

Enable cross-region replication.

Objectives:

1. Learn to enable cross-region replication of an S3 Bucket.

<u>Step 1</u>: In AWS console go to **S3** services. Select **Buckets** and click on **Create bucket**

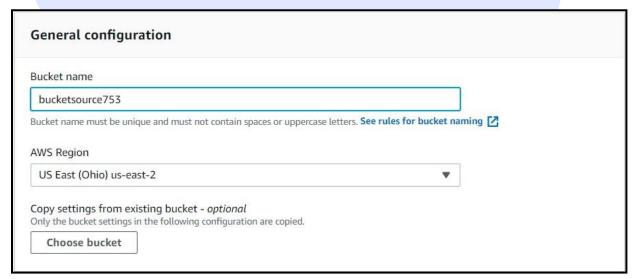


Step 2: Give a **Bucket name** to this source bucket.

Here bucketsource753 is a random name chosen for your bucket.

You may have to try giving a different name if your required bucket name is already being used by some other AWS user.

Note the region. Here it is US East (Ohio)





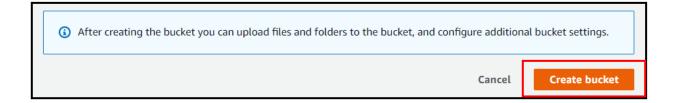
Uncheck the checkbox which says **Block Public Access settings for this bucket** and check the acknowledge it by checking the box below.

sure t d its a plicati stomiz	Public Access settings for this bucket cess is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to nat public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your ons will work correctly without public access. If you require some level of public access to this bucket or objects within, you can tee the individual settings below to suit your specific storage use cases. Learn more
	ck all public access sing this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.
-	Block public access to buckets and objects granted through <i>new</i> access control lists (ACLs) S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
	Block public access to buckets and objects granted through <i>any</i> access control lists (ACLs) S3 will ignore all ACLs that grant public access to buckets and objects.
- 🗆	Block public access to buckets and objects granted through <i>new</i> public bucket or access point policies 53 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to 53 resources.
	Block public and cross-account access to buckets and objects through <i>any</i> public bucket or access point policies S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.
A	Turning off block all public access might result in this bucket and the objects within becoming public AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.
	✓ I acknowledge that the current settings might result in this bucket and the objects within becoming public.
	your trusted partner for
ionin y ver	t Versioning g is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and resion of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actication failures. Learn more
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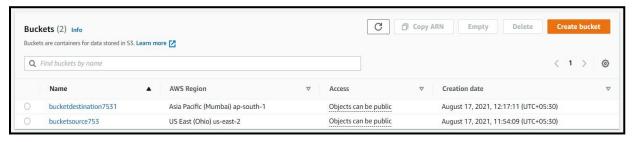
Make sure you **Enable** the **Bucket Versioning** option.

Scroll Down and click on Create Bucket





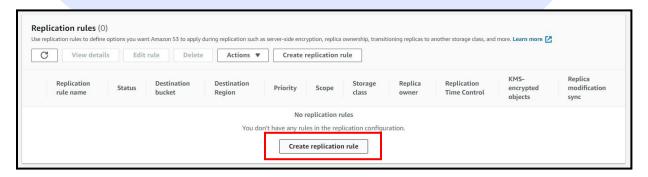
<u>Step 3</u>: Create a destination bucket, follow Step 2 up to this point. Select a different region. Here the name is bucketdestination7531 and region is selected as Asia Pacific (Mumbai).



Step 4: Click on the Hyperlink of **Source Bucket** and in bucket details click on **Management**



Scroll down and in Replications Rules, Click on Create Replication Rule





<u>Step 5</u>: Under **Replication Rule Name**, provide a name for the replication rule. Here, it is given as ReplicationRuleid1.

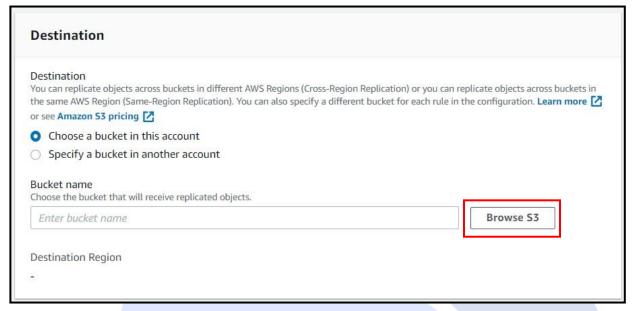
Replication r	rule name
Replication	nRuleid1
Up to 255 chai	racters.
Status Choose wheth	er the rule will be enabled or disabled when created.
Enabled	
Disabled	
Priority	
The priority va	lue resolves conflicts that occur when an object is eligible for replication under multiple rules to the same destination. The o the configuration at the highest priority and the priority can be changed on the replication rules table.
0	

