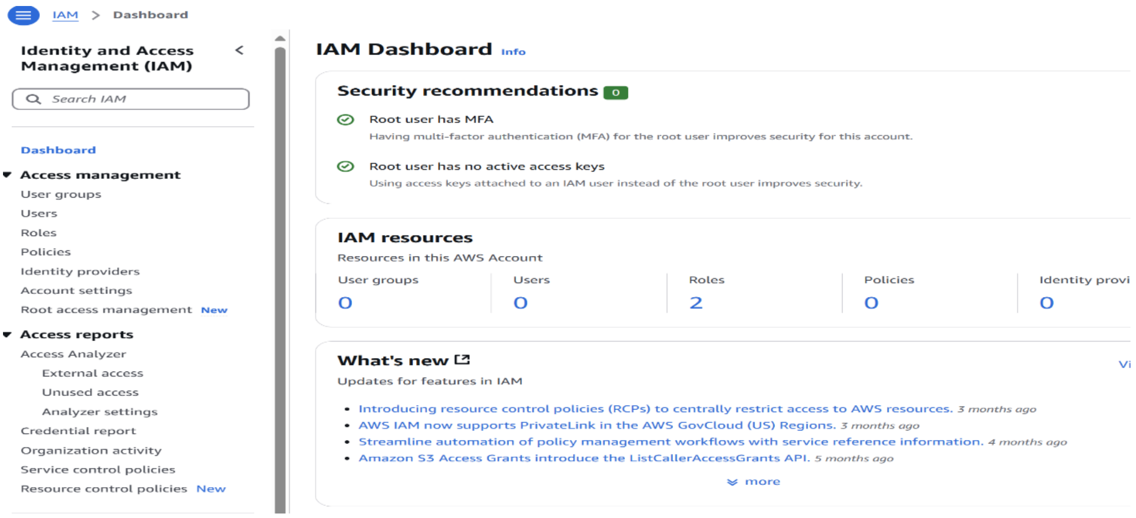
ASSIGNMENT-03

Instruction steps for creating an IAM User and Granting Full S3 Access

A. Creating an IAM USER

1.Sign in: Log in to AWS Management Console and open IAM Console.

2.Navigate to Users: In the left-hand navigation pane,select Users, Click Add User.



IAM Dashboard Info

Security recommendations 0

Root user has MFA
Having multi-factor authentication (MFA) for the root user improves security for this account.

Root user has no active access keys
Using access keys attached to an IAM user instead of the root user improves security.

