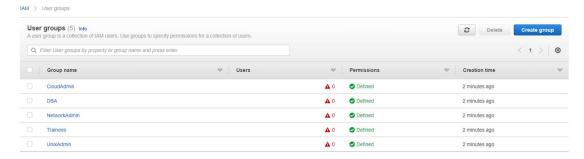# AWS – IAM

1. Create user group and attach the polices to the group name. This is automated with bash scripts and Input has been provided through csv file.
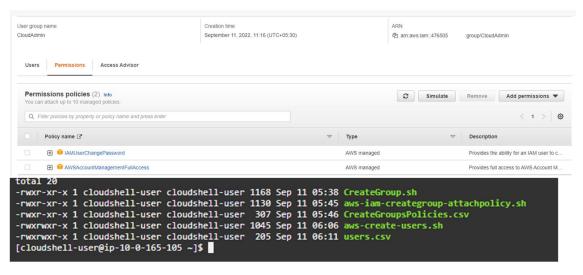
```
Package dos2unix-6.0.3-7.amzn2.0.3.x86_64 already installed and latest version
Nothing to do
dos2unix: converting file CreateGroupsPolicies.csv to Unix format ...
Creating User-Group - CloudAdmin
{
    "Group": {
        "Path": "/",
        "GroupName": "CloudAdmin",
        "GroupId": "AGPAW54PSV2WF4EYG56TR",
        "Arn": "arn:aws:iam::476505616044:group/CloudAdmin",
        "CreateDate": "2022-09-11T05:46:29+00:00"
    }
}
echo Attaching policies...!
UserGroup- CloudAdmin -Created & Policies- arn:aws:iam::aws:policy/AWSAccountManagementFullAccess & arn:aws:iam::aws:policy/IAMUserChangePassword - attach
Creating User-Group - DBA
{
    "Group": {
        "Path": "/",
        "GroupName": "DBA",
        "GroupId": "AGPAW54PSV2WE4YWSIHNY",
        "Arn": "arn:aws:iam::476505616044:group/DBA",
        "CreateDate": "2022-09-11T05:46:31+00:00"
    }
}
echo Attaching policies...!
UserGroup- DBA -Created & Policies- arn:aws:iam::aws:policy/AmazonRDSFullAccess & arn:aws:iam::aws:policy/IAMUserChangePassword - attached.
Creating User-Group - UnixAdmin
{
    "Group": {
        "Path": "/",
        "GroupName": "UnixAdmin",
        "GroupId": "AGPAW54PSV2WJDUSUZLDY",
        "Arn": "arn:aws:iam::476505616044:group/UnixAdmin",
        "CreateDate": "2022-09-11T05:46:34+00:00"
    }
}
echo Attaching policies...!
UserGroup- UnixAdmin -Created & Policies- arn:aws:iam::aws:policy/AmazonEC2FullAccess & arn:aws:iam::aws:policy/IAMUserChangePassword - attached.
Creating User-Group - NetworkAdmin
{
    "Group": {
        "Path": "/",
        "GroupName": "NetworkAdmin",
        "GroupId": "AGPAW54PSV2WAJHAE4TDV",
        "Arn": "arn:aws:iam::476505616044:group/NetworkAdmin",
        "CreateDate": "2022-09-11T05:46:36+00:00"
    }
}
echo Attaching policies...!
UserGroup- NetworkAdmin -Created & Policies- arn:aws:iam::aws:policy/AmazonVPCFullAccess & arn:aws:iam::aws:policy/IAMUserChangePassword - attached.
Creating User-Group - Trainees
```

```
        "CreateDate": "2022-09-11T05:46:36+00:00"
        }
    }
echo Attaching policies...!
UserGroup- NetworkAdmin -Created & Policies- arn:aws:iam::aws:policy/AmazonVPCFullAccess & arn:aws:iam::aws:policy/IAMUserChangePassword - attached.
Creating User-Group - Trainees
{
    "Group": {
        "Path": "/",
        "GroupName": "Trainees",
        "GroupId": "AGPAW54PSV2WP7FSCJ2PD",
        "Arn": "arn:aws:iam::476505616044:group/Trainees",
        "CreateDate": "2022-09-11T05:46:39+00:00"
    }
}
echo Attaching policies...!
UserGroup- Trainees -Created & Policies- arn:aws:iam::aws:policy/job-function/ViewOnlyAccess & arn:aws:iam::aws:policy/IAMUserChangePassword - attached.
[cloudshell-user@ip-10-0-165-105 ~]$
```
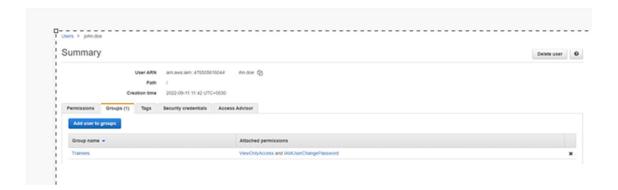
2. User groups with Policies has been created.

