Date: 2/19/2022

Storage- About S3(Simple Storage Service)

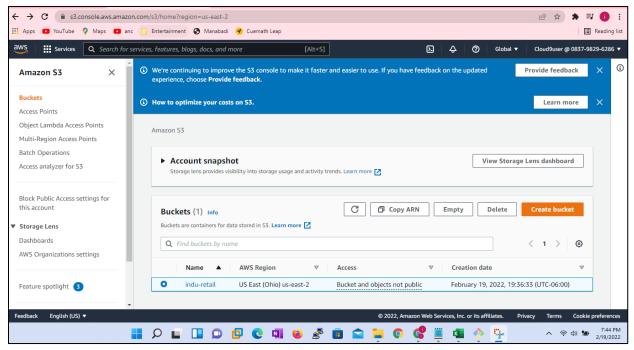


Figure 1Created bucket with name indu-retail

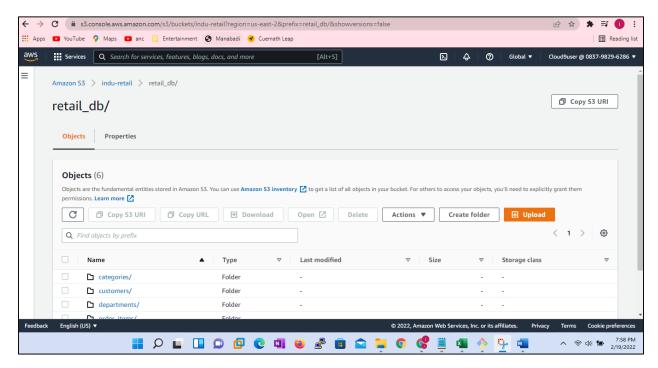
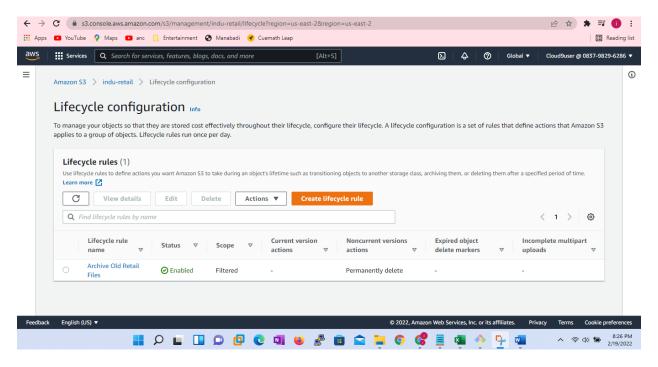


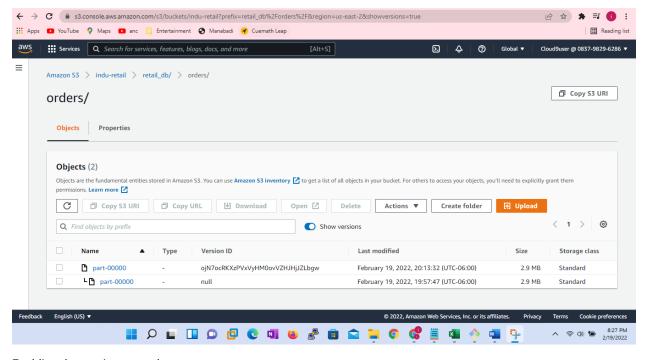
Figure 2Added folders/files as objects into bucket

Version Control in s3

Once versioning is enabled we can go to Management and add Life cycle rules. We will add a basic life cycle rule to delete previous versions older than 3 days.

- Click on Management then click on Create Lifecycle Rule.
- Name: Archive Old Retail Files

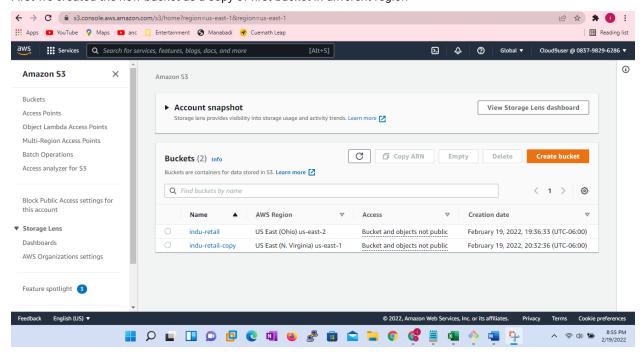




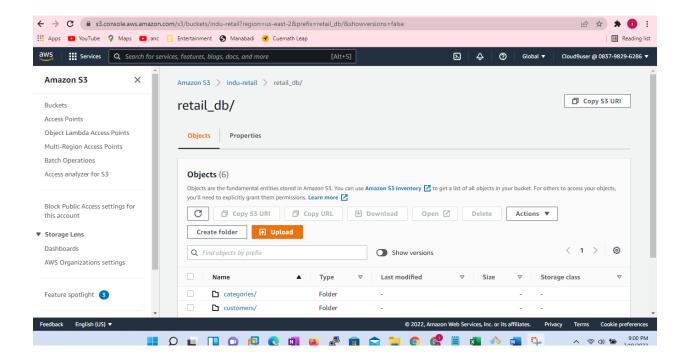
Enabling the version control

Cross Region Replication:

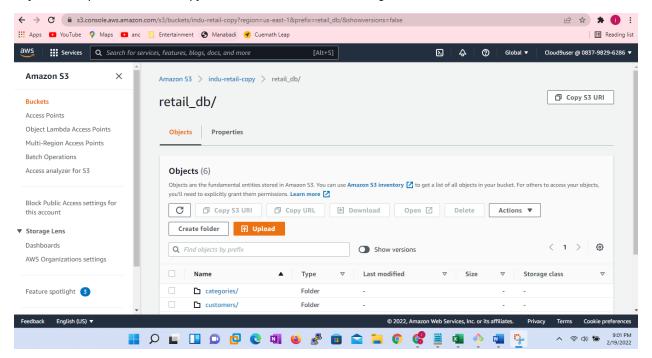
First we created the new bucket as a copy of first bucket in different region