IAM resources
Resources in this AWS Account

User groups	Users	Roles	Policies	Identity provi
0	0	2	0	0

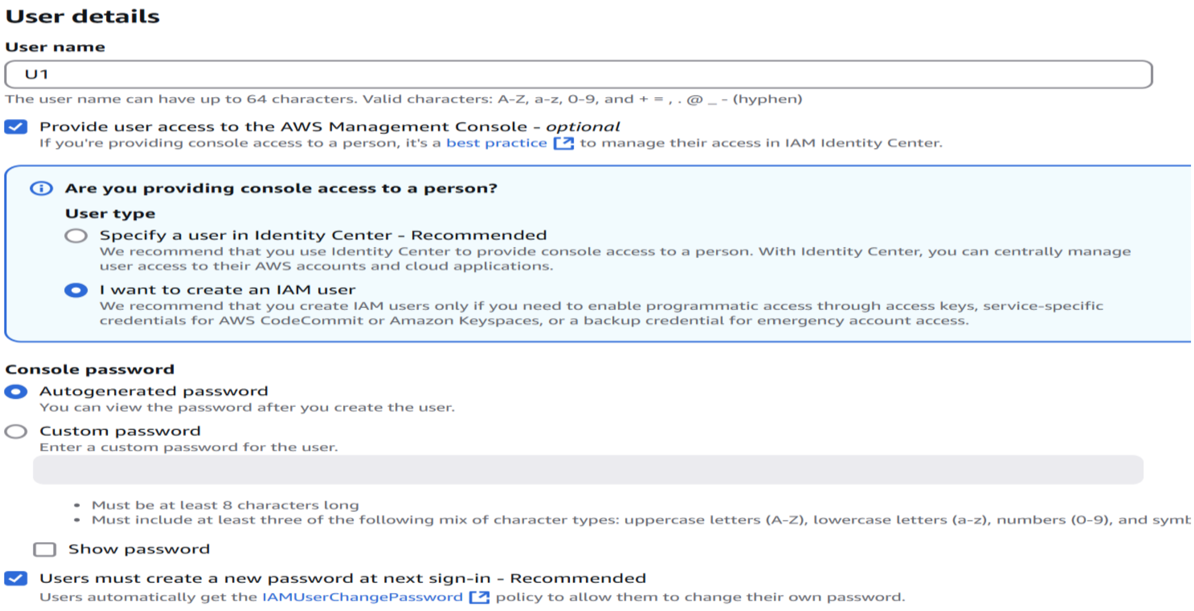
What's new
Updates for features in IAM

- Introducing resource control policies (RCPs) to centrally restrict access to AWS resources. *3 months ago*
- AWS IAM now supports PrivateLink in the AWS GovCloud (US) Regions. *3 months ago*
- Streamline automation of policy management workflows with service reference information. *4 months ago*
- Amazon S3 Access Grants introduce the ListCallerAccessGrants API. *5 months ago*

more

3.Add User Details: Enter the user name (e.g. U3). Select Access type as AWS Management Console Access.

4.Set Password: Choose one: Auto Generated Password (AWS generates a random password). Custom Password (you define the password).For this exercise, enter a custom password. Uncheck Require Password Reset. Click Next.



User details

User name

U1

The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = , . @ _ - (hyphen)

☑ Provide user access to the AWS Management Console - *optional*
If you're providing console access to a person, it's a best practice to manage their access in IAM Identity Center.

Are you providing console access to a person?

User type

○ Specify a user in Identity Center - Recommended
We recommend that you use Identity Center to provide console access to a person. With Identity Center, you can centrally manage user access to their AWS accounts and cloud applications.

● I want to create an IAM user
We recommend that you create IAM users only if you need to enable programmatic access through access keys, service-specific credentials for AWS CodeCommit or Amazon Keyspaces, or a backup credential for emergency account access.

Console password

● Autogenerated password
You can view the password after you create the user.

○ Custom password
Enter a custom password for the user.

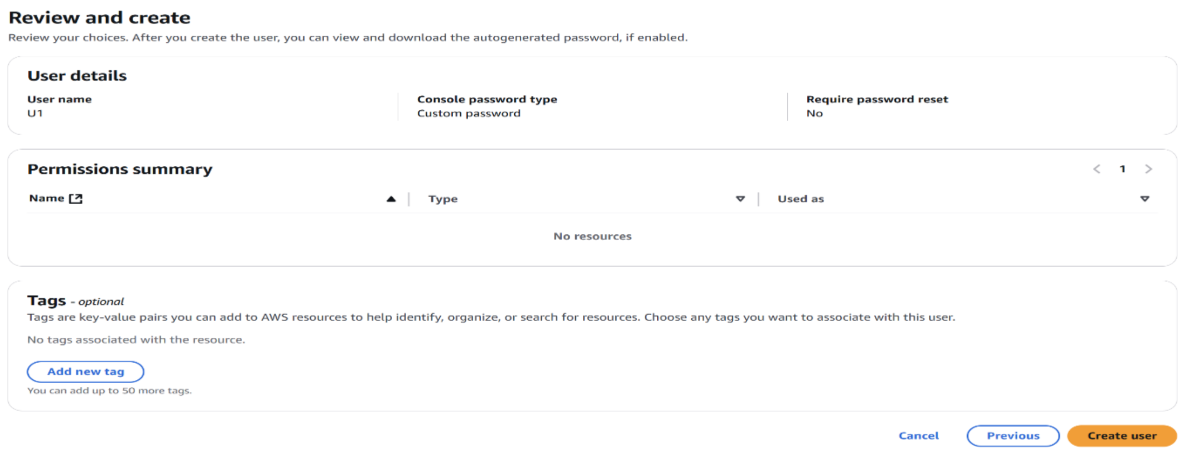
- Must be at least 8 characters long
- Must include at least three of the following mix of character types: uppercase letters (A-Z), lowercase letters (a-z), numbers (0-9), and symt

□ Show password

☑ Users must create a new password at next sign-in - Recommended
Users automatically get the IAMUserChangePassword policy to allow them to change their own password.

