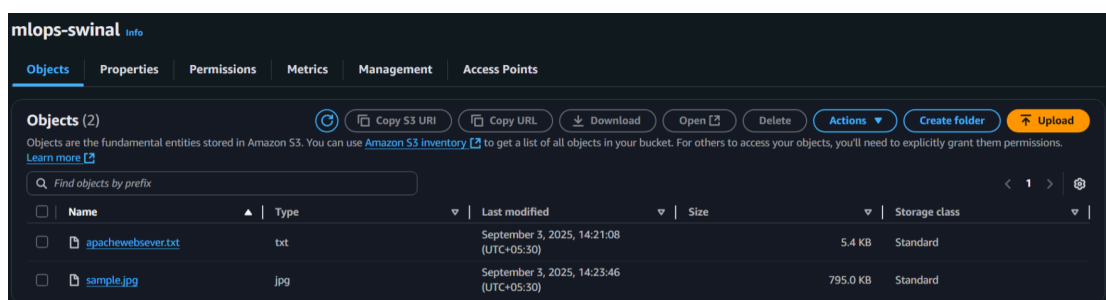# Lab S3 Bucket - Presigned URL, Versioning & Replication
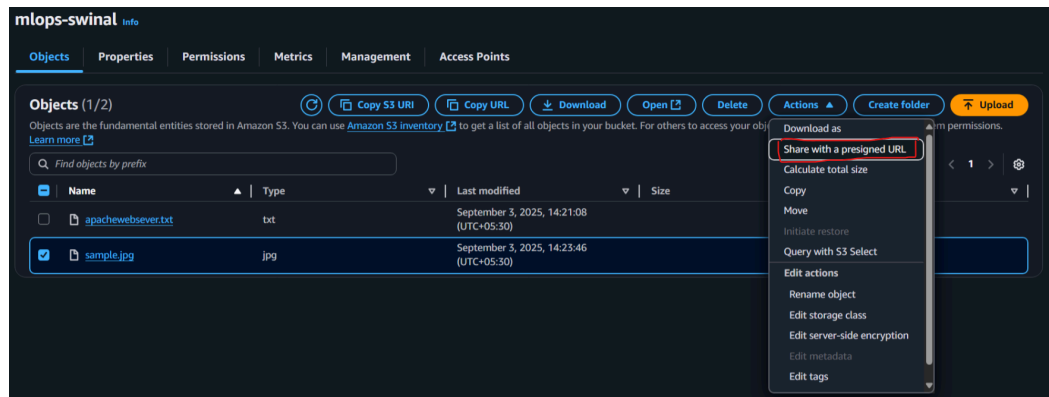
| Date	@September 3, 2025
Multi-select	S3 S3-Replication S3-Versioning Temp-Access
Status	Done

▼ Presigned URL

- Create a bucket `mlops-swinal` with all default settings.

- Upload an `image` and a `text file` inside the S3 bucket.

- Share the object using **Presigned URL**:

  - Click on the object → click on `Actions` → select `Share with presigned URL` .

