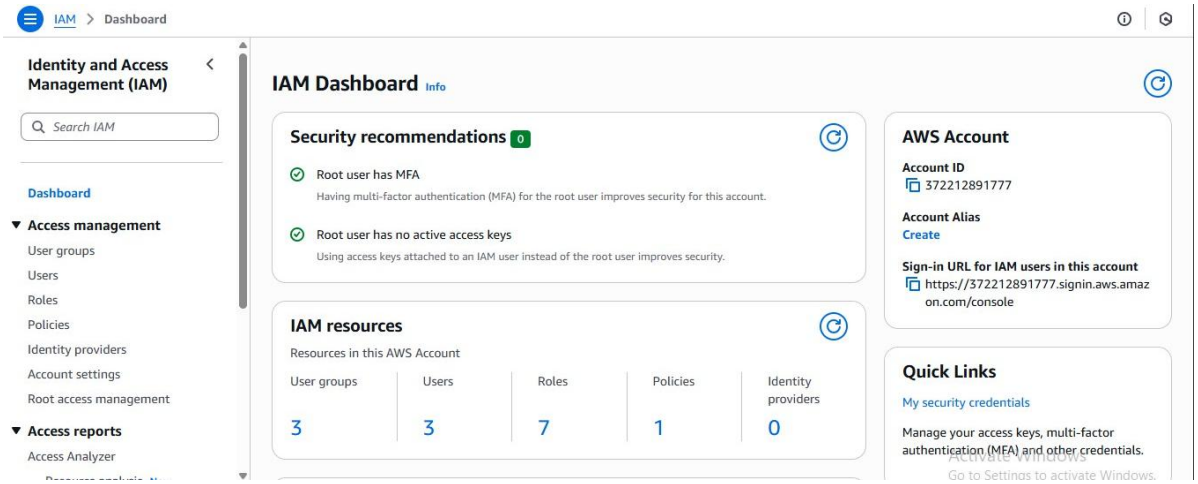



aws
Search
[Alt+S]
Recent download history
Erin_credentials.csv
110 B • Done
Practical 6 (3).docx
2.7 MB • 16 minutes ago
Full download history
Erin
IAM > Users > Create user
User created successfully
You can view and download the user's password and email instructions for signing in to the AWS Management Console.
View user
Step 1
Specify user details
Step 2
Set permissions
Step 3
Review and create
Step 4
Retrieve password
Retrieve password
You can view and download the user's password below or email users instructions for signing in to the AWS Management Console. This is the only time you can view and download this password.
Console sign-in details
Email sign-in instructions
Console sign-in URL
https://992382570760.signin.aws.amazon.com/console
User name
Erin
Console password
********** Show