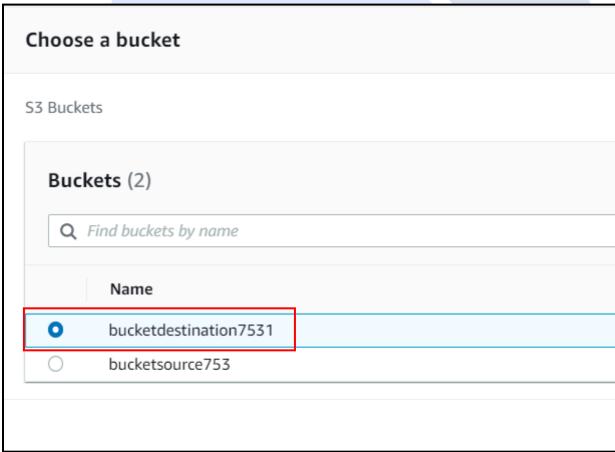
Under Source Bucket select This rule applies to all objects in the bucket

Source bucket	
Source bucket name	
bucketsource753	
Source Region	
US East (Ohio) us-east-2	
Choose a rule scope	
 Limit the scope of this rule using one or more filters 	
This rule applies to all objects in the bucket	



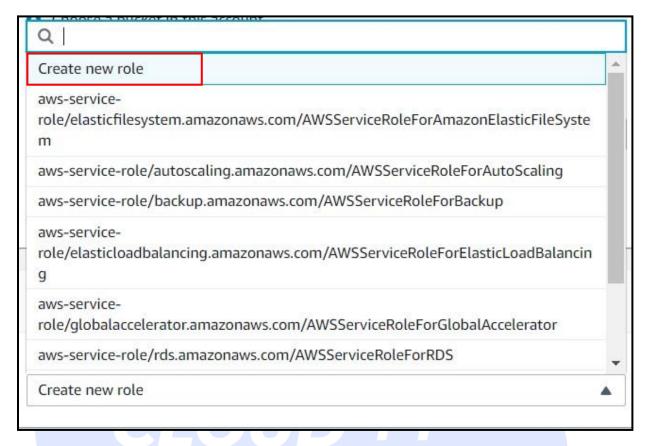
For Destination click on **Browse S3** and select your Destination Bucket



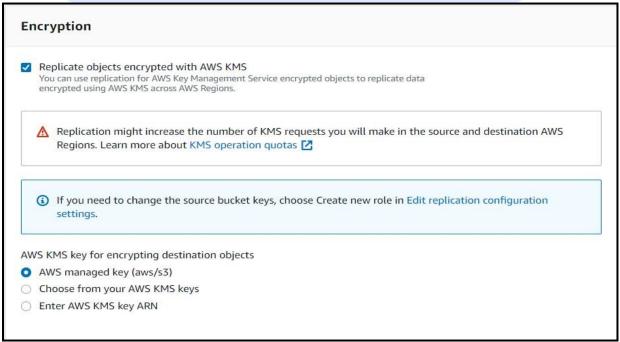




Click on the Dropdown for IAM Role and click on Create new role

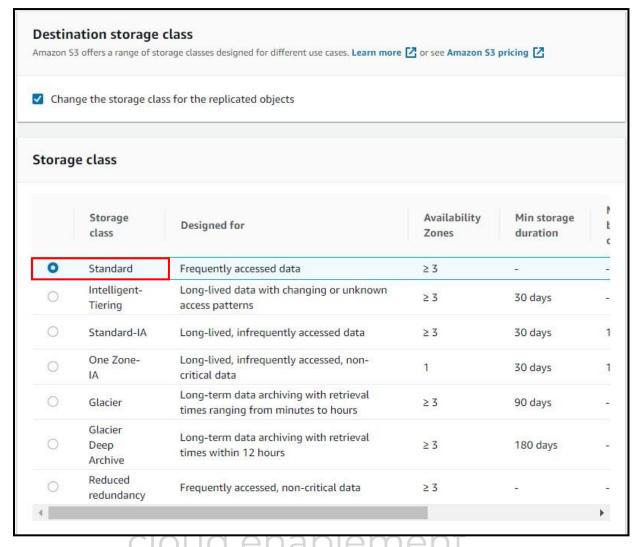


Check the checkbox for bucket replication and make sure AWS key for encrypting destination objects is selected as AWS managed key (AWS/s3)

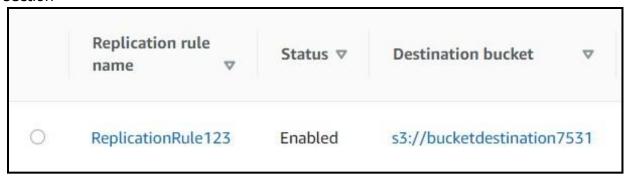




Click on the checkbox of **Change the storage class for the replicated objects** and make sure storage class is selected to **Standard**