IAM > User groups

User groups (5) Info
A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

Group name	Users	Permissions	Creation time
CloudAdmin	⚠ 0	✓ Defined	2 minutes ago
DBA	⚠ 0	✓ Defined	2 minutes ago
NetworkAdmin	⚠ 0	✓ Defined	2 minutes ago
Trainees	⚠ 0	✓ Defined	2 minutes ago
UnixAdmin	⚠ 0	✓ Defined	2 minutes ago

User group name	Creation time	ARN
CloudAdmin	September 11, 2022, 11:16 (UTC+05:30)	arn:aws:iam::476505 :group/CloudAdmin

Users   **Permissions**   Access Advisor

Permissions policies (2) Info

You can attach up to 10 managed policies.

⟳   Simulate   Remove   Add permissions ▼

🔍 Filter policies by property or policy name and press enter

‹ 1 › ⚙

	Policy name ⌷	Type	Description
☐	⊞ 🔶 IAMUserChangePassword	AWS managed	Provides the ability for an IAM user to c…
☐	⊞ 🔶 AWSAccountManagementFullAccess	AWS managed	Provides full access to AWS Account M…

```
total 20
-rwxr-xr-x 1 cloudshell-user cloudshell-user 1168 Sep 11 05:38 CreateGroup.sh
-rwxr-xr-x 1 cloudshell-user cloudshell-user 1130 Sep 11 05:45 aws-iam-creategroup-attachpolicy.sh
-rwxr-xr-x 1 cloudshell-user cloudshell-user  307 Sep 11 05:46 CreateGroupsPolicies.csv
-rwxrwxr-x 1 cloudshell-user cloudshell-user 1045 Sep 11 06:06 aws-create-users.sh
-rwxrwxr-x 1 cloudshell-user cloudshell-user  205 Sep 11 06:11 users.csv
[cloudshell-user@ip-10-0-165-105 ~]$
```

