

# AWS, S3 Replication

13-08-2025

Tejas Kapade.

1. Create 2 S3 buckets in different regions, we will call one as original and second is replica,

**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](#)  
original-tejas18700  
Bucket names must be 3 to 63 characters and unique within the global namespace. Bucket names must also begin and end with a letter or number. Valid characters are a-z, 0-9, periods (.), and hyphens (-). [Learn More](#)

**Copy settings from existing bucket - optional**  
Only the bucket settings in the following configuration are copied.  
[Choose bucket](#)  
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 ownership determines who can specify access to objects.

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## Allow public access,

**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**  
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.

**Turning off block all public access might result in this bucket and the objects within becoming public**  
AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.

☒ I acknowledge that the current settings might result in this bucket and the objects within becoming public.

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## Select versioning enable,

The screenshot shows the AWS console interface for creating a new bucket. The top navigation bar includes the AWS logo, a search bar, and account information (Asia Pacific (Mumbai), Account ID: 8839-1507-2455, Tejas Kapade). The breadcrumb trail indicates the path: Amazon S3 > Buckets > Create bucket. The main content area is titled 'Bucket Versioning' and explains that versioning allows keeping multiple variants of an object. Under the 'Bucket Versioning' section, the 'Enable' radio button is selected. Below this, the 'Tags - optional (0)' section shows no tags are currently associated with the bucket, with an 'Add new tag' button. The 'Default encryption' section is partially visible, showing 'Server-side encryption with Amazon S3 managed keys (SSE-S3)' as the selected option.

## Creating Replica,

This screenshot shows the 'Create bucket' page in the AWS console. The top navigation bar is identical to the previous one, but the region is set to 'Asia Pacific (Singapore)'. The breadcrumb trail is 'Amazon S3 > Buckets > Create bucket'. The main heading is 'Create bucket' with an 'Info' link. Below the heading, it states 'Buckets are containers for data stored in S3.' The 'General configuration' section is expanded, showing the 'AWS Region' as 'Asia Pacific (Singapore) ap-southeast-1'. Under 'Bucket type', the 'General purpose' option is selected. The 'Bucket name' field contains 'replica-tejas18700'. Below the name field, there is a note about bucket naming rules and a 'Learn More' link. The 'Copy settings from existing bucket - optional' section is also visible, with a 'Choose bucket' button. The 'Object Ownership' section is partially visible at the bottom.

Both buckets are in different regions,

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Asia Pacific (Singapore)

Account ID: 8839-1507-2455

Tejas Kapade

Amazon S3 > Buckets

Successfully created bucket "replica-tejas18700"  
To upload files and folders, or to configure additional bucket settings, choose [View details](#).

General purpose buckets | All AWS Regions | Directory buckets

General purpose buckets (2) Info

Copy ARN

Empty

Delete

Create bucket

Buckets are containers for data stored in S3.

Find buckets by name

| Name                                | AWS Region                              | Creation date                         |
|-------------------------------------|---|---------------------------------------|
| <a href="#">original-tejas18700</a> | Asia Pacific (Mumbai) ap-south-1        | August 13, 2025, 11:39:13 (UTC+05:30) |
| <a href="#">replica-tejas18700</a>  | Asia Pacific (Singapore) ap-southeast-1 | August 13, 2025, 11:42:14 (UTC+05:30) |

Account snapshot Info

Updated daily

Storage Lens provides visibility into storage usage and activity trends.

[View dashboard](#)

External access summary - new Info

Updated daily

External access findings help you identify bucket permissions that allow public access or access from other AWS accounts.

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2. Upload files in original bucket,

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Upload succeeded  
For more information, see the [Files and folders](#) table.

Upload: status

After you navigate away from this page, the following information is no longer available.