5. Assign permissions : You can assign permissions in three ways.For now skip this step and assign permissions later.

6. Review : On the Review page,confirm the entered details.Click Create User.



Review and create

Review your choices. After you create the user, you can view and download the autogenerated password, if enabled.

User details

User name	Console password type	Require password reset
U1	Custom password	No

Permissions summary

Name	Type	Used as
No resources		

Tags - *optional*

Tags are key-value pairs you can add to AWS resources to help identify, organize, or search for resources. Choose any tags you want to associate with this user.

No tags associated with the resource.

You can add up to 50 more tags.

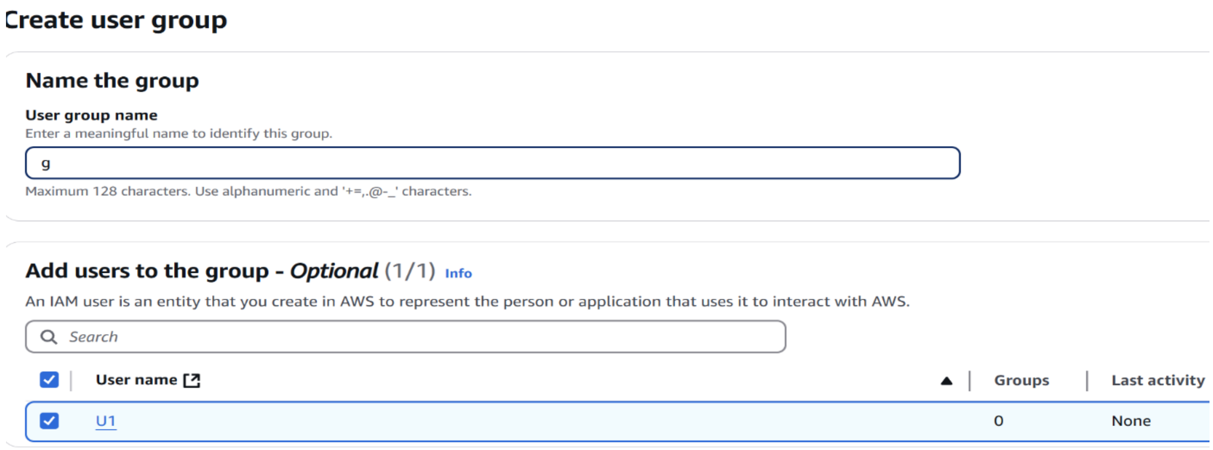
7. Download credentials: Download .csv file containing credentials(username and password).Save it securely.

B. Creating a Group and Assigning Permissions

1. Navigate to Groups: In the iam console,navigate to User Groups. Click Create Group.

2. Define Group details: Enter a group name(e.g. g2). In the permission policies,search for S3. Select the policies for full access to S3(e.g.amazon S3 Full Access).

3. Add user to group: After creating group,go to Users. Select the newly created User(e.g. u4). Under the Groups Tab,click ADD User to Group. Choose the group and add the user.



Create user group

Name the group

User group name

Enter a meaningful name to identify this group.

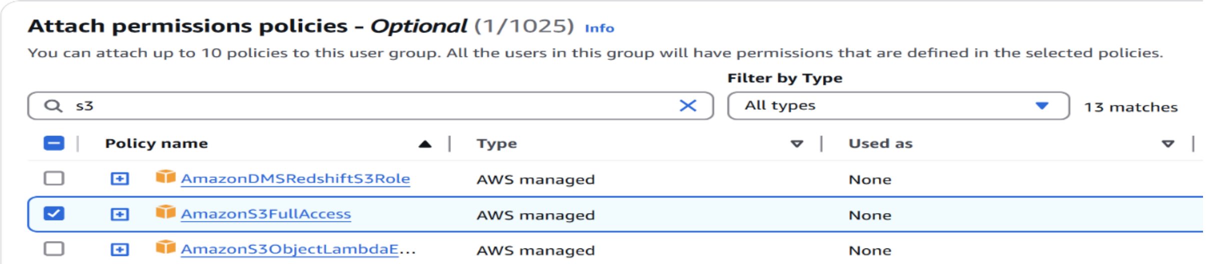
g

Maximum 128 characters. Use alphanumeric and '+=,.@-_' characters.