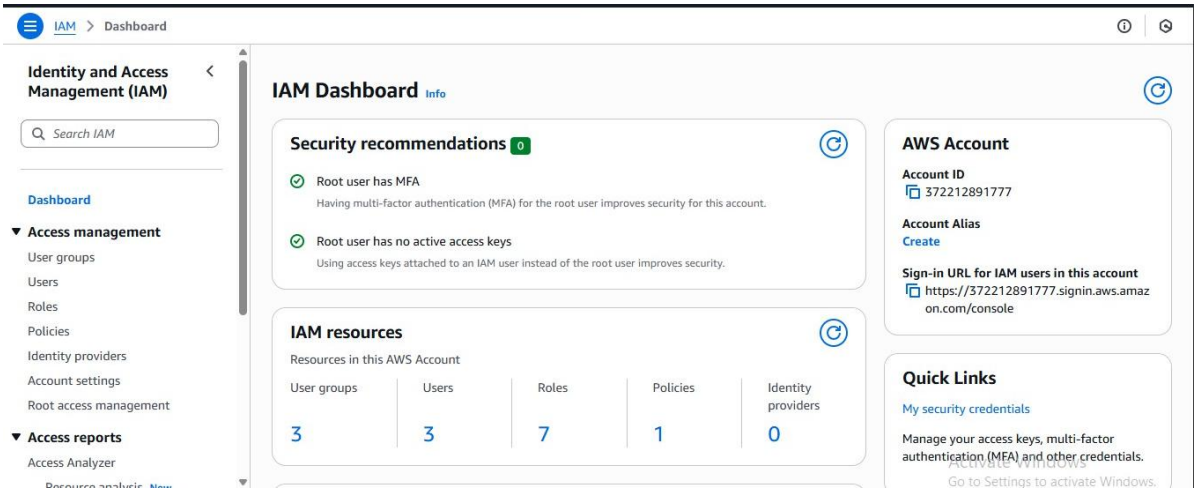
Practical:-7

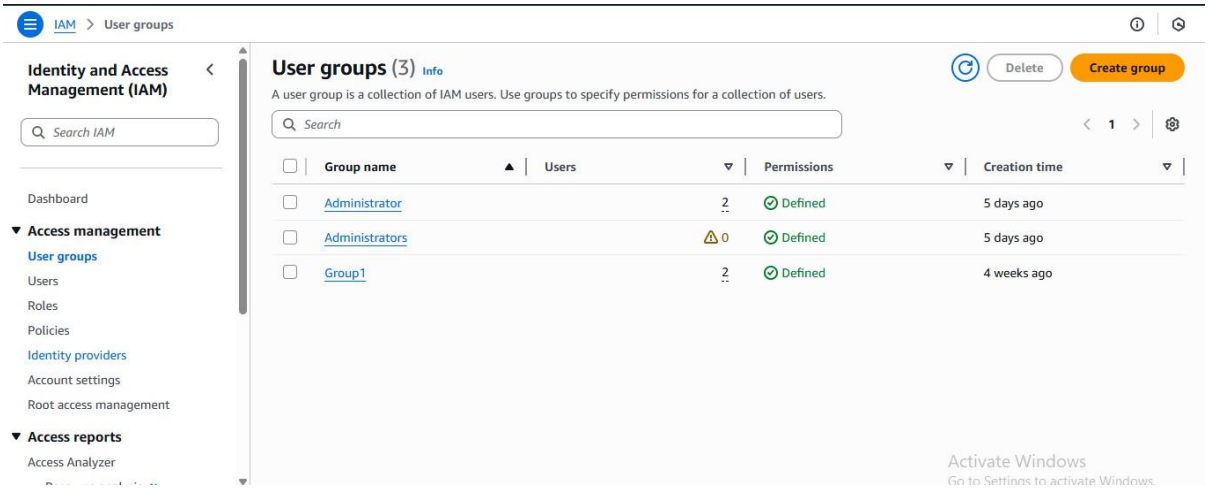
Objective: To create a user group in AWS IAM in order to manage permissions collectively for multiple users having similar roles or responsibilities.

Step1:- Open the IAM Service:
In the search bar at the top of the console, type **IAM**, then select **Identity and Access Management** from the results.



Step 2:- Go to User Groups Section:
In the left-hand sidebar, click on **User groups**.





Step 3:- Click on "Create group":

On the User Groups page, click the **"Create group"** button to start creating a new group

Step 4:- Enter Group Name:

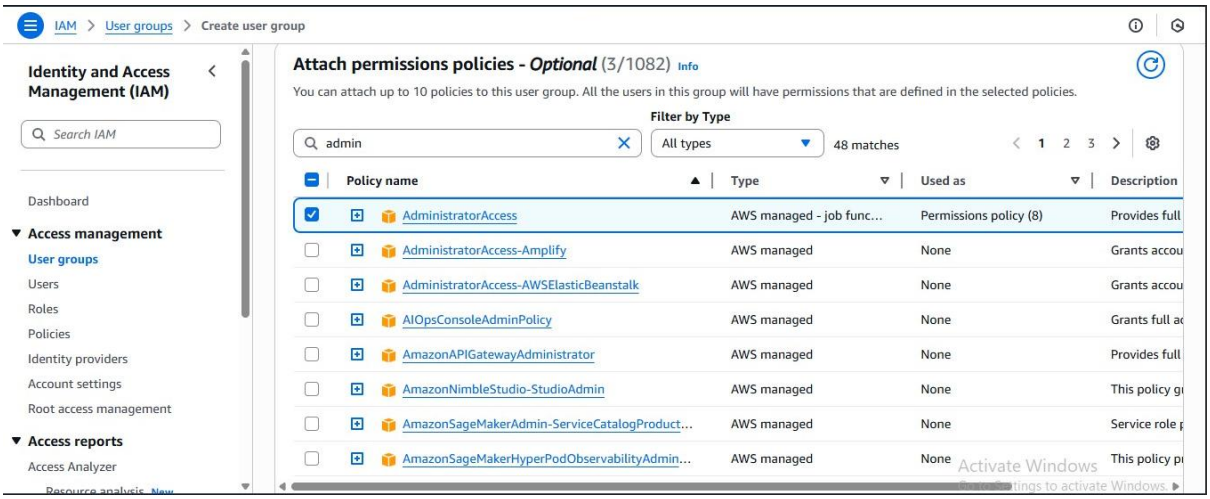
Type a **unique name** for your group (for example, *Developers*, *Admins*, or *ReadOnlyUsers*).

Step 5:- Attach Permissions Policies (Optional):

You can choose policies to attach to this group, such as:

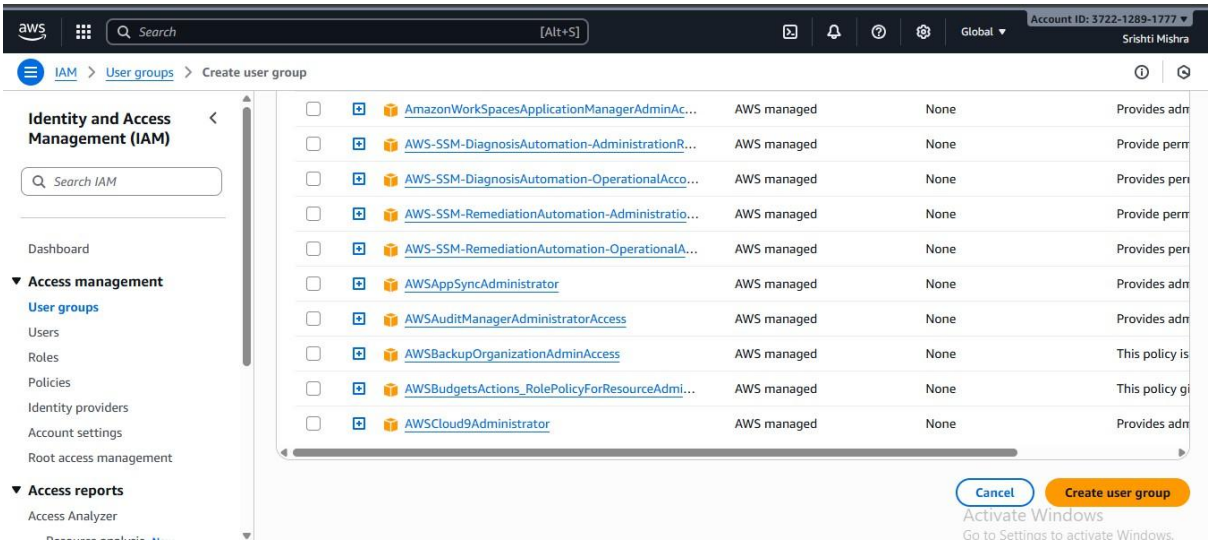
- `AmazonS3FullAccess`
- `AmazonEC2ReadOnlyAccess`
- `AdministratorAccess`