You can see the Replication Rule has been created on the S3 Bucket management section

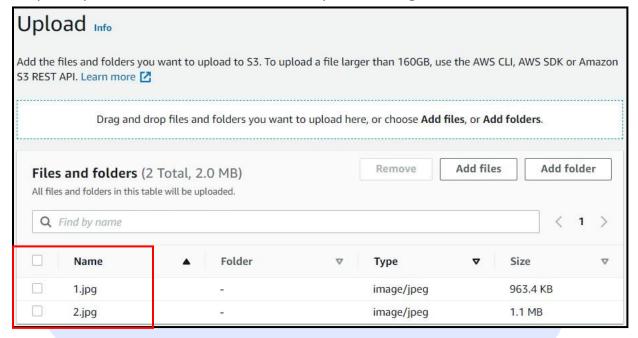




Even in IAM Role you can see IAM Role for S3 service role has been created

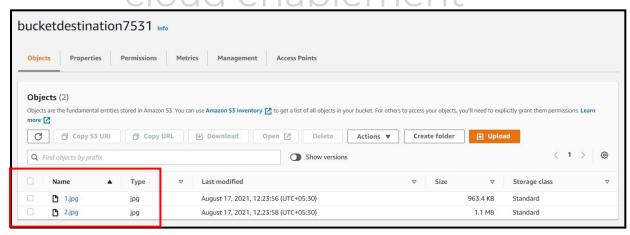


Step 6: Open the S3 Source Bucket and Upload 2 images.



<u>Step 7</u>: Go to Destination bucket check that the files have been replicated. A copy of these files has been created in this bucket.

Note: It takes a little while for the Source Bucket Item to replicate on the destination bucket so wait for a few minutes and then refresh the destination bucket page





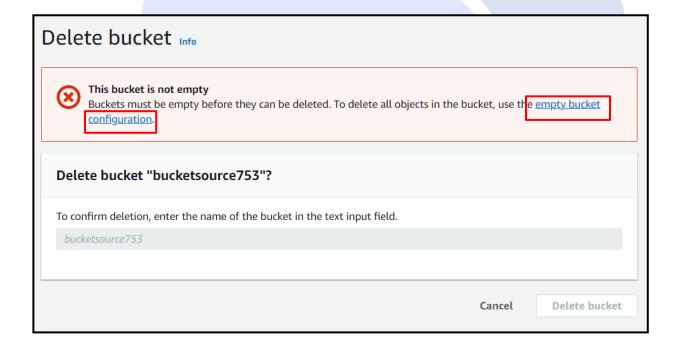
Note: Follow the next step only if you do not require the bucket for later use.

Step 8: Select the bucket and click on **delete**



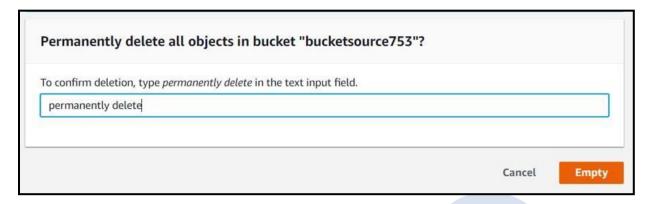
Since our bucket has objects in it we need to empty the bucket first before deleting.

Click on empty bucket configuration

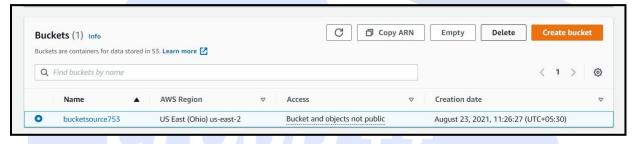




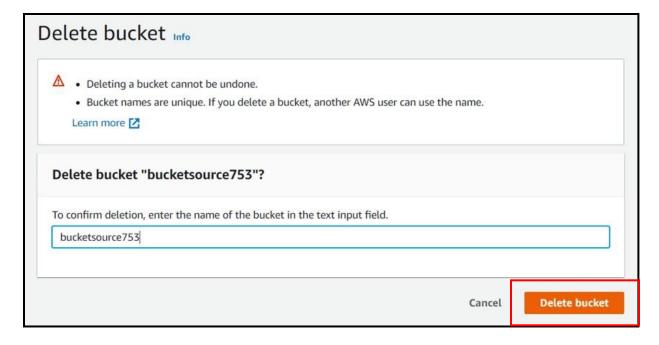
Type permanently delete in the text field and click on **Empty**. Now all the objects in your bucket are emptied. And the bucket can be deleted.



Now go to S3 buckets page again and click on delete



This time enter the bucket name in this case bucketsource753 in the text field and click on **Delete Bucket**





Was this document helpful? YES / NO

CLOUD ++

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