

S3 (Simple Storage Service)

Q. How to create a Bucket?

- Firstly, go to the AWS s3 tool.
- Then click on the create bucket.
- Buckets are containers for data stored in S3.
- Two types of buckets chose as per your required.
- 1. **General purpose**, 2. Directory.
- Create your bucket name, Bucket name must be **unique** '**mydemo.bucket**' within the global namespace and follow the bucket naming rules.

Amazon S3 > Buckets > Create bucket

Create bucket info

Buckets are containers for data stored in S3.

General configuration

AWS Region
Asia Pacific (Mumbai) ap-south-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 low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.

Bucket name info

mydemo.bucket

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.

[Choose bucket](#)

Format: s3://bucket/prefix

- - **Object Ownership**
 - 1. **ACLs disabled (recommended)**
 - 2. ACLs enabled
- As per your required

Amazon S3 > Buckets > Create bucket

Object Ownership [info](#)
Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

☒ **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 bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

Object Ownership
Bucket owner enforced

Block Public Access settings for this bucket
Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

☒ **Block all public access**
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

- ☒ **Block public access to buckets and objects granted through new access control lists (ACLs)**
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
- ☒ **Block public access to buckets and objects granted through any access control lists (ACLs)**
S3 will ignore all ACLs that grant public access to buckets and objects.
- ☒ **Block public access to buckets and objects granted through new public bucket or access point policies**

- After then **Block Public Access settings for this bucket.**
Block *all* public access use as per your required.

Amazon S3 > Buckets > Create bucket

Block Public Access settings for this bucket
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S3 will ignore all ACLs that grant public access to buckets and objects.
- ☒ **Block public access to buckets and objects granted through new public bucket or access point policies**
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
- ☒ **Block public and cross-account access to buckets and objects through any public bucket or access point policies**
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

Bucket Versioning
Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

Bucket Versioning
☒ **Disable**

- **Bucket Versioning**
- ✓ **Disable**
 - ✓ **Enable**
- **Tags - optional**
You can use bucket tags to track storage costs and organize buckets.
- **Default encryption**
- ✓ **Server-side encryption with Amazon S3 managed keys (SSE-S3)**
 - ✓ **Server-side encryption with AWS Key Management Service keys (SSE-KMS)**
 - ✓ **Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)**

Choose as per your required.

Amazon S3 > Buckets > Create bucket

Bucket Versioning

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Bucket Versioning

☒ Disable

☐ Enable

Tags - optional (0)

You can use bucket tags to track storage costs and organize buckets. [Learn more](#)

No tags associated with this bucket.

[Add tag](#)

Default encryption [Info](#)

Server-side encryption is automatically applied to new objects stored in this bucket.

Encryption type [Info](#)

☒ Server-side encryption with Amazon S3 managed keys (SSE-S3)

☐ Server-side encryption with AWS Key Management Service keys (SSE-KMS)

☐ Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)

➤ Bucket Key

- ☐ Disable
- ☐ Enable

➤ Check all the box after then click on the **Create Bucket**.

Amazon S3 > Buckets

Account snapshot - updated every 24 hours [View Storage Lens dashboard](#)

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

General purpose buckets | Directory buckets

General purpose buckets (1) [Info](#) [All AWS Regions](#)

Buckets are containers for data stored in S3.

[Find buckets by name](#)

[Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

Name	AWS Region	IAM Access Analyzer	Creation date
mydemo.bucket.930	Asia Pacific (Mumbai) ap-south-1	View analyzer for ap-south-1	November 22, 2024, 17:17:50 (UTC+05:30)

Q. How to upload and manage the bucket file?

- If you create the bucket, then click on the bucket '**mydemo.bucket**'.
- When you are entering the bucket click on **Upload**.
- **Files and folders**

1. Add files
 2. Add folder
- Select as your need.

➤ Select your **Objects** and click on **upload**.

mydemo.bucket.930 [Info](#)

[Objects](#) [Properties](#) [Permissions](#) [Metrics](#) [Management](#) [Access Points](#)

Objects (0) [Info](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) [Create folder](#) [Upload](#)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Name	Type	Last modified	Size	Storage class
No objects				
You don't have any objects in this bucket.				

[Upload](#)

➤

Q. How to make it public uploading file?

If you want to make any uploading file public then there are three steps for it:

Step: - 1

mydemo.bucket.930 [Info](#)

[Objects](#) [Properties](#) [Permissions](#) [Metrics](#) [Management](#) [Access Points](#)

Objects (2) [Info](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) [Create folder](#) [Upload](#)

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Name	Type	Last modified	Size	Storage class
<input type="checkbox"/> caste certificate.pdf	pdf	November 26, 2024, 13:55:57 (UTC+05:30)	224.4 KB	Standard
<input checked="" type="checkbox"/> Neeraj Resume.pdf	pdf	November 26, 2024, 13:55:57 (UTC+05:30)	131.1 KB	Standard

- Select the upload file.
- After then go to the **Permissions**.
- Edit the **Block public access (bucket settings)**.

