Practical 3

Cloud Computing

2CSDE67

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20BCE515

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AIM:

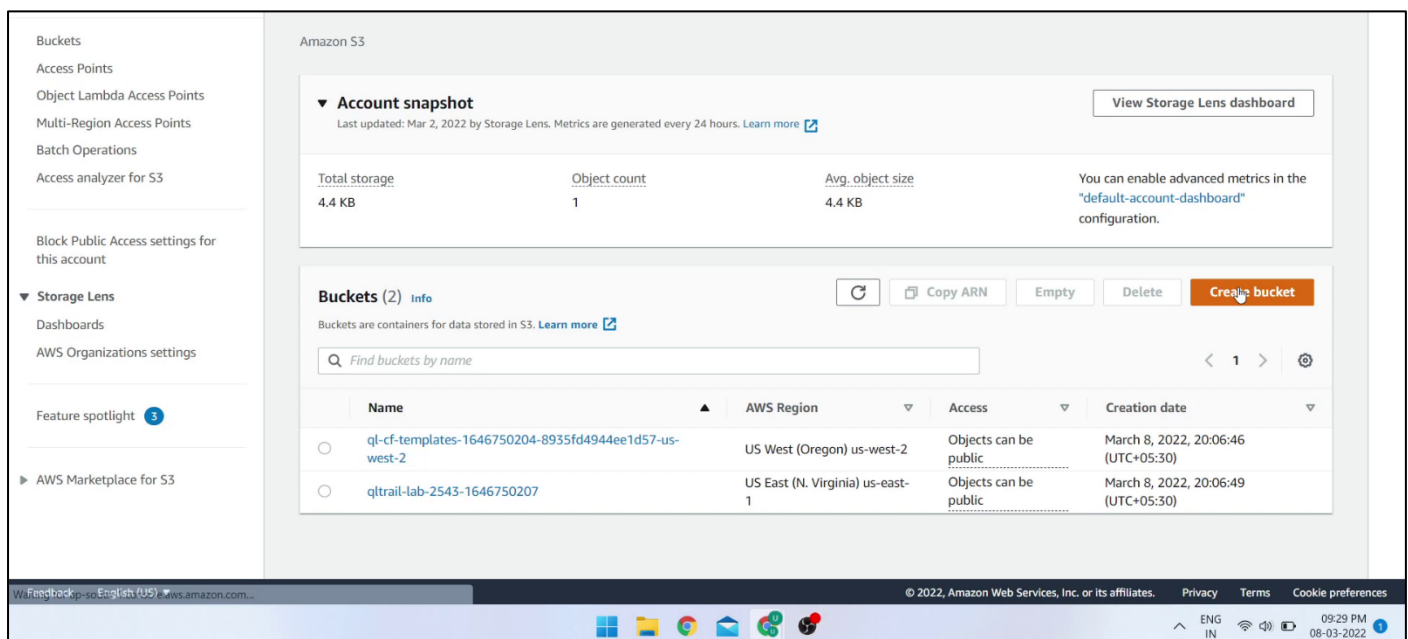**Implementing versioning in AMAZON S3**

Versioning:

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures.

For auditing and compliance reasons you need to enable versionsing on your reportbucket. Versioning should protect the reports in the reportbucket against accidental deletion. You are curious to see if this works as advertised. In this task, you enable versioning and test the feature by uploading a modified version of the sample-file.txt file from the previous task.
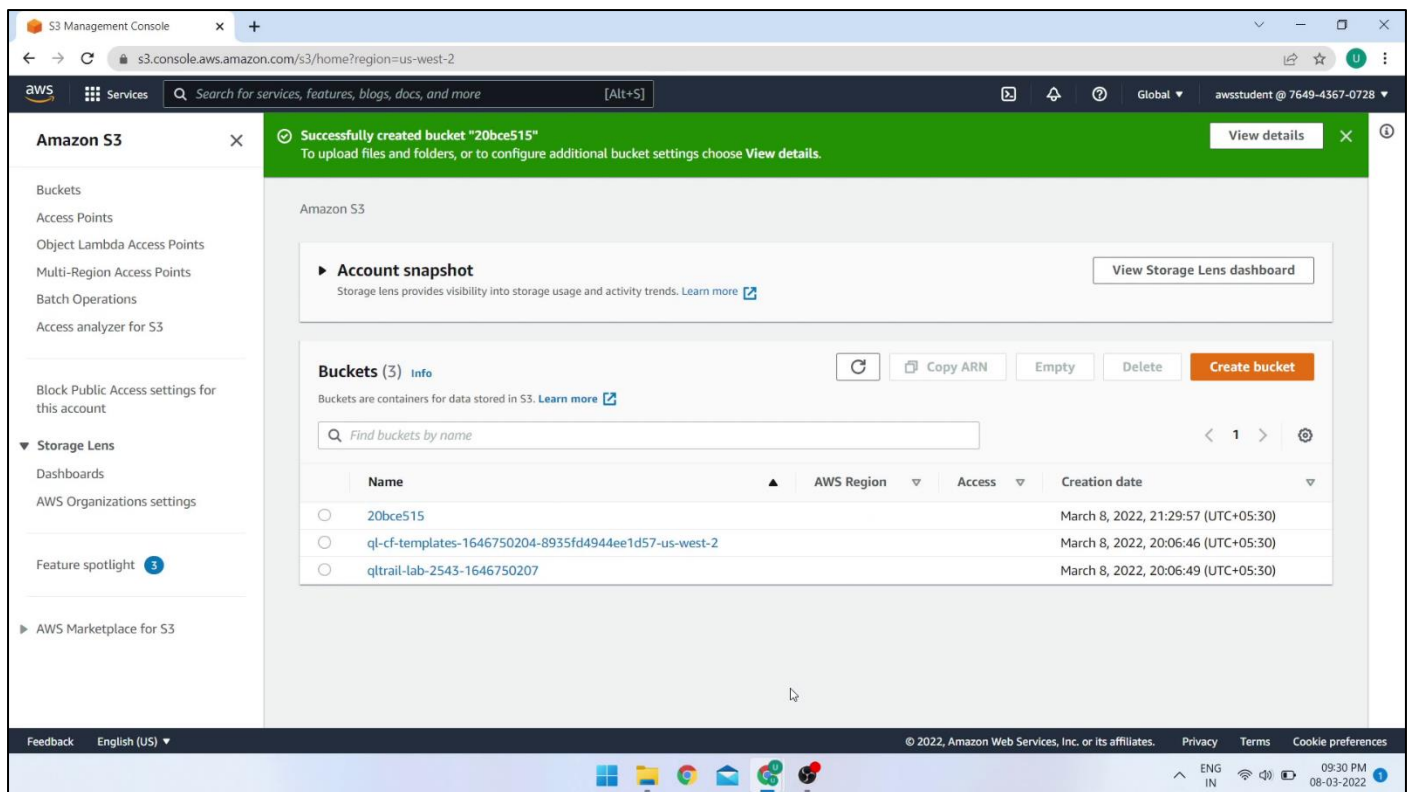
➢ **Performing Versioning:**

