

Practical 3
Cloud Computing
2CSDE67

Mistry Unnat
20BCE515

Date
March 8, 2022



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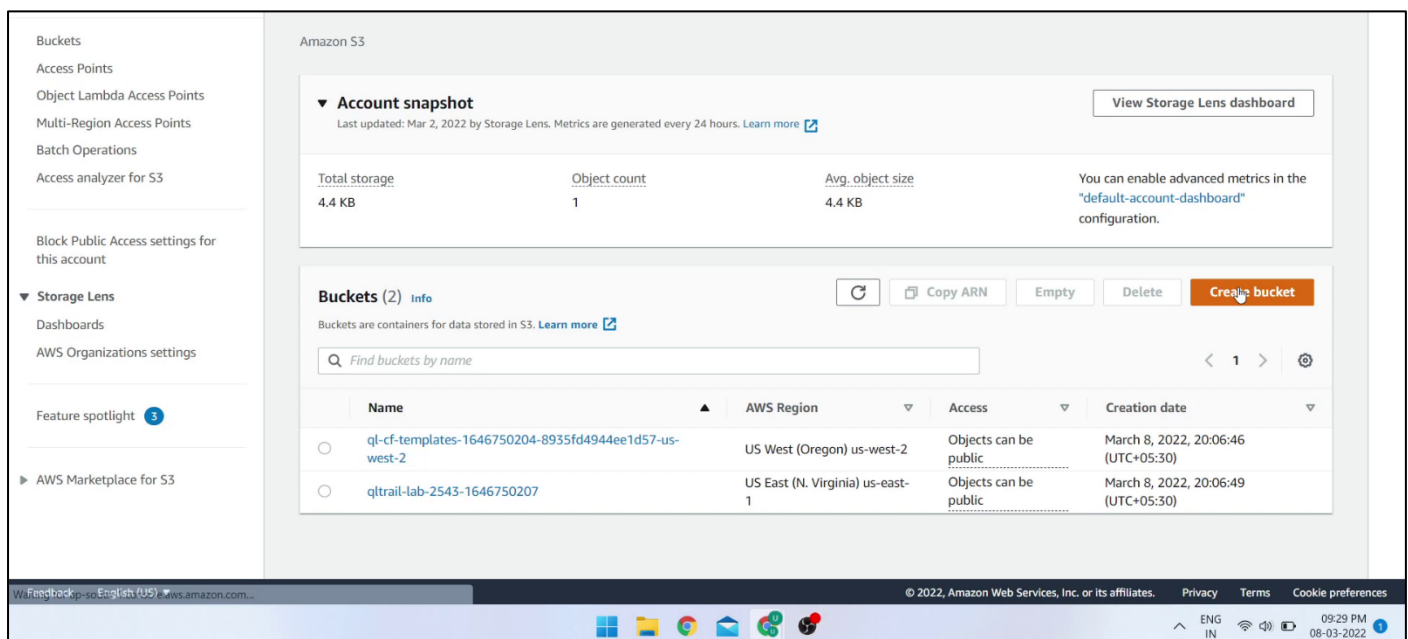
AIM:**Implementing versioning in AMAZON S3****Versioning:**

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 versioning 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.

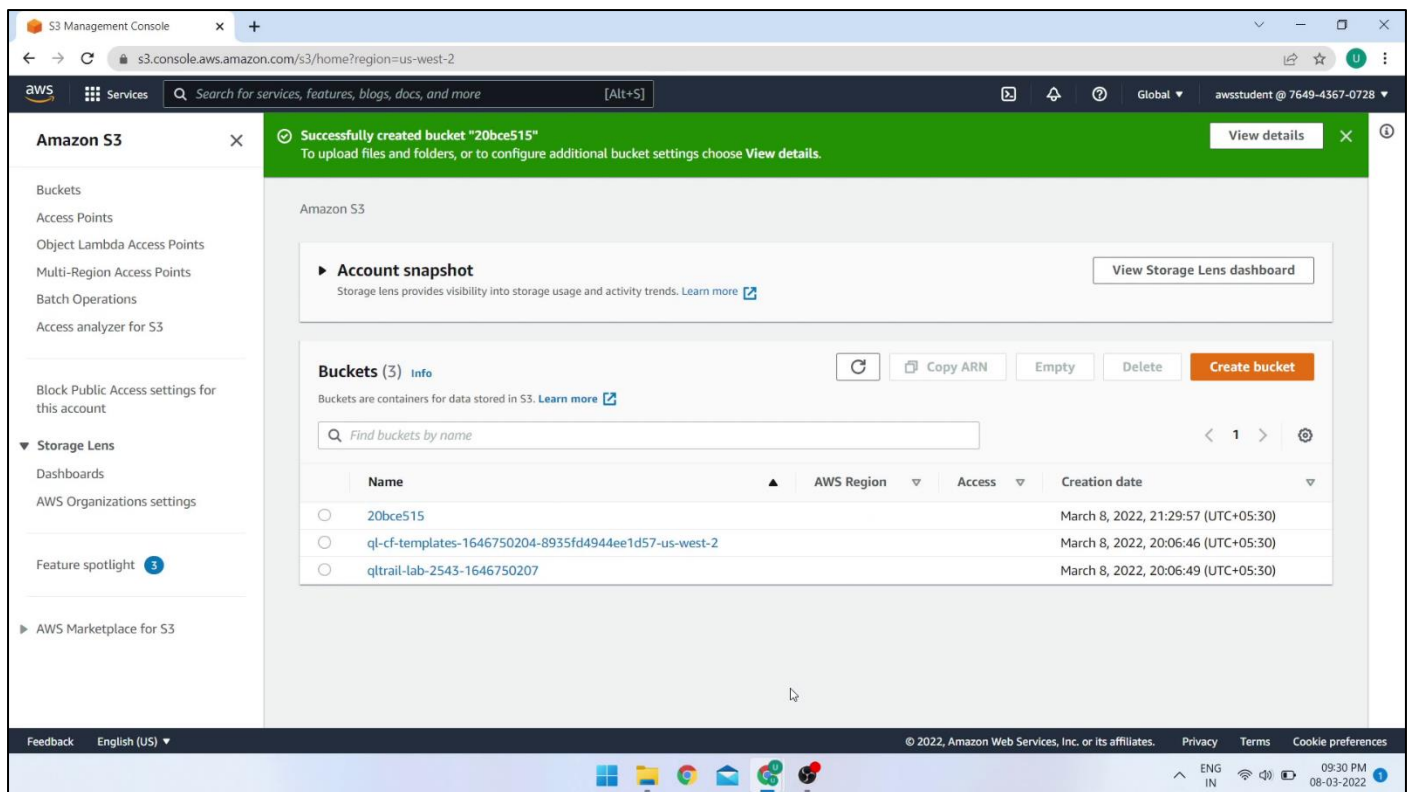
➤ Performing Versioning:

After login in aws console we will select S3 services. Then we will create a bucket and implement versioning on it.

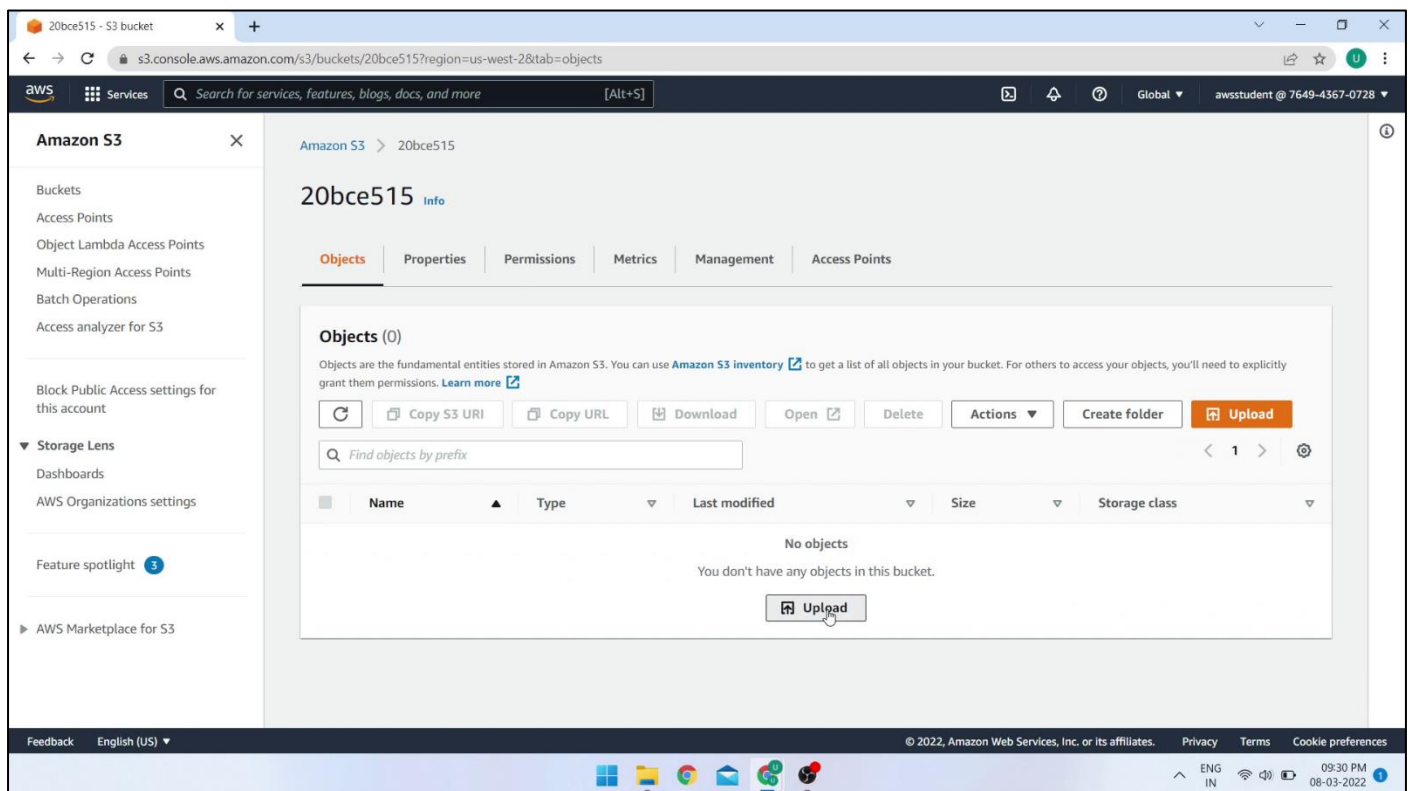
➤ Creating new bucket named 20bce515:

The screenshot shows the Amazon S3 console interface. On the left is a navigation sidebar with options like Buckets, Access Points, and Storage Lens. The main content area is titled 'Amazon S3' and features an 'Account snapshot' section with metrics: Total storage (4.4 KB), Object count (1), and Avg. object size (4.4 KB). Below this is the 'Buckets (2)' section, which includes a search bar and a table of existing buckets. A 'Create bucket' button is prominently displayed in the top right of the buckets section.

