

Lesson 04 Demo 05 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

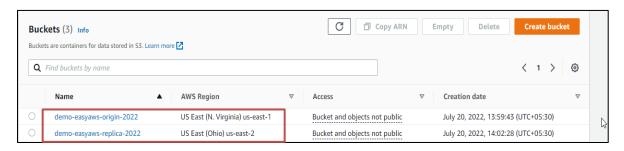
Steps to be followed:

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 destination bucket
- 5. Delete and verify the replicated object file

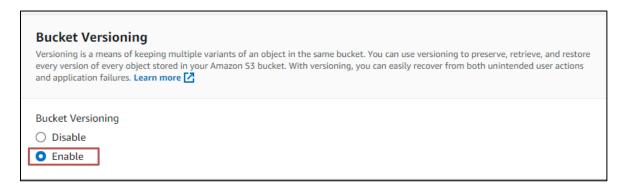
Step 1: Create two S3 buckets for source and destination

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

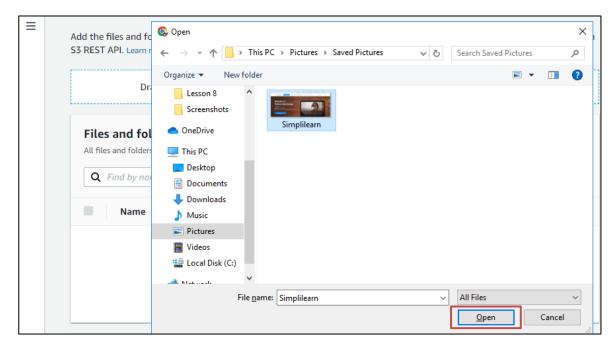




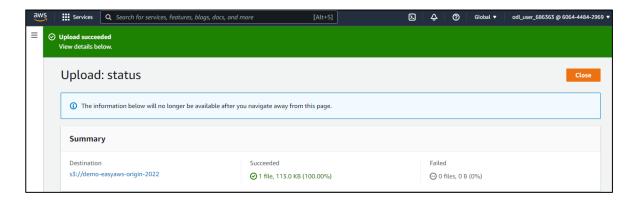
Note: Please make sure the versioning is enabled while creating the buckets and select different AWS regions

Step 2: Add a file to the source bucket

2.1 Upload a JPG file to the source bucket, named demo-easyaws-origin-2022, and click Open

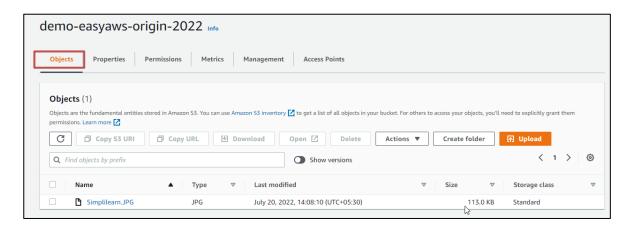






The image is uploaded successfully.

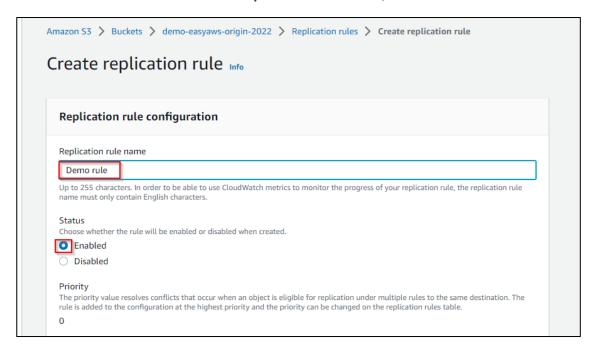
2.2 Navigate to the **demo-easyaws-origin-2022** bucket and click on **Objects** to verify the file upload