After login in aws console we will select S3 services. Then we will create a bucket and implement versioning on it.
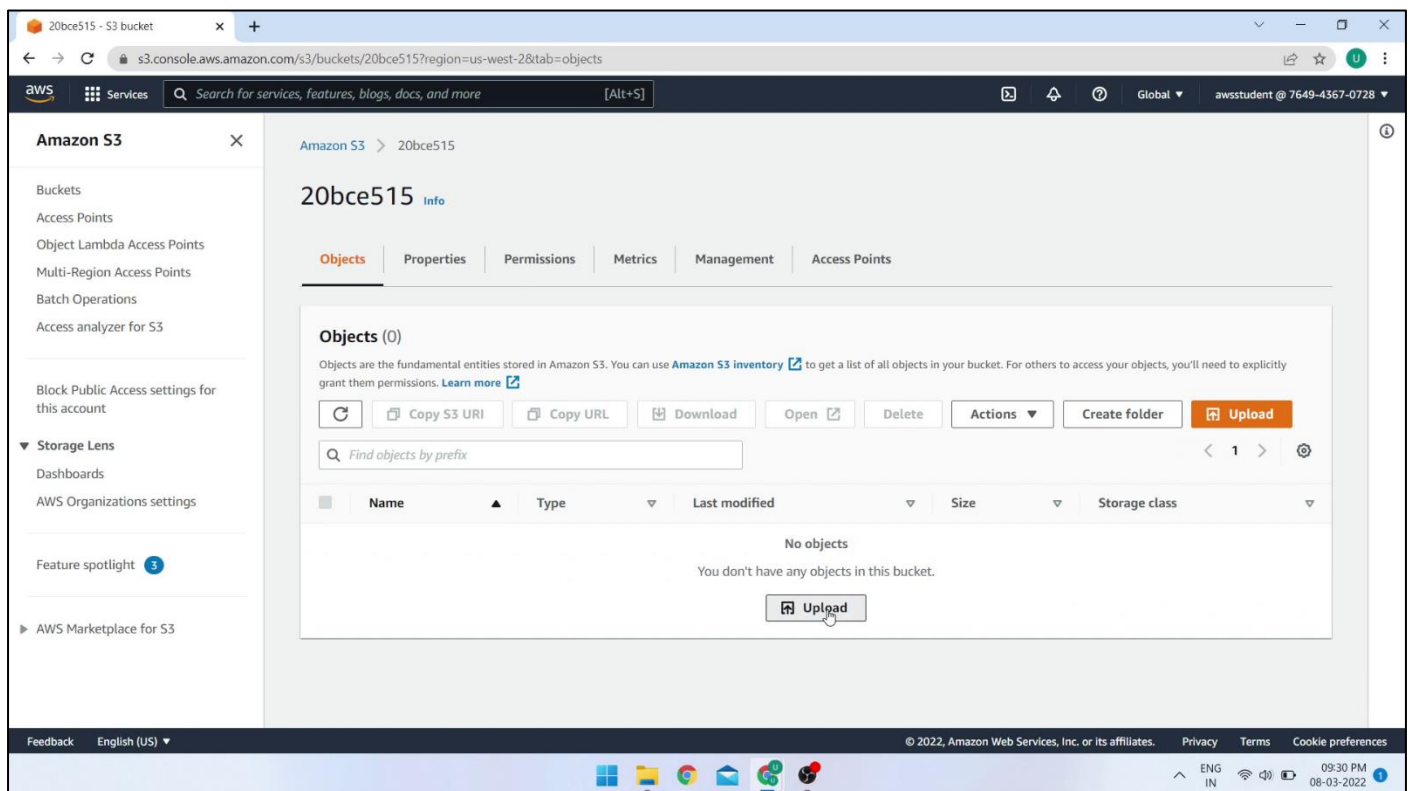
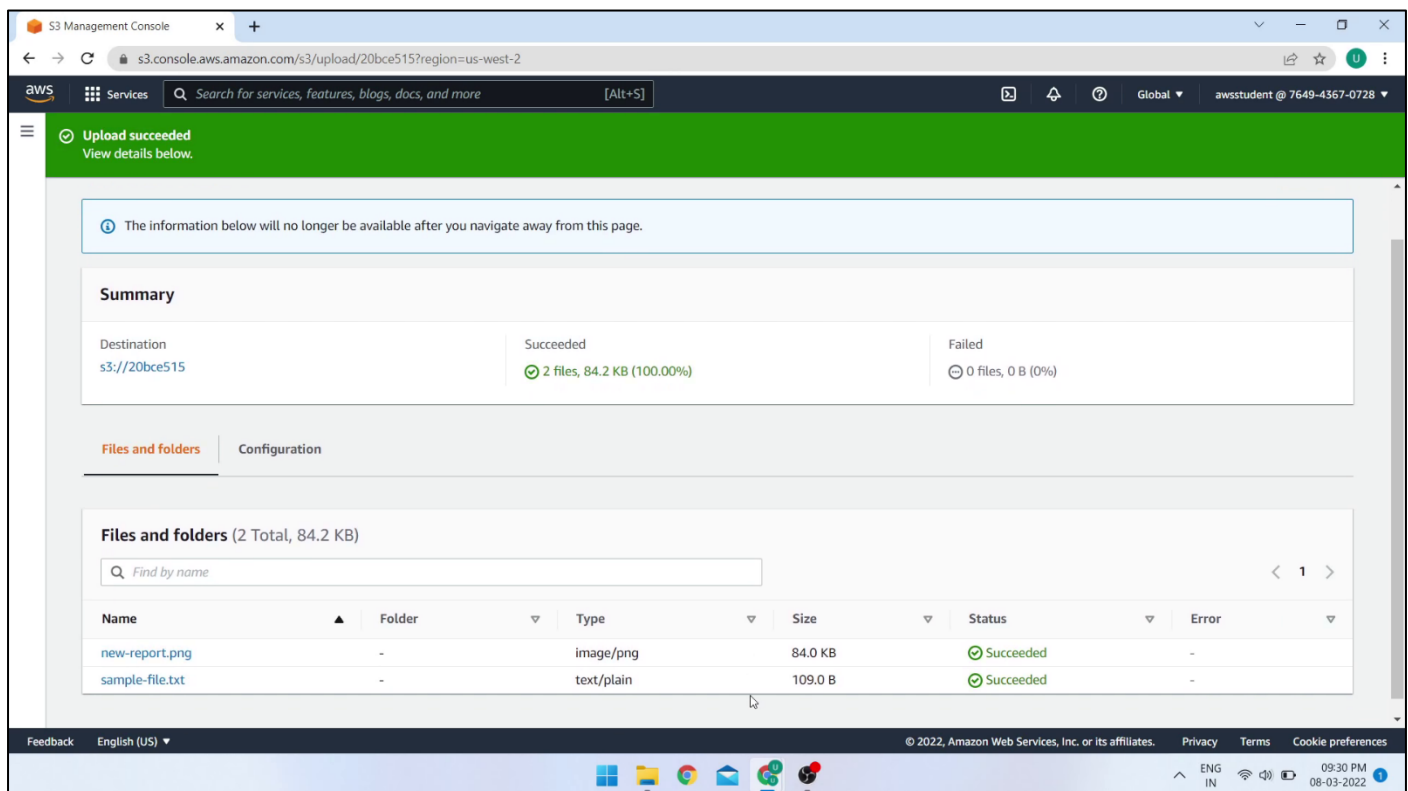➢ **Creating new bucket named 20bce515:**