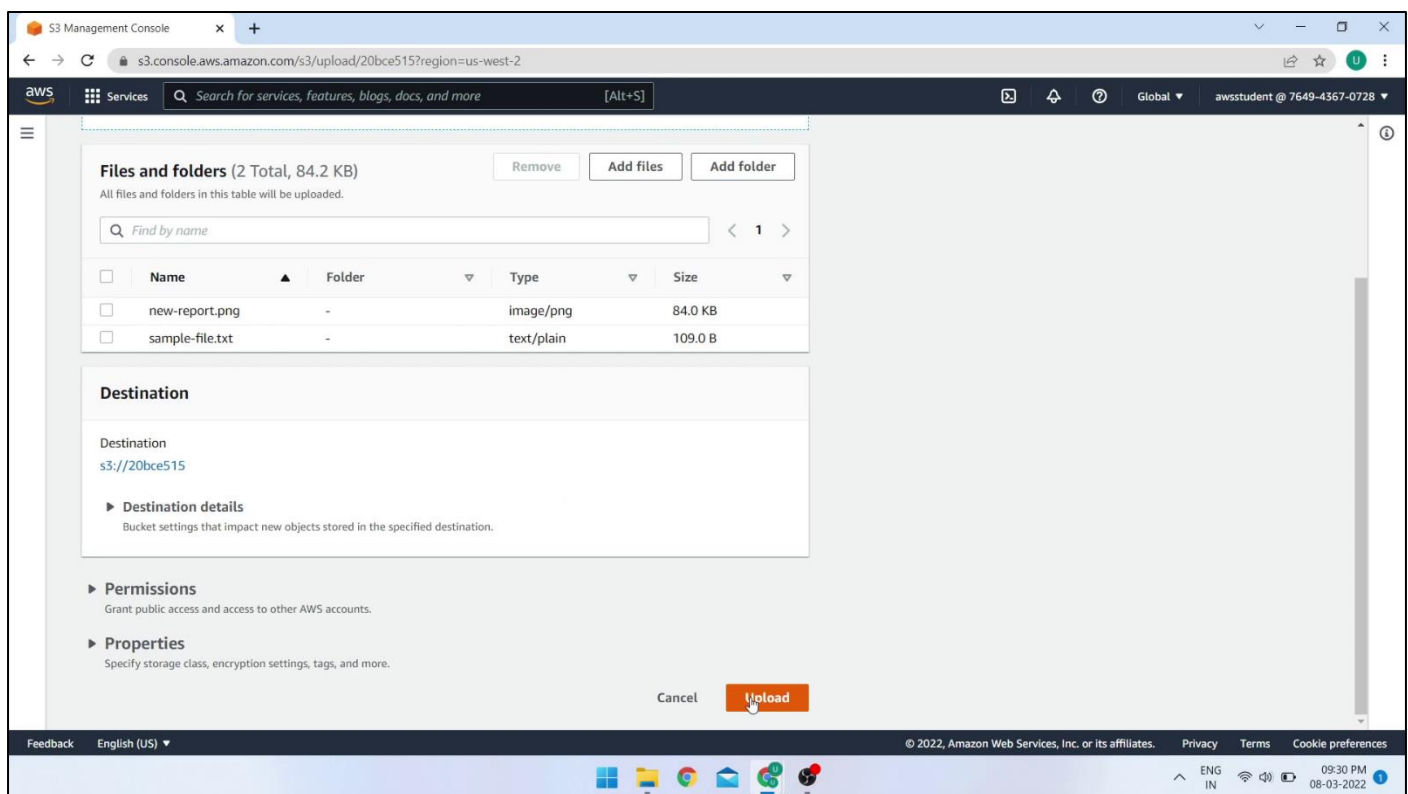
Name	AWS Region	Access	Creation date
ql-cf-templates-1646750204-8935fd4944ee1d57-us-west-2	US West (Oregon) us-west-2	Objects can be public	March 8, 2022, 20:06:46 (UTC+05:30)
qltrail-lab-2543-1646750207	US East (N. Virginia) us-east-1	Objects can be public	March 8, 2022, 20:06:49 (UTC+05:30)