Add users to the group - *Optional* (1/1) Info

An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.

☑	User name	Groups	Last activity
☑	U1	0	None



Attach permissions policies - *Optional* (1/1025) Info

You can attach up to 10 policies to this user group. All the users in this group will have permissions that are defined in the selected policies.

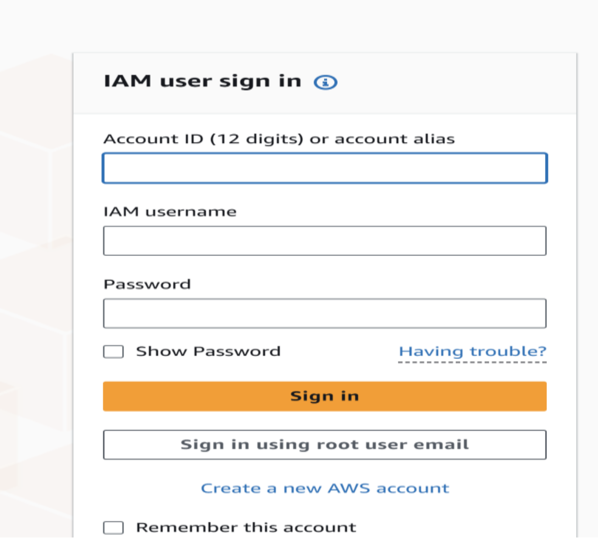
s3 — Filter by Type: All types — 13 matches

	Policy name	Type	Used as
□	AmazonDMSRedshiftS3Role	AWS managed	None
☑	AmazonS3FullAccess	AWS managed	None
□	AmazonS3ObjectLambdaE...	AWS managed	None

4. Verify: Navigate back to user details .Ensure the user is listed under the group with appropriate permissions.

C. Log in with new IAM User

1. Access AWS Console : Use the credentials saved in .csv file. Login to AWS Console as IAM User.



IAM user sign in

Account ID (12 digits) or account alias

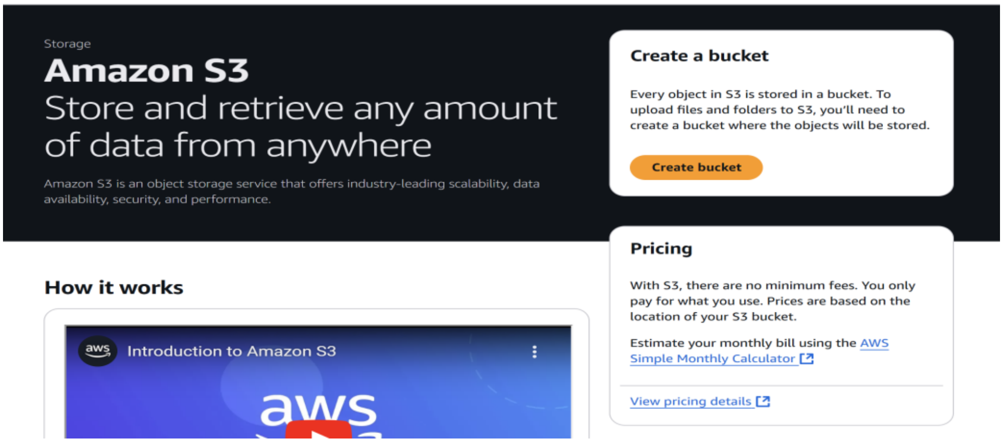
IAM username

Password

□ Show Password — Having trouble?

□ Remember this account

2. Test permissions: Navigate to the S3 console. Verify that IAM user has full access to the console by creating or managing S3 buckets and objects.



Storage

Amazon S3

Store and retrieve any amount of data from anywhere

Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance.

Create a bucket

Every object in S3 is stored in a bucket. To upload files and folders to S3, you'll need to create a bucket where the objects will be stored.