> **Adding 2 files- one image and one text file in created bucket.**
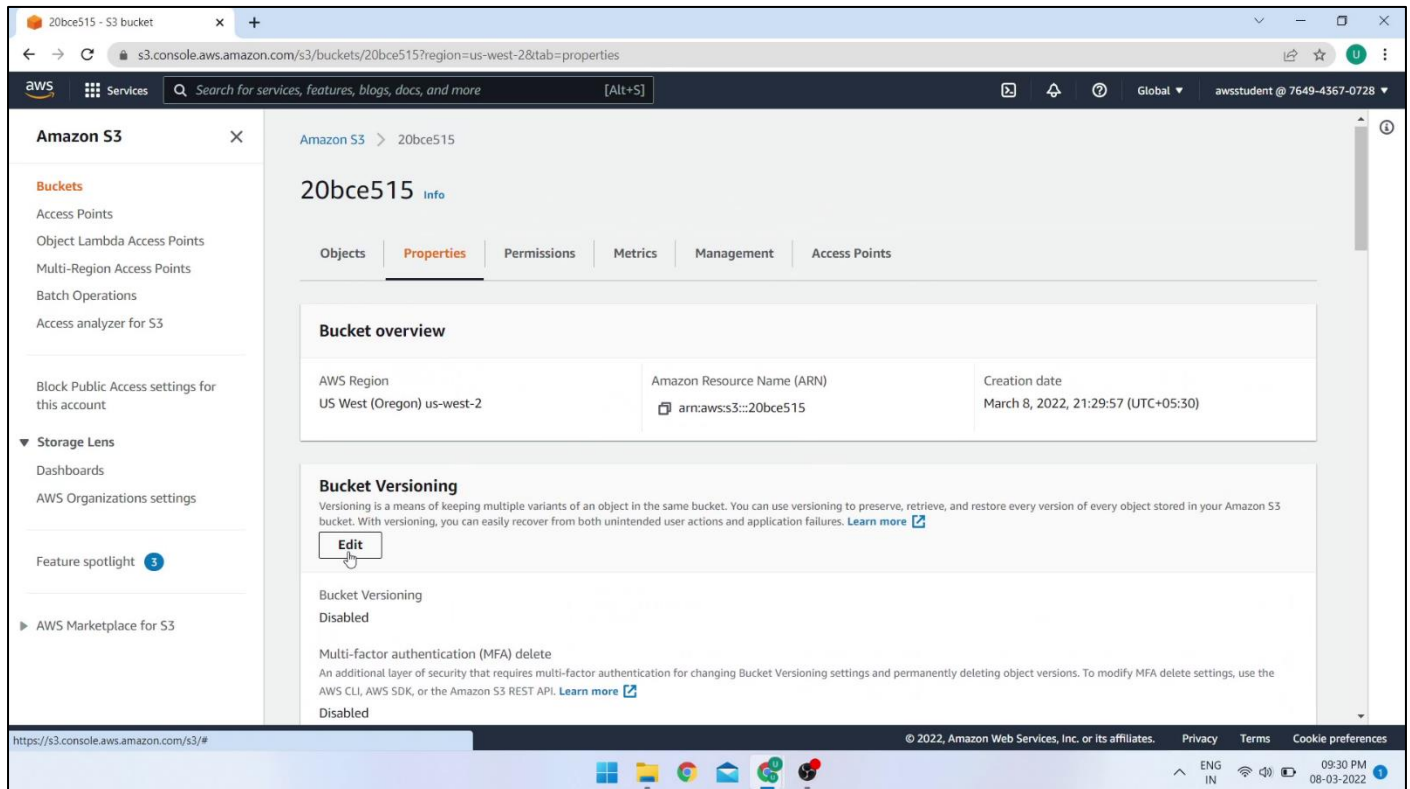
o Uploading files