- 'Uncheck' **Block all public access** Save changes.

Amazon S3 > Buckets > mydemo.bucket.930

mydemo.bucket.930 info

Objects Properties **Permissions** Metrics Management Access Points

Permissions overview

Access finding
Access findings are provided by IAM external access analyzers. Learn more about [How IAM analyzer findings work](#)
[View analyzer for ap-south-1](#)

Block public access (bucket settings) Edit

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Block all public access
Off
Individual Block Public Access settings for this bucket

Bucket policy Edit Delete

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)

Amazon S3 > Buckets > mydemo.bucket.930 > Edit Block public access (bucket settings)

Edit Block public access (bucket settings) info

Block public access (bucket settings)

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☐ **Block public access to buckets and objects granted through any access control lists (ACLs)**
S3 will ignore all ACLs that grant public access to buckets and objects.

☐ **Block public access to buckets and objects granted through new public bucket or access point policies**
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.

☐ **Block public and cross-account access to buckets and objects through any public bucket or access point policies**
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

Cancel Save changes



Step: - 2

- Select the upload file.
- After then go to the **Permissions**.
- Then scroll the page and select **Object Ownership**.

Amazon S3 > Buckets > mydemo.bucket.930

Object Ownership [Info](#) [Edit](#)

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

Object Ownership
Bucket owner preferred
 ACLs are enabled and can be used to grant access to this bucket and its objects. If new objects written to this bucket specify the bucket-owner-full-control canned ACL, they are owned by the bucket owner. Otherwise, they are owned by the object writer.

Access control list (ACL) [Learn more](#) [Edit](#)

Grant basic read/write permissions to other AWS accounts. [Learn more](#)

The console displays combined access grants for duplicate grantees
 To see the full list of ACLs, use the Amazon S3 REST API, AWS CLI, or AWS SDKs.

Grantee	Objects	Bucket ACL
Bucket owner (your AWS account) Canonical ID: 4d1d998aada5802adc0cc1ecbd5f4452a9aefcf1fa95f4543ffd3d4c2f84fbf6	List, Write	Read, Write

- Click on edit **Object Ownership**.
- Then click on **ACLs enabled**.

Amazon S3 > Buckets > mydemo.bucket.930 > Edit Object Ownership

Object Ownership
 Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

☐ **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 bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

We recommend disabling ACLs, unless you need to control access for each object individually or to have the object writer own the data they upload. Using a bucket policy instead of ACLs to share data with users outside of your account simplifies permissions management and auditing.

Object Ownership
☒ **Bucket owner preferred**
 If new objects written to this bucket specify the bucket-owner-full-control canned ACL, they are owned by the bucket owner. Otherwise, they are owned by the object writer.
☐ **Object writer**
 The object writer remains the object owner.

If you want to enforce object ownership for new objects only, your bucket policy must specify that the bucket-owner-full-control canned ACL is required for object uploads. [Learn more](#)

[Cancel](#) [Save changes](#)

- Then save changes.

Step: - 3

- Select the upload file.
- Go to the **Actions**.
- Scroll the section and select **make public using ACL**.

Amazon S3 > Buckets > mydemo.bucket.930

mydemo.bucket.930 info

Objects | Properties | Permissions | Metrics | Management | Access Points

Objects (2) Info Copy S3 URI Copy URL Download Open Delete Actions Create folder Upload

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

	Name	Type	Last modified	Size
<input type="checkbox"/>	caste certificate.pdf	pdf	November 26, 2024, 13:55:57 (UTC+05:30)	
<input checked="" type="checkbox"/>	Neeraj Resume.pdf	pdf	November 26, 2024, 13:55:57 (UTC+05:30)	

- Calculate total size
- Copy
- Move
- Initiate restore
- Query with S3 Select
- Edit actions
 - Rename object
 - Edit storage class
 - Edit server-side encryption
 - Edit metadata
 - Edit tags
 - Make public using ACL

Amazon S3 > Buckets > mydemo.bucket.930

mydemo.bucket.930 info

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Object URL Copied

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<input checked="" type="checkbox"/>	Neeraj Resume.pdf	pdf	November 26, 2024, 13:55:57 (UTC+05:30)	131.1 KB	Standard

➤ Click on the **make public**.

Select the file and **Copy URL** go to the any browser paste it.