3. Creating users and assign a group name, user-id and password using automated scripts and csv file.

```
dos2unix: converting file users.csv to Unix format ...
Creating User - thulasi.ram
{
    "User": {
        "Path": "/",
        "UserName": "thulasi.ram",
        "UserId": "AIDAW54PSV2WHIX7KQ5ZL",
        "Arn": "arn:aws:iam::476505616044:user/thulasi.ram",
        "CreateDate": "2022-09-11T06:12:33+00:00"
    }
}
Attaching password reset condition...!
{
    "LoginProfile": {
        "UserName": "thulasi.ram",
        "CreateDate": "2022-09-11T06:12:33+00:00",
        "PasswordResetRequired": true
    }
}
Attaching User- thulasi.ram -to Group- DBA
User- thulasi.ram  Created and Attached to Group- DBA
Creating User - lara.ram
{
    "User": {
        "Path": "/",
        "UserName": "lara.ram",
        "UserId": "AIDAW54PSV2WHDL4UKFYG",
        "Arn": "arn:aws:iam::476505616044:user/lara.ram",
        "CreateDate": "2022-09-11T06:12:35+00:00"
    }
}
Attaching password reset condition...!
{
    "LoginProfile": {
        "UserName": "lara.ram",
        "CreateDate": "2022-09-11T06:12:35+00:00",
        "PasswordResetRequired": true
    }
}
Attaching User- lara.ram -to Group- NetworkAdmin
User- lara.ram  Created and Attached to Group- NetworkAdmin
Creating User - jesh.vik
{
    "User": {
        "Path": "/",
        "UserName": "jesh.vik",
        "UserId": "AIDAW54PSV2WPWFZUSO3F",
        "Arn": "arn:aws:iam::476505616044:user/jesh.vik",
        "CreateDate": "2022-09-11T06:12:38+00:00"
    }
}
```
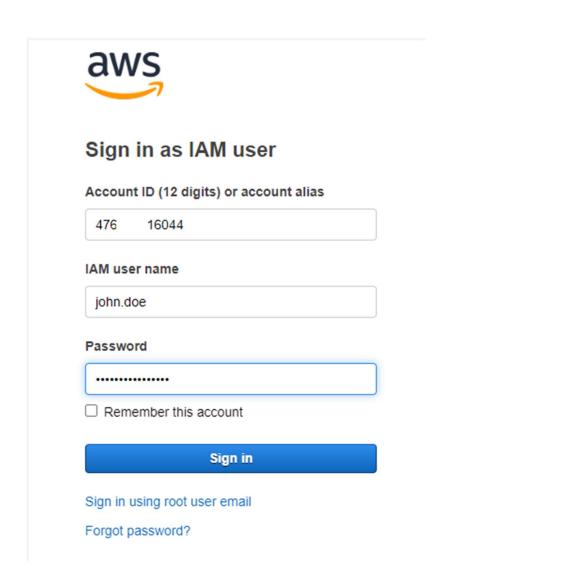
```
Attaching password reset condition...!
{
    "LoginProfile": {
        "UserName": "jesh.vik",
        "CreateDate": "2022-09-11T06:12:38+00:00",
        "PasswordResetRequired": true
    }
}
Attaching User- jesh.vik -to Group- CloudAdmin
User- jesh.vik  Created and Attached to Group- CloudAdmin
Creating User - vtr.ram
{
    "User": {
        "Path": "/",
        "UserName": "vtr.ram",
        "UserId": "AIDAW54PSV2WEOKWPMGKG",
        "Arn": "arn:aws:iam::476505616044:user/vtr.ram",
        "CreateDate": "2022-09-11T06:12:40+00:00"
    }
}
Attaching password reset condition...!
{
    "LoginProfile": {
        "UserName": "vtr.ram",
        "CreateDate": "2022-09-11T06:12:40+00:00",
        "PasswordResetRequired": true
    }
}
Attaching User- vtr.ram -to Group- UnixAdmin
User- vtr.ram  Created and Attached to Group- UnixAdmin
Creating User - john.doe
{
    "User": {
        "Path": "/",
        "UserName": "john.doe",
        "UserId": "AIDAW54PSV2WHH4GLBEJ5",
        "Arn": "arn:aws:iam::476505616044:user/john.doe",
        "CreateDate": "2022-09-11T06:12:42+00:00"
    }
}
Attaching password reset condition...!
{
    "LoginProfile": {
        "UserName": "john.doe",
        "CreateDate": "2022-09-11T06:12:43+00:00",
        "PasswordResetRequired": true
    }
}
Attaching User- john.doe -to Group- Trainees
User- john.doe  Created and Attached to Group- Trainees
[cloudshell-user@ip-10-0-165-105 ~]$
```

Users created.

User name	Groups	Last activity	MFA	Password age	Active key age
jesh.vik	CloudAdmin	19 minutes ago	None	18 minutes ago	12 minutes ago
john.doe	Trainees	1 hour ago	None	1 hour ago	-
lara.ram	NetworkAdmin	Never	None	1 hour ago	-
thulasi.admin	None	Never	None	Now	Now
thulasi.ram	DBA	Never	None	1 hour ago	-
vtr.ram	UnixAdmin	Never	None	1 hour ago	-

4. Changing password on the first login (enforced this policy to all the users acquired from user group)
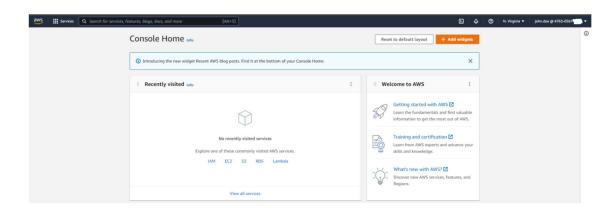
AWS account 4765 16044

IAM user name john.doe

Old password

New password

Retype new password

Confirm password change

---

aws ::: Services Q Search for services, features, blogs, docs, and more [Alt+S] N. Virginia ▾ john.doe @ 4765-0561

Console Home Info

Reset to default layout + Add widgets

ⓘ Introducing the new widget Recent AWS blog posts. Find it at the bottom of your Console Home. ✕

Recently visited Info

No recently visited services

Explore one of these commonly visited AWS services.

