EXPLORE DIGITAL SKILLS

Set Up Your Everyday IAM User Account

Train Overview

In this train, you will learn how to create an IAM user account with full administrator privileges for daily use. This will help to protect your root user account from any unauthorised access.



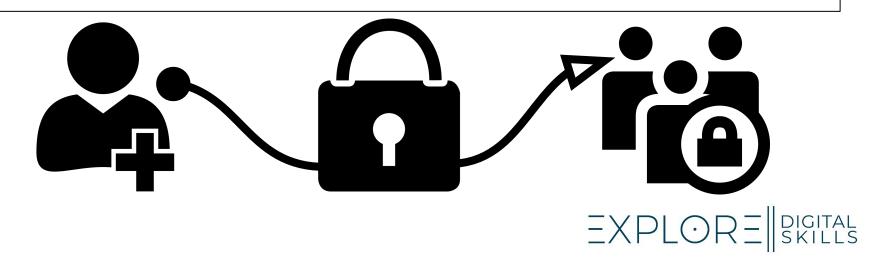


Root User vs IAM User Access

In AWS there are root users and IAM users. A root user is for the person that created the AWS account (the account owner), and the root user creates the IAM user. The root user can create an IAM administrator to manage IAM users.

The **Root User** account will allow full access to all resources in the account. If the root user account belongs to a company that uses AWS Organizations then access can be limited with a <u>service control policy (SCP)</u>.

An **IAM User** account can be used to securely control access to AWS services and resources for all users in your AWS account. Each user can have unique credentials created for them which define who has access to which resources.

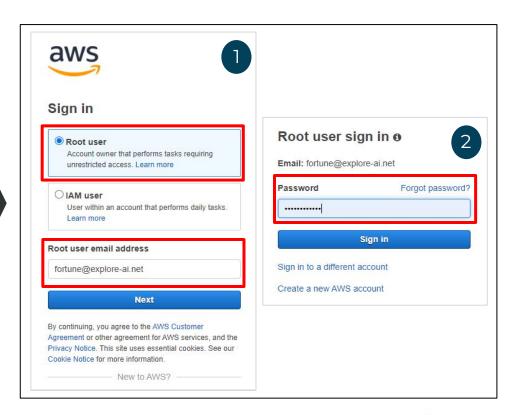


Creating IAM user account

Creating an IAM user with administrator permissions to use for everyday AWS tasks is a great way to keep your account secure. To do this you need to sign in to your AWS account using Root user authentication.

- Start off by selecting the Root radio button followed by inputting your registered AWS Root user email address and click the next button.
- On the next screen type in your Password then click Sign in

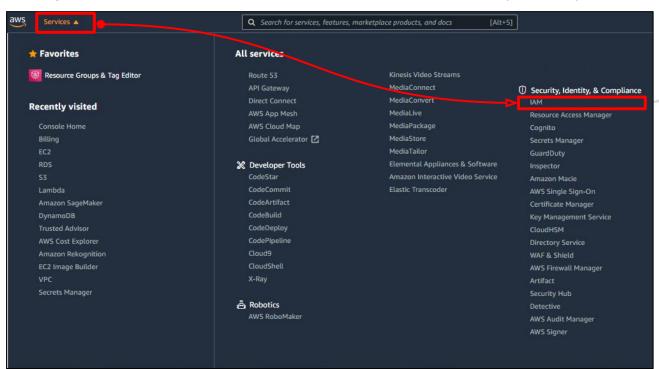
There are specific tasks such as changing AWS account settings, restoring IAM user permissions, activating IAM access to the Billing and Cost Management console and even closing the AWS account.

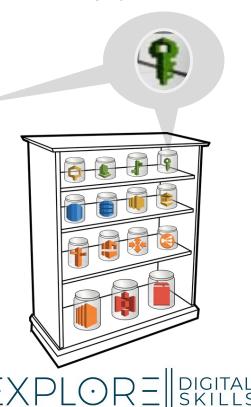




Creating an IAM User Account

To access the AWS IAM service you can use the drop-down menu on the top left corner of your AWS Management console. The IAM service is located in the Security, Identity, and Compliance category.

