Lesson 04 Demo 05

Implementing Object Replication Between S3 Buckets

Objective: To demonstrate the replication of an object from a source to a destination S3 bucket using replication rules

Tools required: None

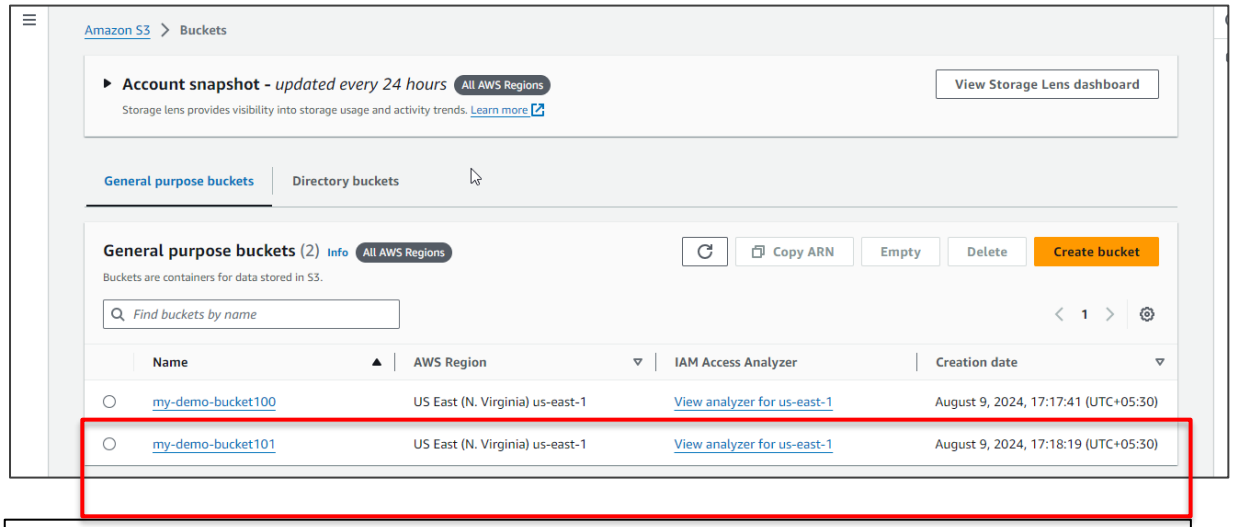
Prerequisites: None

Steps to be followed:

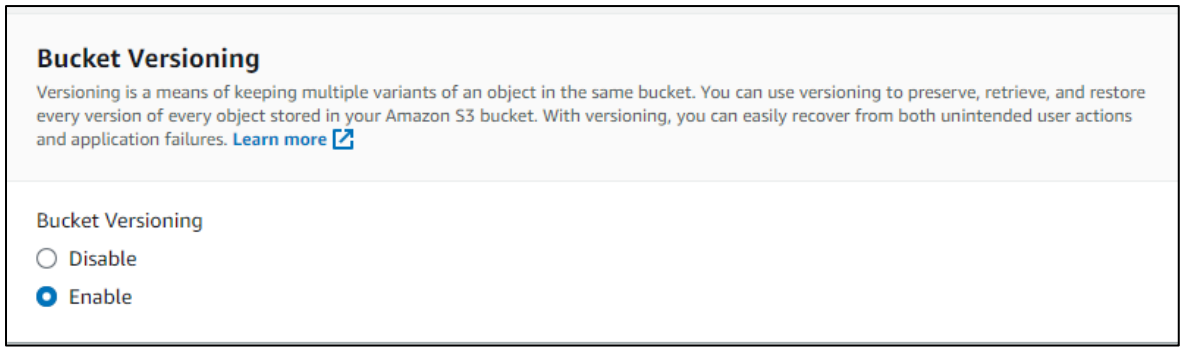
1. Create two S3 buckets for source and destination
2. Add a file to the source bucket
3. Create a replication rule from the source bucket
4. Replicate the object file from the source to the destination bucket
5. Delete and verify the replicated object file

Step 1: Create two S3 buckets for source and destination

1.1 Create two new S3 buckets and use the different AWS regions



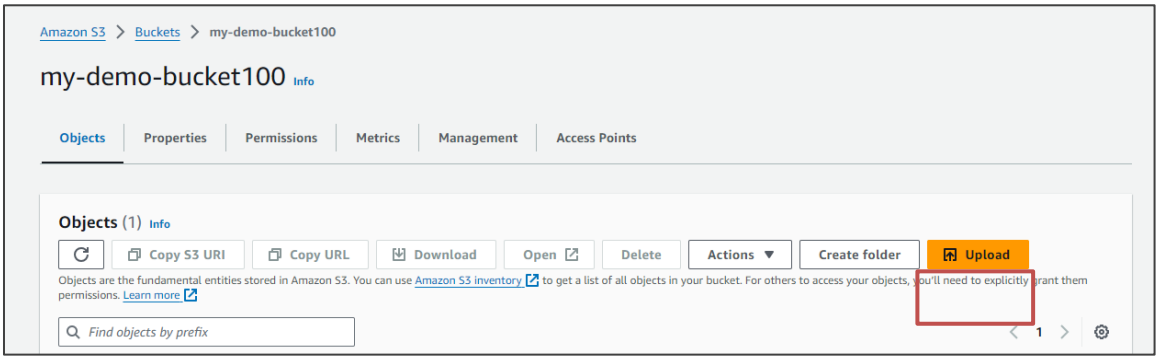
Note: Refer to the previous demos to understand how to create an S3 bucket

