

Lab Steps

Task 1: Sign in to AWS Management Console

1. Click on the **Open Console** button, and you will get redirected to AWS Console in a new browser tab.
2. On the AWS sign-in page,
 - Leave the Account ID as default. Never edit/remove the 12-digit Account ID present in the AWS Console. Otherwise, you cannot proceed with the lab.
 - Now copy your **Username** and **Password** in the Lab Console to the **IAM Username and Password** in AWS Console and click on the **Sign-in** button.
3. Once Signed In to the AWS Management Console, make the default AWS Region as **US East (N. Virginia) us-east-1**.

Task 2: Create IAM Users

In this task, we are going to create new IAM users by providing the name, password access, permissions, and tags. These users will be added to their respective groups in the next task.

1. Click on **Services** and select **IAM** under the **Security, Identity, & Compliance** section.
2. In the **IAM** dashboard, select the **Users** option in the left panel and click on the **Add Users** button to create a new IAM user.
3. In the **Add User** page, fill in the User Details section as follows:
 - User name: Enter **John** (or the desired name for the user)
 - **Check** the Provide user access to the AWS Management Console - optional checkbox
 - Select **Custom password** under Console Password and Enter the desired password for the user
 - **Uncheck** the Users must create a new password at next sign-in (recommended) checkbox.
 - Click on **Next** button.

User details

User name
John
The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = , . @ _ - (hyphen)

☒ Provide user access to the AWS Management Console - optional
If you're providing console access to a person, it's a [best practice](#) to manage their access in IAM Identity Center.

Console password
☐ Autogenerated password
You can view the password after you create the user.
☒ Custom password
Enter a custom password for the user.

☐ Show password

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

ⓘ If you are creating programmatic access through access keys or service-specific credentials for AWS CodeCommit or Amazon Keyspaces, you can generate them after you create this IAM user. [Learn more](#)

Cancel **Next**

- In **Set permissions** section, keep things as default. Click on **Next** button.
- Scroll down and Under **Tags**, Click on **Add new tag** button:
 - Key: Enter **Dev-Team**
 - Value: Enter **Developers**

Tags - optional

Tags are key-value pairs you can add to AWS resources to help identify, organize, or search for resources. Choose any tags you want to associate with

Key

Q Dev-Team

Value - optional

Q Developers

Add new tag

You can add up to 49 more tags.

- Click on **Create User** button.
- Click on **Return to users list** button and then on **Continue** button.
- Repeat the same steps and tags for IAM user by name **Sarah**.

Users (4) [Info](#)

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

Q Find users by username or access key

<input type="checkbox"/>	User name	Groups	Last activity	MFA	Password age	Active key age
<input type="checkbox"/>	John	None	Never	None	None	-
<input type="checkbox"/>	Sarah	None	Never	None	None	-

- Repeat the steps to create IAM users by name **Ted, Rita** with following details,
 - Custom password : **(any desired pwd)**
 - Key: **HR-Team**
 - Value : **HR**
- We have created **4 IAM** users.

Users (6) [Info](#)

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

Q Find users by username or access key

<input type="checkbox"/>	User name	Groups	Last activity	MFA	Password age	Active key age
<input type="checkbox"/>	John	None	Never	None	None	-
<input type="checkbox"/>	Rita	None	Never	None	None	-
<input type="checkbox"/>	Sarah	None	Never	None	None	-
<input type="checkbox"/>	Ted	None	Never	None	None	-

Task 3: Create IAM Groups and add IAM Users

In this task, we are going to create new IAM groups and will add the users to their respective groups. Moreover, we will be adding permissions to the group so that users within the group have the access to the services allocated to them using the permission policies.

1. Select the **User groups** in the left panel and click on the **Create group**
2. Set Group Name:
 - User group name: Enter **Dev-Team**
 - Scroll down and select **John** and **Sarah** under **Add Users to the group**

Create user group

Name the group

User group name

Enter a meaningful name to identify this group.

Dev-Team

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

Add users to the group - *Optional* (Selected 2/2) [Info](#)

An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS. A user can belong to up to 10 groups.

Search

<input checked="" type="checkbox"/>	User name	Groups	Last activity	Creation time
<input checked="" type="checkbox"/>	John	0	None	2 minutes ago
<input checked="" type="checkbox"/>	Sarah	0	None	1 minute ago

- Scroll down to the **Attach permissions Policies** section and search for **AmazonEC2ReadOnlyAccess** and **AmazonS3ReadOnlyAccess** policies. These policies provide read access for EC2 and S3 to the added users in the group.
- **Note: Do not add other policies than the ones mentioned above. You will get an error while creating a group**
- Review all details and click on **Create group** button.
- Repeat the same steps to create an **HR-Team** group.
 - Click on the **Create group**
 - User group name: **HR-Team**
 - Scroll down and select **Ted** and **Rita** under **Add Users to the group**.
 - Under **Attach permissions Policies**, select the **Billing** policy.
 - **Note: Do not add other policies than the ones mentioned above. You will get an error while creating a group**
 - Review all details and click on **Create group** button.

User groups (2) [Info](#)

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

Filter User groups by property or group name and press enter

<input type="checkbox"/>	Group name	Users	Permissions	Creation time
<input type="checkbox"/>	Dev-Team	2	✓ Defined	Now
<input type="checkbox"/>	HR-Team	2	✓ Defined	Now

Completion and Conclusion

1. In this lab, you created 4 IAM users & 2 IAM groups. At the time of IAM groups creation, you attached the required IAM policies, added John and Sarah to the Dev Team group, and added Ted and Rita to the HR Team group.
2. You have learned how to create IAM users and groups.
3. You have learned how to add users to the respected IAM groups.
4. You have learned how to attach a policy while creating the IAM groups.
5. You have learned how to allow a specific user/group to access services and resources in your AWS account.
6. You have successfully validated the lab.