AWS Security

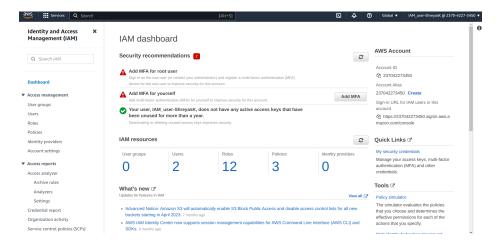
Day 1 - Assignment

10th July 2023

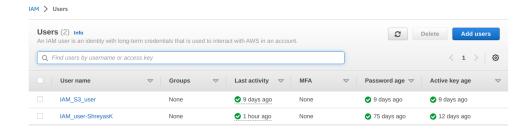
Assignment 1

Creating an IAM with MFA enabled.

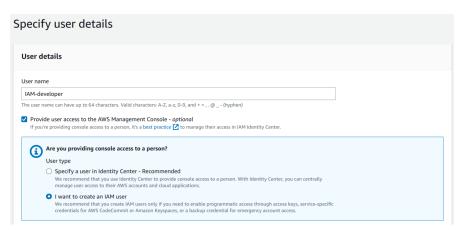
Step 1 - Login to AWS management console as an admin user. Browse to the IAM console.

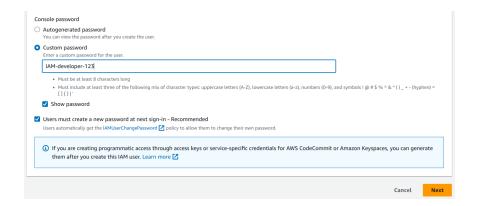


Step 2 - Click on "Users" on the left navigation pane. Then click on "Add Users" to create a new IAM user.

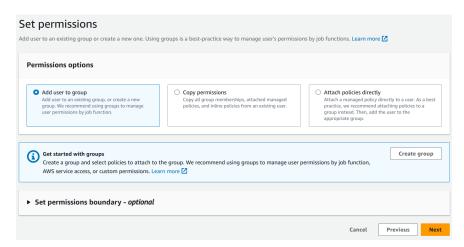


Step 3 - Enter the username for the IAM user. Select a password for the user.

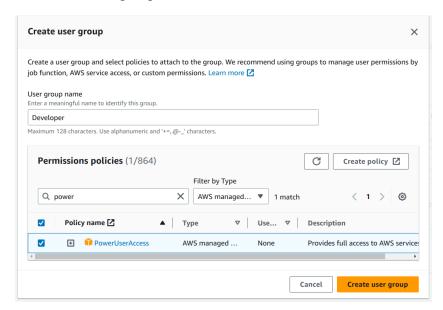




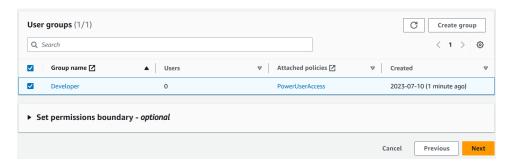
Step 4 - click next. Select "Add user to a group" then click on "Create group".



Step 5 - Enter the name for the group "Developer" then select a policy to attach to the group. Here the "PowerUserAccess" policy allows access to all AWS services but not to manage and create users and groups.

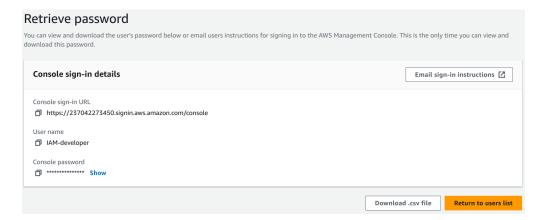


Step 6 - Select the created group and click "Next".

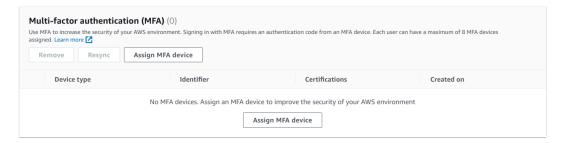


Step 7 - Review and create the user.

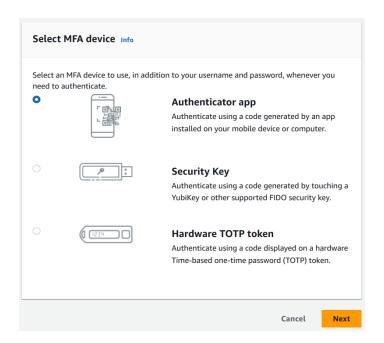
The user is created successfully, download the .csv file to retrieve the username and password.



