

Assignment: IAM Users and Groups Setup

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Course: AWS DevOps

Problem Statement

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

Tasks to Be Performed

- 1 Create 4 IAM users named Dev1, Dev2, Test1, and Test2.
- 2 Create 2 IAM 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.

Implementation Steps (Using AWS Management Console)

Step 1 — Open IAM

Sign in to the AWS Management Console. Search for IAM and open it. You will be directed to the IAM Dashboard.

Step 2 — Create 4 IAM Users

In the IAM console, go to Users → Create user. Enter user names as Dev1, Dev2, Test1, and Test2. Keep default settings and create users.

The screenshot shows the AWS IAM Users page. At the top, there is a header with a search bar, a 'Create user' button, and other navigation links. Below the header, a message states: 'An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.' A table lists four IAM users:

User name	Path	Group	Last activity	MFA	Password age	Console last sign-in	Access summary
Dev1	/	0	-	-	1 minute	-	-
Dev2	/	0	-	-	Now	-	-
Test1	/	0	-	-	Now	-	-
Test2	/	0	-	-	Now	-	-

Step 3 — Create 2 IAM Groups

In the IAM console, go to User groups → Create group. Create Dev-Team and Ops-Team (without spaces).

The screenshot shows the 'User groups' page in the AWS IAM console. A green success message at the top left says 'Ops-Team user group created.' with a 'View group' button and a close 'X'. Below it, the heading 'User groups (2/2)' has an 'Info' link. To the right are 'Create group' (orange), 'Delete' (blue), and 'Edit' (blue) buttons. A search bar and navigation controls are also present. The main table lists two groups:

Group name	Users	Permissions	Creation time
Dev-Team	⚠ 0	⚠ Not defined	Now
Ops-Team	⚠ 0	⚠ Not defined	Now

Step 4 — Add Users to Dev Team

Go to User groups → Dev-Team → Add users → select Dev1 and Dev2 → Add users.

The screenshot shows the 'Dev-Team' group details page in the AWS IAM console. A green success message at the top left says '2 users added to this group.' with a 'X' button. Below it, the heading 'Dev-Team' has an 'Info' link and a 'Delete' button. A 'Summary' section shows the group name, creation time (October 17, 2025, 13:05 (UTC+05:30)), and ARN (arn:aws:iam:062250062838:group/Dev-Team). An 'Edit' button is also present. At the bottom, tabs for 'Users (2)', 'Permissions', and 'Access Advisor' are visible. The 'Users in this group (2)' section shows two users: Dev1 and Dev2, each with a checkbox, a 'Remove' button, and an 'Add users' button. A search bar and navigation controls are included.

User name	Groups	Last activity	Creation time
Dev1	1	None	4 minutes ago
Dev2	1	None	4 minutes ago

Step 5 — Add Users to Ops Team

Go to User groups → Ops-Team → Add users → select Dev1, Test1, and Test2 → Add users.

The screenshot shows the 'Ops-Team' user group details. The 'Summary' section includes the group name 'Ops-Team', creation time 'October 17, 2025, 13:06 (UTC+05:30)', and ARN 'arn:aws:iam::062250062838:group/Ops-Team'. Below this, the 'Users (3)' tab is selected, showing three users: Dev1, Test1, and Test2. Each user has a checkbox next to their name, and the 'Add users' button is visible at the top right of the user list.

Step 6 — Verify the Setup

Go to Users → select each user → Groups tab. Verify group memberships as per requirements.

The screenshot shows the 'Dev1' user details. In the 'Summary' section, it lists the ARN 'arn:aws:iam::062250062838:user/Dev1', creation date 'October 17, 2025, 13:03 (UTC+05:30)', and console access status 'Enabled without MFA'. The 'Groups (2)' tab is selected in the navigation bar. The 'User groups membership' section shows Dev1 is a member of 'Dev-Team' and 'Ops-Team', with an 'Add user to groups' button available.

Dev2 [Info](#) [Delete](#)

Summary

ARN arn:aws:iam::062250062838:user/Dev2	Console access ⚠ Enabled without MFA	Access key 1 Create access key
Created October 17, 2025, 13:04 (UTC+05:30)	Last console sign-in ⌚ Never	

Permissions | **Groups (1)** | Tags | Security credentials | Last Accessed

User groups membership

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users. A user can be a member of up to 10 groups at a time.

<input type="checkbox"/> Group name	Attached policies [?]
<input type="checkbox"/> Dev-Team	-

[Remove](#) [Add user to groups](#)

Test1 [Info](#) [Delete](#)

Summary

ARN arn:aws:iam::062250062838:user/Test1	Console access ⚠ Enabled without MFA	Access key 1 Create access key
Created October 17, 2025, 13:04 (UTC+05:30)	Last console sign-in ⌚ Never	

Permissions | **Groups (1)** | Tags | Security credentials | Last Accessed

User groups membership

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users. A user can be a member of up to 10 groups at a time.

<input type="checkbox"/> Group name	Attached policies [?]
<input type="checkbox"/> Ops-Team	-

[Remove](#) [Add user to groups](#)

Test2 [Info](#) [Delete](#)

Summary

ARN arn:aws:iam::062250062838:user/Test2	Console access ⚠ Enabled without MFA	Access key 1 Create access key
Created October 17, 2025, 13:04 (UTC+05:30)	Last console sign-in ⌚ Never	

Permissions | **Groups (1)** | Tags | Security credentials | Last Accessed

User groups membership

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users. A user can be a member of up to 10 groups at a time.

<input type="checkbox"/> Group name	Attached policies [?]
<input type="checkbox"/> Ops-Team	-

[Remove](#) [Add user to groups](#)

Final Output

Successfully created and organized IAM users and groups as per the given requirements. This setup enhances AWS account security and provides clear user-role segregation for better management.