

Lesson 04 Demo 04

Configuring Age-Based Retention

Objective: To create a lifecycle rule in S3 bucket to delete expired objects

Tools required: None

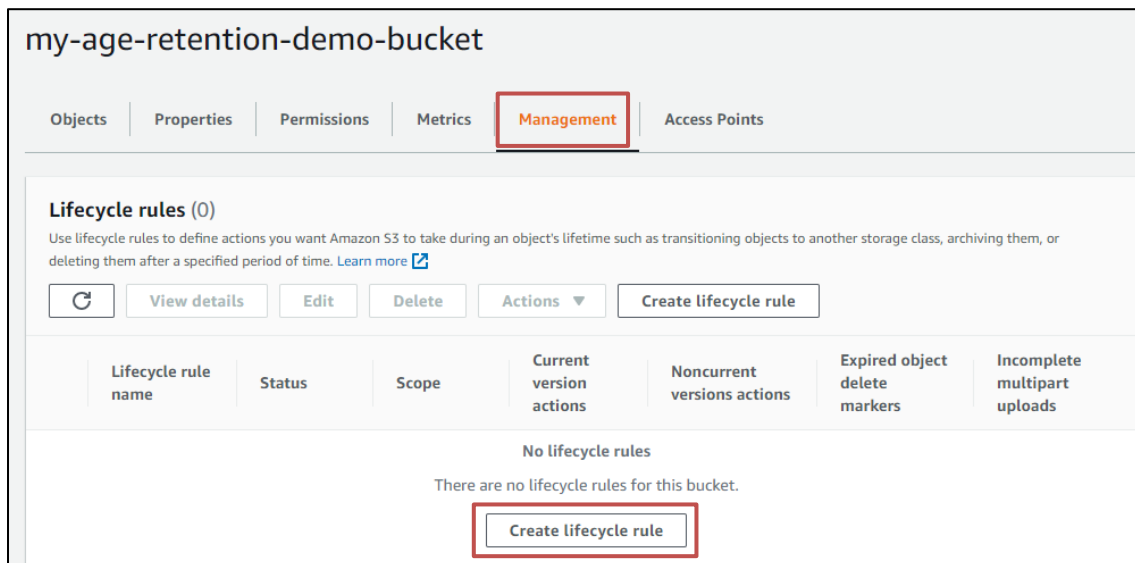
Prerequisites: AWS account with an S3 bucket created

Steps to be followed:

1. Create an S3 bucket lifecycle rule

Step 1: Create an S3 bucket lifecycle rule

- 1.1 Navigate to the **S3 bucket**, then click on the **Management** tab, and finally, click on **Create lifecycle rule**



The screenshot shows the AWS S3 console interface for a bucket named "my-age-retention-demo-bucket". The "Management" tab is selected and highlighted with a red box. Below the tabs, the "Lifecycle rules (0)" section is visible. It includes a description: "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](#)". Below this description are buttons for "View details", "Edit", "Delete", "Actions", and "Create lifecycle rule". A table below these buttons shows columns for "Lifecycle rule name", "Status", "Scope", "Current version actions", "Noncurrent versions actions", "Expired object delete markers", and "Incomplete multipart uploads". The table is currently empty, and the text "No lifecycle rules" is displayed. At the bottom, a message states "There are no lifecycle rules for this bucket." and a "Create lifecycle rule" button is highlighted with a red box.

- 1.2 Name it **my-age-retention-rule** in the **Lifecycle Rule Name** field, and select **Apply to all objects in the bucket**

Create lifecycle rule

Lifecycle rule configuration

Lifecycle rule name


my-age-retention-rule

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.

- 1.3 Under the **Lifecycle rule actions**, click on **Expire current versions of objects**, **Permanently delete noncurrent versions of objects**, and **Delete expired object delete markers or incomplete multipart uploads**

Lifecycle rule actions

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.

Expire current versions of objects

For version-enabled buckets, Amazon S3 adds a delete marker and the current version of an object is retained as a noncurrent version. For non-versioned buckets, Amazon S3 permanently removes the object. [Learn more](#)

Days after object creation

Permanently delete noncurrent versions of objects

Choose when Amazon S3 permanently deletes specified noncurrent versions of objects. [Learn more](#)

Days after objects become noncurrent

Number of newer versions to retain - *Optional*

Can be up to 100 versions. All other noncurrent versions will be moved.

Note: For demonstration purposes, the number of days can be set to 5

1.4 Click on **Create rule**

☐ Delete expired object delete markers

You cannot enable Delete expired object delete markers if you enable Expire current versions of objects.

Incomplete multipart uploads
This action will stop all incomplete multipart uploads, and the parts associated with the multipart upload will be deleted. [Learn more](#)

☐ Delete incomplete multipart uploads

Review transition and expiration actions

Current version actions

Day 0

- Objects uploaded

↓

Day 5

- Objects expire

Noncurrent versions actions

Day 0

- Objects become noncurrent

↓

Day 5

- 5 newest noncurrent versions are retained
- All other noncurrent versions are permanently deleted

Cancel
Create rule

The lifecycle configuration was updated. Lifecycle rule "my-age-retention-rule" was successfully added.
It may take some time for the configuration to be updated. Press the refresh button if changes to the rule are not displayed.

Amazon S3 > Buckets > my-age-retention-demo-bucket > Lifecycle configuration

Lifecycle configuration [Info](#)

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 (1)

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](#)

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| Lifecycle rule name | Status | Scope | Current version actions | Noncurrent versions actions | Expired object delete markers | Incomplete multipart uploads |
|-----------------------|---------|---------------|-------------------------|-----------------------------|-------------------------------|------------------------------|
| my-age-retention-rule | Enabled | Entire bucket | Expires | Permanently delete | - | - |

The Lifecycle configuration rule has been successfully created.

By following these steps, you have successfully established this rule, enabling automatic expiration, deletion, or transition of objects. This facilitates more efficient and streamlined management of storage within the designated bucket.