Creating IAM Users:

Login as a root or user with Administrator policy

Go to IAM Service

Create the user and review the options

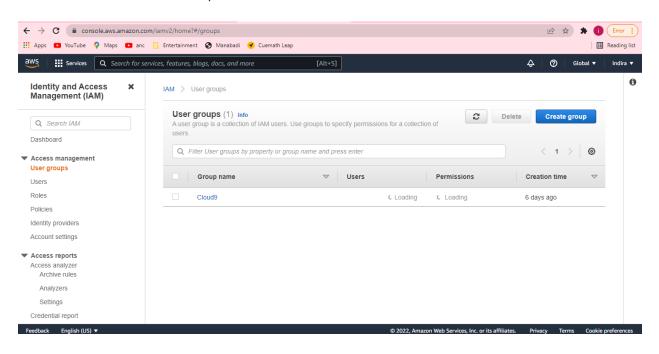


Figure 1Created group

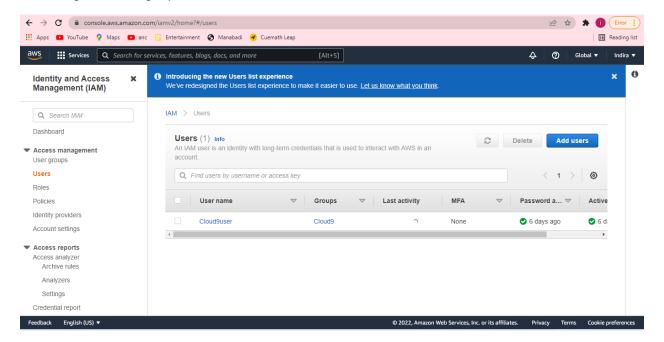


Figure 2Created user

Validate Programmatic Access to IAM User:

- You need to make sure that AWS CLI is set up on your system.
- Launch the terminal or shell and run the aws configure command to configure with new keys.
- You can create a sample bucket and validate to confirm that your credentials are configured to the user in the right account.
- Here are the steps I have followed.
 - · Configure credentials using profile by Cloud9user
- aws configure --profile Cloud9user
 - Create an s3 bucket with some unique name.
 - Run the following command to list the newly created bucket.
- aws s3 ls --profile Cloud9user

IAM Identity-based Policies:

Let us review the following policies to understand how permissions on services are typically defined.

<u>AmazonS3FullAccess</u> <u>AmazonS3ReadOnlyAccess</u> Let us perform a few tasks related to Identity-based Policies.

Create a new user **itvsupport1** with only programmatic access. Configure AWS CLI with profile **itvsupport1**.

Attach AmazonS3ReadOnlyAccess to itvsupport1.

Make sure a bucket is created using AWS Web Console by logging in as admin or root user. I will be creating a bucket by the name **indu-retail**. If you already have such a bucket, you can directly copy files into S3.

Try running this command to copy files into the bucket.

aws s3 ls indu-retail --recursive --profile Cloud9user

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Managing IAM Roles:

- Launch EC2 instance using this role. We will be using the Amazon Linux image as it will come with AWS CLI already setup.
- We don't need to configure AWS CLI as the permissions are assigned via role to this EC2 instance.
- If you provision, EC2 instance with other operating systems than Amazon Linux, then you need to install AWS CLI first.
- Login to the EC2 instance and run these commands.
- aws s3 ls dg-retail1 --recursive