- Using this **Presigned URL** , we can access both the image and the text file.
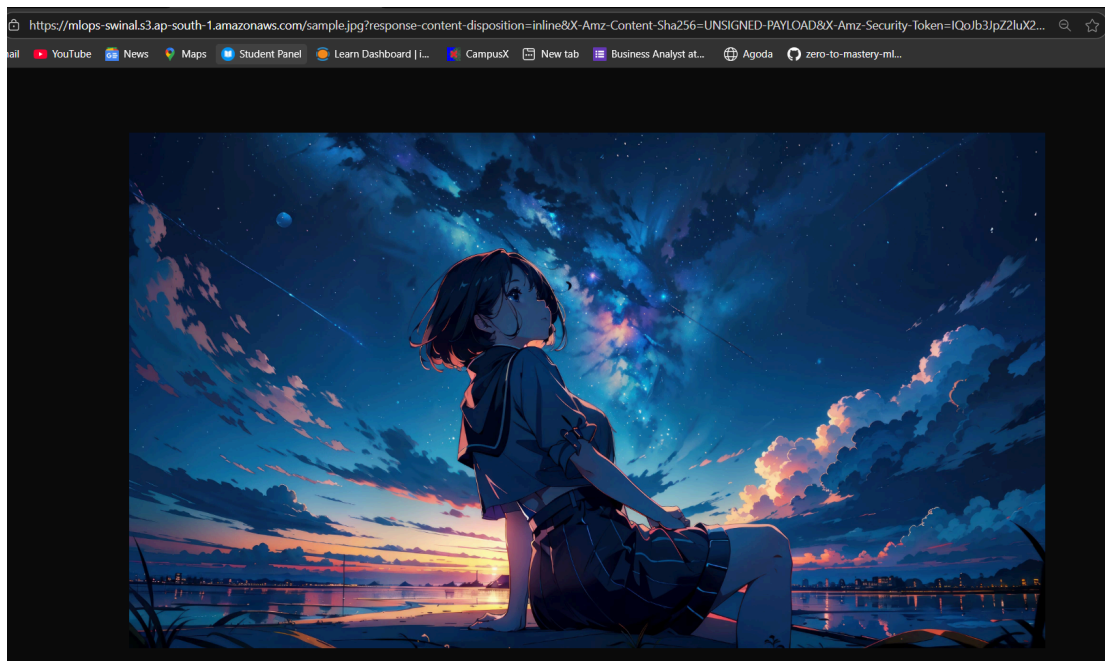
```
What It Does
A web server is software that delivers web pages to users' browsers when they request them (e.g., by visiting a

Apache listens for HTTP (or HTTPS) requests and responds with the requested content â€" such as HTML pages, ima



sudo su - # to switch root user

su - ec2-user #to login as a particular user

yum install httpd -y

systemctl start httpd     #to start the apache web server
systemctl stop httpd      #to stop the apache web server
systemctl restart httpd   #to restart the apache web server

CD    # change directory

default path of apache webserver is /var/www/html

cd /var/www/html

vi index.html
```
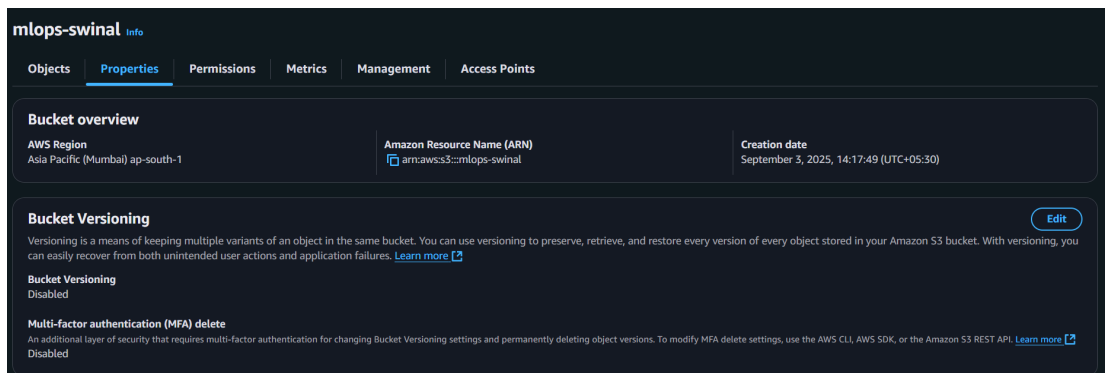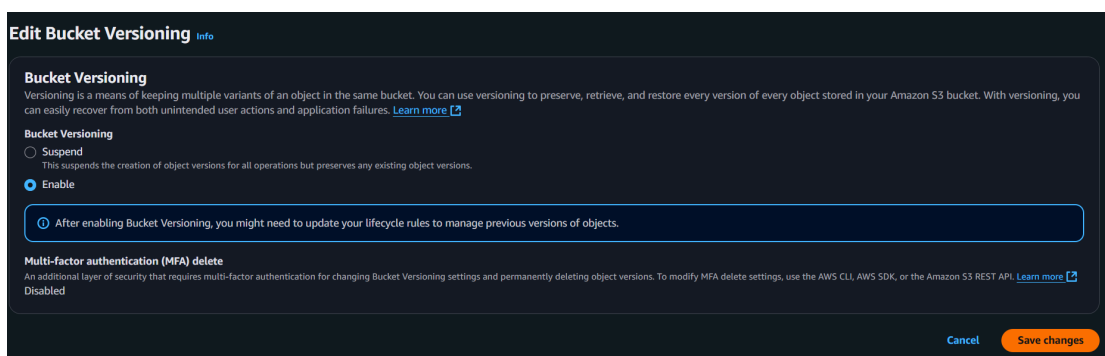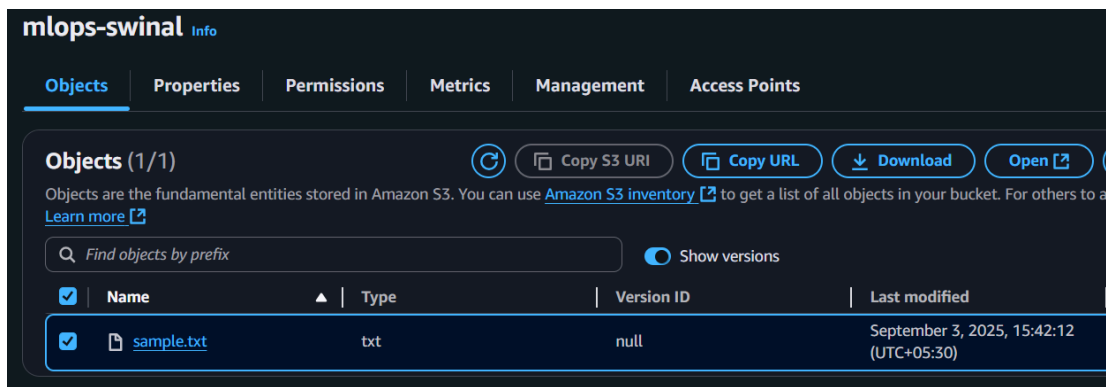
▼ Versioning

