

S3 Cross region replication with bucket versioning

Note: keep 2 buckets, one as source and other as destination, both buckets should be in different region

1. Create a destination bucket in other region, enable bucket versioning while creating

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Services Search [Alt+S]

Amazon S3 > Buckets > Create bucket

Create bucket [Info](#)

Buckets are containers for data stored in S3. [Learn more](#)

General configuration

AWS Region
US East (N. Virginia) us-east-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 - New**
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](#)
pranay.gradiouslabs-backup

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](#)

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
- ☒ Enable

2. Navigate to your source bucket -> management -> Replication rule -> Create a Replication rule, Give rule name, status: enabled, rule scope: apply to all objects

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Services Search [Alt+S]

Amazon S3 > Buckets > pranay.gradiouslabs.click > Replication rules > Create replication rule

Create replication rule [Info](#)

Replication rule configuration

Replication rule name
pranay.gradiouslabs_backup

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.

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Source bucket

Source bucket name
pranay.gradiouslabs.click

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

3.In Destination, Choose your destination bucket name

4.For IAM role, Choose Create new role

5.Leave everything else as default and click save

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☒ Apply to all objects in the bucket

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.

Destination Region
US East (N. Virginia) us-east-1

6.Then choose yes, replicate all the objects

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[Amazon S3](#) > Batch Operations

Batch Operations [Info](#)

A job is used to execute batch operations on a list of S3 objects. The list of S3 objects is contained in a manifest object, which can be an S3 inventory report or a list of objects that you generate. After the total number of objects listed in the manifest has been confirmed, the job status will update to *Awaiting your confirmation to run*, and you must **Run job** within 30 days. Job events are published to [CloudWatch Events](#). Jobs are deleted 90 days after they finish or fail. [Learn more](#)

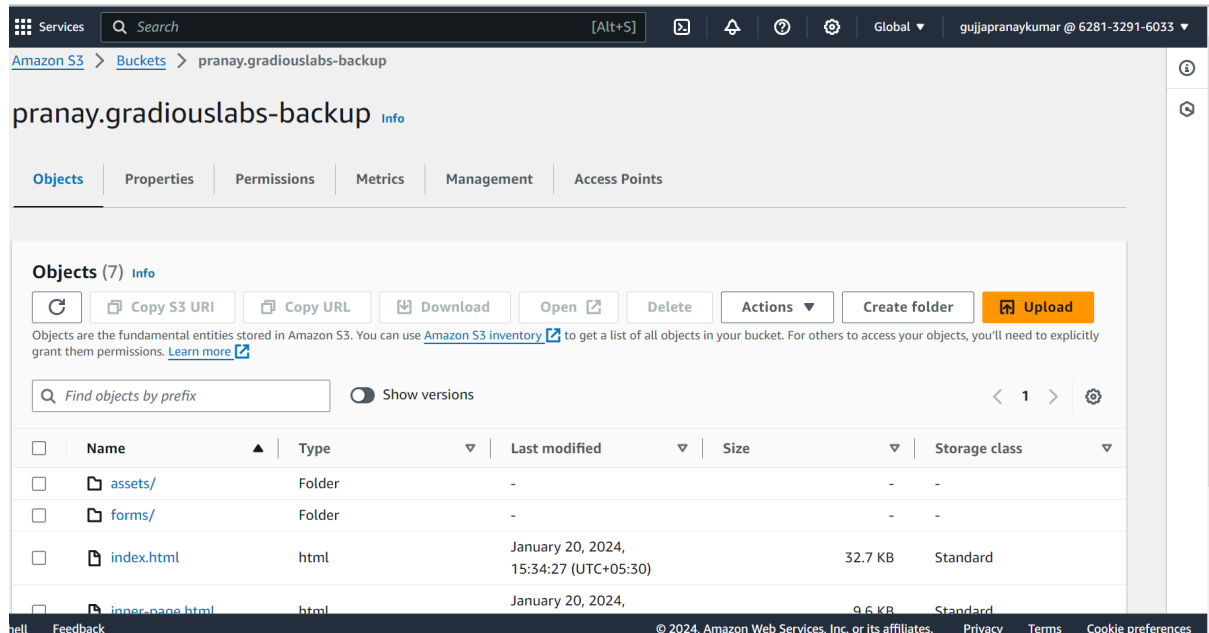
Jobs (1)

< 1 >

	Job ID	Status	Description	Operation	Date created	Total objects	% Complete	Total failed (rate)	Priority
<input type="radio"/>	7bfbd7ce-0ca3-451b-aae0-26aa621c6b99	Completed	2024-01-22 - Replicate	Replicate	January 22, 2024, 15:27:04 (UTC+05:30)	226	100%	0 (0%)	