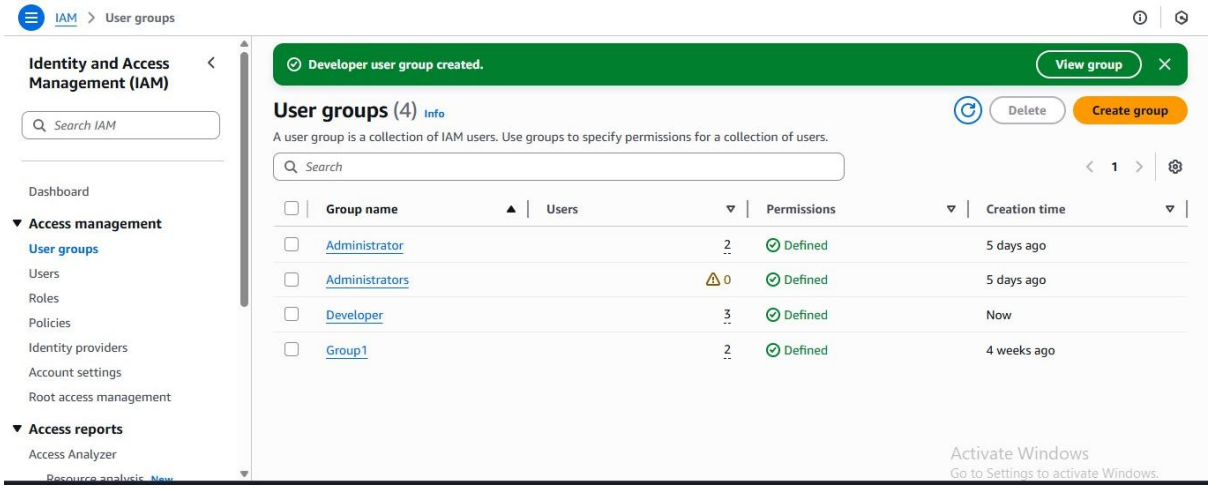
If you want to add permissions later, you can **skip this step** and click **Next**.



Step 6:- Add Users to the Group (Optional):
You can select existing IAM users to include in this group now, or you can add users later after creating the group.

Step 7:- Review and Create Group:
Review the group details and attached policies, then click **Create group**.