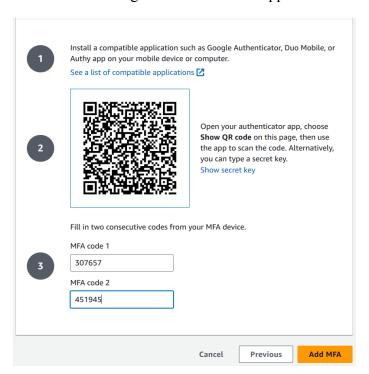
Step 8 - Open the details of the IAM user created above and click on "Assign MFA device"



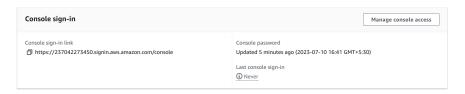




Authenticate through an Authenticator app.



Step 9 - Login to the IAM user with the link displayed in the console.



Step 10 - Open the "console sign-in link" and enter the details to login.

Account ID (12 digits) or account alias 237042273450 IAM user name IAM-developer Password Remember this account

Sign in using root user email

Forgot password?

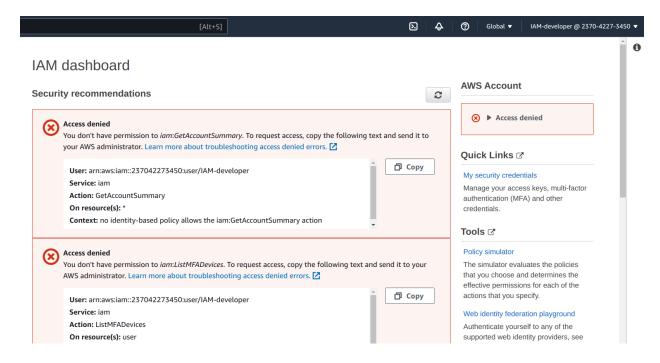
Step 11 - Enter the MFA code from the authenticator app.



Step 12 - Change the password. The new password should be strong enough and kept secure.



Step 13 - It is seen that the IAM user "IAM-developer" cannot access or view anything in the IAM console.



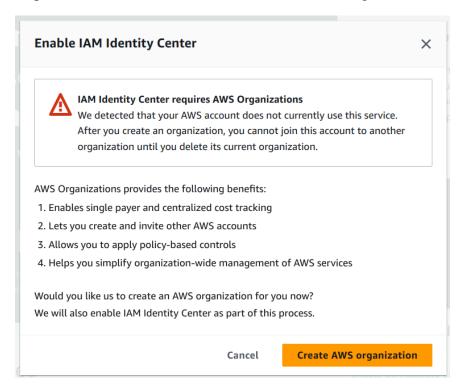
Assignment 2

Creating groups in the Identity Center.

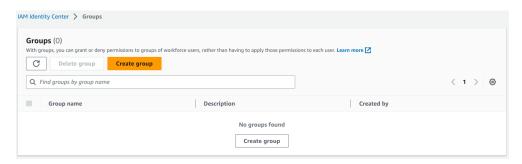
Step 1 - Login to the AWS console and browse to the Identity Center console.

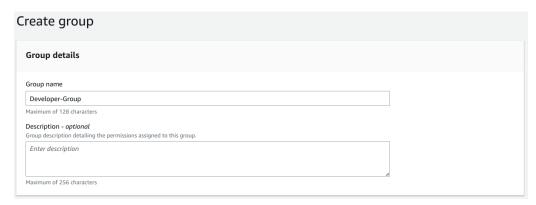


Step 2 - Click on Enable. It will ask to enable AWS organization as Identity Center requires it.

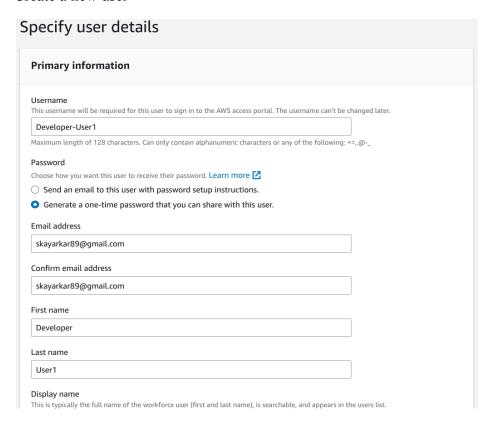


Step 3 - Create a new group in the Identity Center.