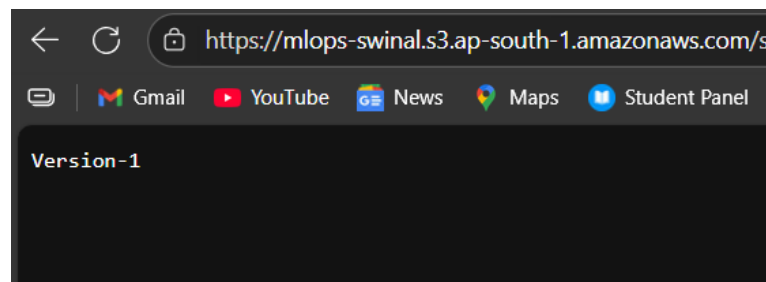- First, we need to enable versioning. To do this, go to the S3 bucket `Properties` tab.

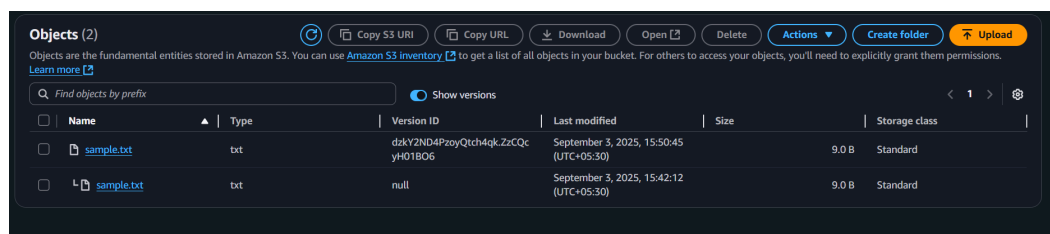- Click Edit, enable the versioning and click `Save changes`

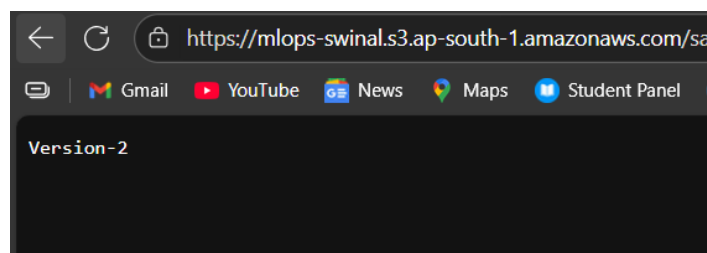- Now, upload a file with the name `sample.txt` .