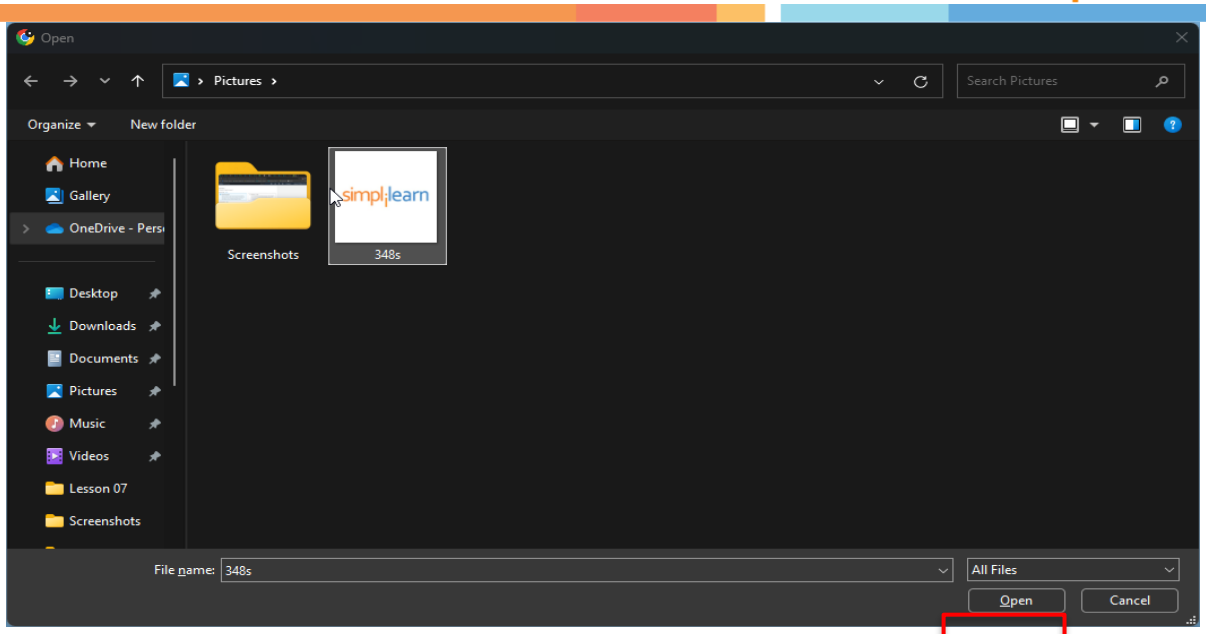


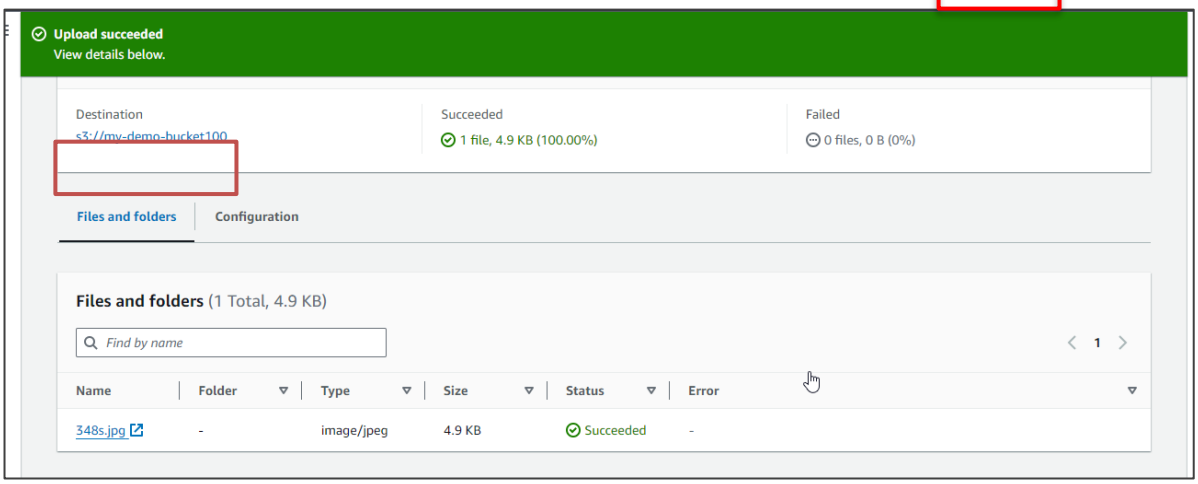
Note: Ensure that versioning is enabled when creating the buckets, and select different AWS regions for each bucket