Summary

Destination  
[s3://original-tejas18700](#)

Succeeded  
1 file, 306.4 KB (100.00%)

Failed  
0 files, 0 B (0%)

Files and folders | Configuration

Files and folders (1 total, 306.4 KB)

Find by name

| Name  | Folder | Type      | Size     | Status    | Error |
|---|--------|-----------|----------|-----------|-------|
| <a href="#">Brown White Simple Internation...</a> | -      | image/png | 306.4 KB | Succeeded | -     |

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Amazon S3

Buckets

original-tejas18700

original-tejas18700

Info

Objects

Properties

Permissions

Metrics

Management

Access Points

Objects (1)

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

Show versions

< 1 >

Name

Type

Version ID

Last modified

Size

Storage class

Brown White Simple International Day Of Friendship Instagram Post.png

png

W\_J32MS92E2Zz4S\_h81tqRSr78AuyUSl

August 13, 2025, 11:45:37 (UTC+05:30)

306.4 KB

Standard

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Amazon S3

Buckets

original-tejas18700

original-tejas18700

Objects

Properties

Permissions

Metrics

Management

Access Points

Lifecycle configuration

To manage your objects so that they are stored cost effectively throughout their lifecycle, configure their lifecycle. A lifecycle configuration is a set of rules that define actions that Amazon S3 applies to a group of objects. Lifecycle rules run once per day.

Lifecycle rules

View details

Edit

Delete

Actions

Create lifecycle rule

Use lifecycle rules to define actions you want Amazon S3 to take during an object's lifetime such as transitioning objects to another storage class, archiving them, or deleting them after a specified period of time. [Learn more](#)

Lifecycle rule name

Status

Scope

Current version actions

Noncurrent versions ac...

Expired object delete ...

Incomplete multipart ...

No lifecycle rules

There are no lifecycle rules for this bucket.

Create lifecycle rule

Replication rules (0)

View details

Edit rule

Delete

Actions

Create replication rule

Use replication rules to define options you want Amazon S3 to apply during replication such as server-side encryption, replica ownership, transitioning replicas to another storage class, and more. [Learn more](#)

Replication rule name

Status

Destination bucket

Destination Region

Priority

Scope

Storage class

Replica owner

Replication Time Control

KMS-encrypted objects (SSE-KMS or DSSE-KMS)

Replica modification sync

No replication rules

You don't have any rules in the replication configuration.

Create replication rule

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Amazon S3

Buckets

original-tejas18700

Create lifecycle rule

Replication rules (0)

View details

Edit rule

Delete

Actions

Create replication rule

Use replication rules to define options you want Amazon S3 to apply during replication such as server-side encryption, replica ownership, transitioning replicas to another storage class, and more. [Learn more](#)

Replication rule name

Status

Destination bucket

Destination Region

Priority

Scope

Storage class

Replica owner

Replication Time Control

KMS-encrypted objects (SSE-KMS or DSSE-KMS)

Replica modification sync

No replication rules

You don't have any rules in the replication configuration.

Create replication rule

Inventory configurations (0)

Edit

Delete

Create job from manifest

Create inventory configuration

You can create inventory configurations on a bucket to generate a flat file list of your objects and metadata. These scheduled reports can include all objects in the bucket or be limited to a shared prefix. [Learn more](#)

Name

Status

Scope

Destination

Frequency

Last export

Format

No configurations

No configurations to display

Create inventory configuration

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3. Replicate files in replica bucket, it will take time as it is asynchronous copying of data,

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[Amazon S3](#) > [Buckets](#) > [original-tejas18700](#) > [Replication rules](#) > Create replication rule

## Create replication rule [Info](#)

### Replication rule configuration

**Replication rule name**

Up to 255 characters. In order to be able to use CloudWatch metrics to monitor the progress of your replication rule, the replication rule name must only contain English characters.

**Status**

Choose whether the rule will be enabled or disabled when created.

☒ Enabled

☐ Disabled

**Priority**

The priority value resolves conflicts that occur when an object is eligible for replication under multiple rules to the same destination. The rule is added to the configuration at the highest priority and the priority can be changed on the replication rules table.