- Inside this file, the content looks like this:

- If we upload another file with the **same name** but with modified content, S3 will keep both versions.
  - To view versions, click on the file and enable the **Show versions** toggle.
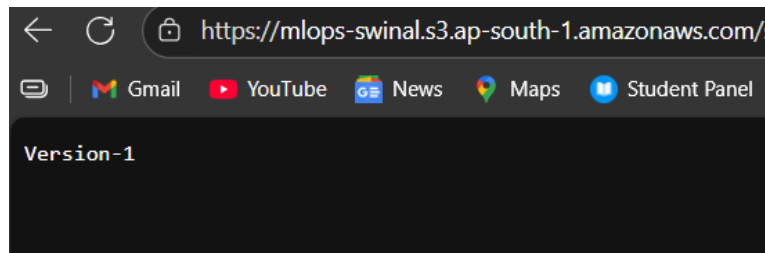

  - The top entry will be the **latest version** (the updated file). We can still access it using a `presigned URL` .

- If we want to roll back to the previous version, we can delete the current version.
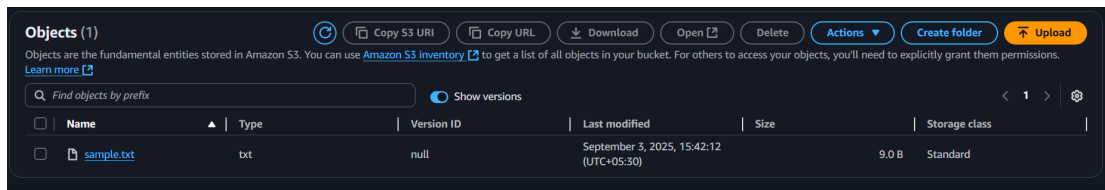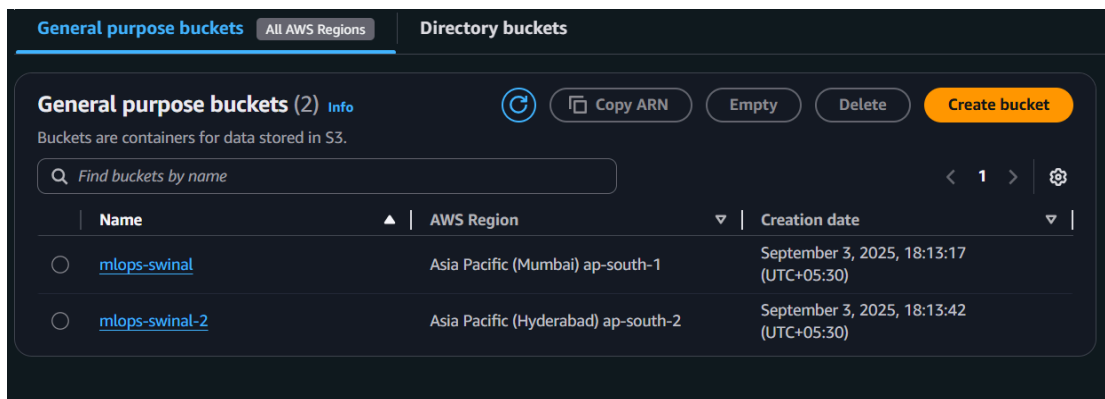

- After deletion, if we access the file, it will show the **previous version**.


▼ Replication

- Create two buckets in **different regions**:
  - Source bucket: `mlops-swinal`
 - Destination bucket: `mlops-swinal-2`

- We want to replicate the `mlops-swinal` bucket into the `mlops-swinal-2` bucket.