Step 2: Add a file to the source bucket

2.1 Upload a JPG file to the source bucket named **my-demo-bucket100**, and click **Open**

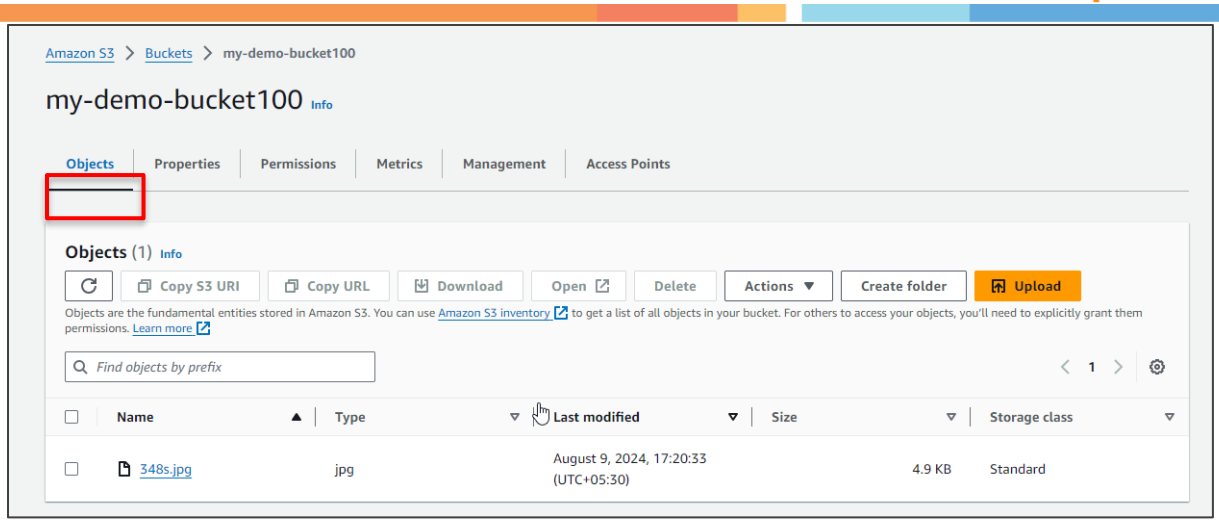






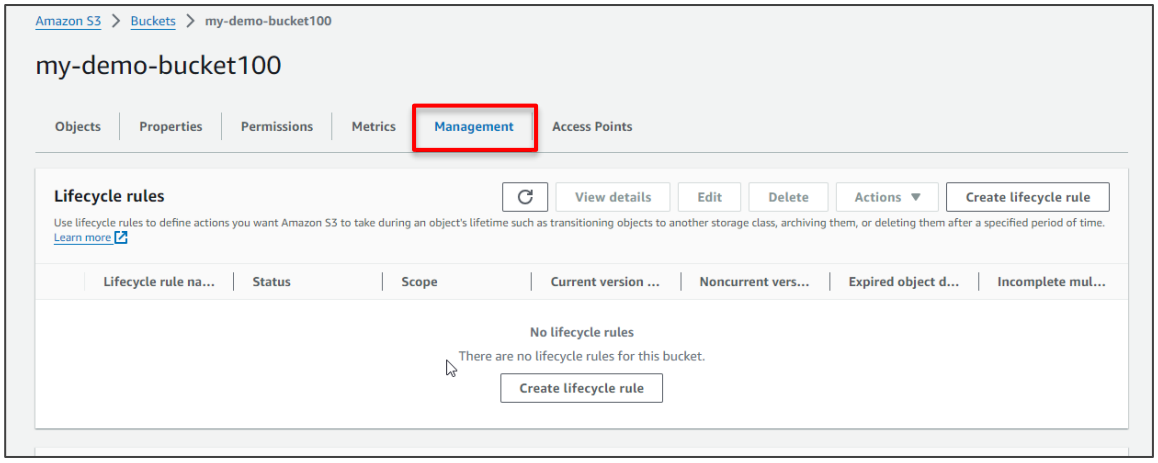
The image has been uploaded successfully.

