SVKM'S NMIM'S Nilkamal School of Mathematics, Applied Statistics & Analytics Master of Science (Data Science)

Practical-8 Single-sign on(SSO)

Date:-02/04/2024 Submission Date:- 06/04/2024

Writeup:-

SSO

Single Sign-On (SSO):

Definition:

Single Sign-On (SSO) is an authentication process that allows users to access multiple applications or systems with a single set of credentials (such as username and password).

Authentication Flow:

When a user attempts to access an application or system that supports SSO, they are redirected to a centralized authentication server.

The user enters their credentials (e.g., username and password) on the authentication server's login page.

The authentication server verifies the user's identity and generates a security token.

This token is then passed back to the application or system that the user initially tried to access.

Token-based Authentication:

Instead of re-entering credentials for each application, the security token serves as proof of authentication.

The token is used to grant access to the user without requiring them to provide their credentials again.

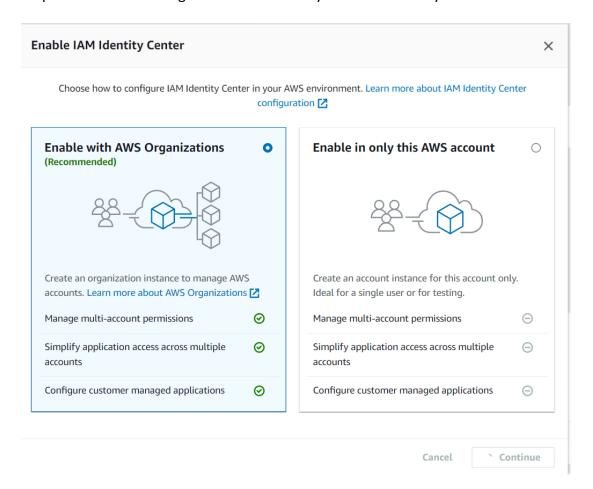
Key Components:

Identity Provider (IdP): The central authentication server that verifies user identities and issues security tokens. It is responsible for managing user authentication and access control.

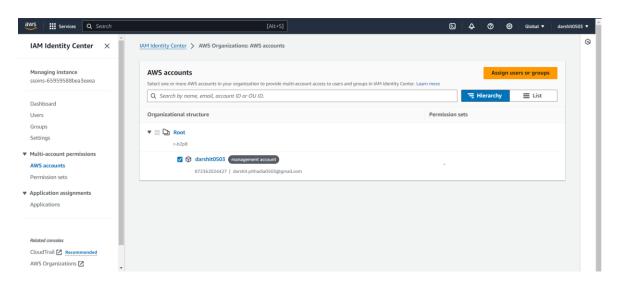
Service Provider (SP): The application or system that the user wants to access. It relies on the IdP for user authentication.

Implement of Single-Sign-On (SSO) in AWS.

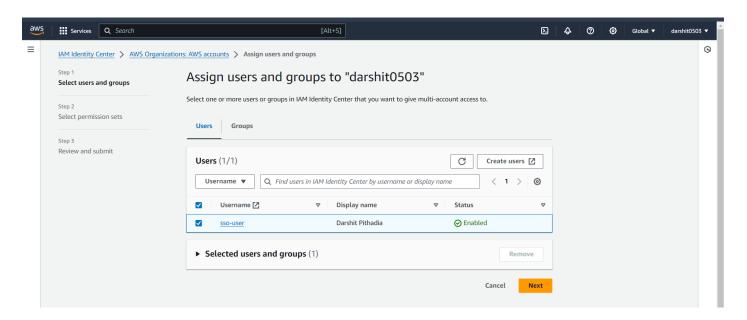
Step 1- Go to IAM Management Console and you can enable any one from the below