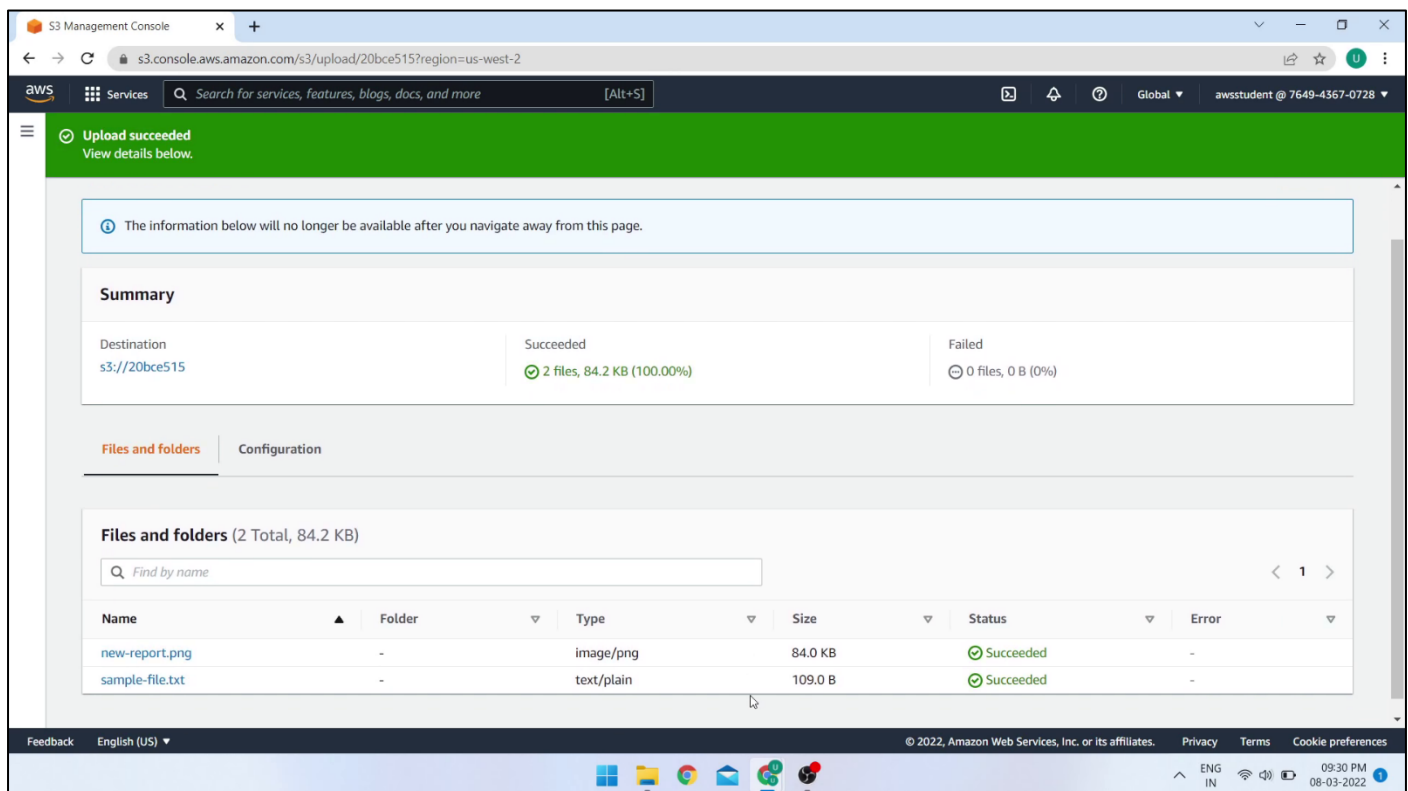
➤ Adding 2 files- one image and one text file in created bucket.