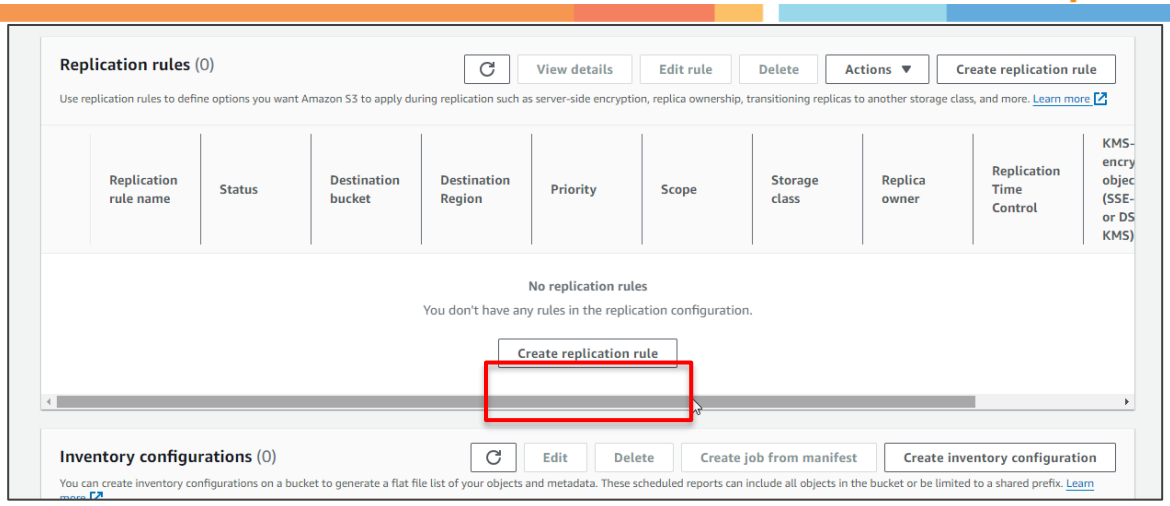
2.2 Navigate to the **my-demo-bucket100** bucket and click on **Objects** to verify the file upload

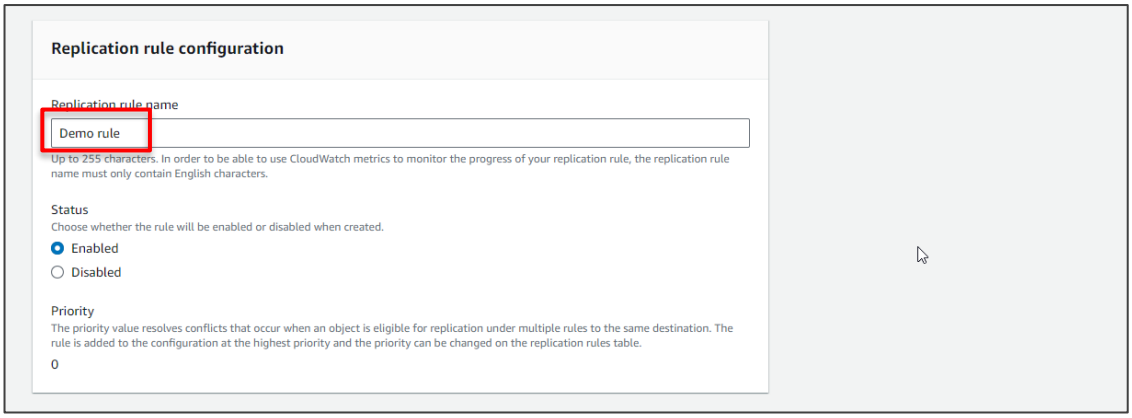


Step 3: Create a Replication rule from the source bucket

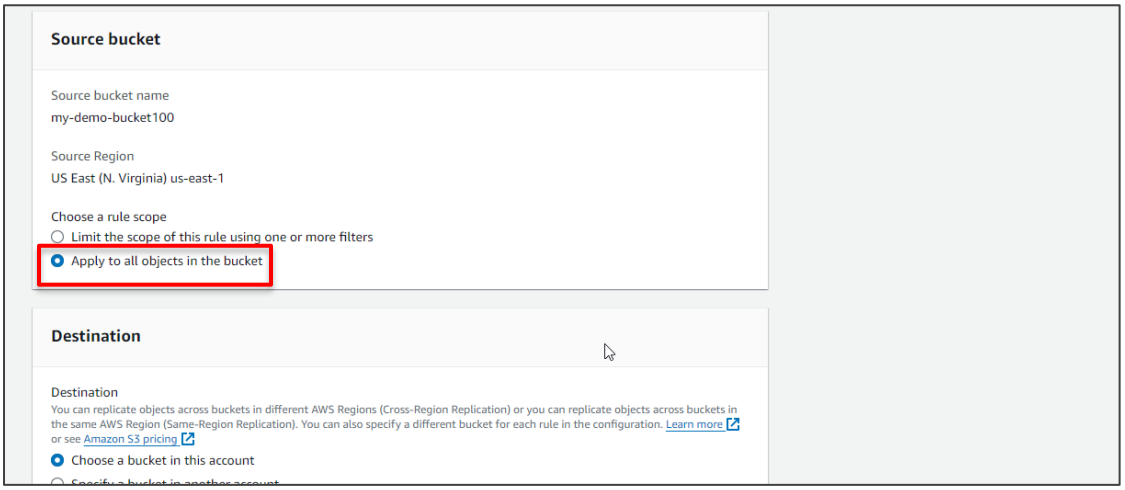
3.1 Navigate to the **Management** tab of the source bucket, **my-demo-bucket100,** click on **Create replication rule**; enter the name **Demo rule** under **Replication rule name**, and select **Enabled** under Status



