

20th August 2024

- S3 Life Cycle Policy
- S3 Versioning
- S3 CRR (Cross Region Replication)

1. Creation of Public Bucket

ap-south-1.console.aws.amazon.com/s3/buckets?region=ap-south-1&bucketType=general

aws Services Search [Alt+S] Mumbai Abhimanyu_Chandgude

Successfully created bucket "s3lifecycle11"
To upload files and folders, or to configure additional bucket settings, choose [View details](#).

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

General purpose buckets | Directory buckets

General purpose buckets (3) Info All AWS Regions

Buckets are containers for data stored in S3.

Find buckets by name

| Name | AWS Region | IAM Access Analyzer | Creation date |
|-------------------------------------|----------------------------------|--|---------------------------------------|
| <input type="radio"/> mybucket7789 | Asia Pacific (Mumbai) ap-south-1 | View analyzer for ap-south-1 | August 19, 2024, 16:09:48 (UTC+05:30) |
| <input type="radio"/> rudransh11 | Asia Pacific (Mumbai) ap-south-1 | View analyzer for ap-south-1 | August 15, 2024, 18:36:50 (UTC+05:30) |
| <input type="radio"/> s3lifecycle11 | Asia Pacific (Mumbai) ap-south-1 | View analyzer for ap-south-1 | August 20, 2024, 12:04:07 (UTC+05:30) |

2. S3 Lifecycle Rule Policy

- a. Create Lifecycle Rule and apply S3 life cycle policy to bucket

ap-south-1.console.aws.amazon.com/s3/management/s3lifecycle11/lifecycle/create?region=ap-south-1&bucketType=general

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Amazon S3 > Buckets > s3lifecycle11 > Lifecycle configuration > Create lifecycle rule

Create lifecycle rule Info

Lifecycle rule configuration

Lifecycle rule name
mylifecyclerule
Up to 255 characters

Choose a rule scope

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

☒ Apply to all objects in the bucket

Apply to all objects in the bucket
If you want the rule to apply to specific objects, you must use a filter to identify those objects. Choose "Limit the scope of this rule using one or more filters". [Learn more](#)

☒ I acknowledge that this rule will apply to all objects in the bucket.

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The image displays two screenshots of the AWS S3 Lifecycle console. The top screenshot shows the 'Create lifecycle rule' page. It includes a list of actions to perform, with 'Move current versions of objects between storage classes' and 'Expire current versions of objects' selected. Below this, the 'Transition current versions of objects between storage classes' section is visible, showing three transitions: Standard-IA at 30 days, Glacier Instant Retrieval at 60 days, and Glacier Deep Archive at 365 days. The bottom screenshot shows the 'View lifecycle rule' page for a rule named 'mylifecycle1'. It displays a timeline of events: Day 0 (Objects uploaded), Day 30 (Objects move to Standard-IA), Day 60 (Objects move to Glacier Instant Retrieval), Day 365 (Objects move to Glacier Deep Archive), and Day 500 (Objects expire).

ap-south-1.console.aws.amazon.com/s3/management/s3lifecycle1/lifecycle/create?region=ap-south-1&bucketType=general

Choose the actions you want this rule to perform. Per-request fees apply. [Learn more](#) or see [Amazon S3 pricing](#)

- ☒ Move current versions of objects between storage classes
- ☐ Move noncurrent versions of objects between storage classes
- ☒ Expire current versions of objects
- ☐ Permanently delete noncurrent versions of objects
- ☐ Delete expired object delete markers or incomplete multipart uploads

These actions are not supported when filtering by object tags or object size.

Transition current versions of objects between storage classes

Choose transitions to move current versions of objects between storage classes based on your use case scenario and performance access requirements. These transitions start from when the objects are created and are consecutively applied. [Learn more](#)

| Choose storage class transitions | Days after object creation | |
|----------------------------------|----------------------------|--------|
| Standard-IA | 30 | Remove |
| Glacier Instant Retrieval | 60 | Remove |
| Glacier Deep Archive | 365 | Remove |

Add transition

ap-south-1.console.aws.amazon.com/s3/management/s3lifecycle1/lifecycle/view?region=ap-south-1&bucketType=general&id=mylifecycle1