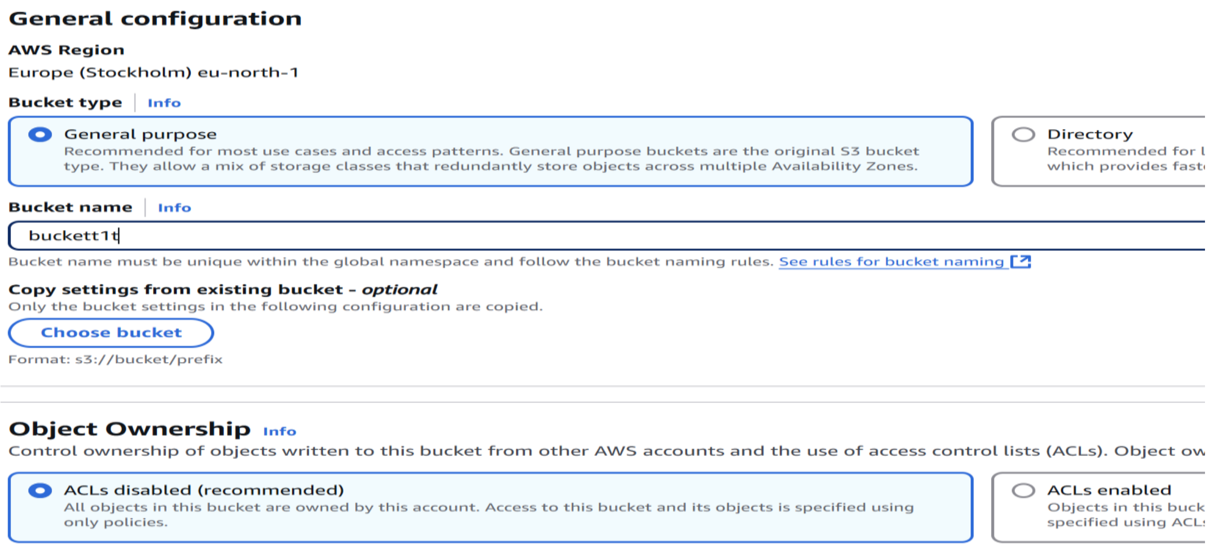
Pricing

With S3, there are no minimum fees. You only pay for what you use. Prices are based on the location of your S3 bucket.

Estimate your monthly bill using the AWS Simple Monthly Calculator

View pricing details

How it works



General configuration

AWS Region

Europe (Stockholm) eu-north-1

Bucket type | Info

● General purpose
Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.

○ Directory
Recommended for l
which provides fast

Bucket name | Info

buckett1t

Bucket name must be unique within the global namespace and follow the bucket naming rules. See rules for bucket naming

Copy settings from existing bucket - *optional*

Only the bucket settings in the following configuration are copied.

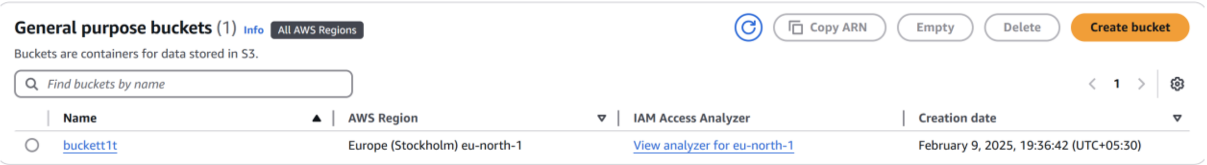
Format: s3://bucket/prefix

Object Ownership Info

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ow

● ACLs disabled (recommended)
All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

○ ACLs enabled
Objects in this buck
specified using ACL



General purpose buckets (1) Info All AWS Regions

Buckets are containers for data stored in S3.

	Name	AWS Region	IAM Access Analyzer	Creation date
○	buckett1t	Europe (Stockholm) eu-north-1	View analyzer for eu-north-1	February 9, 2025, 19:36:42 (UTC+05:30)

Outcome:

An IAM user with secure login is created. User can perform operations in S3 as intended.

DAISY SAHU   AIML/22/011