○ Uploading files

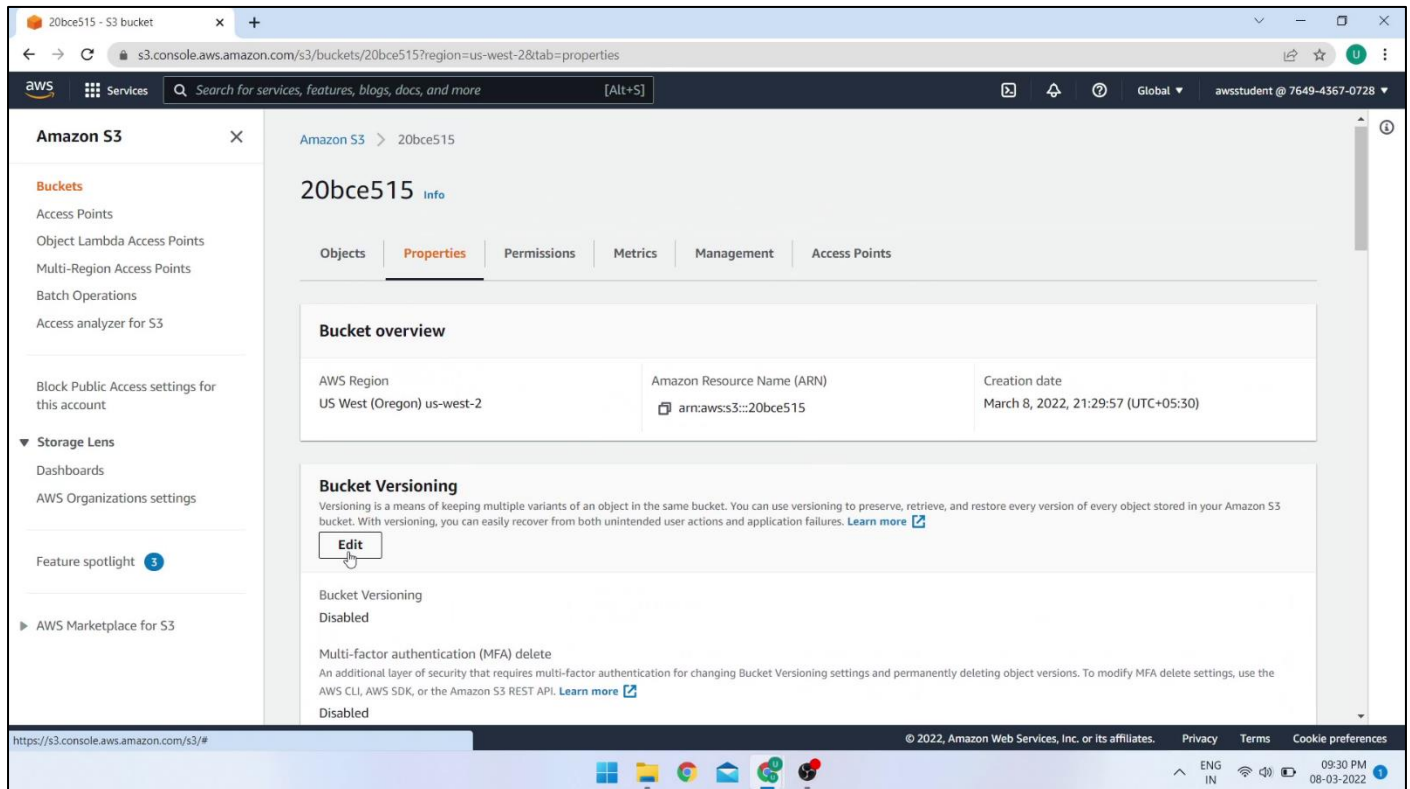


○ Files successfully uploaded

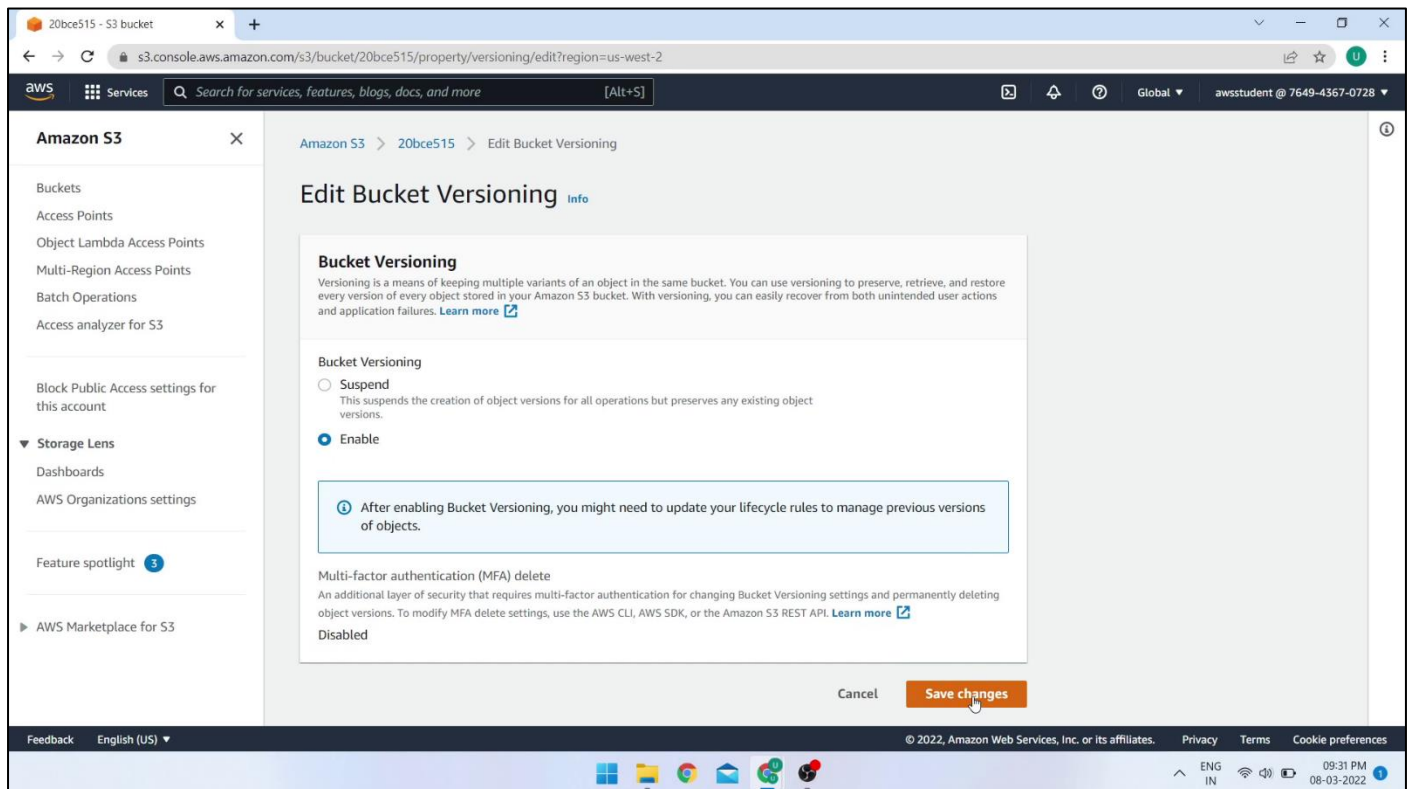


➤ Enable Bucket Versioning:

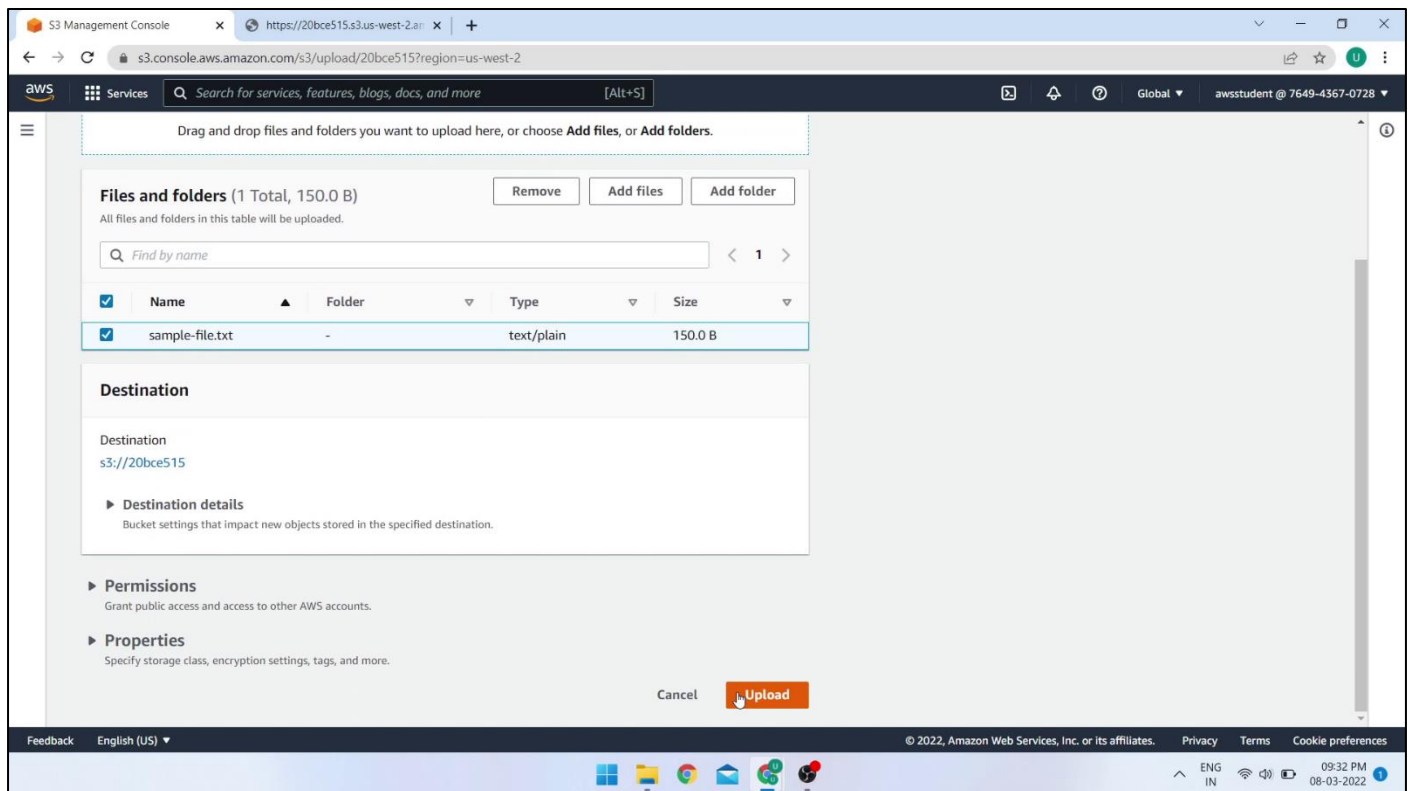
Amazon S3 -> BucketName -> Properties -> Bucket Versioning



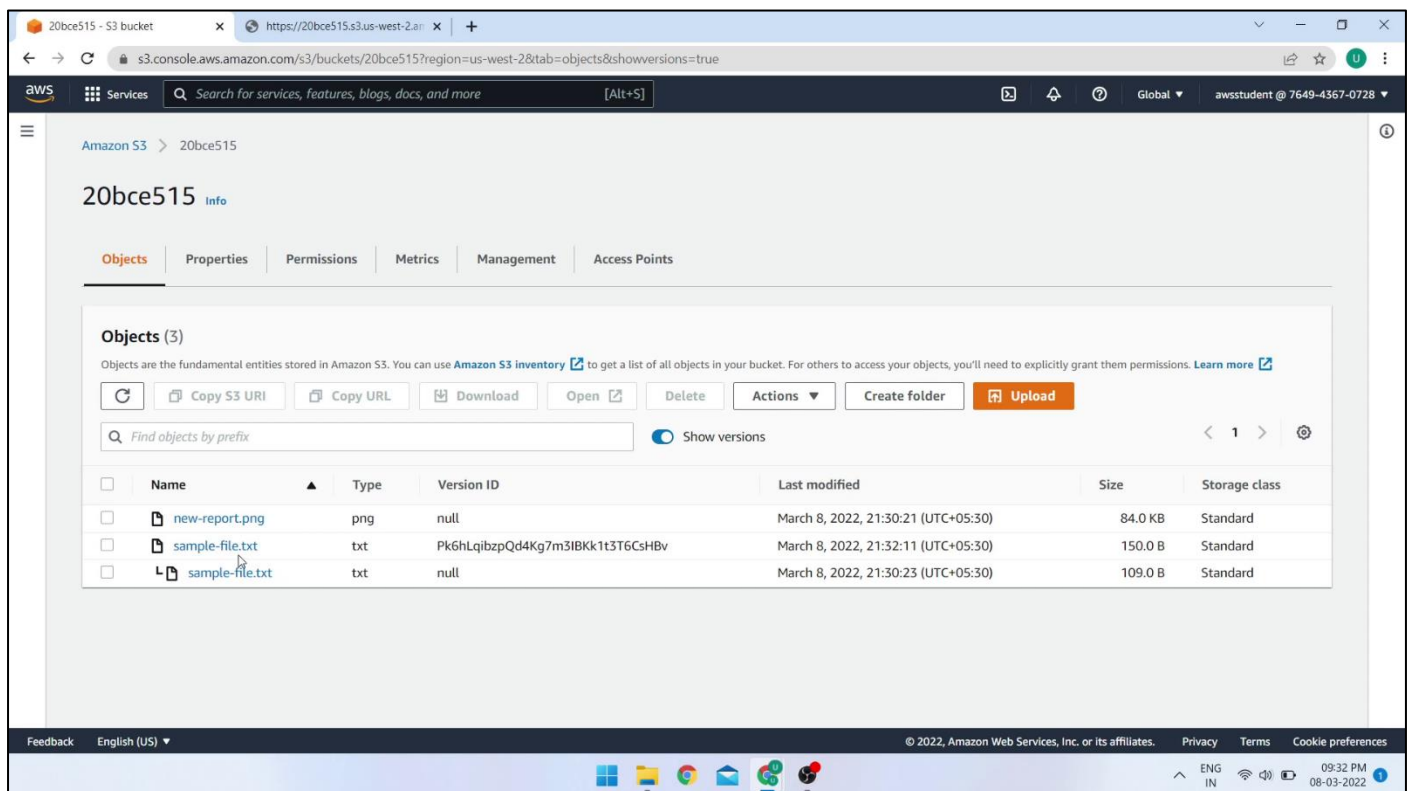
○ Enable bucket version after going into edit



