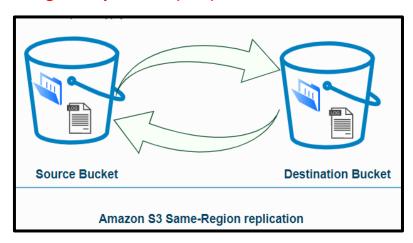


- 1. Same-Region Replication (SRR)
- 2. Cross-Region Replication (CRR)

♣ Same Region Replication (SRR)

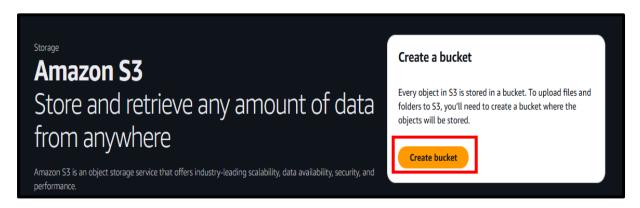


- Buckets in same AWS region.
- For compliance, backup, and log processing.
- SSR refers to the **retrieval of data** from Amazon S3 storage.
- Use Case: When you need to access or retrieve your stored data (objects) in S3, it is considered a retrieval operation.
- **Cost:** Retrieval might cost you depending on the storage class (e.g., Glacier vs Standard).

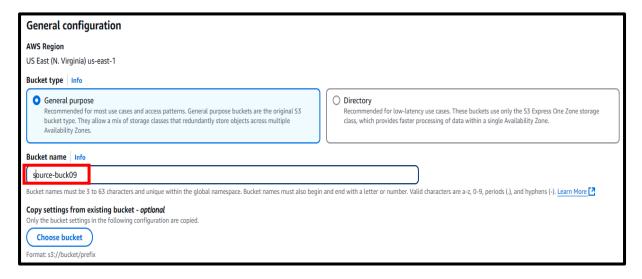
Steps for Same-Region Replication (SRR):

1. Enable Versioning:

- Go to the S3 Console.
- Click create bucket



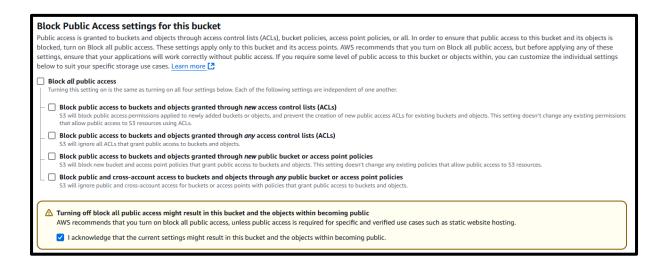
Name the bucket



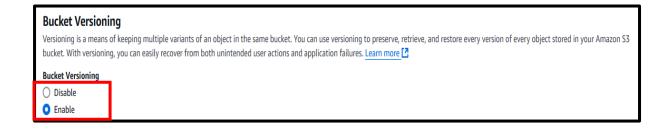
- Enable ACL



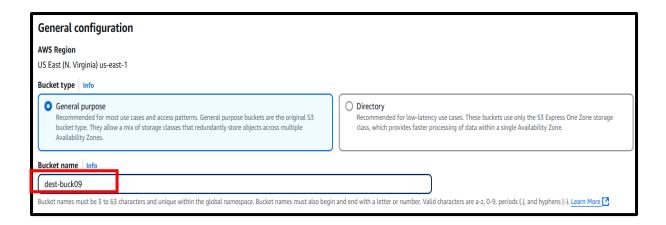
- Uncheck the block public access



- Select the source bucket.
- Go to Properties > Versioning > Enable Versioning.

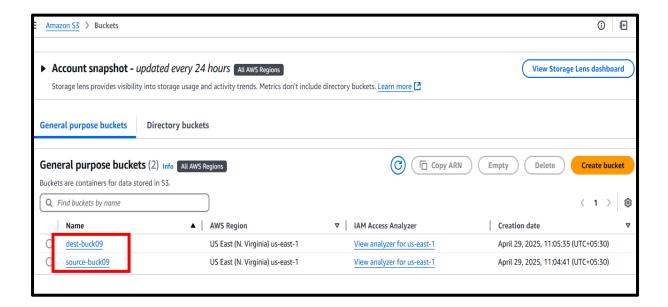


- > Scroll and click create Bucket
 - Do the same for the destination bucket (the bucket within the same region).