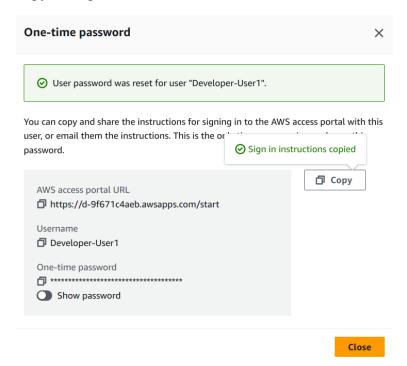




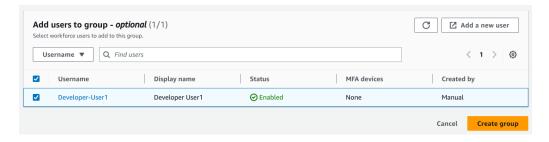
Create a new user



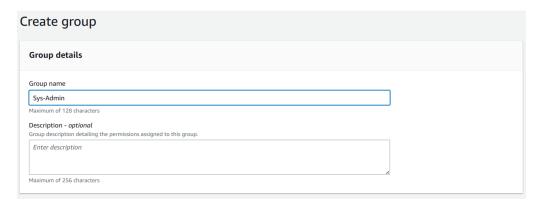
Copy the sign-in instructions



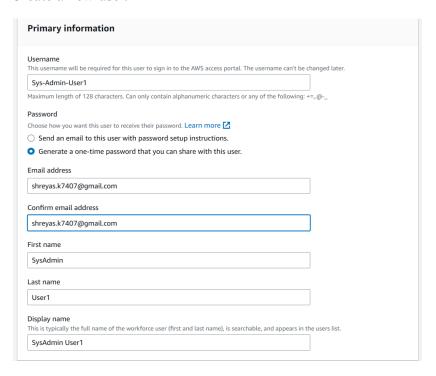
Step 4 - Add the user to the "Developer-Group" group.



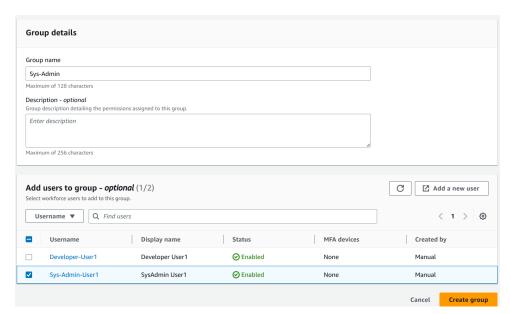
Step 5 - Create a new group "Sys-Admin".



Create a new user.



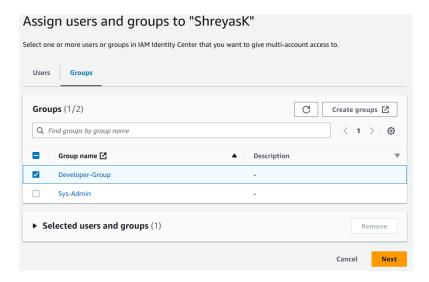
Step 6 - Add the user to the group "Sys-Admin"



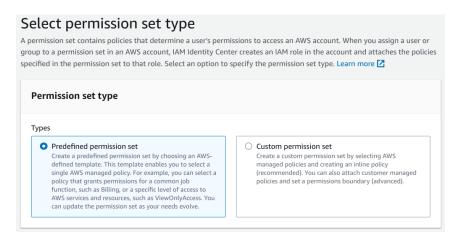
Step 7 - Assign groups to an AWS account in AWS organization. Here the "Developer-Group" and "Sys-Admin" groups are assigned to the management account of the AWS organization. The users inside these groups can perform only allowed permissions which are defined in their permission sets.



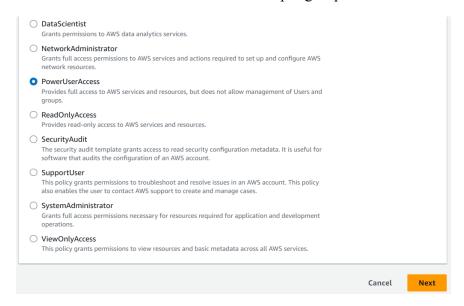
Click on "Assign users or groups", then select the group you want to assign to the selected account.



Step 8 - Create a permission set which defines the permission allowed to users to perform in the account.

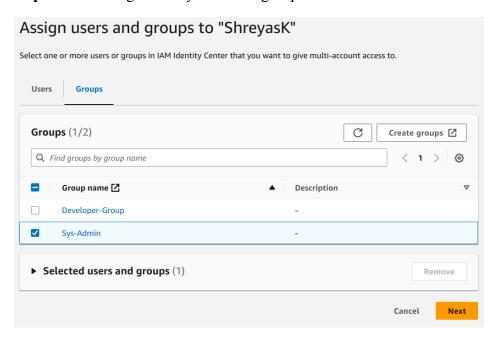


Select "PowerUserAccess" for the developer group.