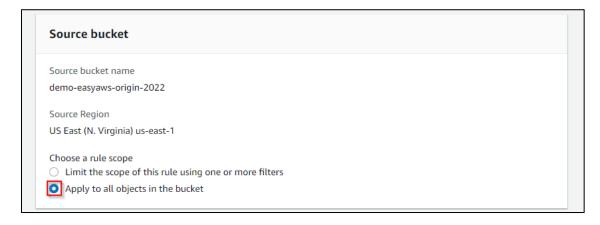


Step 3: Create a Replication rule from the source bucket

3.1 Navigate to the **Management** tab of the source bucket, demo-easyaws-origin-2022, enter the name **Demo rule** under **Replication rule** name, and click on **Enabled** in Status

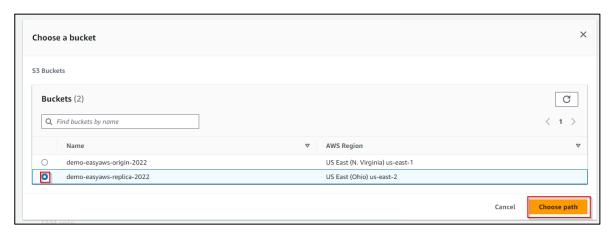


3.2 Choose the rule scope as Apply to all the objects in the bucket

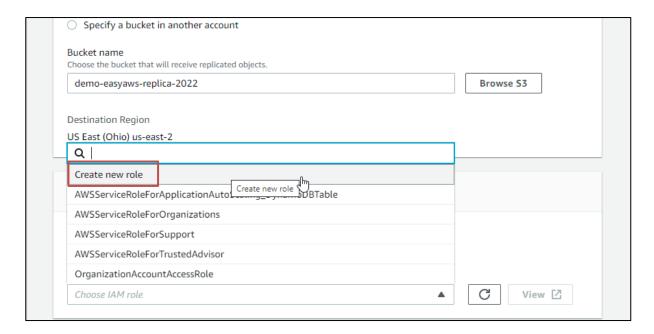




3.3 Choose the demo-easyaws-replica-2022, and click on Choose path



3.4 Click on the Create new role

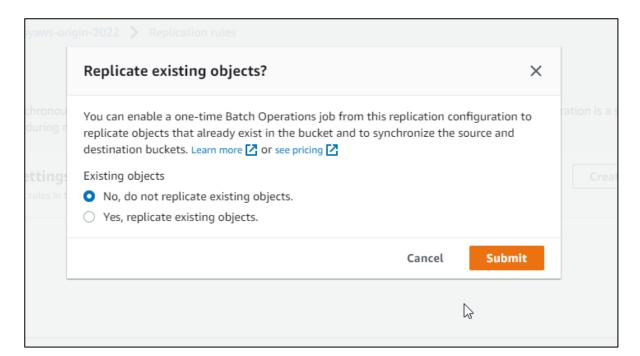




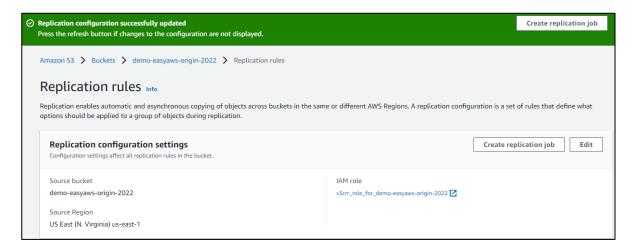
3.5 Click on **Delete marker replication** before saving the replication rule and **save**

	Replication Time Control (RTC)
	Replication Time Control replicates 99.99% of new objects within 15 minutes and provides replication metrics and notifications. Additional fees will apply. Learn more 🔀
	Replication metrics and notifications Monitor the progress of your replication rule through Cloudwatch Metrics. Cloudwatch metrics fees apply. Learn more or see
	Amazon Cloudwatch pricing 2
✓	Delete marker replication Delete markers created by S3 delete operations will be replicated. Delete markers created by lifecycle rules are not replicated. Learn
	more 🔀
	Replica modification sync
	Replica modification sync Replicate metadata changes made to replicas in this bucket to the destination bucket. Learn more

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



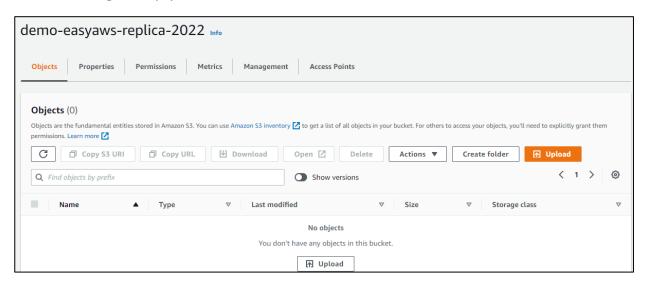




Replication rule is successfully created.