0

### Source bucket

**Source bucket name**

original-tejas18700

**Source Region**

Asia Pacific (Mumbai) ap-south-1

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[Amazon S3](#) > [Buckets](#) > [original-tejas18700](#) > [Replication rules](#) > Create replication rule

### Source bucket

**Source bucket name**

original-tejas18700

**Source Region**

Asia Pacific (Mumbai) ap-south-1

Choose a rule scope

☒ Limit the scope of this rule using one or more filters

☐ Apply to all objects in the bucket

**Filter type**

You can filter objects by prefix, object tags, or a combination of both.

**Prefix**

Add a filter to limit the scope of this rule to a single prefix.

Don't include the bucket name in the prefix. Using certain characters in key names can cause problems with some applications and protocols.

**Tags**

You can limit the scope of this rule to the key value pairs added below.

[Add tag](#)

### Destination

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Amazon S3

Buckets

original-tejas18700

Replication rules

Create replication rule

Destination

Destination

You can replicate objects across buckets in different AWS Regions (Cross-Region Replication) or you can replicate objects across buckets in the same AWS Region (Same-Region Replication). You can also specify a different bucket for each rule in the configuration. [Learn more](#) or see [Amazon S3 pricing](#)

☒ Choose a bucket in this account

☐ Specify a bucket in another account

Bucket name

Choose the bucket that will receive replicated objects.

replica-tejas18700

Browse S3

Destination Region

Asia Pacific (Singapore) ap-southeast-1

IAM role

Permission to access the specified resources

☐ Create new role

☒ Choose from existing IAM roles

☐ Enter IAM role ARN

IAM role

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Buckets

original-tejas18700

Replication rules

Create replication rule

Asia Pacific (Singapore) ap-southeast-1

IAM role

Permission to access the specified resources

☒ Create new role

☐ Choose from existing IAM roles

☐ Enter IAM role ARN

Encryption

Server-side encryption protects data at rest.

☐ Replicate objects encrypted with AWS Key Management Service (AWS KMS)  
Replicate SSE-KMS and DSSE-KMS encrypted objects.

Destination storage class

Amazon S3 offers a range of storage classes designed for different use cases. [Learn more](#) or see [Amazon S3 pricing](#)

☐ Change the storage class for the replicated objects

Additional replication options

☐ Replication Time Control (RTC)

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Buckets

original-tejas18700

Replication rules

✓ Replication configuration successfully updated

If changes to the configuration aren't displayed, choose the refresh button. Changes apply only to new objects. To replicate existing objects with this configuration, choose Create replication job.

Create replication job

Replication rules

Info

Replication enables automatic and asynchronous copying of objects and metadata from a source bucket to a destination bucket. You can define what options should be applied to a group of objects during replication.

Replication configuration settings

Configuration settings affect all replication rules in the bucket.

Source bucket

original-tejas18700

Source Region

Asia Pacific (Mumbai) ap-south-1

Replicate existing objects?

You can enable a one-time Batch Operations job from this replication configuration to replicate objects that already exist in the bucket and to synchronize the source and destination buckets. [Learn more](#) or see [pricing](#)

Existing objects

☐ No, do not replicate existing objects.

☒ Yes, replicate existing objects.

Cancel

Submit

Replication rules (1)

View details

Edit rule

Delete

Actions

Create replication rule

Use replication rules to define options you want Amazon S3 to apply during replication such as server-side encryption, replica ownership, transitioning replicas to another storage class, and more. [Learn more](#)

<

1

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Buckets

original-tejas18700

Replication rules

Create Batch Operations job

Create Batch Operations job

Job settings

A job is used to execute batch operations on a list of S3 objects. The list of objects is contained in a replication manifest object generated by S3.

Job run options

You can choose whether to have the job start automatically after the replication manifest is generated or to have the job wait in the *Awaiting your confirmation to run* status until you run the job.

Automatically run the job when it's ready

When selected, the job automatically runs without waiting for you to start it.

Wait to run the job when it's ready

Recommended if you want to review the manifest or job details before running the job.