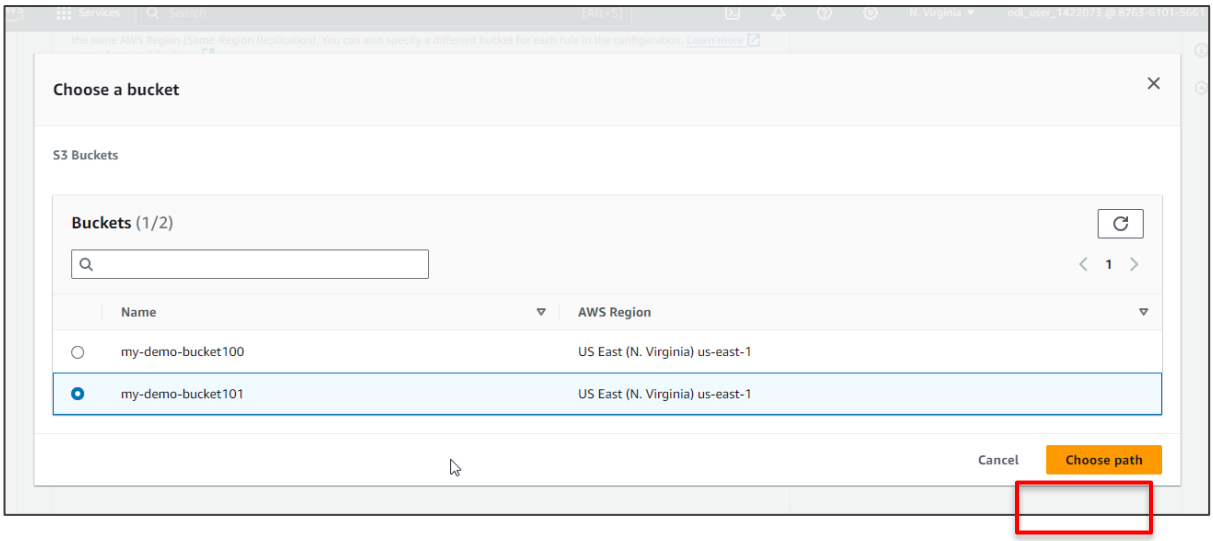




3.2 Choose the rule scope as **Apply to all objects in the bucket**

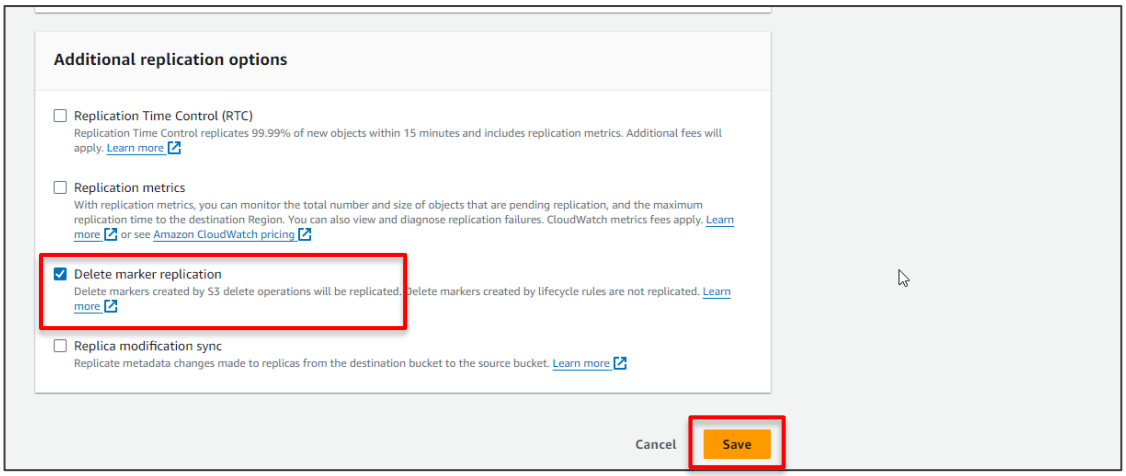


3.3 Choose **my-demo-bucket101**, and click on **Choose path**