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

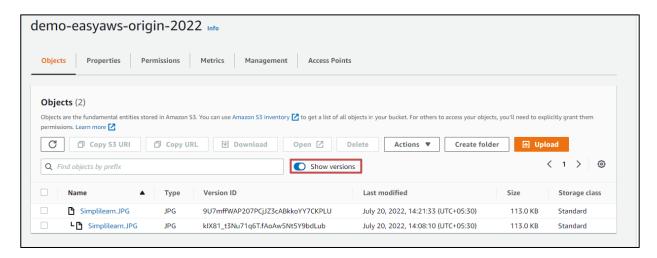
4.1 Navigate to the destination bucket **demo-easyaws-replica-2022** to verify if the object file is reflecting or empty



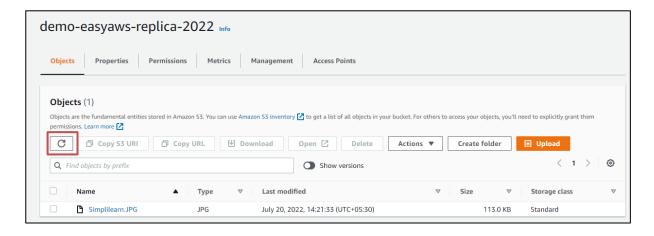
Note: The destination bucket will be empty as we have enabled the property to not replicate the existing objects.



4.2 Go to the source bucket, **demo-easyaws-origin-2022**, to reupload the object file; click on the **Show versions** tab to view both the uploaded files



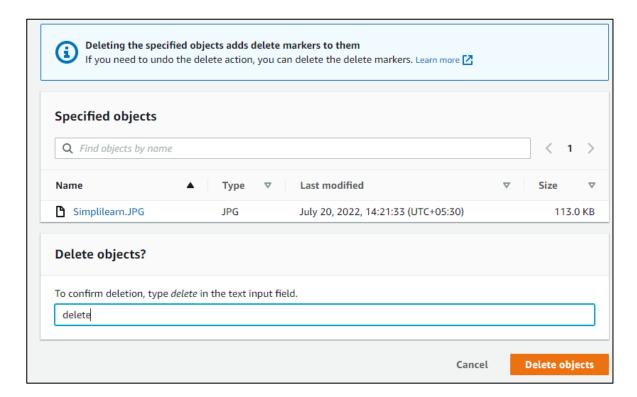
4.3 Navigate to the destination bucket, **demo-easyaws-replica-2022**, and click on the **refresh** icon to view the replicated object file





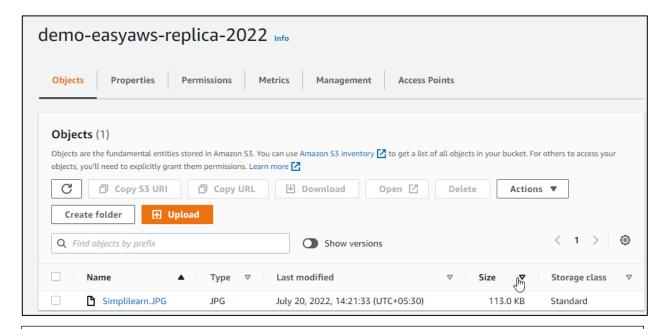
Step 5: Delete and verify the replicated object file

5.1 Navigate to the source bucket, demo-easyaws-origin-2022, and **delete** the uploaded object file





5.2 Navigate to the destination bucket, **demo-easyaws-replica-2022**, and verify if the replicated object file is still available and not 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.