Completion report

Generate a CSV completion report that lists your target objects, task success or error codes, outputs, and descriptions. Completion reports are encrypted using SSE-S3. [Learn more](#)

Generate completion report

Completion report scope

Failed tasks only

All tasks

Completion report destination

Specify a general purpose bucket location to store the completion report. [Learn more](#)

s3://original-tejas18700

View

Browse S3

Format: s3://<bucket>/<optional-prefix-with-path>. S3 will append the path with a "/". If you add a "/" to the prefix, it will appear as an extra folder in the S3 console.

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Amazon S3

Buckets

original-tejas18700

Replication rules

Create Batch Operations job

Completion report scope

Failed tasks only

All tasks

Completion report destination

Specify a general purpose bucket location to store the completion report. [Learn more](#)

s3://original-tejas18700

View

Browse S3

Format: s3://<bucket>/<optional-prefix-with-path>. S3 will append the path with a "/". If you add a "/" to the prefix, it will appear as an extra folder in the S3 console.

Permissions

Choose an IAM role with the [required access permissions and trust relationships](#). An IAM role policy template based on your job configuration, and the IAM trust policy required for batch operations to assume the IAM role are available below. [Learn more about IAM roles](#)

View IAM role policy template and IAM trust policy

Permission to access the specified resources

Create new role

Choose from existing IAM roles

Enter IAM role ARN

IAM role

s3crr\_role\_for\_original-tejas18700

View

Cancel

Save

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Amazon S3

Batch Operations

Successfully created job ID 9a24bd6f-c35d-485d-b3f5-bba39e508470

The time it takes to prepare a job is based on the size of the job's manifest and the time required to complete higher-priority jobs.

View details

Batch Operations

A job is used to execute batch operations on a list of S3 objects. Job events are published to [CloudWatch Events](#)

Jobs (1)

Run job

Actions

Clone job

Create job

Search by job ID or description

All status types

| Job ID   | Status | Description            | Operation | Date created                          | Total objects     | % Complete | Total failed (rate) | Priority |
|--|--------|------------------------|-----------|---------------------------------------|-------------------|------------|---------------------|----------|
| <a href="#">9a24bd6f-c35d-485d-b3f5-bba39e508470</a> | New    | 2025-08-13 - Replicate | Replicate | August 13, 2025, 11:52:49 (UTC+05:30) | Not yet available | 0%         | 0 (0%)              | 10       |

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It will now replicate data to replica bucket in some time.

4. We will replicate data from different Account; we will required Account ID of user.

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Asia Pacific (Mumbai)

Account ID: 8839-1507-2455

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Amazon S3

Buckets

original-tejas18700

Replication rules

Create replication rule

1

## Create replication rule

Info

### Replication rule configuration

**Replication rule name**

Up to 255 characters. In order to be able to use CloudWatch metrics to monitor the progress of your replication rule, the replication rule name must only contain English characters.

**Status**

Choose whether the rule will be enabled or disabled when created.

☒ Enabled

☐ Disabled

**Priority**

The priority value resolves conflicts that occur when an object is eligible for replication under multiple rules to the same destination. The rule is added to the configuration at the highest priority and the priority can be changed on the replication rules table.

1

### Source bucket

**Source bucket name**

original-tejas18700

**Source Region**

Asia Pacific (Mumbai) ap-south-1

https://ap-south-1.console.aws.amazon.com/console/home?region=ap-south-1

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Asia Pacific (Mumbai)

Account ID: 8839-1507-2455

Tejas Kapade

Amazon S3

Buckets

original-tejas18700

Replication rules

Create replication rule

1

## Destination

**Destination**

You can replicate objects across buckets in different AWS Regions (Cross-Region Replication) or you can replicate objects across buckets in the same AWS Region (Same-Region Replication). You can also specify a different bucket for each rule in the configuration. [Learn more](#) or see [Amazon S3 pricing](#)

☐ Choose a bucket in this account

☒ Specify a bucket in another account

**Account ID**

**Bucket name**

Choose the bucket that will receive replicated objects.