HERE,

You can see both the buckets - source and destination

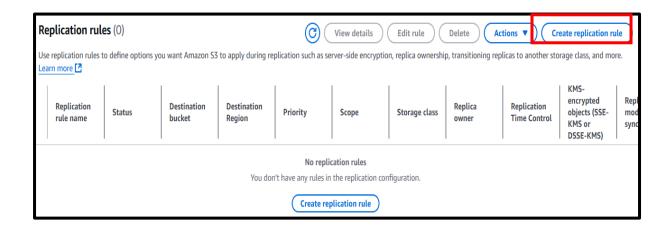


2. Create a Replication Rule:

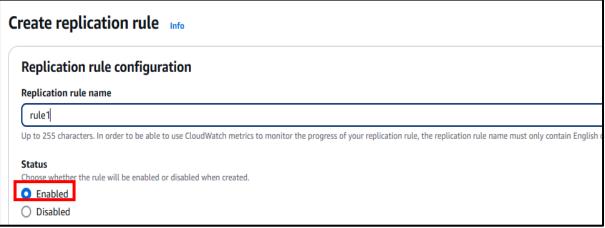
In the source bucket, go to the Management tab.



Click on Replication > Add Rule.



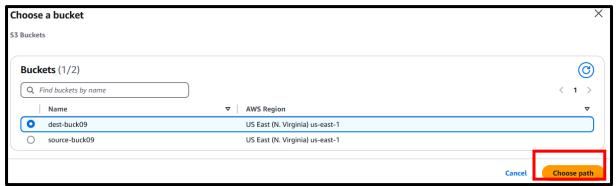
3. Set Replication Details:



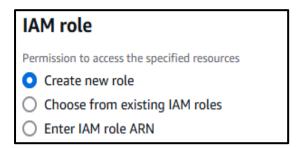


Choose the destination bucket (same region).

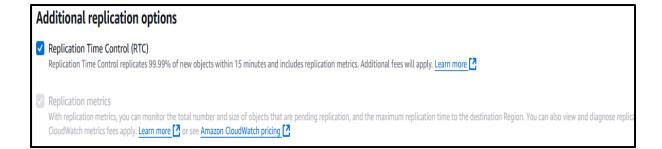




Select the IAM role (you can use the default role).



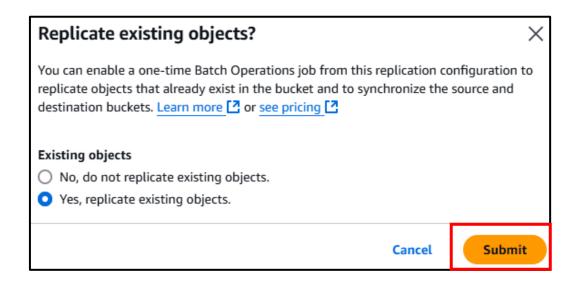
 Choose whether to replicate all objects or just those with specific prefixes/tags.



 (Optional) Enable delete marker replication if you want deletions to be replicated.

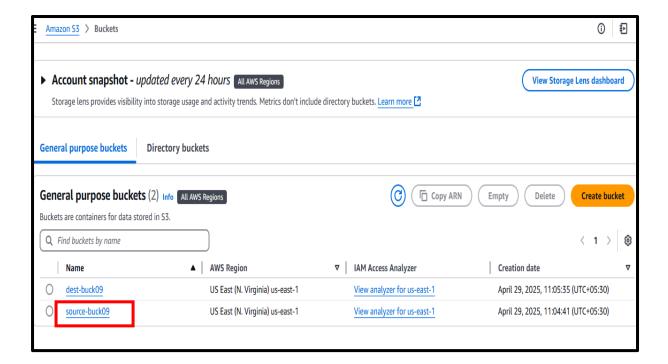
4. Save the Rule:

o Click **Save** to apply the rule.