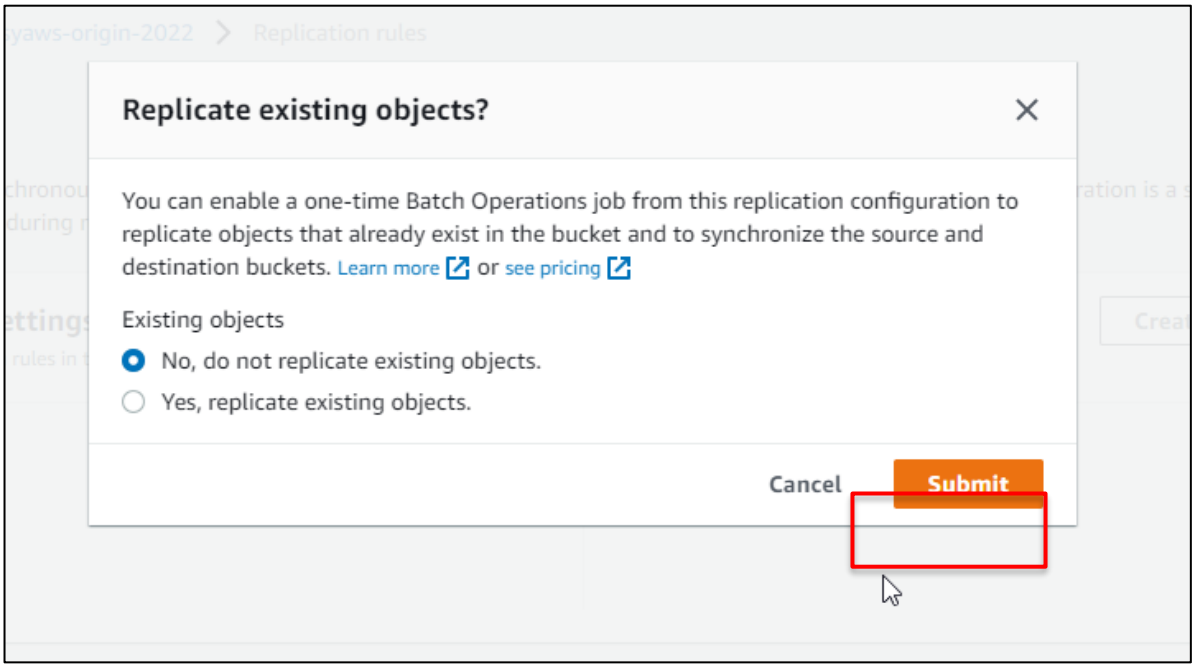


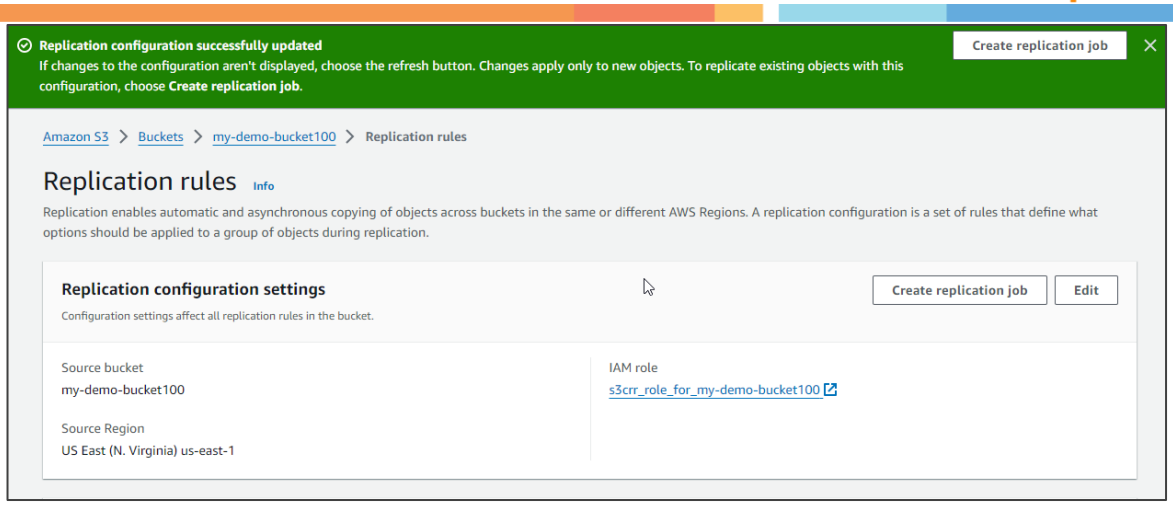
3.4 Click on **Create new role**

3.5 Click on **Delete marker replication** in the Additional replication options before saving the replication rule, and click **Save**