Day 0

- Objects uploaded

↓

Day 30

- Objects move to Standard-IA

↓

Day 60

- Objects move to Glacier Instant Retrieval

↓

Day 365

- Objects move to Glacier Deep Archive

↓

Day 500

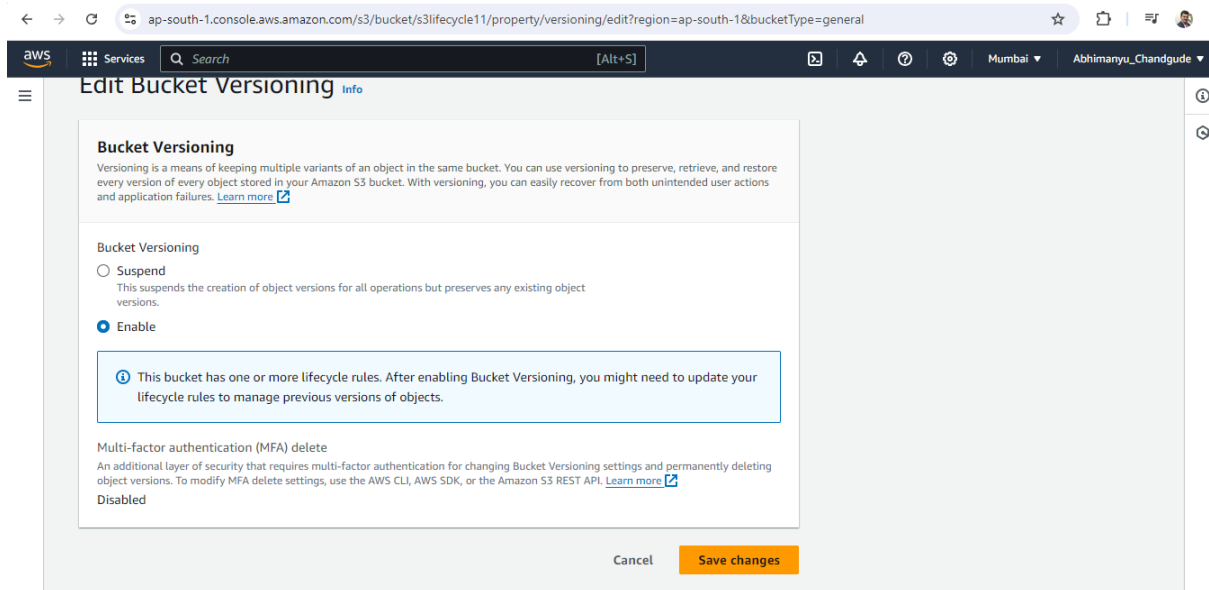
- Objects expire

Day 0

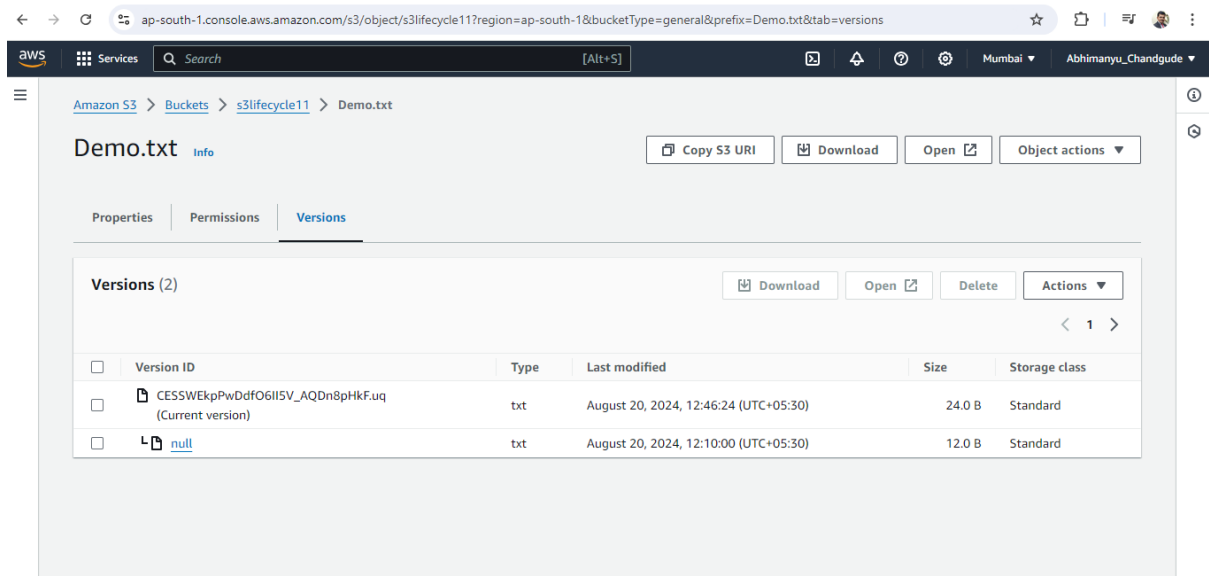
No actions defined.