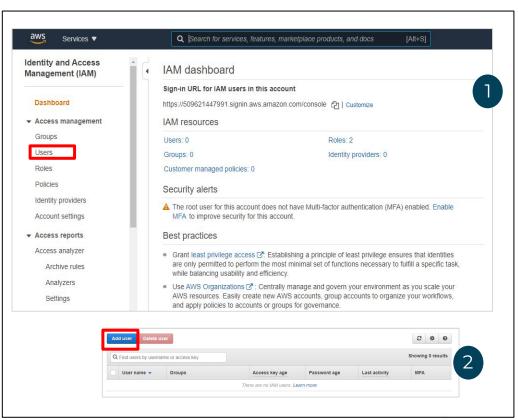




AWS IAM Dashboard

The IAM Dashboard is a simple interface that you can use to manage resources and features of the IAM service. This page will be populated with information about the Sign-in URL form. The IAM Users, Groups, Roles and other Identity and Access Management resource information are tracked and managed on this screen. On the left of the screen, you will be able to navigate to any of the resources available in the IAM dashboard this is known as the navigation pane.

- Now to create a new IAM user click Users to be switched to the user view of the dashboard.
- Click on the Add User button to be redirected to the add user page.





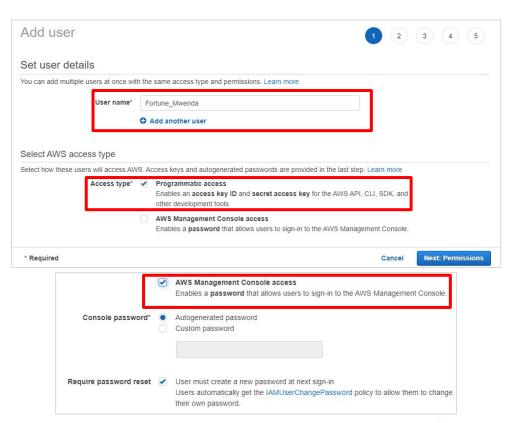
Configuring IAM User Account Details

To configure your IAM user permissions you start by creating a User name, it is also possible to create multiple users that will share the same permissions.

Then choose the Access type you want your new account to have. In this train, we will select both **Programmatic access** and AWS **Management Console access**

Programmatic access uses an access key and secret access key combination for access through development tools such as the AWS CLI, API and SDK. AWS Management Console access enables User name and password access that can be used to access your AWS services on a web browser. You can choose to set a custom password or let AWS auto-generate a password for you.

Click on "Next: Permissions" to continue.





Configuring IAM User Permissions

When you set permissions for your IAM user you will have 3 options to choose from. For this train we will add our user to a group, this will allow you to create new groups to manage user permissions based on the policies that are attached to those groups.



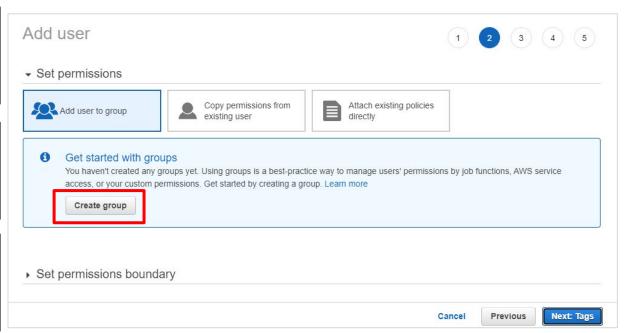
Add user to a group will allow you to add your user(s) to a new group or existing groups



If you have already created an IAM user you can Copy permissions from existing users



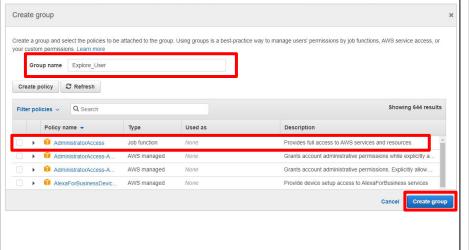
You can even attach existing policies directly to the IAM user account



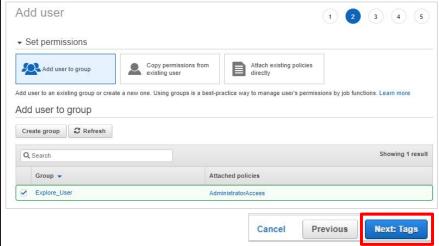


Create an IAM Group and Associate Policies

Creating a group is a simple as providing a **Group name** and choosing which policies you want to attach to the group. For your IAM account select the **AdministratorAccess** policy for full access to AWS services.



