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TOPIC:S3-cross region replication

Introduction of Simple Storage Service(S3)

- You can use Amazon S3 to store and retrieve any amount of data at anytime from anywhere on the web.
- It is designed for large-capacity, low-cost storage provision across multiple geographical regions.
- Amazon S3 provides developers and IT teams with Secure, Durable and Highly Scalable object storage.
- The volume and the number of objects that we can store in S3 are unlimited.

Process_of s3- cross region replication

• Enter S3 in search bar and click on "s3" option from the window as shown in the below fig.



Introduction of Bucket

- A bucket can be stored in one of several Regions.
- You can choose a Region to optimize for latency, minimize costs, or address regulatory requirements.
- Objects stored in a Region never leave the Region unless you transfer them out.
- Data in S3 is organized in the form of buckets.
- A Bucket is a logical unit of storage in S3.
- Before adding any data in S3 the user has to create a bucket which Bucket will be used to store objects.
 - Click on the "**create bucket**" option from the amazon s3 dashboard.



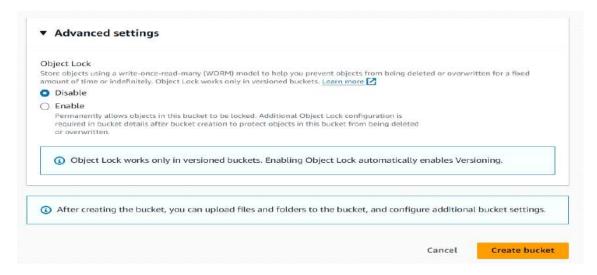
- Select any region like "mumbai"
- Give a unique "bucket name" as per the naming rule ie., "source2003"



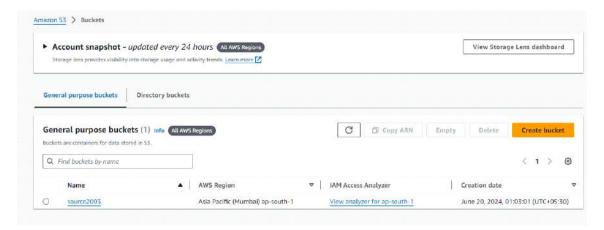
• Enable the "Bucket Versioning"



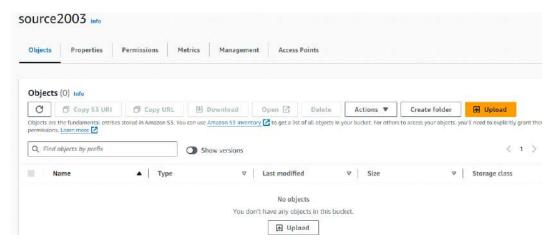
• Leave the rest fields as default then click on "Create Bucket".



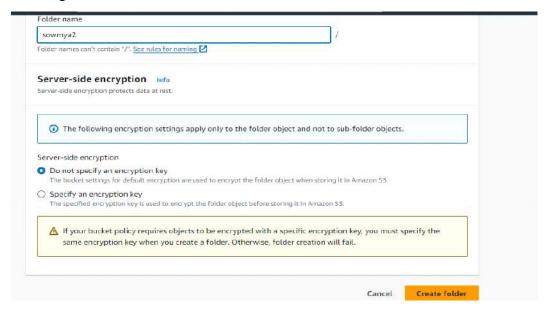
• After creation of bucket then Click on "source2003" bucket which was created



