Creating Groups Using AWS CLI

Step 1: Create an AWS IAM Group

aws iam create-group --group-name DB-Admins --profile Administrator

aws iam create-group --group-name Prod-Admins --profile Administrator

aws iam create-group --group-name Gen-Admins --profile Administrator

aws iam list-groups --profile Administrator

Step 2: Attach Policy to the group

There are no policies attached to a group when you first create the group

aws iam list-attached-group-policies --group-name DB-Admins --profile Administrator

aws iam attach-group-policy --policy-arn arn:aws:iam::aws:policy/IAMUserChangePassword --group-name DB-Admins --profile Administrator

aws iam attach-group-policy --policy-arn arn:aws:iam::aws:policy/IAMUserChangePassword --group-name Prod-Admins --profile Administrator

aws iam attach-group-policy --policy-arn arn:aws:iam::aws:policy/job-function/DatabaseAdministrator --group-name DB-Admins --profile Administrator

aws iam attach-group-policy --policy-arn arn:aws:iam::aws:policy/AmazonEC2FullAccess --group-name Prod-Admins – profile Administrator

aws iam attach-group-policy --policy-arn arn:aws:iam::aws:policy/AdministratorAccess --group-name Gen-Admins -- profile Administrator

Confirm the changes by listing all the policies attached to the IAM group:

aws iam list-attached-group-policies --group-name DB-Admins --profile Administrator

aws iam list-attached-group-policies --group-name Prod-Admins --profile Administrator

Step 3: Create an AWS IAM User

aws iam create-user --user-name nixon --profile Administrator

aws iam create-user --user-name sayo --profile Administrator

Set password if user needs to login to AWS Console.

You can generate complex user passwords with Strong Random Password Generator.

aws iam create-login-profile --user-name nixon --password A2#@2012.awcli --password-reset-required --profile Administrator

aws iam create-login-profile --user-name sayo --password A2#@2020.2012.awcli --password-reset-required --profile Administrator

Step 4: Add User to IAM Group

aws iam add-user-to-group --user-name nixon--group-name Prod-Admins --profile Administrator

aws iam add-user-to-group --user-name Sayo --group-name DB-Admins --profile Administrator

Removing user from IAM Group

aws iam remove-user-from-group --user-name nixon --group-name Prod-Admins --profile Administrator

Step 5: Add additional IAM policy to user

If you want a user to have specific access to resources, you can attach a policy directly to the user.

[i]The policy can be pre-defined or the one you're creating.

aws iam attach-user-policy --policy-arn <policy-arn> --user-name [user-name] --profile Administrator

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[i] Commands were taken from aws documentation [aws iam]