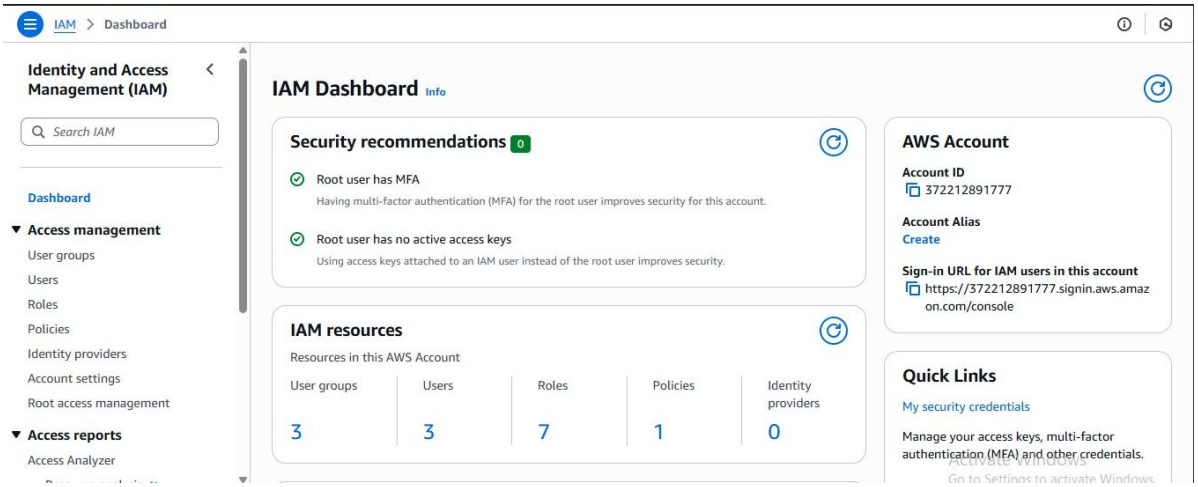



IAM > User groups
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Root access management
Access reports
Access Analyzer
Developer user group created.
View group
User groups (4) Info
A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.
Delete
Create group
Search
1
Group name
Users
Permissions
Creation time
Administrator
2
Defined
5 days ago
Administrators
0
Defined
5 days ago
Developer
3
Defined
Now
Group1
2
Defined
4 weeks ago
Activate Windows
Go to Settings to activate Windows.

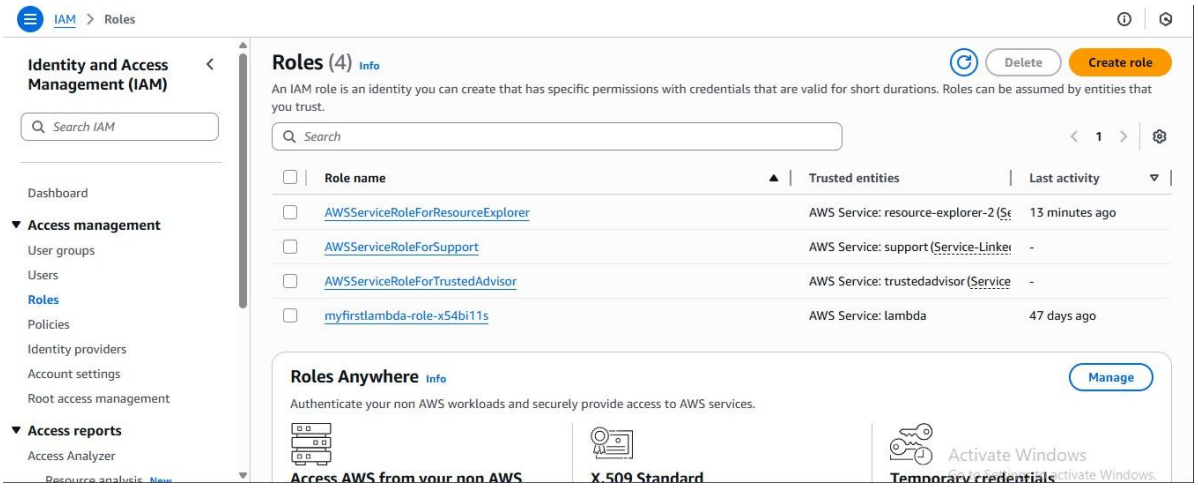
Practical:-8

Objective:-To create a security role in AWS IAM that allows AWS services or users to securely access specific AWS resources with defined permissions, ensuring controlled and temporary access without sharing long-term credentials.

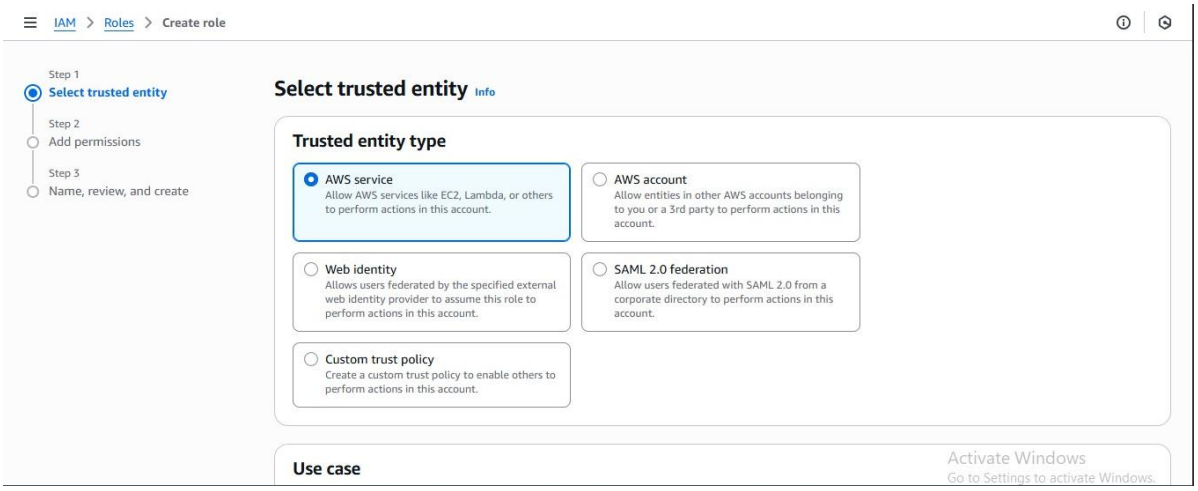
Step 1:- Open the IAM Service:
In the search bar at the top of the console, type **IAM**, then select **Identity and Access Management** from the results.



