

Amazon Web Services



Dikshitha Chawan

13.11.2023

Maintaining the security of AWS Account

INTRODUCTION

AWS provides cloud computing platforms and API's to individuals and companies on pay-as-you-go basis.

It offers reliable, scalable and inexpensive cloud services.

AMAZON SECURITY

IAM

AWS Identity and Access Management (IAM) is a web service that helps you securely control access to AWS resources. With IAM, you can centrally manage permissions that control which AWS resources users can access.

TASK GIVEN

You work for XYZ Corporation. To maintain the security of the AWS account and the resources you have been asked to implement a solution that can help easily recognize and monitor the different users.

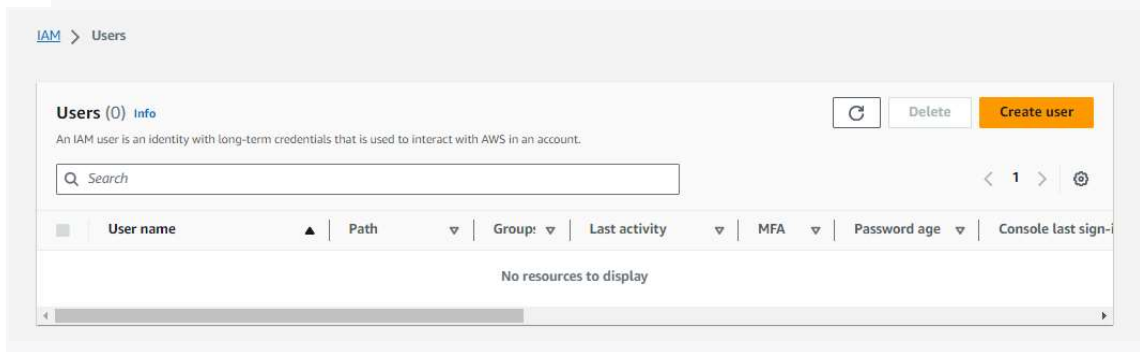
Tasks To Be Performed:

1. Create 4 IAM users named “Dev1”, “Dev2”, “Test1”, and “Test2”.
2. Create 2 groups named “Dev Team” and “Ops Team”.
3. Add Dev1 and Dev2 to the Dev Team.
4. Add Dev1, Test1 and Test2 to the Ops Team

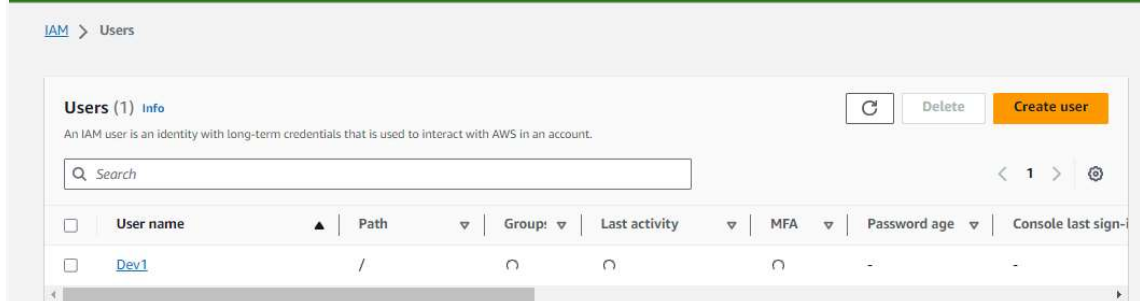
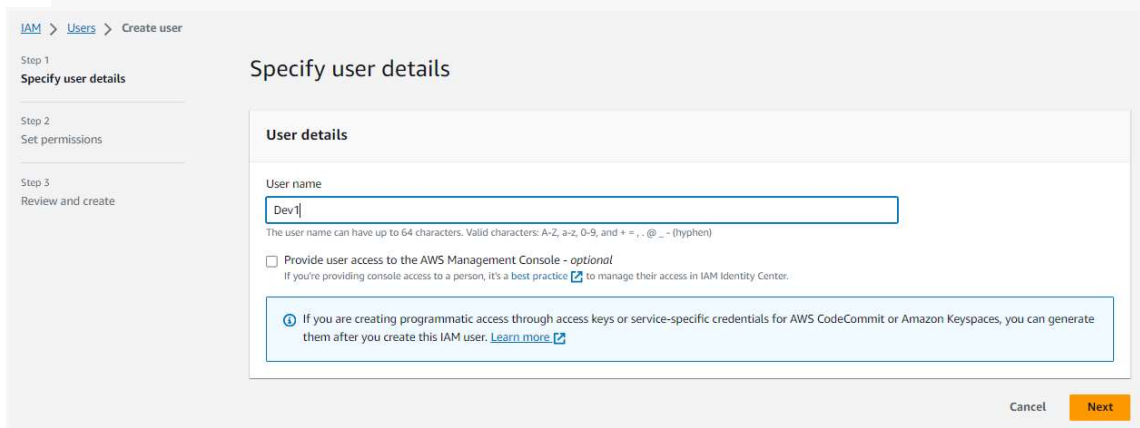
TASK :