**Destination Region**

Asia Pacific (Singapore) ap-southeast-1

⚠ When you add a destination bucket to a replication configuration, S3 requires an IAM role with updated permissions for this new destination bucket. You can create a new role or you can update the permissions of the existing role in the [IAM console](#)

☐ Change object ownership to destination bucket owner

Objects in the source bucket not owned by the source bucket owner will be replaced with access policy that grants full permission to the destination bucket owner

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Buckets

original-tejas18700

Replication rules

Create replication rule

☐

Change object ownership to destination bucket owner

Objects in the source bucket not owned by the source bucket owner will be replaced with access policy that grants full permission to the destination bucket owner

IAM role

Permission to access the specified resources

☐ Create new role

☒ Choose from existing IAM roles

☐ Enter IAM role ARN

IAM role

s3crr\_role\_for\_original-tejas18700

View

Encryption

Server-side encryption protects data at rest.

☐ Replicate objects encrypted with AWS Key Management Service (AWS KMS)

Replicate SSE-KMS and DSSE-KMS encrypted objects.

Destination storage class

Amazon S3 offers a range of storage classes designed for different use cases. [Learn more](#) or see [Amazon S3 pricing](#)

☐ Change the storage class for the replicated objects

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Amazon S3

Buckets

original-tejas18700

Replication rules

Replication configuration successfully updated

If changes to the configuration aren't displayed, choose the refresh button. Changes apply only to new objects. To replicate existing objects with this configuration, choose Create replication job.

Create replication job

Replication configuration settings

Configuration settings affect all replication rules in the bucket.

Source bucket

original-tejas18700

Source Region

Asia Pacific (Mumbai) ap-south-1

Replication rules (2)

Use replication rules to define options you want Amazon S3 to apply during replication such as server-side encryption, replica ownership, transitioning replicas to another storage class, and more. [Learn more](#)

Replicate existing objects?

You can enable a one-time Batch Operations job from this replication configuration to replicate objects that already exist in the bucket and to synchronize the source and destination buckets. [Learn more](#) or [see pricing](#)

Existing objects

☒ No, do not replicate existing objects.

☐ Yes, replicate existing objects.

Cancel

Submit

Replication rules (2)

Use replication rules to define options you want Amazon S3 to apply during replication such as server-side encryption, replica ownership, transitioning replicas to another storage class, and more. [Learn more](#)

| Replication rule name | Status | Destination bucket | Destination Region | Priority | Scope | Storage class | Replica owner | Replication Time Control | KMS-encrypted objects (SSE-KMS or DSSE-KMS) | Replica modification sync |
|-----------------------|--------|--------------------|--------------------|----------|-------|---------------|---------------|--------------------------|---|---------------------------|
|                       |        |                    | Asia Pacific       |          |       |               |               |                          |   |                           |

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Account ID: 8839-1507-2455

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Amazon S3

Buckets

original-tejas18700

Replication rules

Replication configuration successfully updated

If changes to the configuration aren't displayed, choose the refresh button. Changes apply only to new objects. To replicate existing objects with this configuration, choose Create replication job.

Create replication job

Replication rules (2)

View details

Edit rule

Delete

Actions

Create replication rule

Use replication rules to define options you want Amazon S3 to apply during replication such as server-side encryption, replica ownership, transitioning replicas to another storage class, and more. [Learn more](#)

| Replication rule name                              | Status  | Destination bucket                      | Destination Region                      | Priority | Scope                    | Storage class  | Replica owner  | Replication Time Control | KMS-encrypted objects (SSE-KMS or DSSE-KMS) | Replica modification sync |
|--|---------|---|---|----------|--------------------------|----------------|----------------|--------------------------|---|---------------------------|
| <input type="radio"/> <a href="#">rep2</a>         | Enabled | <a href="#">s3://repbuck404</a>         | Asia Pacific (Singapore) ap-southeast-1 | 1        | Prefix: rep2             | Same as source | Same as source | Disabled                 | Do not replicate                            | Disabled                  |
| <input type="radio"/> <a href="#">replica-demo</a> | Enabled | <a href="#">s3://replica-tejas18700</a> | Asia Pacific (Singapore) ap-southeast-1 | 0        | Prefix: replica-original | Same as source | Same as source | Disabled                 | Do not replicate                            | Disabled                  |

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