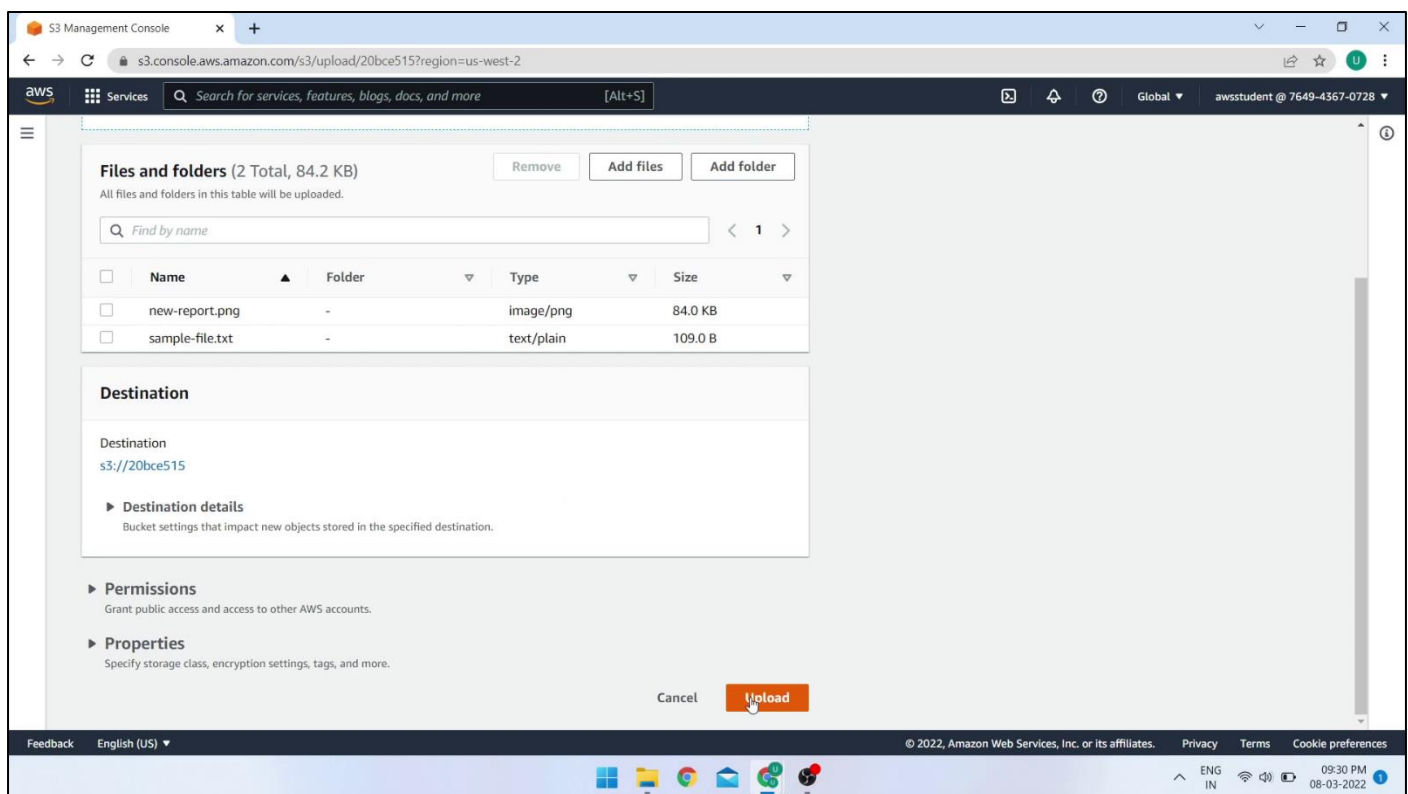
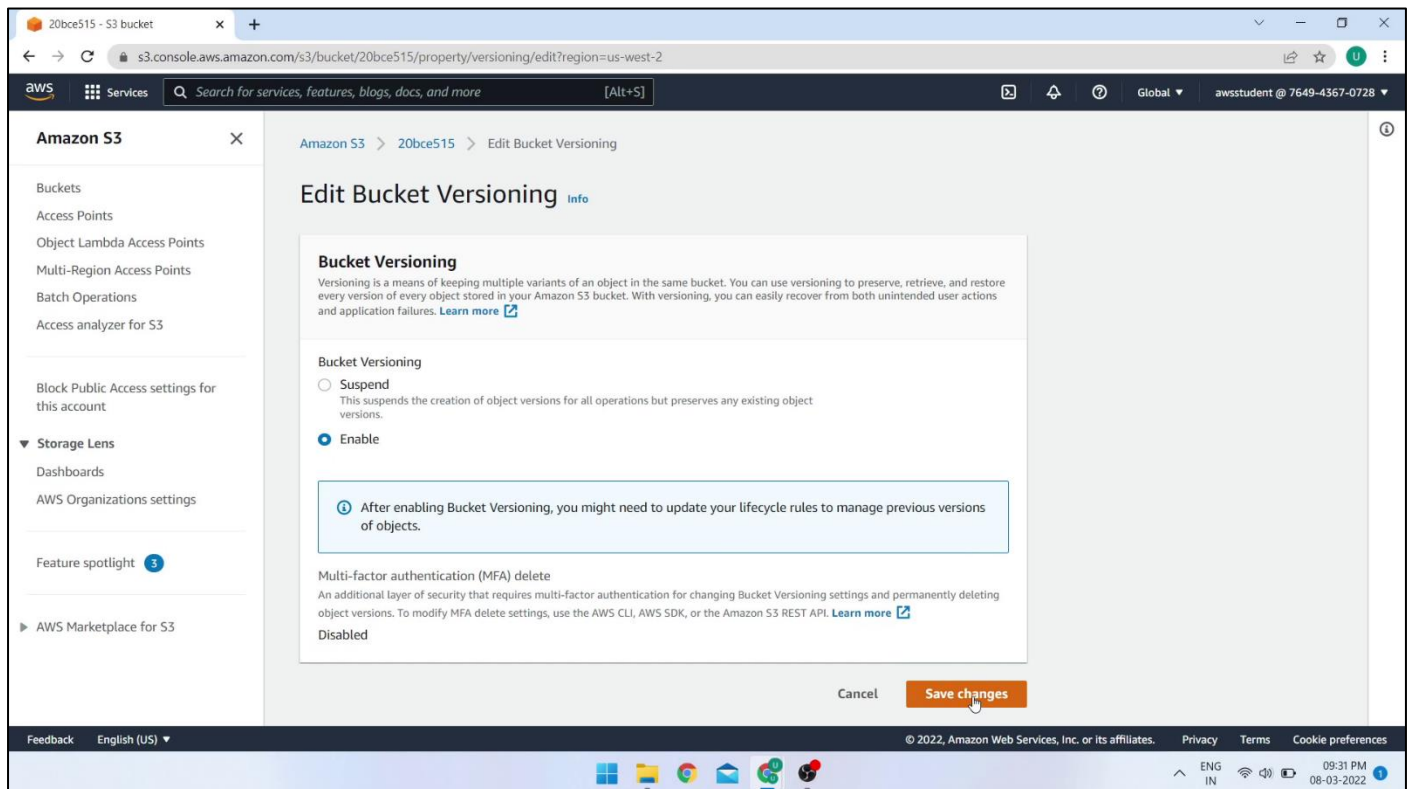o Files successfully uploaded