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



- Under Objects section, toggle the show versions:



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

➤ Delete new-report.png:

Successfully deleted objects
View details below.

Delete objects: status Close

The information below will no longer be available after you navigate away from this page.

Summary

Source s3://20bce515	Successfully deleted 1 object, 84.0 KB	Failed to delete 0 objects
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Failed to delete | Configuration

Failed to delete (0)

Find objects by name

Name	Folder	Type	Last modified	Size	Error
No objects failed to delete.					

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Amazon S3 Buckets Access Points Object Lambda Access Points Multi-Region Access Points Batch Operations Access analyzer for S3

Block Public Access settings for this account

Storage Lens Dashboards AWS Organizations settings

Feature spotlight 3

AWS Marketplace for S3

Amazon S3 > 20bce515

20bce515 Info

Objects | Properties | Permissions | Metrics | Management | Access Points

Objects (4)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

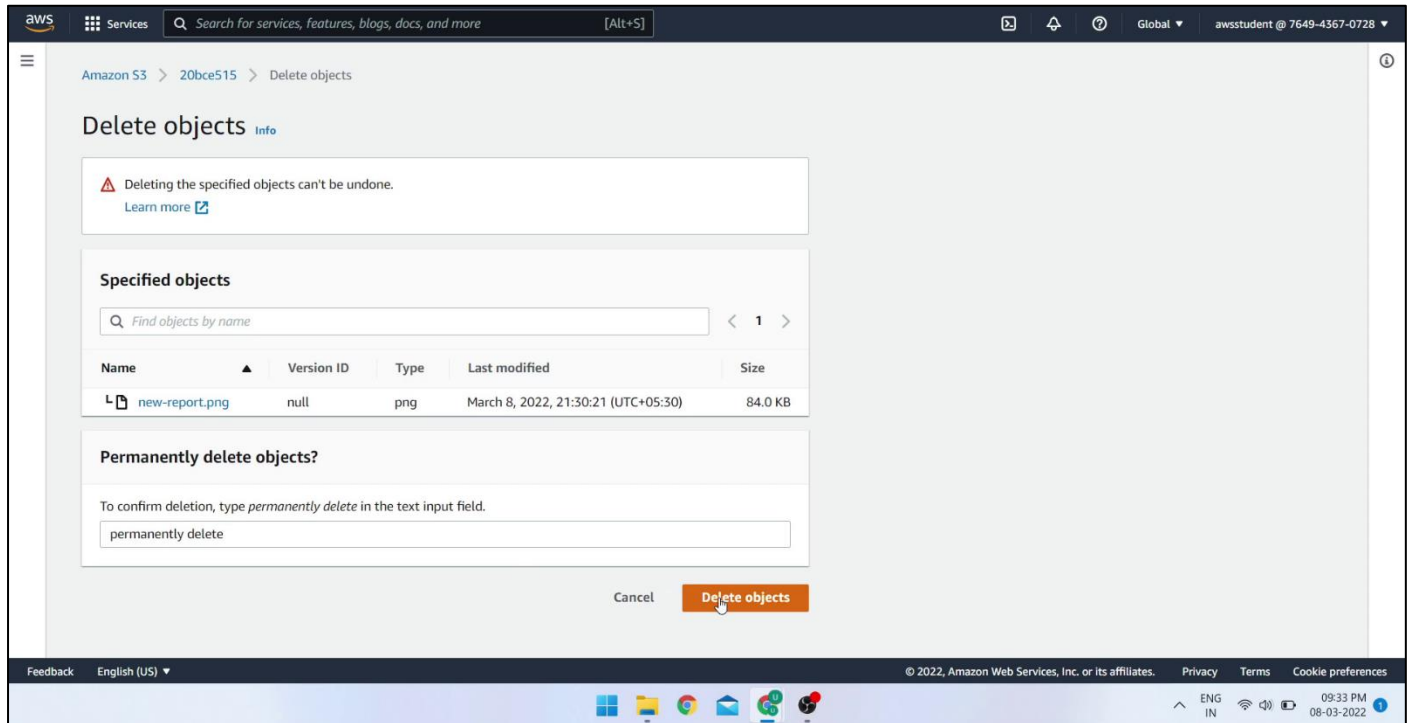
Refresh Copy S3 URI Copy URL Download Open Delete Actions Create folder Upload

