

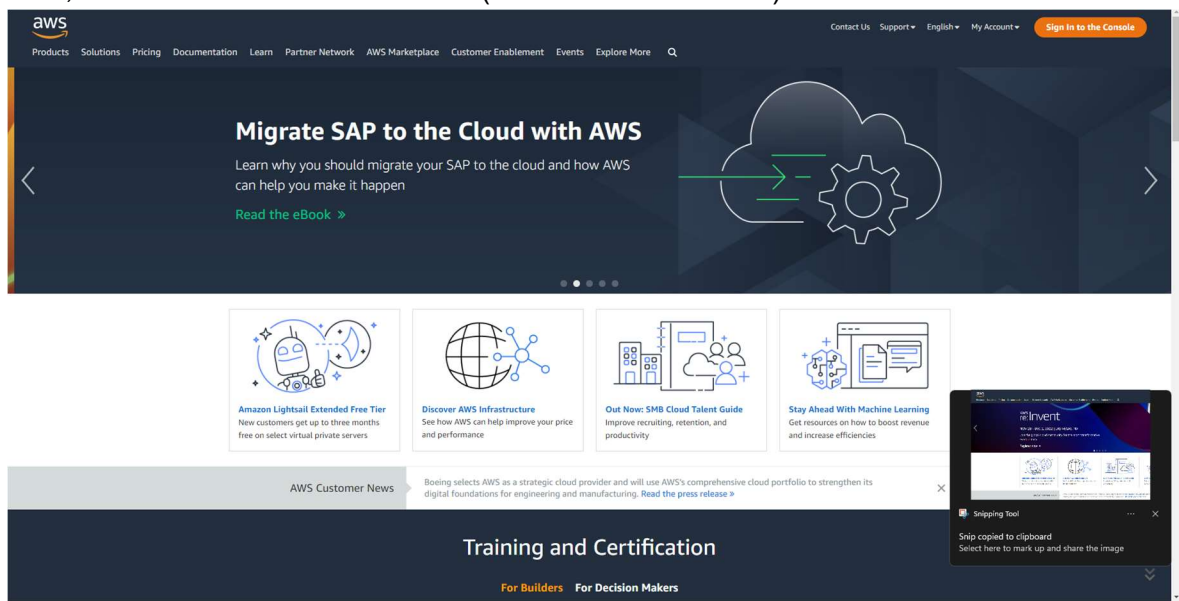
# CC Lab Experiment 3a

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Enrolment Number	A70405219039
Experiment Number	3a
Batch	1

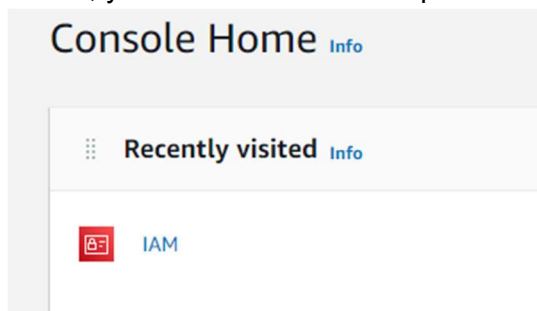
Aim: Create a minimum of 6 users and allocate them to different groups.

Theory:

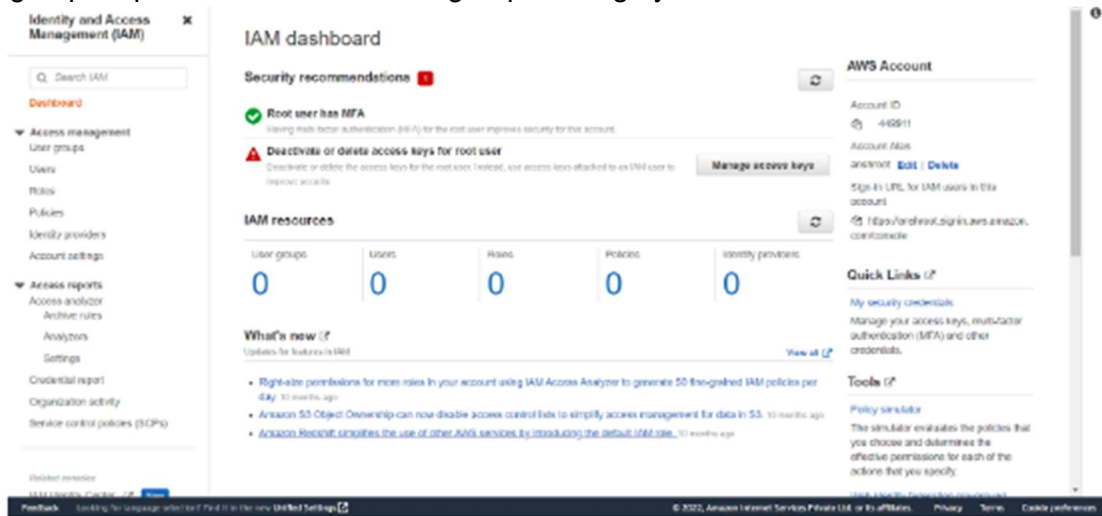
1. First, create a root account on AWS (Amazon Web Service).