Step 2:- Go to Roles Section:
In the left-hand navigation pane, click on **Roles**.



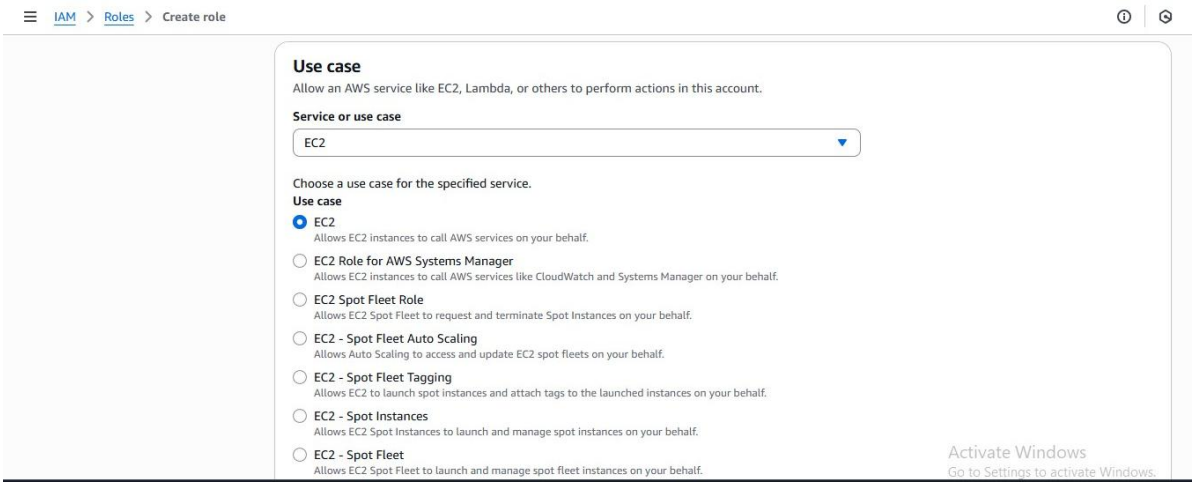
Step 3:- Click on "Create role":
On the Roles page, click the **"Create role"** button to start the process.



Step 4:- Select Trusted Entity Type:
Choose who will use the role, such as:

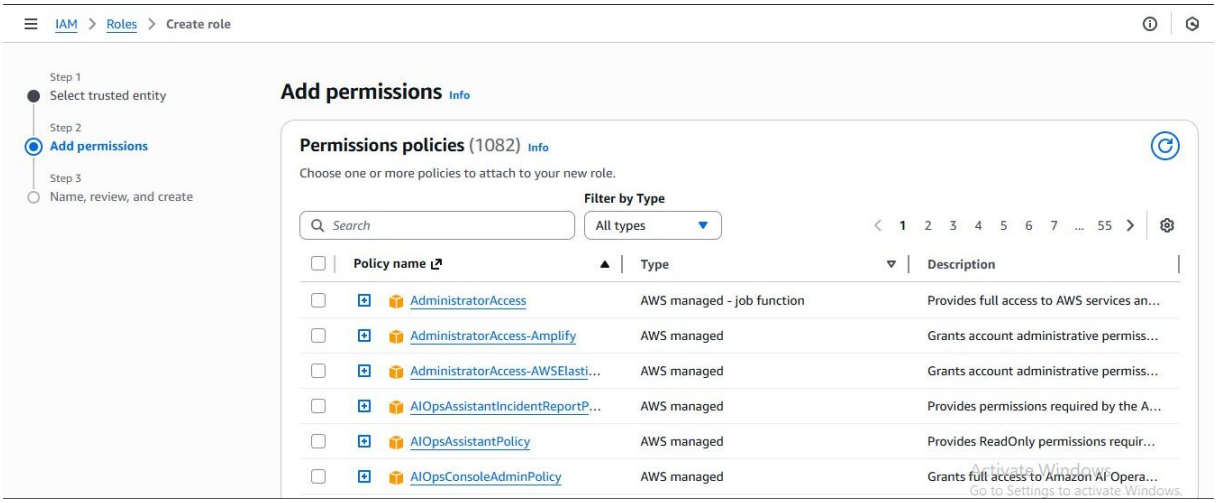
- **AWS Service** (e.g., EC2, Lambda)
- **Another AWS Account**
- **Web Identity** or **SAML 2.0 Federation**

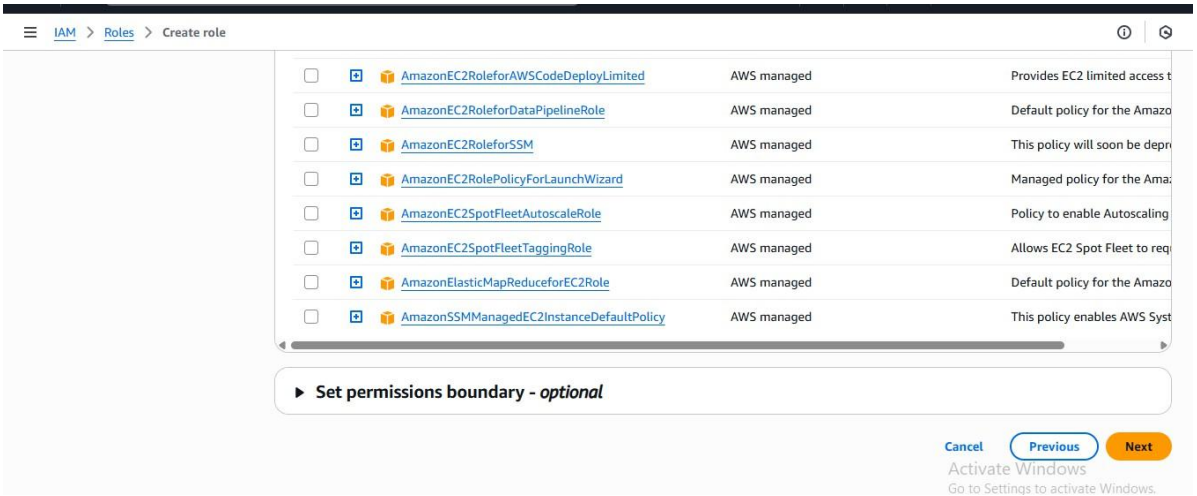
Click **Next** after selecting the appropriate option.