3.6 Click on **Submit** without making any changes

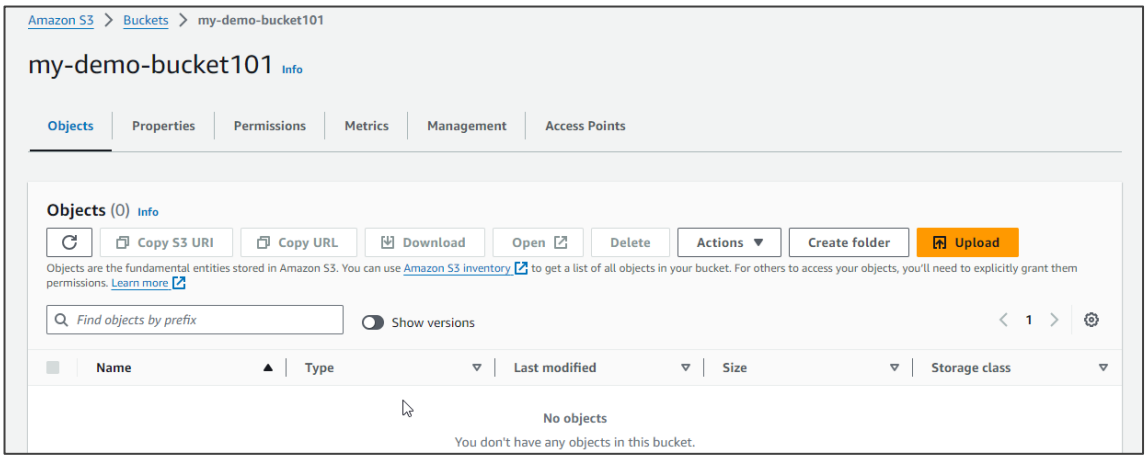




The replication rule has been successfully created.

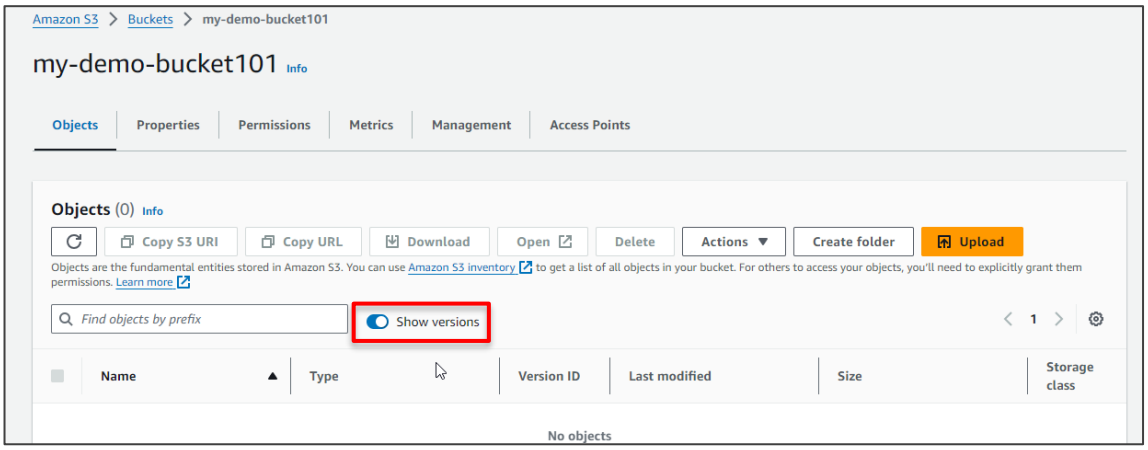
Step 4: Replicate the object file from the source to the destination bucket

4.1 Navigate to the destination bucket, **my-demo-bucket101**, to verify if the object file is present or if the bucket is empty

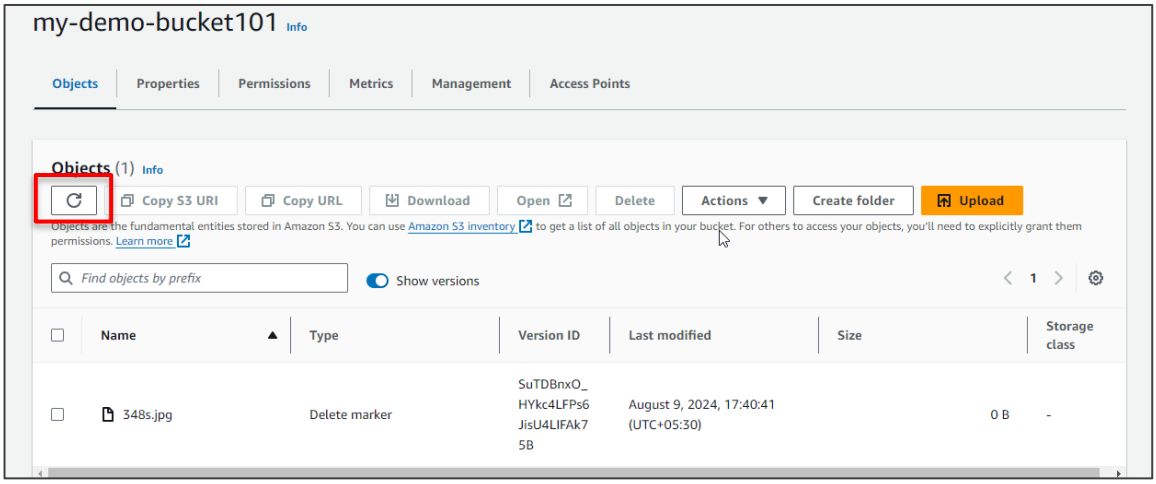


Note: The destination bucket will be empty, as the replication property is set to not replicate existing objects.