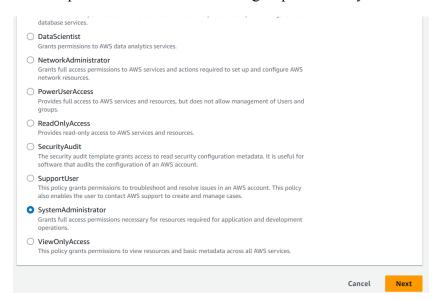


Select the permission set and click on submit to successfully assign the developer group to the account.

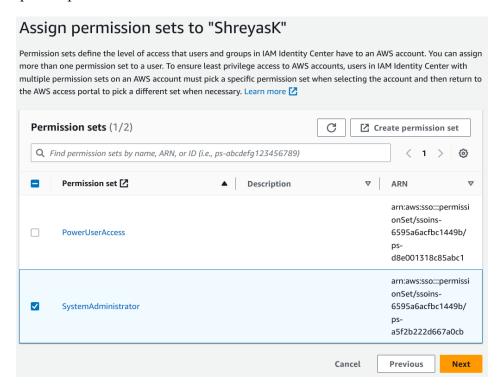
Step 9 - Now assign the "Sys-Admin" group to the account.

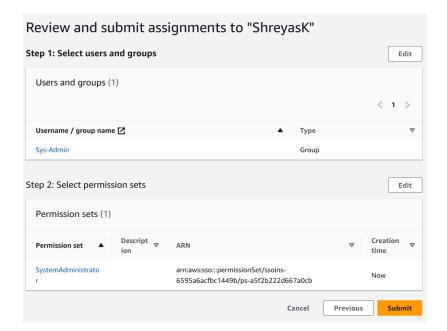


Create a permission set for the above group. Select "SystemAdministrator" and click next.



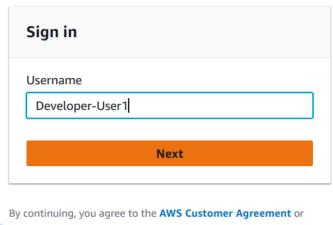
Select the permission set created. Click on next, review and submit to assign the group with the specific permission set to the account.





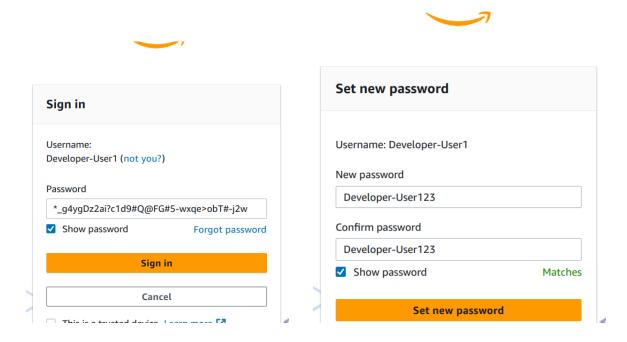
Step 10 - Sign-in to the new user created. Open the Access log-in link and enter the username.



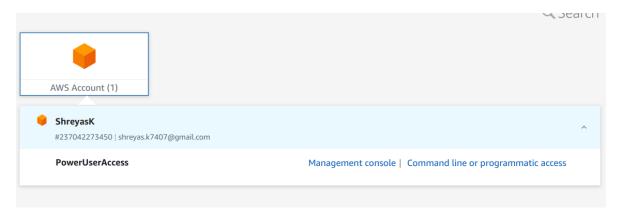


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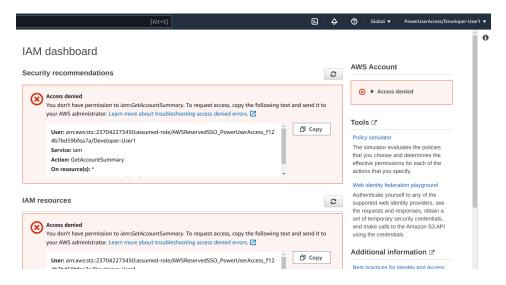
Enter the auto generated one time password for the user and create a new password.



Click on "management console" for the Role "PowerUserAccess". To open the AWS management console and perform only the allowed actions.



It is visible that the "PowerUserAccess" can not perform actions related to IAM.



Step 11 - Login to the "Sys-Admin" user and create a new password. Open the AWS management console.