IAM EC2 S3 RDS Lambda

View all services

Welcome to AWS

Getting started with AWS ☑
Learn the fundamentals and find valuable information to get the most out of AWS.

Training and certification ☑
Learn from AWS experts and advance your skills and knowledge.

What's new with AWS? ☑
Discover new AWS services, features, and Regions.

	User name	Groups	Last activity	MFA	Password age
☐	jesh.vik	CloudAdmin	Never	None	✅ 13 minutes ago
☐	john.doe	Trainees	✅ 4 minutes ago	None	✅ 3 minutes ago

---

aws ::: Services Q Search for services, features, blogs, docs, and more [Alt+S] Global ▾ jesh.vik @ 4765-056

Identity and Access Management (IAM) ✕

ⓘ Introducing the new Users list experience
We've redesigned the Users list experience to make it easier to use. Let us know what you think.

Unable to load search
Dashboard

IAM > Users

▼ Access management
User groups
Users
Roles

❌ You need permissions
You do not have the permission required to perform this operation. Ask your administrator to add permissions. Learn more ☑
User: arn:aws:iam::476505616044:user/jesh.vik is not authorized to perform: iam:ListUsers on resource: arn:aws:iam::476505616044:user/ because no identity-based policy allows the iam:ListUsers action

5. Create user-managed policy – EnforceMFAPolicy and assign to each group to enable MFA.

Policy name	Type	Used as	Description
⊞ EnforceMFAPolicy	Customer managed	None	

CloudAdmin

Delete

Summary

Edit

User group name	Creation time	ARN
CloudAdmin	September 11, 2022, 11:16 (UTC+05:30)	⊘ arn:aws:iam::476505616044:group/CloudAdmin

Users   **Permissions**   **Access Advisor**

Permissions policies (3) Info
You can attach up to 10 managed policies.

↻   Simulate   Remove   Add permissions ▼

🔍 Filter policies by property or policy name and press enter

‹ 1 › ⚙

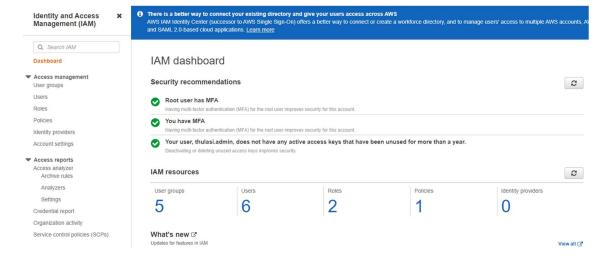| ☐	Policy name ⌕ ▽	Type ▽	Description
☐	⊕ EnforceMFAPolicy	Customer managed	
☐	⊕ 📦 IAMUserChangePassword	AWS managed	Provides the ability for an IAM user to change their own password.
☐	⊕ 📦 AWSAccountManagementFullAccess	AWS managed	Provides full access to AWS Account Management.

6. DBA-MFA (DBA user logging into AWS console using MFA)

7. Admin user Dashboard

8. User list

Users (6) Info
An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

	User name	Groups	Last activity	MFA	Password age	Active key age
☐	jesh.vik	CloudAdmin	✅ 3 hours ago	None	✅ 3 hours ago	✅ 3 hours ago
☐	john.doe	Trainees	✅ 4 hours ago	None	✅ 4 hours ago	-
☐	lara.ram	NetworkAdmin	Never	None	✅ 4 hours ago	-
☐	thulasi.admin	None	✅ Now	Virtual	✅ 2 hours ago	✅ 2 hours ago
☐	thulasi.ram	DBA	✅ 3 minutes ago	Virtual	✅ 8 minutes ago	-
☐	vtr.ram	UnixAdmin	Never	None	✅ 4 hours ago	-