4.2 Go to the source bucket, **my-demo-bucket101**, to re-upload the object file; click on the **Show versions** tab to view both the uploaded files

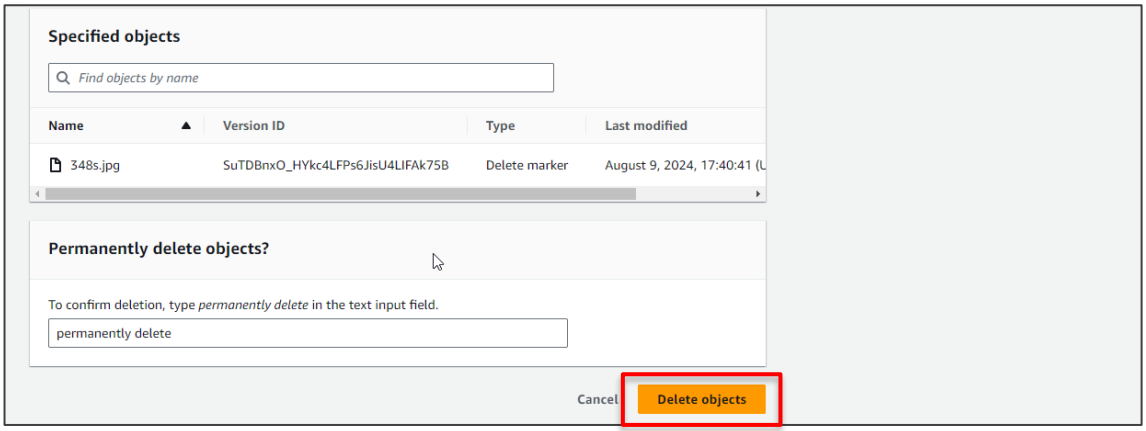


4.3 Navigate to the destination bucket, **my-demo-bucket101**, and click on the **refresh** icon to view the replicated object file

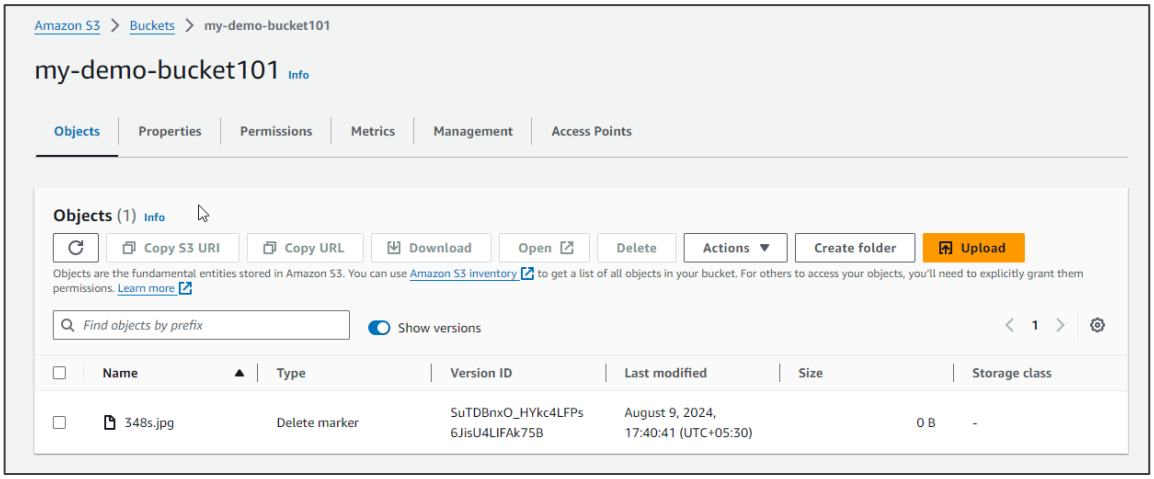


Step 5: Delete and verify the replicated object file

5.1 Navigate to the source bucket, **my-demo-bucket100**, and click on **Delete objects** to delete the uploaded object file



5.2 Navigate to the destination bucket, **my-demo-bucket101** and verify if the replicated object file is still available and has not been deleted



Note: The object file is available in the **destination bucket** because the **Delete marker Replication rule** has been enabled.

By following these steps, you have successfully implemented the process of replicating an object from a source bucket to a destination bucket within Amazon S3.