Find objects by prefix Show versions

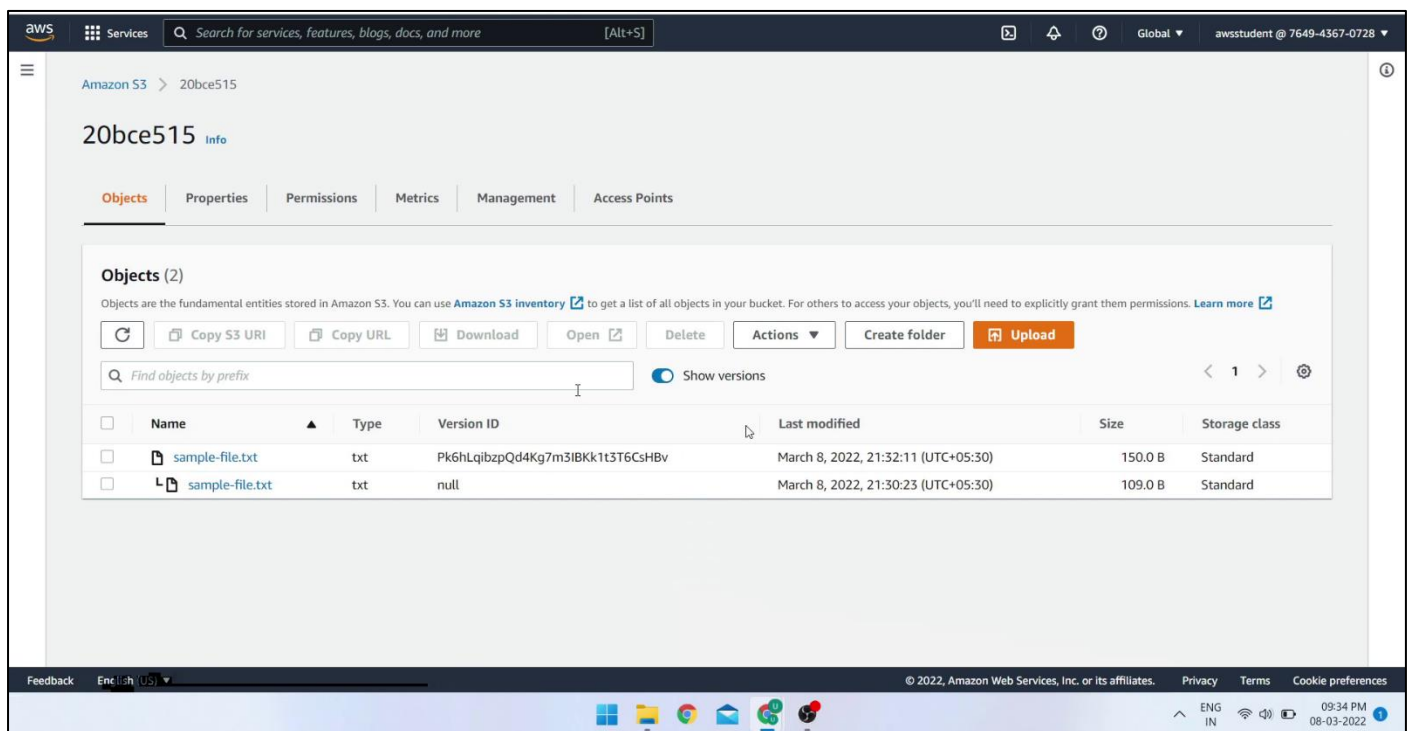
<input type="checkbox"/>	Name	Type	Version ID	Last modified	Size	Storage class
<input type="checkbox"/>	new-report.png	Delete marker	zSTqCEo4K2KK9QSouJxFuQWIOgW1Dyvt	March 8, 2022, 21:32:59 (UTC+05:30)	0 B	-
<input type="checkbox"/>	new-report.png	png	null	March 8, 2022, 21:30:21 (UTC+05:30)	84.0 KB	Standard
<input type="checkbox"/>	sample-file.txt	txt	Pk6hLqibzpQd4Kg7m3lBkK1t3T6CsHBv	March 8, 2022, 21:32:11 (UTC+05:30)	150.0 B	Standard
<input type="checkbox"/>	sample-file.txt	txt	null	March 8, 2022, 21:30:23 (UTC+05:30)	109.0 B	Standard

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- The deleted files has delete marker in type.
- The deleted files can be recovered.
- To permanently delete a file, click on delete on already deleted item and then type permanently delete in confirmation box.



- This will permanently delete the file.
- Now that file doesn't exist in bucket and can't be recovered.



Conclusion:

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