

Lesson 04 Demo 04

Configuring Age-Based Retention

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

Tools required: None

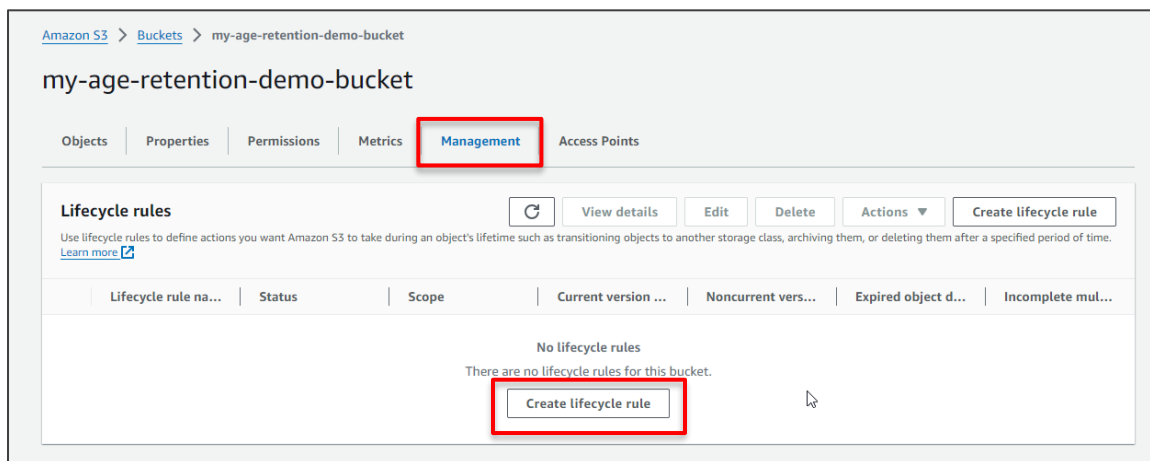
Prerequisites: AWS account with an S3 bucket created

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**, click on the **Management** tab, and click **Create lifecycle rule**



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

1.3 Under Lifecycle rule actions, check the following action checkboxes:

Expire current versions of objects, Permanently delete noncurrent versions of objects, and Delete expired object delete markers or incomplete multipart uploads

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 1 to 100 versions. All other noncurrent versions will be moved.

Delete expired object delete markers or incomplete multipart uploads

Expired object delete markers

This action will remove expired object delete markers and may improve performance. An expired object delete marker is removed if all noncurrent versions of an object expire after deleting a versioned object. This action is not available when "Expire current versions of objects" is selected. [Learn more](#)

☐ Delete expired object delete markers

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

Note: The number of days can be set to 5 for demonstration purposes.

1.4 Click on **Create rule**

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	Noncurrent versions actions
Day 0 <ul style="list-style-type: none"> Objects uploaded 	Day 0 <ul style="list-style-type: none"> Objects become noncurrent
↓	↓
Day 5 <ul style="list-style-type: none"> Objects expire 	Day 5 <ul style="list-style-type: none"> 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](#)

[Refresh](#) [View details](#) [Edit](#) [Delete](#) [Actions](#) [Create lifecycle rule](#)

Lifecycle rule ...	Status	Scope	Current versi...	Noncurrent v...	Expired objec...	Incomplete mul...
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 a lifecycle configuration rule that enables the automatic expiration, deletion, or transition of objects.