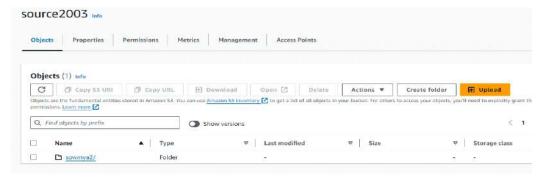
• now click on create folder



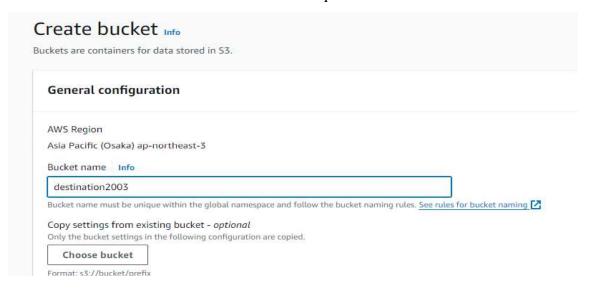
• give a folder name and clcik on create folder



• click on upload the folder, go to files and select a folder then upload it



- Similarly create another Bucket but on the different region which is "Osaka"
- click on create bucket
- Give the Bucket name which must be unique for the destination "destination2003"



- go to source bucket and click on it
- click on management and come down
- click on create replication rule "replica-1"



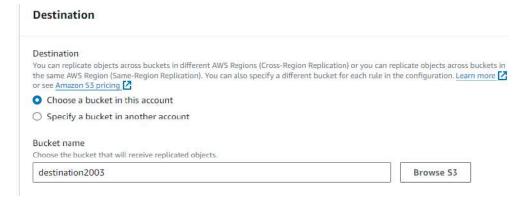
· give replication rule name



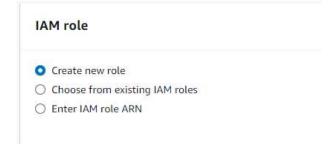
scroll down and choose a rule scope "Apply to all the objects in the bucket"



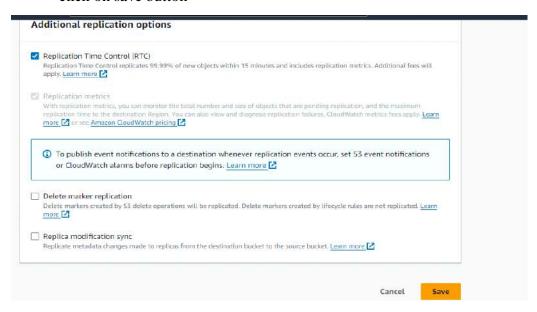
click on browse s3 and select destination bucket which we created "destination2003"



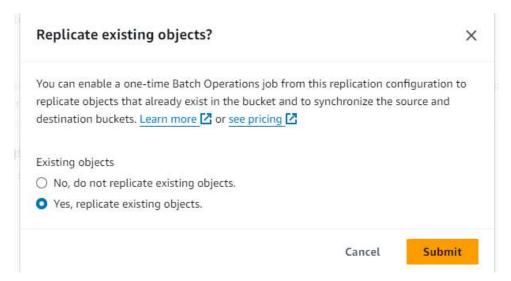
select create new role



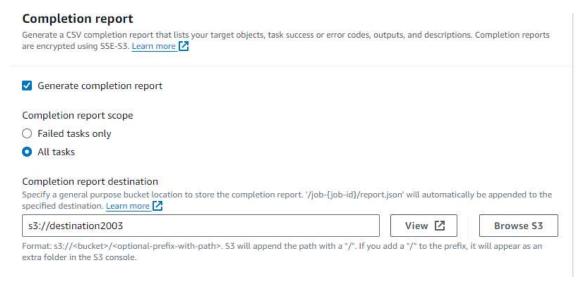
- In the additional replication options select "Replication time control (RTC)"
- click on save button



- In the replication exxisting objects we have to select "yes,replicate existing objects"
- click on submit



- We will redirect to the page of "Create Batch Operations job" under that, enable "automatically run the job when it's ready" option and enable the check box of "generate completion report". Select "All tasks" in completion report scope.
- Click on "Browse S3" button and select the "s3://destination2003" path which was created.



- In the permissions we need to select create new role
- · click on save



- we can the status as "Active"
- On click on "Destination 2003" to check the file has transferred



 The File which was uploaded in the source bucket was successfully transferred to destination bucket