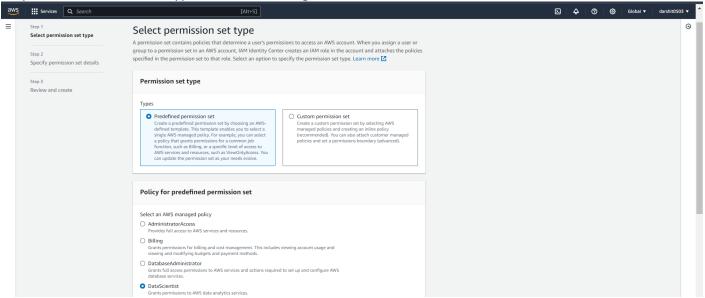
Step 2- Under the IAM Identity Center Go to Multi Account Permissions and select AWS Accounts. Under AWS Account select any one of the Management Account



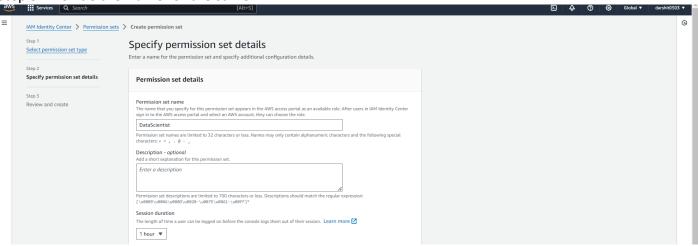
Step 3- Under the AWS Account select the Users and Groups you want to assign SSO



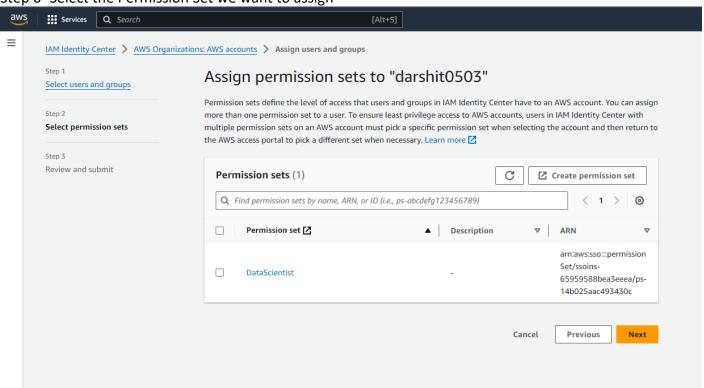
Step 4- Select Permission type we want to assign