1. Create 4 IAM users named “Dev1”, “Dev2”, “Test1”, and “Test2”.

- Go to the IAM Dashboard.
- Click on "Users" on the left navigation pane.
- Click the "create user" button.



- Enter the user's username (e.g., "Dev1").



- In the similar way, create users with names Dev2, Test1, Test2.

Users (4) Info Info Refresh Delete Create user

An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

<input type="checkbox"/>	User name	Path	Group	Last activity	MFA	Password age	Console last sign-in
<input type="checkbox"/>	Dev1	/	/	↻	✓	-	-
<input type="checkbox"/>	Dev2	/	/	↻	✓	-	-
<input type="checkbox"/>	Test1	/	/	↻	✓	-	-
<input type="checkbox"/>	Test2	/	/	↻	✓	-	-

2. Create 2 groups named “Dev Team” and “Ops Team”.

- click on "Groups" on the left navigation pane.
- Click the "Create Group" button.

[IAM](#) > User groups

User groups (0) Info Info Refresh Delete Create group

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

<input type="checkbox"/>	Group name	Users	Permissions	Creation time
No resources to display				

- Enter the group name (e.g., "Dev Team") and click "Next Step."

Create user group

Name the group

User group name
Enter a meaningful name to identify this group.

Maximum 128 characters. Use alphanumeric and '+=, @-_' characters.

Create user group

Name the group

User group name
Enter a meaningful name to identify this group.

Maximum 128 characters. Use alphanumeric and '+=, @-_' characters.

- I have created two user groups.

[IAM](#) > User groups

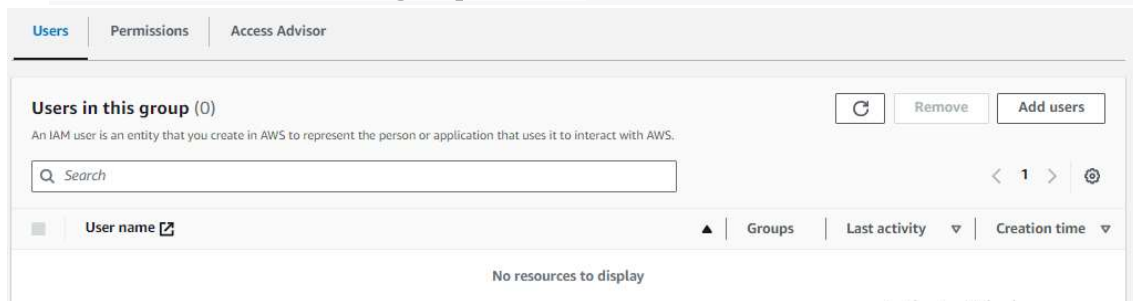
User groups (2) Info Info Refresh Delete Create group