5. Verify Replication:

- Upload a file to the source bucket.
- Click source bucket

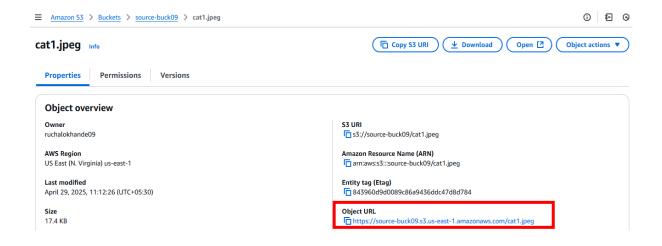


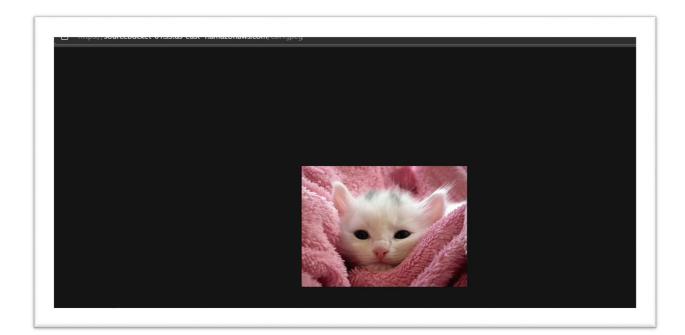
- Click upload
- Click Add files



Note: Set the object ACL Permissions

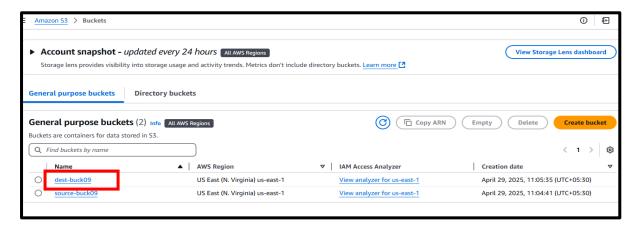
- Copy the Object URL and access through Browser



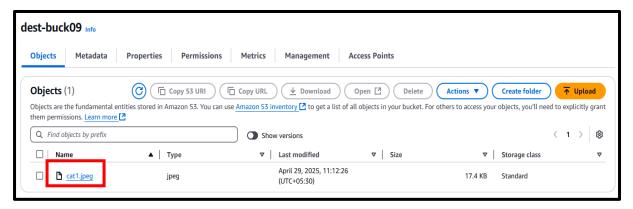


o Check the **destination bucket** to see if the file is replicated.

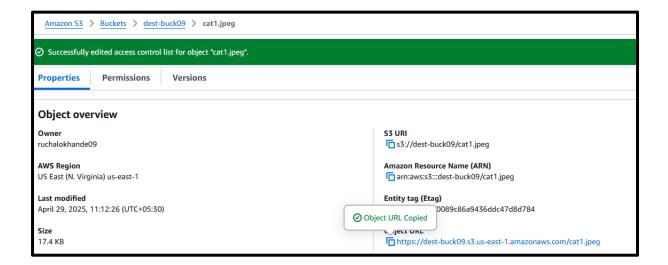
Click the Destination Bucket



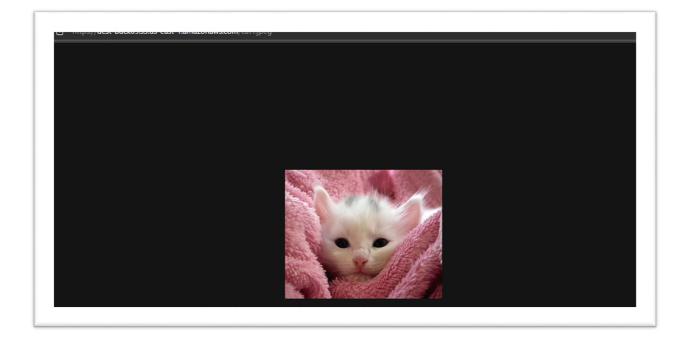
Check the file is replicated



- Copy the Object URL



Destination bucket file is also accessible :---



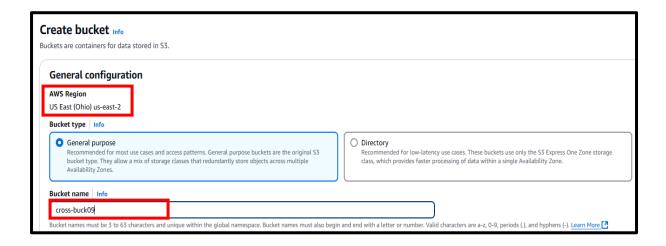


Cross-Region Replication (CRR)

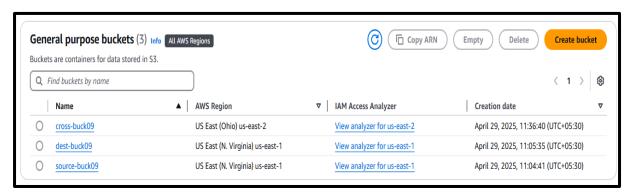
- Buckets in different AWS regions.
- Used for disaster recovery, global access, and compliance
- "CRR is the process of automatically copying data from one S3 bucket in one AWS region to another S3 bucket in a different AWS region."
- Purpose: It provides data redundancy across regions, helping with disaster recovery, compliance, and better performance in different geographical locations.
- Use Case: If you want to ensure that your data is replicated and
 accessible in multiple regions, you can enable CRR. For
 example, having your primary bucket in US-East and a replica
 in EU-West for fault tolerance.
- Automatic: Once configured, replication happens automatically
 whenever an object is added or updated in the source bucket.

