

# **In Class Activity 1**


## **AWS Account and IAM**

<b>First name</b>	<b>Last Name</b>	<b>Student number</b>
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# Description

## 1. SignUP



**Explore Free Tier products with a new AWS account.**

To learn more, visit [aws.amazon.com/free](https://aws.amazon.com/free).



### Sign up for AWS

Root user email address  
Used for account recovery and some administrative functions

AWS account name  
Choose a name for your account. You can change this name in your account settings after you sign up.

**Verify email address**

OR

**Sign in to an existing AWS account**

Initially you have to sign up to the AWS account as a root user. Enter all your credentials and card details and signup


## 2. Alias Name

Edit alias for AWS account 205618038794

Preferred alias

c0869346

Must be not more than 63 characters. Valid characters are a-z, 0-9, and - (hyphen).

 IAM users in this account will not be able to sign-in through the URL with current alias. They can sign-in using the URL with the new alias or the AWS account ID.

Cancel

Save Changes

Creating the alias name for my account. Creating the name with c\_number. Make sure to save all this info i.e account name and account id.

### 3.Group Creation with Access

Create user group

Create a user group and select policies to attach to the group. We recommend using groups to manage user permissions by job function, AWS service access, or custom permissions. [Learn more](#)

User group name  
Enter a meaningful name to identify this group.

Admin

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

Permissions policies (1/884)

Create policy

Search

Filter by Type

AWS managed... 11 matches

< 1 >

	Policy name	Type	Use...	Description
<input type="checkbox"/>	<a href="#">AdministratorAccess</a>	AWS managed ...	None	Provides full access to AWS service
<input type="checkbox"/>	<a href="#">Billing</a>	AWS managed ...	None	Grants permissions for billing and c
<input type="checkbox"/>	<a href="#">DatabaseAdministr...</a>	AWS managed ...	None	Grants full access permissions to AV
<input type="checkbox"/>	<a href="#">DataScientist</a>	AWS managed ...	None	Grants permissions to AWS data an
<input type="checkbox"/>	<a href="#">NetworkAdministr...</a>	AWS managed ...	None	Grants full access permissions to AV
<input checked="" type="checkbox"/>	<a href="#">PowerUserAccess</a>	AWS managed ...	None	Provides full access to AWS service
<input type="checkbox"/>	<a href="#">ReadOnlyAccess</a>	AWS managed ...	None	Provides read-only access to AWS s

Cancel

Create user group

Creating a group named “Admin” and giving the PowerUserAccess and Administrator Access Permissions.

## 4. Creating User

IAM > Users > Create user

Step 1  
Specify user details

Step 2  
Set permissions

Step 3  
Review and create

### Specify user details

#### User details

User name

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.

ⓘ 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**

Creating a user name with firstname-lastname. And adding the user to the group we have created. Group “Admin”. This user will get the permissions we assigned to the group “Admin”.

## 5. Creating Zero Spend Budget Alert

☒ **Zero spend budget**  
Create a budget that notifies you once your spending exceeds \$0.01 which is above the AWS Free Tier limits.

☐ **Monthly cost budget**  
Create a monthly budget that notifies you if you exceed, or are forecasted to exceed, the budget amount.

☐ **Daily Savings Plans coverage budget**  
Create a coverage budget for your Savings Plans that notifies you when you fall below the defined target.

☐ **Daily reservation utilization budget**  
Create a utilization budget for your reservations that notifies you when you fall below the defined target.

### Zero spend budget - Template

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**Budget name**  
Provide a descriptive name for this budget.

**My Zero-Spend Budget**


Names must be between 1-100 characters.

**Email recipients**  
Specify the email recipients you want to notify when the threshold has exceeded.

c0869346@mylambton.ca

Maximum number of email recipients is 10.

**Scope**  
All AWS services are in scope in this budget.

 You will be notified via email when any spend above \$0.01 is incurred.

We need to login as a Root user and then do this. We need to enter our email ID to get the alerts.

## 6. Creating a Monthly Spend Budget Alert

☐ **Zero spend budget**  
Create a budget that notifies you once your spending exceeds \$0.01 which is above the AWS Free Tier limits.

☒ **Monthly cost budget**  
Create a monthly budget that notifies you if you exceed, or are forecasted to exceed, the budget amount.

☐ **Daily Savings Plans coverage budget**  
Create a coverage budget for your Savings Plans that notifies you when you fall below the defined target.

☐ **Daily reservation utilization budget**  
Create a utilization budget for your reservations that notifies you when you fall below the defined target.

### Monthly cost budget - Template

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**Budget name**  
Provide a descriptive name for this budget.

**My Monthly Cost Budget**

Names must be between 1-100 characters.

**Enter your budgeted amount (\$)**  
Last month's cost: ↻

10.00

**Email recipients**  
Specify the email recipients you want to notify when the threshold has exceeded.

c0869346@mylambton.ca

Creating a Monthly budget alert for our Account. We need to login as a Root User and then create a budget. Enter the amount of 10 dollars and then enter your mail id for the alerts to be sent.

## 7. Creating MFA

Device name

Enter a meaningful name to identify this device.

One\_Plus\_Nord\_2T\_5G

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

### MFA device

Select an MFA device to use, in addition to your username and password, whenever you need to authenticate.



#### Authenticator app

Authenticate using a code generated by an app installed on your mobile device or computer.



#### Security Key

Authenticate using a code generated by touching a YubiKey or other supported FIDO security key.



#### Hardware TOTP token

Authenticate using a code displayed on a hardware Time-based one-time password (TOTP) token.

Creating a Multi Factor Authentication for our Root User and the IAM user we created. The IAM user with the firstname-lastname. We need to enter the MFA code every time we sign in.