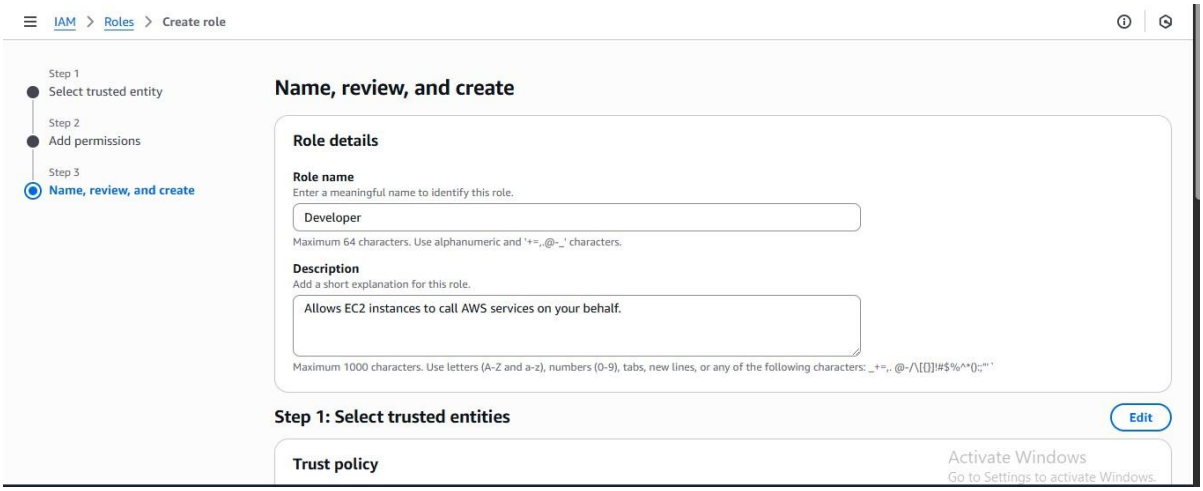
Step 5:-Attach Permissions Policies:

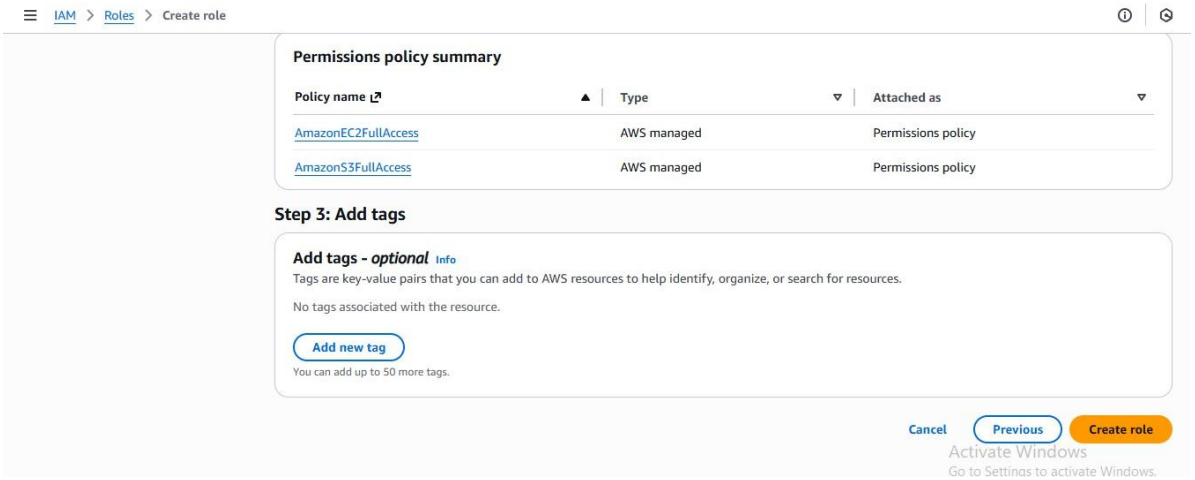
Select the **permissions policies** that define what actions the role can perform (for example, `AmazonS3FullAccess` or `AmazonEC2FullAccess`).





Step 6:- Name and Review the Role:
Enter a **role name** (for example, *EC2SecurityRole* or *LambdaAccessRole*) and review all selected settings.





Step7:- **Create the Role:**

Click **Create role** to finish.