7. Click Save, Then go and see your destination bucket, you can see all the files replicated from your source bucket

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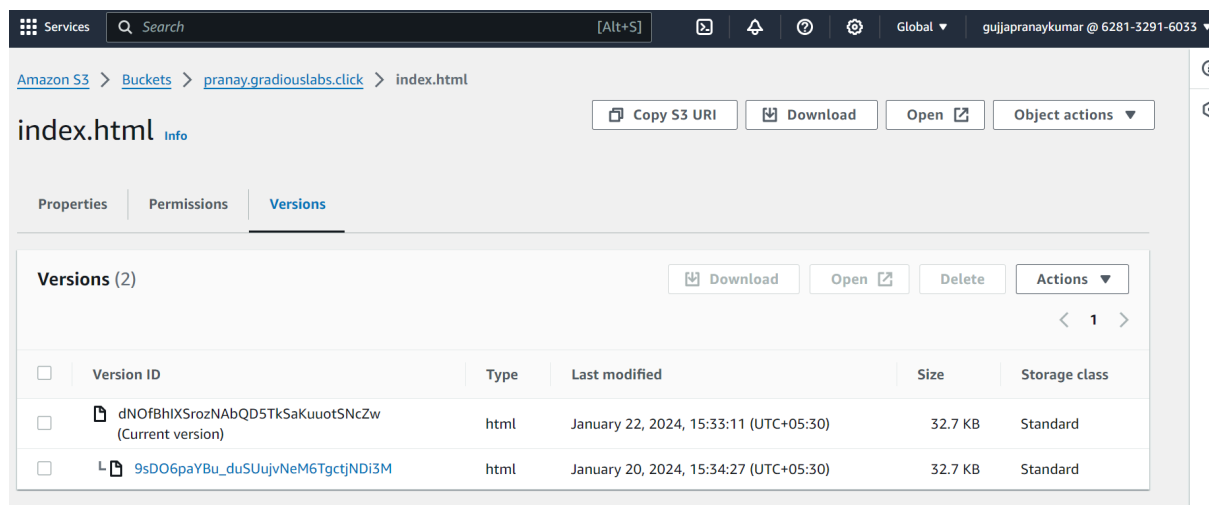


The screenshot shows the Amazon S3 console interface for the bucket 'pranay.gradiouslabs-backup'. The 'Objects' tab is active, showing a list of 7 objects. The objects are:

Name	Type	Last modified	Size	Storage class
assets/	Folder	-	-	-
forms/	Folder	-	-	-
index.html	html	January 20, 2024, 15:34:27 (UTC+05:30)	32.7 KB	Standard
inner-page.html	html	January 20, 2024,	9.6 KB	Standard

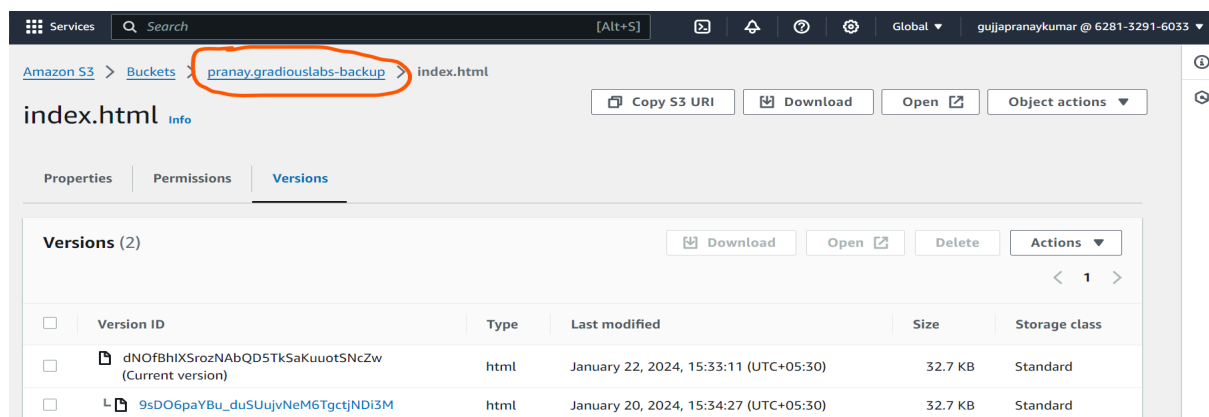
8. Now edit any files in the source bucket you can see the versions of that edited file in your destination bucket

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The screenshot shows the Amazon S3 console interface for the bucket 'pranay.gradiouslabs-backup', specifically the 'index.html' file. The 'Versions' tab is active, showing a list of 2 versions:

Version ID	Type	Last modified	Size	Storage class
dNOFbHIXSrozNAbQD5TkSaKuuotSNcZw (Current version)	html	January 22, 2024, 15:33:11 (UTC+05:30)	32.7 KB	Standard
9sDO6paYBu_duSUujvNeM6TgctjNDi3M	html	January 20, 2024, 15:34:27 (UTC+05:30)	32.7 KB	Standard



This screenshot is identical to the previous one, showing the 'index.html' file in the 'pranay.gradiouslabs-backup' bucket with two versions listed. The 'pranay.gradiouslabs-backup' bucket name in the breadcrumb is circled in orange.