3. S3 Versioning

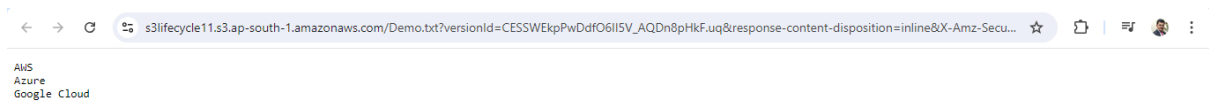
- Enable **S3 Versioning** of the Bucket



b. After uploading second file below are the version rule created.



c. Latest output file



4. CRR (Cross Region Replication)

a. Create another bucket for Singapore region

ap-southeast-1.console.aws.amazon.com/s3/buckets?region=ap-southeast-1&bucketType=general

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Successfully created bucket "crrdestinationbucket001"
To upload files and folders, or to configure additional bucket settings, choose [View details](#).

General purpose buckets Directory buckets

General purpose buckets (4) Info All AWS Regions

Buckets are containers for data stored in S3.

Find buckets by name

| | Name | AWS Region | IAM Access Analyzer | Creation date |
|-----------------------|---|---|--|---------------------------------------|
| <input type="radio"/> | crrdestinationbucket001 | Asia Pacific (Singapore) ap-southeast-1 | View analyzer for ap-southeast-1 | August 20, 2024, 12:53:35 (UTC+05:30) |
| <input type="radio"/> | mybucket7789 | Asia Pacific (Mumbai) ap-south-1 | View analyzer for ap-south-1 | August 19, 2024, 16:09:48 (UTC+05:30) |
| <input type="radio"/> | rudransh11 | Asia Pacific (Mumbai) ap-south-1 | View analyzer for ap-south-1 | August 15, 2024, 18:36:50 (UTC+05:30) |
| <input type="radio"/> | s3lifecyle11 | Asia Pacific (Mumbai) ap-south-1 | View analyzer for ap-south-1 | August 20, 2024, 12:04:07 (UTC+05:30) |

b. Create Replication Rule

ap-south-1.console.aws.amazon.com/s3/management/s3lifecyle11/replication/create?region=ap-south-1&bucketType=general

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Amazon S3 > Buckets > s3lifecyle11 > 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

c. Specify Destination Bucket

Source bucket name
s3lifecycle11

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

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.

crrdestinationbucket001 Browse S3

d. After uploading new file go to destination bucket

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.

Replication rules

Replication enables automatic and asynchronous replication of objects from one bucket to another. Replication is a set of rules that 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
s3lifecycle11

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

e. Upload another file in source bucket

Amazon S3 > Buckets > s3lifecycle11

s3lifecycle11

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

Objects (2)

Copy S3 URI Copy URL Download Open Delete Actions Create folder Upload

Find objects by prefix Show versions

| <input type="checkbox"/> | Name | Type | Last modified | Size | Storage class |
|--------------------------|--------------|------|---------------------------------------|---------|---------------|
| <input type="checkbox"/> | Demo.txt | txt | August 20, 2024, 12:46:24 (UTC+05:30) | 24.0 B | Standard |
| <input type="checkbox"/> | IAM User.txt | txt | August 20, 2024, 13:06:26 (UTC+05:30) | 226.0 B | Standard |

f. Replication rule is applied to destination bucket

Amazon S3 X

Buckets

Access Grants

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

IAM Access Analyzer for S3

Block Public Access settings for this account

▼ Storage Lens

Dashboards

Storage Lens groups

AWS Organizations settings

Amazon S3 > Buckets > crrdestinationbucket001

crrdestinationbucket001 Info

Objects

Properties

Permissions

Metrics

Management

Access Points

Objects (1) 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

🔴 Show versions

< 1 > ⚙️

| <input type="checkbox"/> | Name | Type | Last modified | Size | Storage class |
|--------------------------|--|------|---------------------------------------|---------|---------------|
| <input type="checkbox"/> |  IAM User.txt | txt | August 20, 2024, 13:06:26 (UTC+05:30) | 226.0 B | Standard |