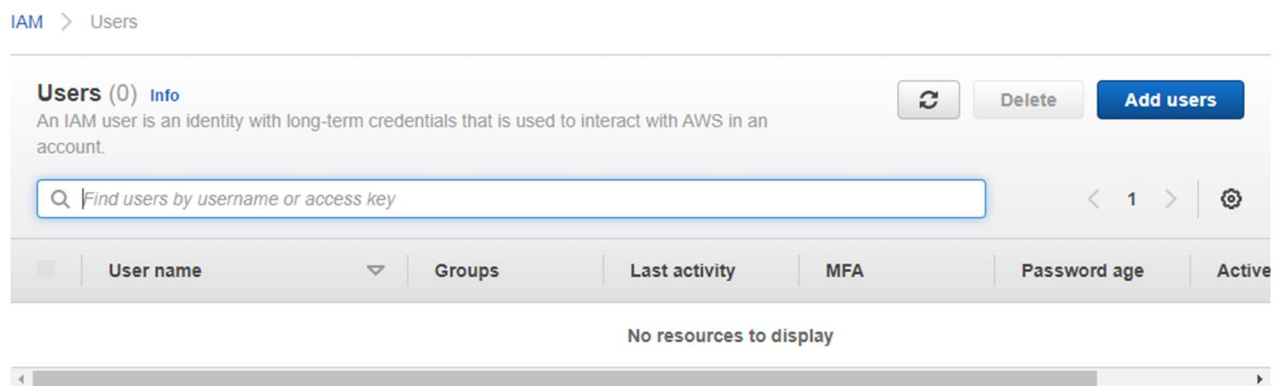
2. After creating an account, go to IAM service option mentioned on the home screen. If not visible, you can search for the option on the option bar.



3. The option will lead you to this page. Initially, the number of IAM users and groups created is 0. You can simply click on the “users” option to check the list of users or the “groups” option to check the list of groups through your AWS root account.



4. Now, to create a new IAM user, click on the “Add Users” option.



5. Start with naming your new user, for example, “user1”. You can create multiple users at the same time with the “Add Another User” option.

Add user

1

2

Set user details

You can add multiple users at once with the same access type and permissions. [Learn more](#)

User name\*

user1

+ Add another user

6. Now, you need to specify the access type of the new IAM user. The most basic and widely advised type is the “Custom Password”.

## Select AWS access type

Select how these users will primarily access AWS. If you choose only programmatic access, it does NOT prevent users from accessing the console using an assumed role. Access keys and autogenerated passwords are provided in the last step. [Learn more](#)

**Select AWS credential type\***

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

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

**Console password\***

☐ Autogenerated password

☒ Custom password

.....

☐ Show 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.

\* Required

Cancel


Next: Permissions


7. While setting permissions for a user, you also get an option to create a group simultaneously.


## Add user

1 2 3 4 5

### Set permissions

 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 by job functions, AWS service access, or your custom permissions. Get started by creating a group. [Learn more](#)

Create group

### Set permissions boundary


Cancel


Previous


Next: Tags

8. You also have an option to copy the permissions of an existing user to a new user. This reduces time and energy used to search for the same permissions and policies everytime a new user is created.

## ▼ Set permissions

 Add user to group

 Copy permissions from existing user

 Attach existing policies directly

Select an existing user from which to copy policies and group membership.

## Copy permissions from existing user

Q Search			Showing 1 result
User name ▼	Groups	Attached policies	
<input checked="" type="radio"/> user1	Group1	IAMUserChangePassword	

## ▶ Set permissions boundary


[Cancel](#)[Previous](#)[Next: Tags](#)

9. Through the created group, you can set common/similar permissions and policies to your created user or multiple users.

Create a group and select the policies to be attached to the group. Using groups is a best-practice way to manage your custom permissions. [Learn more](#)

Group name

[Create policy](#)[Refresh](#)

Filter policies ▼		Q Search		
	Policy name ▼	Type	Used as	
<input checked="" type="checkbox"/>	 AdministratorAccess	Job function	None	

10. You also have an option to add tags to the created group. (Optional). Tags are a key-value pair which can be assigned to an IAM user. They can either be the email address of the user, or their designation, etc. They can be used to identify the user and the type of permissions they are supposed to be allotted to them.

