

Identity and Access Management (IAM)

IAM allows us to manage users and manage their permissions to the AWS console and services. It acts like a central place to manage and control our AWS account.

Common terms used:

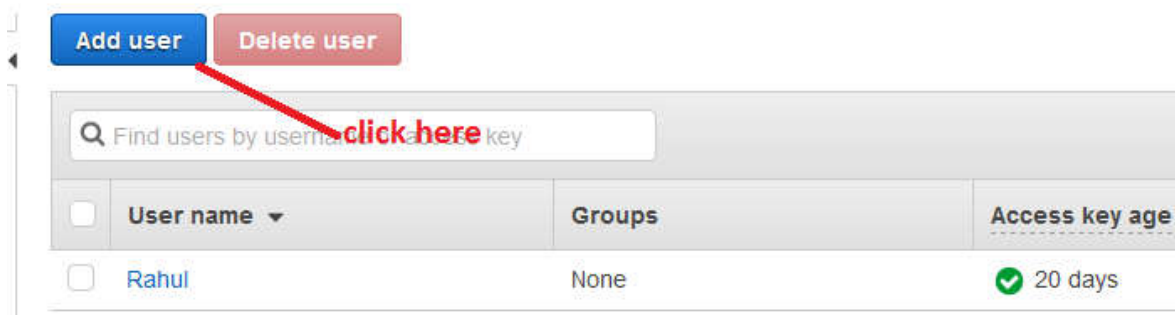
- User - person
- Group - is set of permissions to be made available to users. For e.g. "Admin", "Manager". User are assigned to group(s)
- Roles - are assigned to AWS resources to access other resources
- Policy - JSON document having the access related information

IAM is global and users, groups are same across all the regions for a given account.

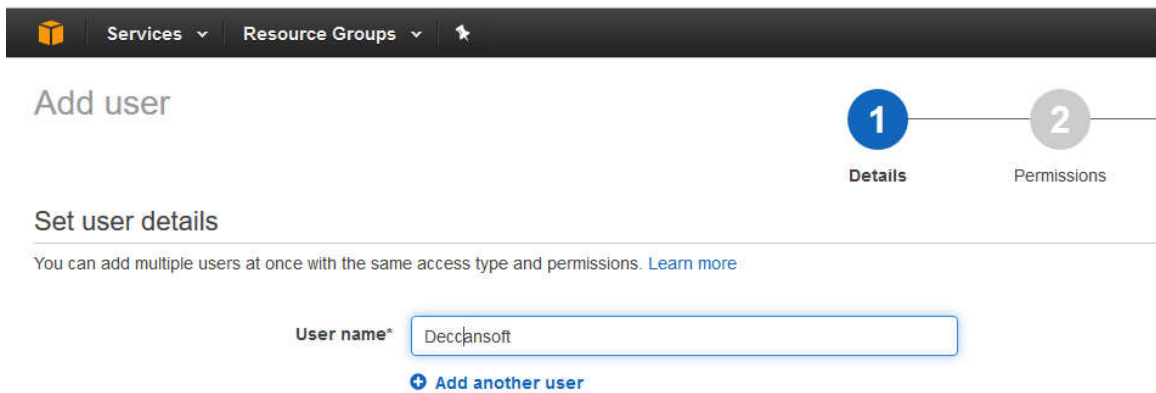
To create a user, we need to follow the steps as mentioned below:

Step 1 - To perform any task in AWS, we need to create IAM user, which will provide a key.

Let us see how we can create a role for user by using the given permission.



Step 2 - To add new user, we need to click at new user after it will pop-up new fields like given below.



The screenshot shows the AWS IAM 'Add user' wizard. At the top, there is a navigation bar with 'Services', 'Resource Groups', and a star icon. Below this, the title 'Add user' is displayed. To the right of the title is a progress indicator with two steps: '1 Details' (active, highlighted in blue) and '2 Permissions' (inactive, highlighted in gray). Below the title, the section 'Set user details' is shown. A note states: 'You can add multiple users at once with the same access type and permissions. [Learn more](#)'. Below this note is a text input field labeled 'User name*' with the value 'Decclansoft'. Below the input field is a blue button with a plus icon and the text 'Add another user'.

After specifying a username, we need to move for next step which is to provide permissions.

Step 3: Adding permissions.

The screenshot shows the 'Add user' page in the AWS IAM console. The 'User name' field is set to 'Deccansoft'. Below it is a link to 'Add another user'. The 'Select AWS access type' section has two options: 'Programmatic access' (checked) and 'AWS Management Console access' (checked). The 'Console password' section has two options: 'Autogenerated password' (selected) and 'Custom password'. The 'Require password reset' section has one option: 'User must create a new password at next sign-in' (checked).