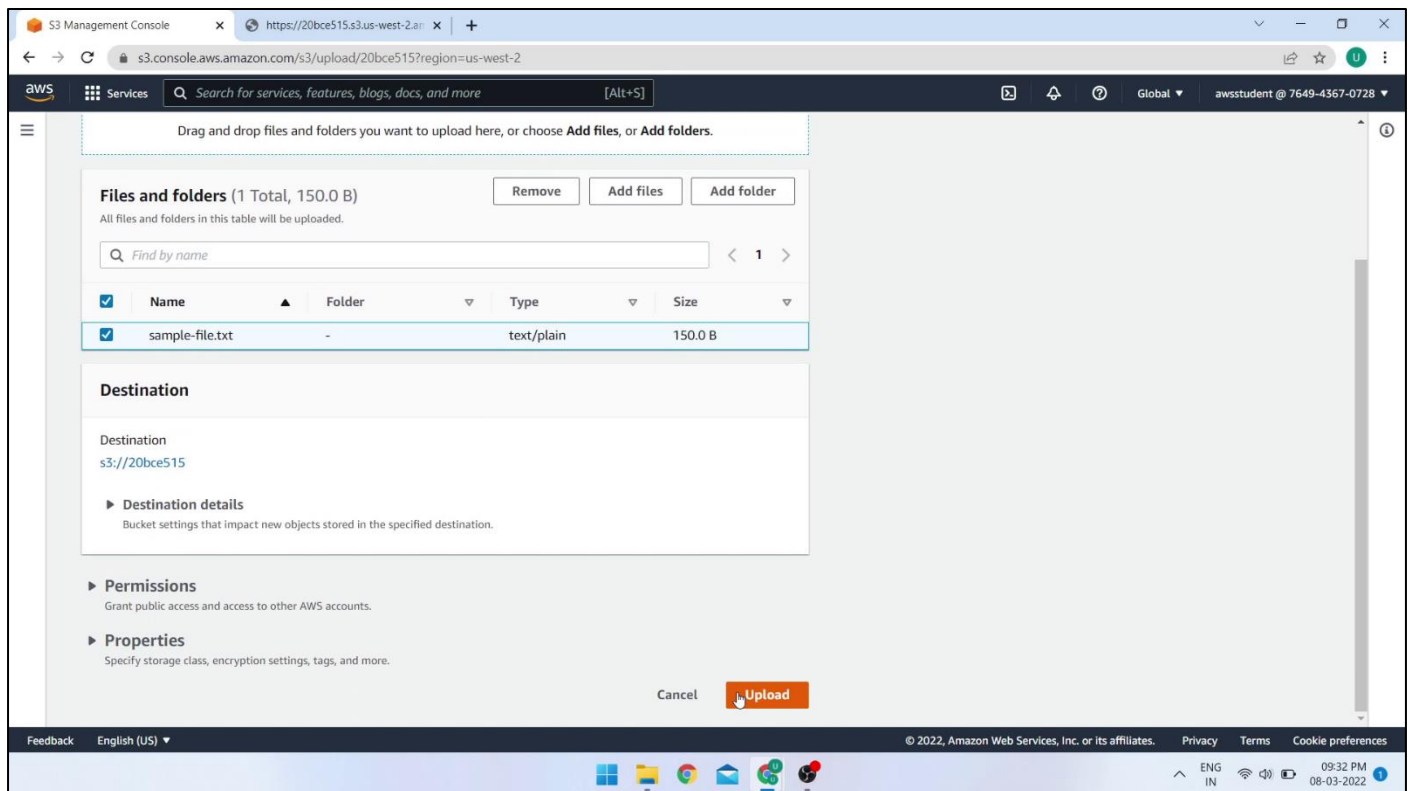➤ **Enable Bucket Versioning:**

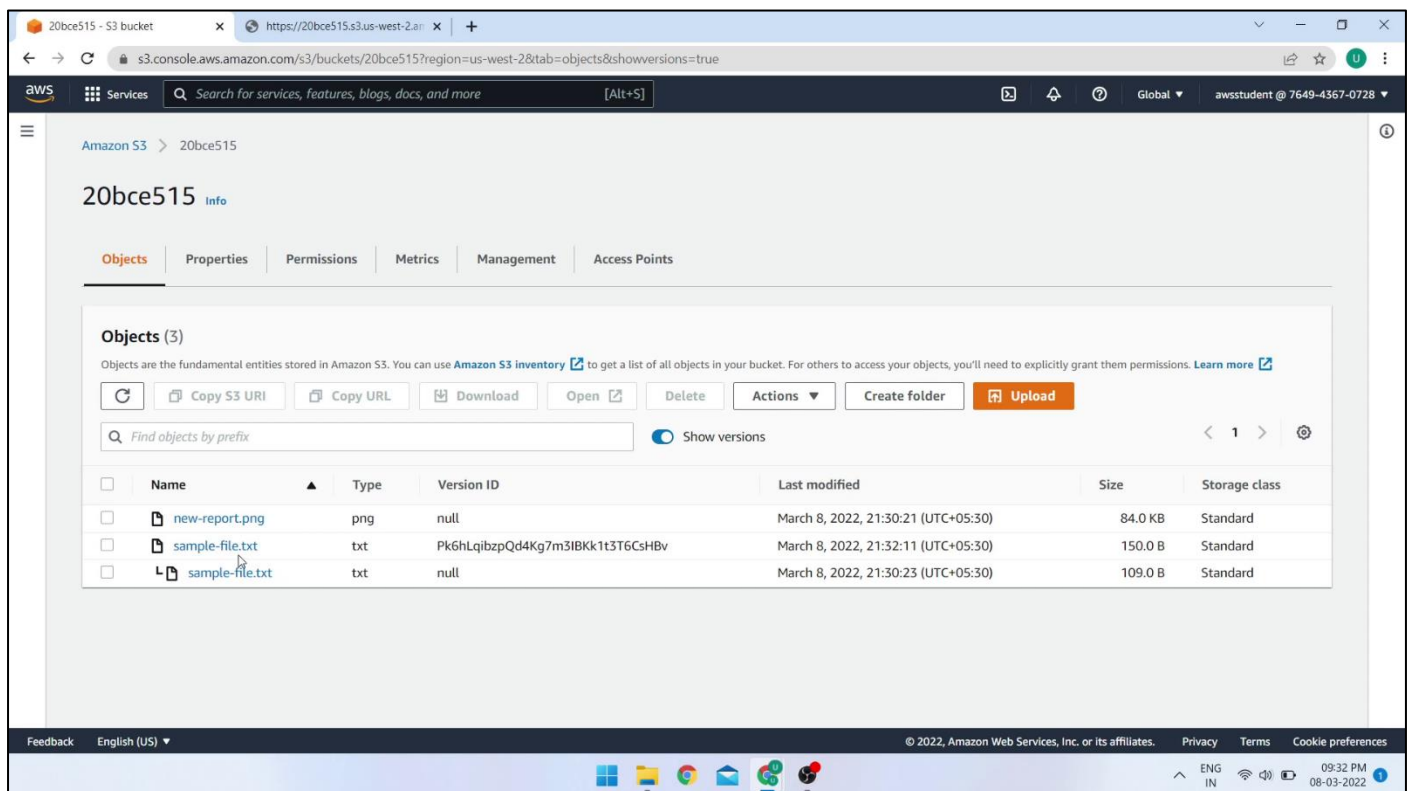Amazon S3 -> BucketName -> Properties -> Bucket Versioning

o Enable bucket version after going into edit

➢ **Now, we will modify the sample-file.txt and reupload it in the created bucket.**

➢ **Under Objects section, toggle the show versions:**

- o Check the version id.
- o The newer files will have the version id. While the older files version will be null.
- o The new-report.png was uploaded before turning on the versioning, hence it is showing null in version id.
- o Deleted items can also be recovered by versioning.

