IAM User, Groups, Merged Groups, Roles, Policies

Step 1: Specify User Details

Console Steps

- 1. Go to the IAM Dashboard in the AWS Management Console.
- 2. Navigate to:

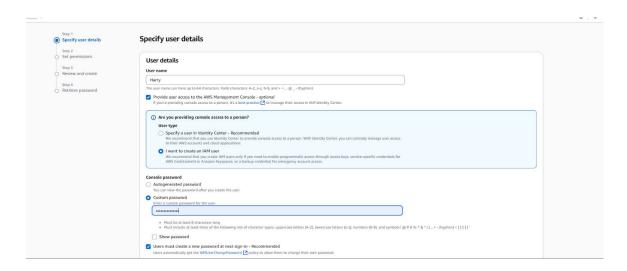
Access management → Users → Add users

3. Enter the User name:

e.g., Harry

(User names may contain up to 64 characters with letters, numbers, and hyphens.)

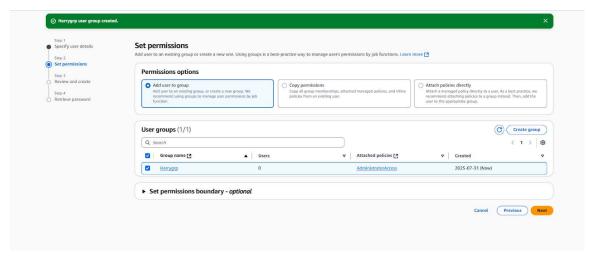
- 4. Select AWS access options:
 - Management Console access:
 - Set custom password or let AWS generate one.
 - Decide whether to require a password reset at next sign-in (recommended).
- 5. Click Next.



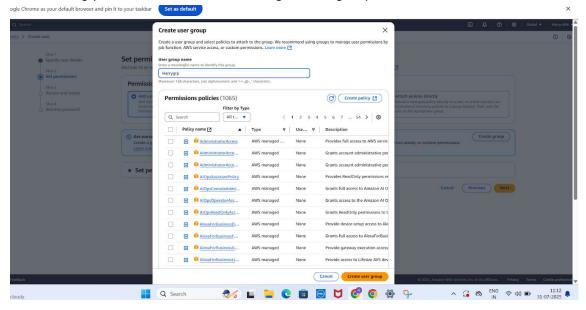
Step 2: Set Permissions

- 1. Add user to a group:
 - Best practice is to use groups for permissions.

- 2. Create new group (if needed):
 - **Group name:** Harrygrp
 - Attach permission policies (e.g., AdministratorAccess)
 - Click Create group
- 3. Select the group (e.g., Harrygrp) and add the user.
- 4. Click Next.

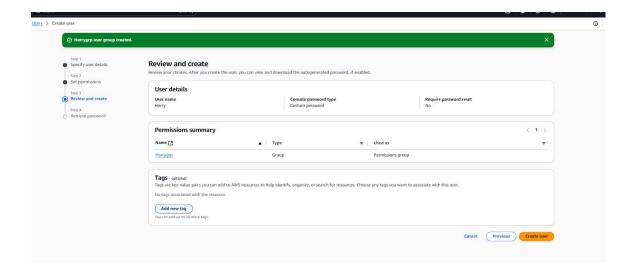


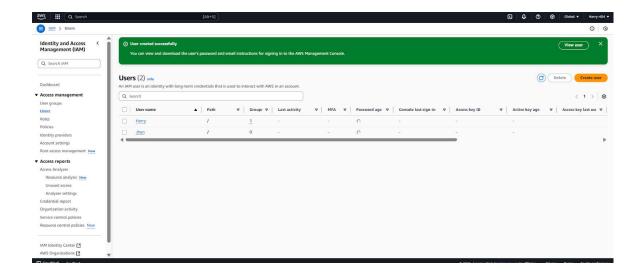
After Setting permission like also including user in group review and create user:



Step 3: Review and Create

- 1. Review the configuration:
 - User name
 - · Assigned groups and their attached policies
 - Console password and reset preference
- 2. Add tags if necessary (optional, for resource management).
- 3. Click Create user.



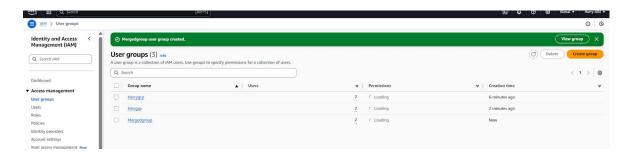


Extra: Creating More Groups and Merged Groups

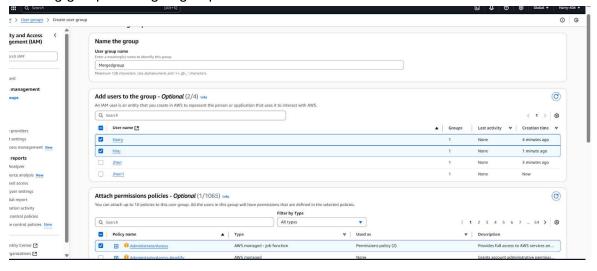
You can create multiple user groups and assign users to more than one group if needed.

Console Steps

- 1. Go to IAM > User Groups > Create Group
- 2. Enter group name (e.g., Mergedgroup)
- 3. Select users to add
- 4. Attach desired permission policies
- 5. Create the group



Creating group or merged group

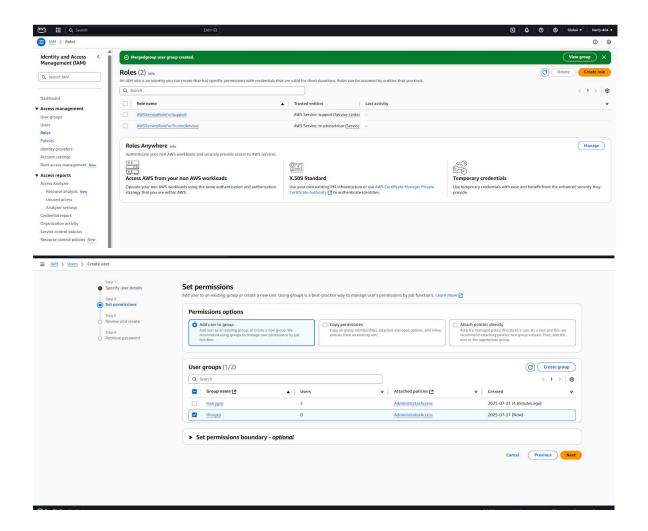


Step 4 (Optional): Managing Roles

Roles are different from users/groups; they're for permissions that can be assumed temporarily.

- Go to Roles → Create Role
- Select trusted entity (e.g., AWS service, another account)
- Attach policies as needed

Name the role and finish creation



Step 5: Create and Attach Custom Policies

You can create custom policies in AWS IAM to precisely tailor permissions for users or groups. This step is in addition to using AWS-managed policies and is especially valuable for organizations requiring fine-grained access controls.

- 1. Navigate to the IAM Dashboard:
 - Go to IAM > Policies.
- 2. Create Policy:
 - Click Create policy.
 - Choose Visual editor or JSON:

- Visual Editor: Select a service, choose actions, and specify resources.
- JSON: Paste your custom policy document.

Summary Table

Resource	Console Steps Summary
User	Add Users
Group	User Groups > Create Group
Policy	Attach via wizard
Add to group	Select in UI
Role	Roles > Create Role