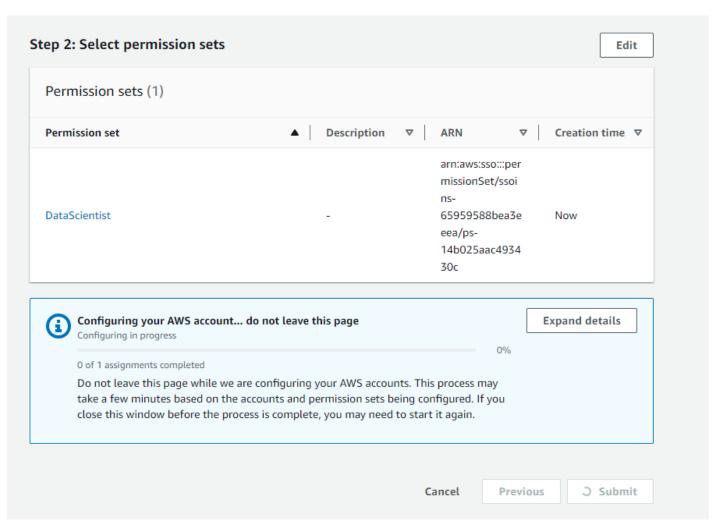
Step 5- Provide the Name for the same



Step 6- Select the Permission Set we want to assign



Step 7- It will start Cofirguring based on the Permissions



Step 8 - SSO Assigned

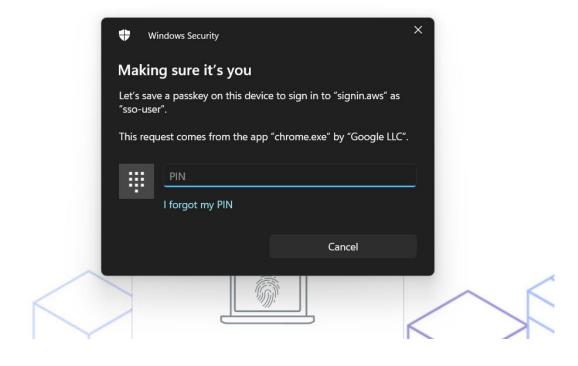


Step 9 - SSO with One time Password provided



	Sign in		
	Username: sso-user (not you?)		
	Password		
	XWBs1Z/jo		
	Show password	Forgot password	
	Sign in Cancel ☐ This is a trusted device. Learn more ☐		

Step 10- Assign MFA from the provided options provided





Built-in authenticator registered



 Your built-in authenticator has been successfully registered. You can now use it when prompted for additional verification at sign in.

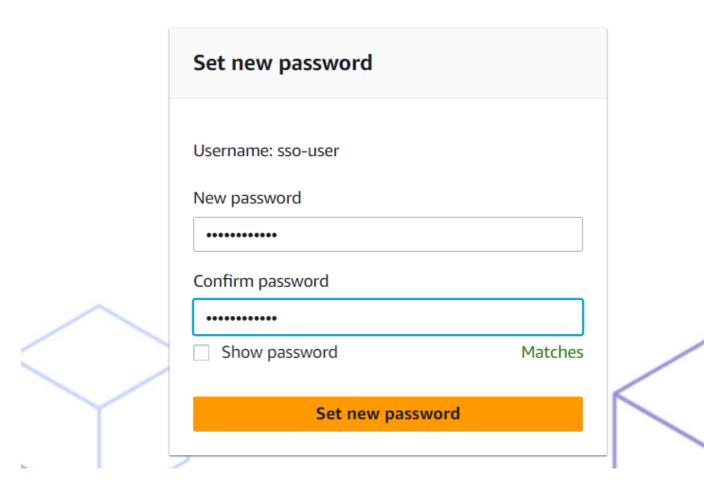
sso-user's MFA 1 Rename

Type and description: Security key or built-in authenticator - Windows Hello Hardware Authenticator

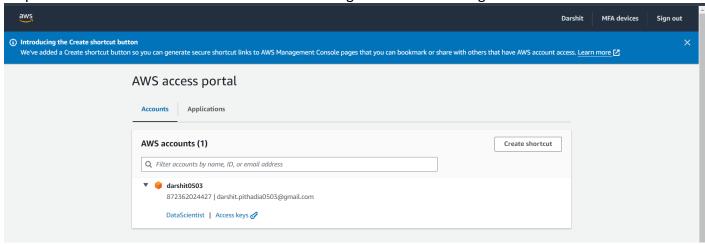


Step 12- Assign New Password for the following User

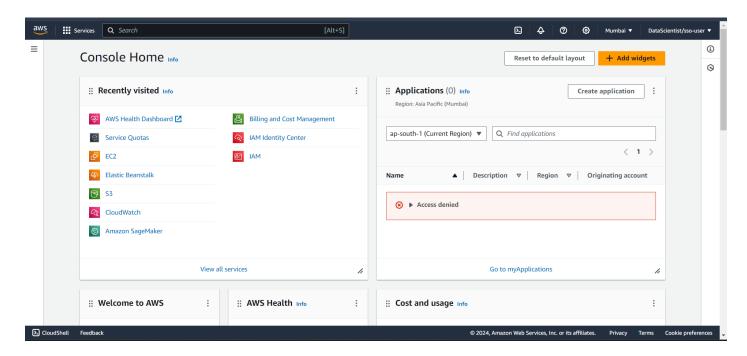




Step 13- We can see the name of the Permission assigned to the following User



Step 14- Console Home Page for the User



Step 15- Removing the Access for the User