Steps:

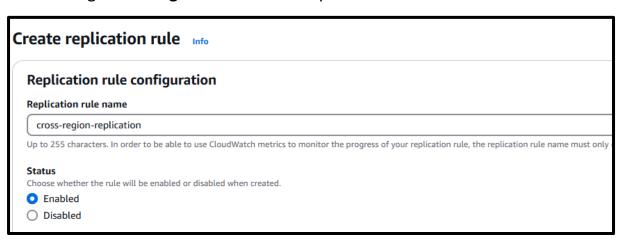
1. Create a Bucket in another region



Buckets Available

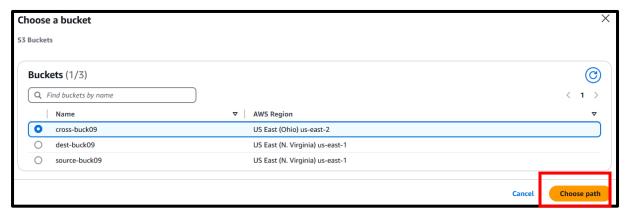


- Click source bucket
- Navigate Management > Create Replication Rule



- Choose the Bucket Created in another Region





Additional replication options

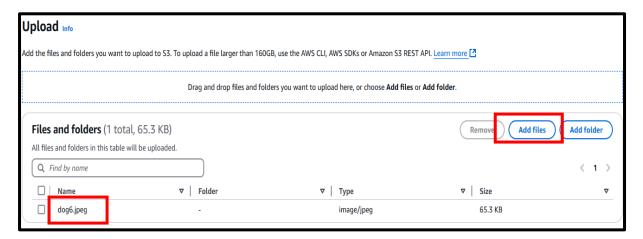
- Replication Time Control (RTC)
 Replication Time Control replicates 99.99% of new objects within 15 minutes and includes replication metrics. Additional fees will apply. Learn more
 - Click Save Changes

Now,

Click on source bucket - (source-buck09) > upload files

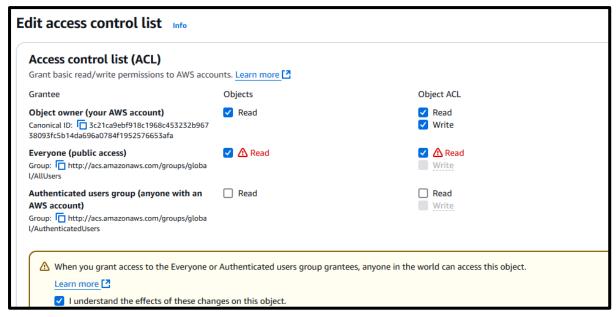


Add files



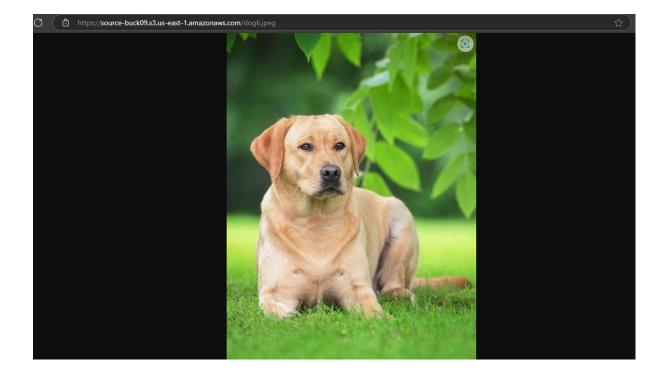
- Set the Object Permissions



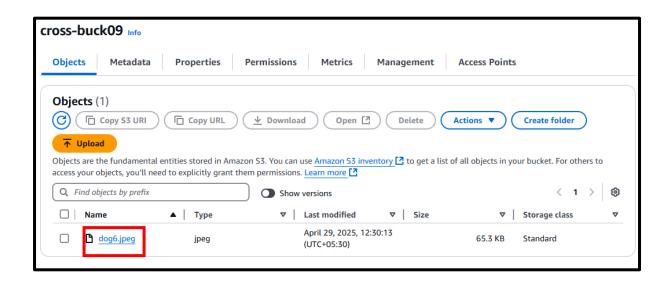


Click Save changes

Click object > copy Object URL > Access through Browser



- Check the destination bucket If file is replicated or not .



Copy Object URL and Verify it by accessing through browser