Add user

12345

Add tags (optional)

IAM tags are key-value pairs you can add to your user. Tags can include user information, such as an email address, or can be descriptive, such as a job title. You can use the tags to organize, track, or control access for this user. [Learn more](#)

Key	Value (optional)	Remove
dept	for practice	✕
Add new key		

You can add 49 more tags.

Cancel Previous **Next: Review**

11. Lastly, you reach the review page, where the details of the to-be-created user or multiple users are shown. You can go back to change certain details, or simply click on “Create User”.

Add user

12345

Review

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

User details

User name	user1
AWS access type	AWS Management Console access - with a password
Console password type	Custom
Require password reset	No
Permissions boundary	Permissions boundary is not set

Permissions summary

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

Type	Name
Group	admin

Tags

The new user will receive the following tag

Key	Value
dept	for practice

Cancel Previous **Create user**


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12. The user is finally created. You also have an option of downloading the .csv file that contains the details of the freshly created user. This would be very helpful in situations where multiple users are created or managed and the total number of users is very large.

## Add user

1 2 3 4 5

 **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://776273661650.signin.aws.amazon.com/console>

Download .csv

	User	Email login instructions
▶	user1	<a href="#">Send email</a>

Close

IAM > Users

**Users (1)** [Info](#)  
An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

[Refresh](#) [Delete](#) [Add users](#)

☐


User name	Groups	Last activity	MFA	Password a...	Active
<input type="checkbox"/> user1	Group1	Never	None	✓ Now	-

13. The images below show that a single user to be created can be added into all, specific, or no groups at all. (Look at the checkboxes.)


## Add user

1 2 3 4 5

### Set permissions

 Add user to group

 Copy permissions from existing user

 Attach existing policies directly

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

### Add user to group


[Create group](#) [Refresh](#)


<input type="text" value="Search"/>		Showing 2 results
Group	Attached policies	
<input checked="" type="checkbox"/> Group2	AdministratorAccess and 5 more	
<input checked="" type="checkbox"/> Group1	AdministratorAccess	


Cancel

Previous

Next: Tags

 Add user to group

 Copy permissions from existing user

 Attach existing policies directly

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

### Add user to group

Create group

Refresh

Showing 3 results


Group	Attached policies
<input checked="" type="checkbox"/> Group3	AdministratorAccess and 2 more
<input checked="" type="checkbox"/> Group1	AdministratorAccess
<input type="checkbox"/> Group2	AdministratorAccess and 5 more


▸ Set permissions boundary


Cancel

Previous

Next: Tags

 Add user to group

 Copy permissions from existing user

 Attach existing policies directly

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

### Add user to group

Create group

Refresh

Showing 3 results

Group	Attached policies
<input type="checkbox"/> Group1	AdministratorAccess
<input type="checkbox"/> Group2	AdministratorAccess and 5 more
<input type="checkbox"/> Group3	AdministratorAccess and 2 more

▸ Set permissions boundary

Cancel

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Next: Tags

14. The following are the 7 IAM users that I have created through my AWS account. Now, to delete a user, simply click on the “Delete” option present near the “Add User” option at the top-right corner of the page.



### Identity and Access Management (IAM)

- Dashboard
- Access management
  - User groups
  - Users**
  - Roles
  - Policies
  - Identity providers
  - Account settings
- Access reports
  - Access analyzer
  - Archive rules
  - Analizers
  - Settings

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	Groups	Last activity	MFA	Pa
<input type="checkbox"/>	john	admin	Never	None	No
<input type="checkbox"/>	user1	admin	8 days ago	None	
<input type="checkbox"/>	user2	admin and group3	Never	None	
<input type="checkbox"/>	user3	group2 and group3	Never	None	
<input type="checkbox"/>	user4	group2	Never	None	
<input type="checkbox"/>	user5	None	Never	None	
<input type="checkbox"/>	user6	group4	8 days ago	None	

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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.

<input type="checkbox"/>	User name	Groups	Last activity	MFA	Password a...	Active
<input type="checkbox"/>	user1	Group1	Never	None	18 minutes ago	-
<input type="checkbox"/>	user2	Group1	Never	None	11 minutes ago	-
<input type="checkbox"/>	user3	Group2 and Group1	Never	None	7 minutes ago	-
<input type="checkbox"/>	user4	Group3 and Group1	Never	None	3 minutes ago	-
<input type="checkbox"/>	user5	Group3	Never	None	1 minute ago	-
<input type="checkbox"/>	user6	None	Never	None	Now	-

15. The number of users and groups that are visible on the IAM resources page gets updated every time a new user or a group is added or an existing user or group is deleted.

IAM resources

User groups	Users	Roles	Policies	Identity providers
3	6	2	0	0