➢ **Delete new-report.png:**

- o The deleted files has delete marker in type.
- o The deleted files can be recovered.
- o To permanently delete a file, click on delete on already deleted item and then type permanently delete in confirmation box.
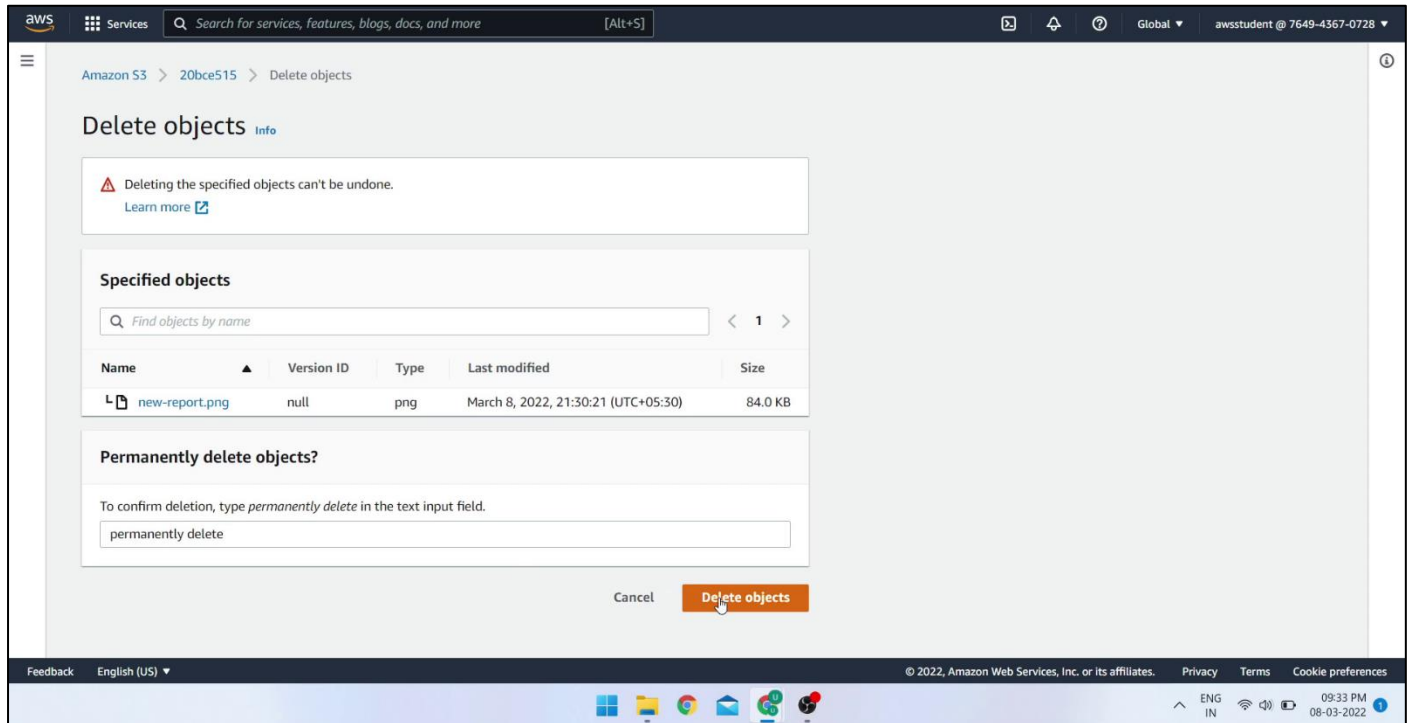
- o This will permanently delete the file.
- o Now that file doesn't exists in bucket and can't be recovered.
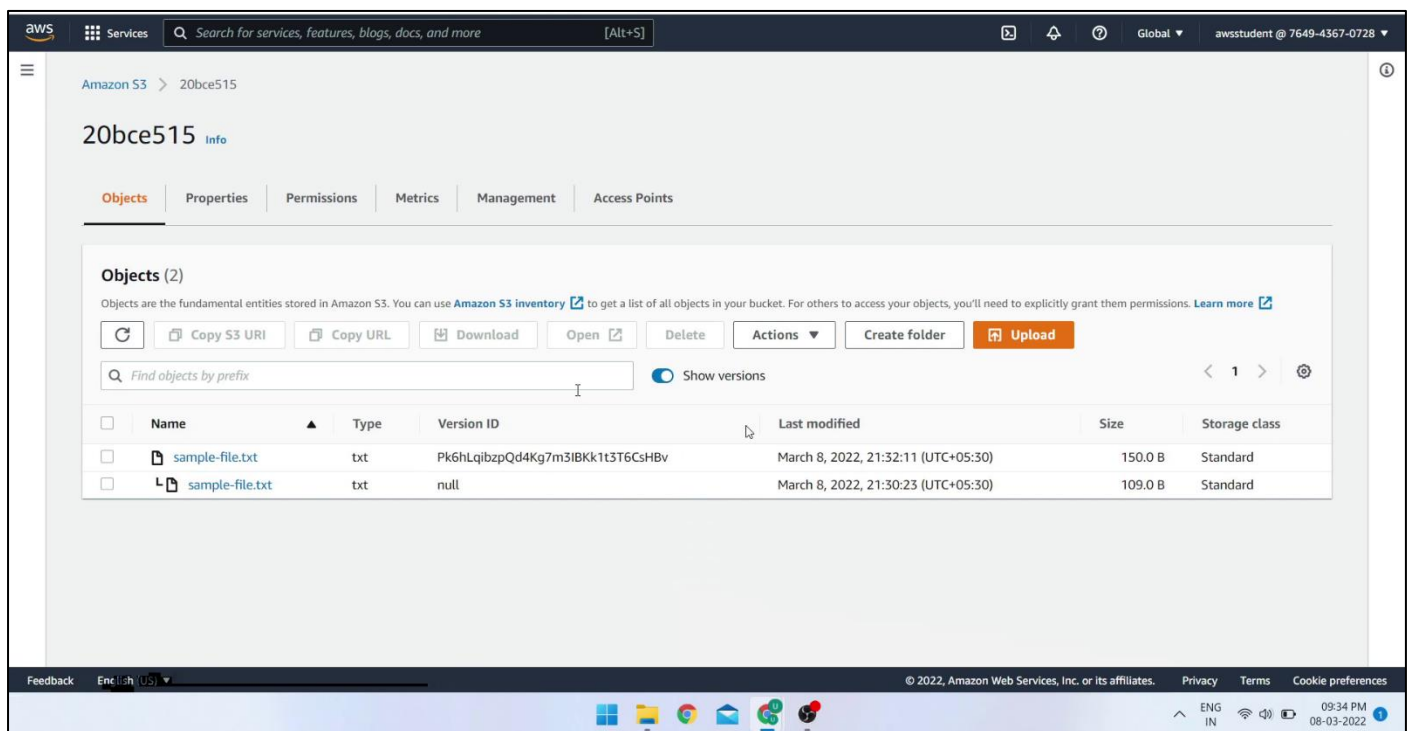
Conclusion:

From this practical, we learnt how to perform Versioning in Amazon S3.