User name*

[Add another user](#)

Select AWS access type

Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step. [Learn more](#)

Access type* ☒ **Programmatic access**
Enables an **access key ID** and **secret access key** for the AWS API, CLI, SDK, and other development tools.

☒ **AWS Management Console access**
Enables a **password** that allows users to sign-in to the AWS Management Console.

Console password* ☒ Autogenerated password
☐ Custom password

Require password reset ☒ User must create a new password at next sign-in
Users automatically get the [IAMUserChangePassword](#) policy to allow them to change their own password.

Step 4 - To add extra permissions we need to follow the suggestions as specified

The screenshot shows the 'Set permissions for Deccansoft' page in the AWS IAM console. There are three options: 'Add user to group', 'Copy permissions from existing user', and 'Attach existing policies directly'. Red arrows point to the 'Add user to group' and 'Copy permissions from existing user' options. Below the options is a blue box with the title 'Get started with groups' and a 'Create group' button.

Add user

To add user in group. To add existing permissions

Set permissions for Deccansoft

Add user to group

Copy permissions from existing user

Attach existing policies directly

Get started with groups
You haven't created any groups yet. Using groups is a best-practice way to manage users' permissions. Get started by creating a group. [Learn more](#)

Create group

Step 5 - After adding all required permissions we will see the descriptions as below.

The screenshot shows the 'Review' step of the AWS IAM 'Add user' process. The top navigation bar includes 'Services', 'Resource Groups', and a search icon. The right side shows a notification bell, the user 'Rahul', and a 'Global' dropdown. Below the navigation bar, there are four tabs: 'Details', 'Permissions', 'Review' (selected), and 'Complete'. The main heading is 'Review'. Below it, a message states: 'Review your choices. After you create the user, you can view and download the autogenerated password and access key.' The 'User details' section shows: 'User name' as 'Deccansoft', 'AWS access type' as 'Programmatic access and AWS Management Console access', 'Console password type' as 'Autogenerated', and 'Require password reset' as 'Yes'. The 'Permissions summary' section states: 'The user shown above will be added to the following groups.' Below this is a table with two columns: 'Type' and 'Name'. The table contains one row: 'Managed policy' and 'IAMUserChangePassword'. At the bottom right, there are three buttons: 'Cancel', 'Previous', and 'Create user'.

Review

Review your choices. After you create the user, you can view and download the autogenerated password and access key.

User details

User name	Deccansoft
AWS access type	Programmatic access and AWS Management Console access
Console password type	Autogenerated
Require password reset	Yes

Permissions summary

The user shown above will be added to the following groups.

Type	Name
Managed policy	IAMUserChangePassword

[Cancel](#) [Previous](#) [Create user](#)

Step 6: after confirming all information, we can move forward for create user operations.

The screenshot shows the 'Add user' success screen. The top navigation bar is the same as in Step 5. Below the navigation bar, there is a progress indicator with four steps: 1. Details, 2. Permissions, 3. Review, and 4. Complete (highlighted in blue). The main heading is 'Add user'. Below the heading, there is a green box with a checkmark and the word 'Success'. The text inside the box says: 'You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time.' Below this text, it says: 'Users with AWS Management Console access can sign-in at: <https://205125362654.signin.aws.amazon.com/console>'. Below the green box, there is a button labeled 'Download .csv'. Below the button, there is a table with six columns: 'User', 'Access key ID', 'Secret access key', 'Password', and 'Email login instructions'. The table contains one row: 'Deccansoft', 'AKIAINRF3V7BK23HAQ4A', '***** Show', '***** Show', and 'Send email'. At the bottom right, there is a 'Close' button.

Add user

1 Details 2 Permissions 3 Review 4 **Complete**

Success

You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time.

Users with AWS Management Console access can sign-in at: <https://205125362654.signin.aws.amazon.com/console>

[Download .csv](#)

User	Access key ID	Secret access key	Password	Email login instructions
Deccansoft	AKIAINRF3V7BK23HAQ4A	***** Show	***** Show	Send email

[Close](#)

Step 7 - After creating user we can add more permissions as per our requirements.

[Users](#) > [Deccansoft](#)

Summary

User ARNarn:aws:iam::205125362654:user/Deccansoft

Path/

Creation time2017-07-19 09:31 UTC+0530

PermissionsGroups (0)Security credentialsAccess Advisor

Add permissions

Attached policies: 1

Policy name	Policy type
Attached directly	
<div> IAMUserChangePassword</div>	AWS managed policy

[+ Add inline policy](#)