- To do this, go to the **source bucket (** `mlops-swinal` **)** → **Management tab** → **Create replication rule**.

- While creating the replication rule, provide:
  - **Replication rule name** → e.g., `something`
  - **Choose a rule scope** → replicate **all objects**
  - **Destination** → `mlops-swinal-2`
  - **IAM role** → `Create new role`
  - Leave everything else as default → click **Save**
- You'll see a pop-up asking *"Replicate existing objects?"*.
  - Select **No, do not replicate existing objects**.
  - The replication rule is now created.
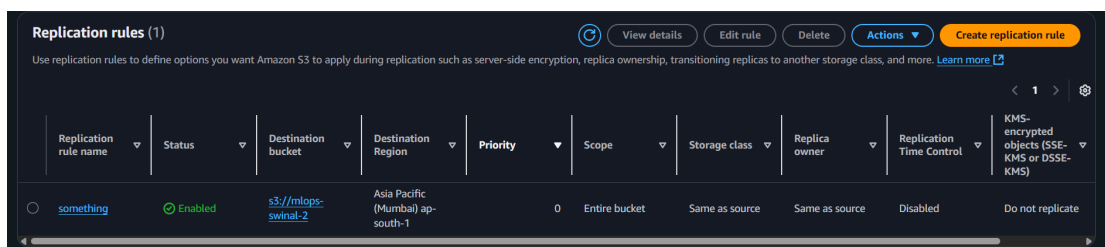
- From now on, if we upload any file to the `mlops-swinal` bucket, it will automatically appear in the `mlops-swinal-2` bucket.
- Example: Upload `Base Model.ipynb` and create a folder named `temp` in `mlops-swinal`.
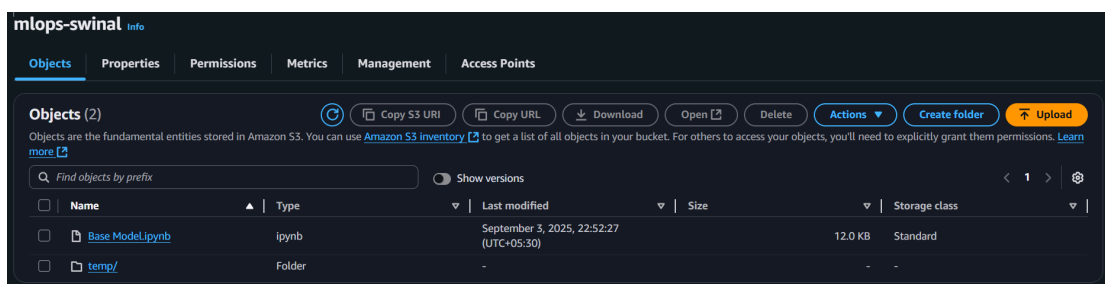
- The same file and folder are now visible in the `mlops-swinal-2` bucket in another region.
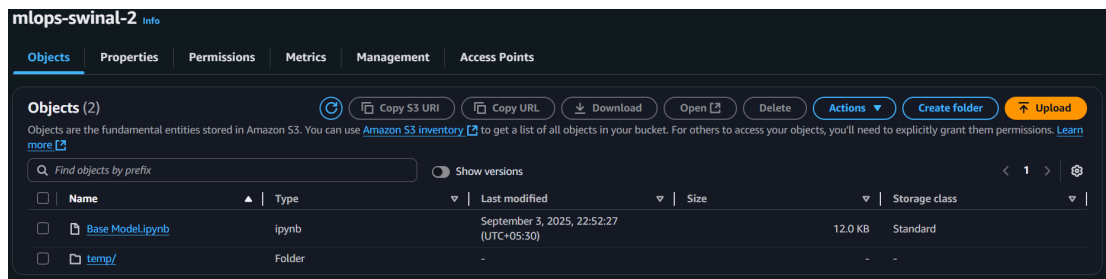
- This ensures **high availability across regions**.