Once you have created a group with administrator access permissions select the group and add a user to the group. At this point, you are basically done with the main requirements for setting up an IAM user. Click on the **Next: Tags** button to continue.





Adding IAM Tags

Adding tags is optional but it can be a useful way to keep track of the IAM user account that you create. Tagging is supported by many AWS services as a tool for identifying and organizing your AWS resources.

You can use tagging to describe the user permissions and user type. Tags are key-value pairs custom attribute labels.

A tag has two parts:

- Key Case sensitive title (e.g admin_user, dev_user) the choice is yours.
- Value An optional field, however omitting this field is the same as using an empty string. The value is also case-sensitive.

Add user		1 2 3 4 5
Add tags (optional)	
[18] [18] [18] [18] [18] [18] [18] [18]	you can add to your user. Tags can include user information, such as an em organize, track, or control access for this user. Learn more	ail address, or can be descriptive, such as a job
Key	Value (optional)	Remove
Super_User	This key is for IAM Administrator Access	×





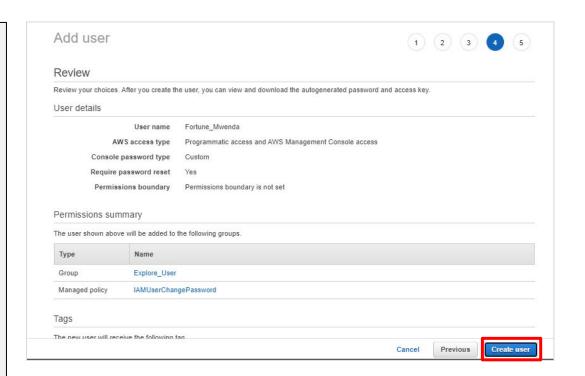
Review Account Settings

Finally, it is time to review the configurations you have set for your new IAM account. You can navigate back from this page to make any changes if you need to.

Ensure that your account has:

- Both programmatic and AWS
 Management Console access types
- There are no permission boundaries set.
- And your account is associated with a group that has full administrator access permission.

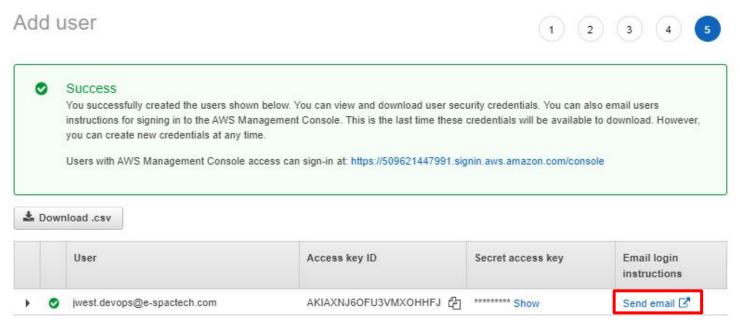
If your IAM account meets these conditions you can click the **Create user** button to complete the creation of your IAM account.





Your IAM User Account Credentials

Congratulations! You know have an IAM user account to use in AWS. This account should be used to access AWS in place of your root user account whenever possible as this will help to improve your security in the cloud. The is an option to send login details to your email use this link to get **login instructions sent to your email**.





Conclusion

- In this train we've learned how to:
 - Access the AWS Identity Access Management(IAM) service.
 - Navigate the AWS IAM Dashboard to create a new IAM user.
 - Configure IAM user account details
 - Configure IAM user permissions
 - Create an IAM group and associate policies
 - Get your IAM user account credentials and login instructions

 Once you're comfortable with your new AWS IAM account you can use it to create a new IAM user account with minimum privileges for the resources you need.





Appendix

While signed in with your AWS account You can simulate an IAM user policy using the <u>IAM Policy Simulator</u>. To try it out you just select an **IAM User** and the **IAM Policies** you want to check and the actions you want the policy simulator to check. You can also simulate **IAM Group** and **Roles** policies.