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

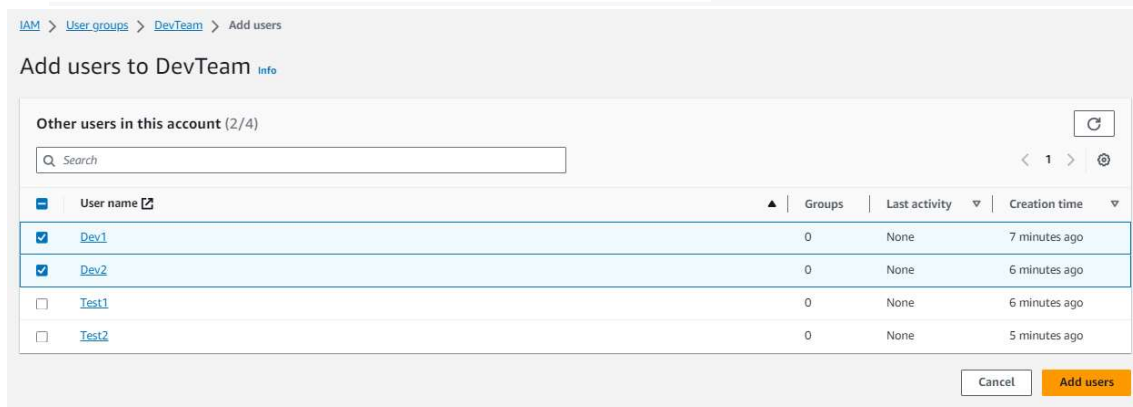
<input type="checkbox"/>	Group name	Users	Permissions	Creation time
<input type="checkbox"/>	DevTeam	↻ Loading	↻ Loading	Now
<input type="checkbox"/>	opsTeam	↻ Loading	↻ Loading	Now

3. Add Dev1 and Dev2 to the Dev Team.

- click on "Groups."
- Select the "DevTeam" group.
- Click the "Add users to group" button.

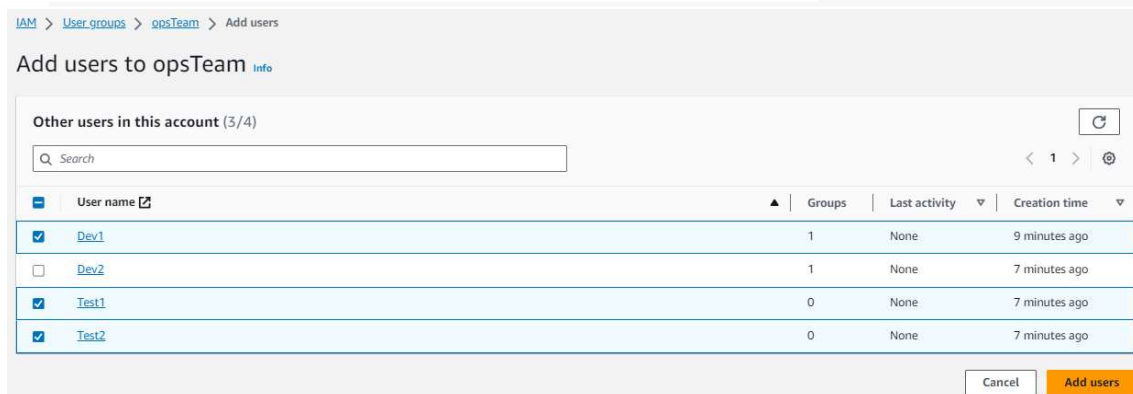


- Select "Dev1" and "Dev2" and click "Add users."



4. Add Dev1, Test1 and Test2 to the Ops Team

- Similarly, Select the "opsTeam" group.
- Click the "Add users to group" button
- Select "Dev1", "Test1" and "Test2" and click "Add users."



CONCLUSION:

I have created IAM users and organized them into groups. This setup makes it easier to manage and monitor user access within your AWS account.