- Create a role by the name AWSS3FullAccessRole with AmazonS3FullAccess policy.
- Go to the bucket (indu-retail in my case).
- Click on Management and go to Replication rules.
- Click on Create replication rule.
- Replication rule name: Retail replication
- Status: Enabled
- Choose a Rule Scope: Choose to Limit the scope of this rule using one or more filters
- Prefix: retail_db (all objects under retail_db will be replicated)
- Enter bucket name: indu-retail-copy
- Make sure to enable versioning on the destination bucket.
- Make sure to choose AWSS3FullAccessRole and click on Save.

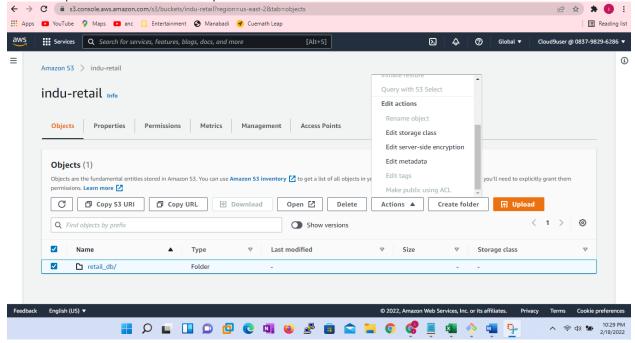


Objects are replicated into the copy of the bucket in different AWS region



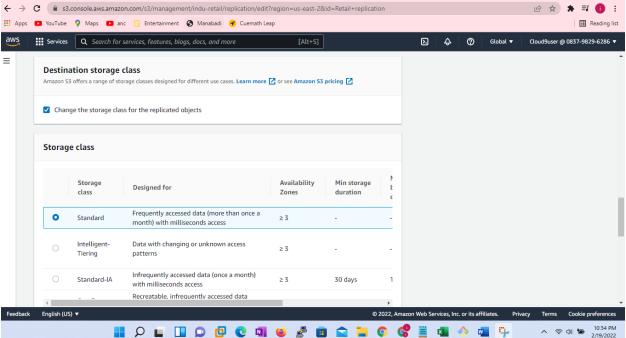
S3 Storage Classes:

- We can edit the storage class at the level of an object or folder. It is available under Actions.
- We can configure the storage class as part of the Replication Rule. It is useful when you are using replication for low-cost backup.



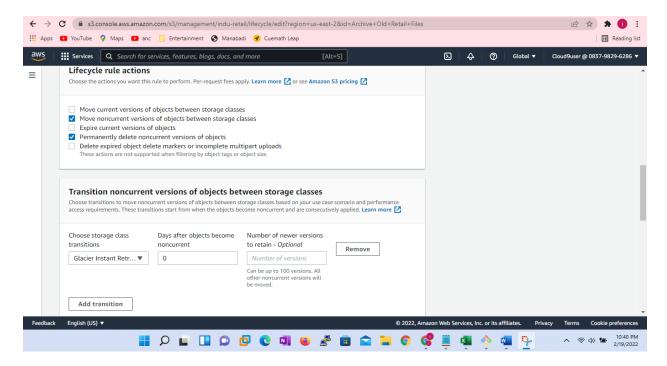
We can configure the storage class as part of the **Replication Rule**. It is useful when you are using replication for low-cost backup.

- Click on edit for replication rule.
- At the destination, change the storage class.



We can also configure the storage class as part of the Life Cycle. Update lifecycle rule **Archive Old Retail Files** as follows.

Change the storage class of noncurrent versions to Glacier with 0 days.



Managing Objects in S3 using CLI - Lab

Copy all the folders along with files in the retail_db folder from the local file system to s3. Make sure to copy these folders along with the files in them

```
.Command.frompt
:\Daws configure
WS Access Key ID [**********ANX6]: AKIARHANEQ3PCD5SANX6
WS Secret Access Key [*************d/na]: 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
efault region name [us east]: us-east-2
efault output format [None]:
::\>aws s3 ls s3://indu-retail
PRE retail_db/
:\>aws s3 ls s3://indu-retail --summarize
PRE retail_db/
otal Objects: 0
Total Size: 0
 :\>aws s3 ls s3://indu-retail/retail_db --summarize
PRE retail_db/
 \text{`\aussigned \text{`\aussigned \text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texitext{\text{\text{\text{\texitex{\text{\texict{\text{\text{\text{\text{\texitex{\text{\text{\text{
  tal Objects: 7
Total Size: 9792712
                                                    🔡 🔎 🔲 🔲 🔘 👨 😨 🗐 🐞 🧬 📵 😭 📮 🌀 🕵 🗒 👊 🚸 👊 📼 🖫 🔥 🧥 🖘 (a) 🖢 2/20/2022
  C:\>aws s3 ls s3://indu-retail/retail db --summarize --recursive --human-readable
  2022-02-19 20:52:56
                                                                                    1.1 KiB retail_db/categories/part-00000
  2022-02-19 20:52:57 943.5 KiB retail_db/customers/part-00000
  2022-02-19 20:52:57
                                                                              66 Bytes retail_db/departments/part-00000
  2022-02-19 20:53:00
                                                                               5.3 MiB retail db/order items/part-00000
  2022-02-19 20:53:03
                                                                               2.9 MiB retail_db/orders/part-00000
  Total Objects: 7
             Total Size: 9.3 MiB
```