AWS – S3 [Simple Storage Service]

What is S3 bucket ?

Amazon Simple Storage Service (Amazon S3) is an object storage service that offers industry-leading scalability, data availability, security, and performance. You can use Amazon S3 to store and retrieve any amount of data at any time, from anywhere.

Features Of S3 bucket :

1. **Scalability:**

- Grows with you: Need to store a few photos or a few million? S3 scales up or down with your needs, effortlessly handling data from tiny to huge.

2. **Durability and Availability:**

- Super reliable: With 99.9% durability, S3 keeps your data safe and sound, storing it redundantly across multiple facilities.
- Always there: Access your data whenever you need it, thanks to S3's high availability.

3. Security:

- Locked down: S3 provides strong security features, including encryption for your data both in storage and transit.
- Access control: Use AWS Identity and Access Management (IAM) policies to control who can see or change your data.

4. **Data Management:**

- Versioning: Keep track of changes and restore previous versions of your data easily.
- Lifecycle Policies: Set rules to automatically move your data to cheaper storage options or delete it when you no longer need it.

- Event Notifications: Get notified or trigger actions when certain events happen in your storage buckets.

5. **Storage Classes:**

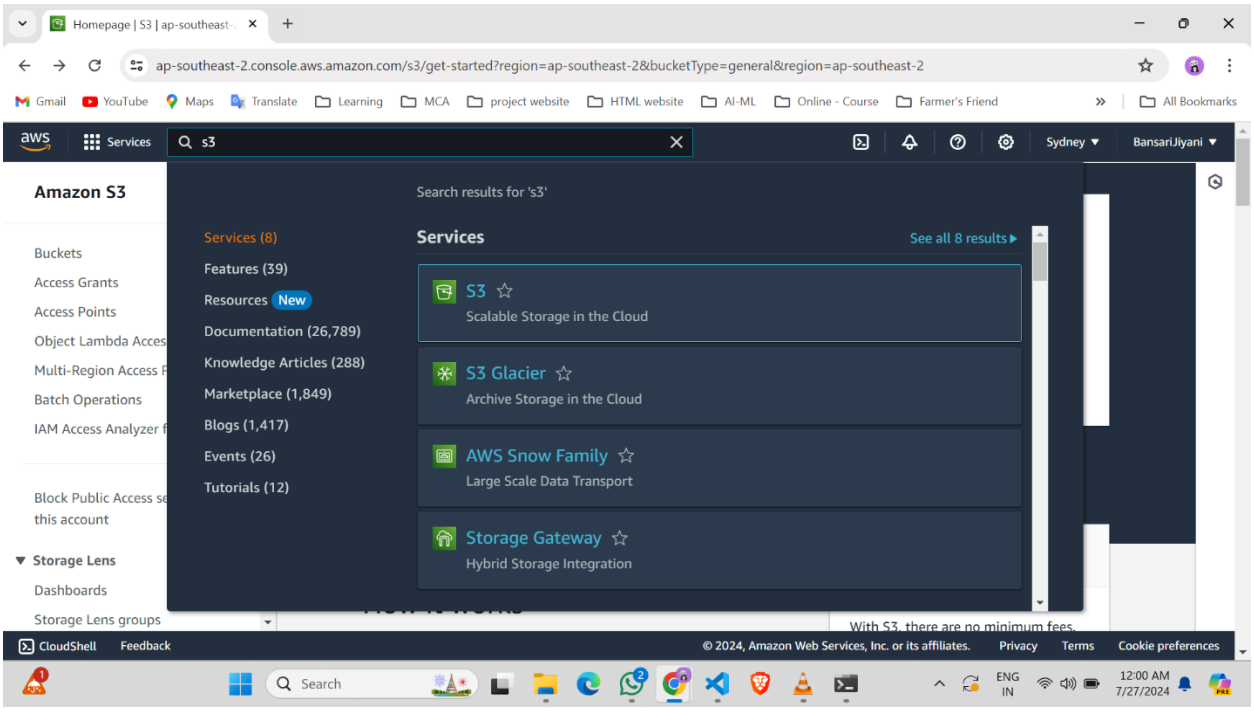
- S3 Standard: Ideal for everyday use with frequently accessed data.
- S3 Intelligent-Tiering: Automatically shifts your data between two access tiers to save money as access patterns change.
- S3 Standard-IA (Infrequent Access): Perfect for data you don't access often but need quick access to when you do.
- S3 One Zone-IA: A budget-friendly choice for non-critical data that doesn't require multiple zone redundancy.

How to Create Bucket ?

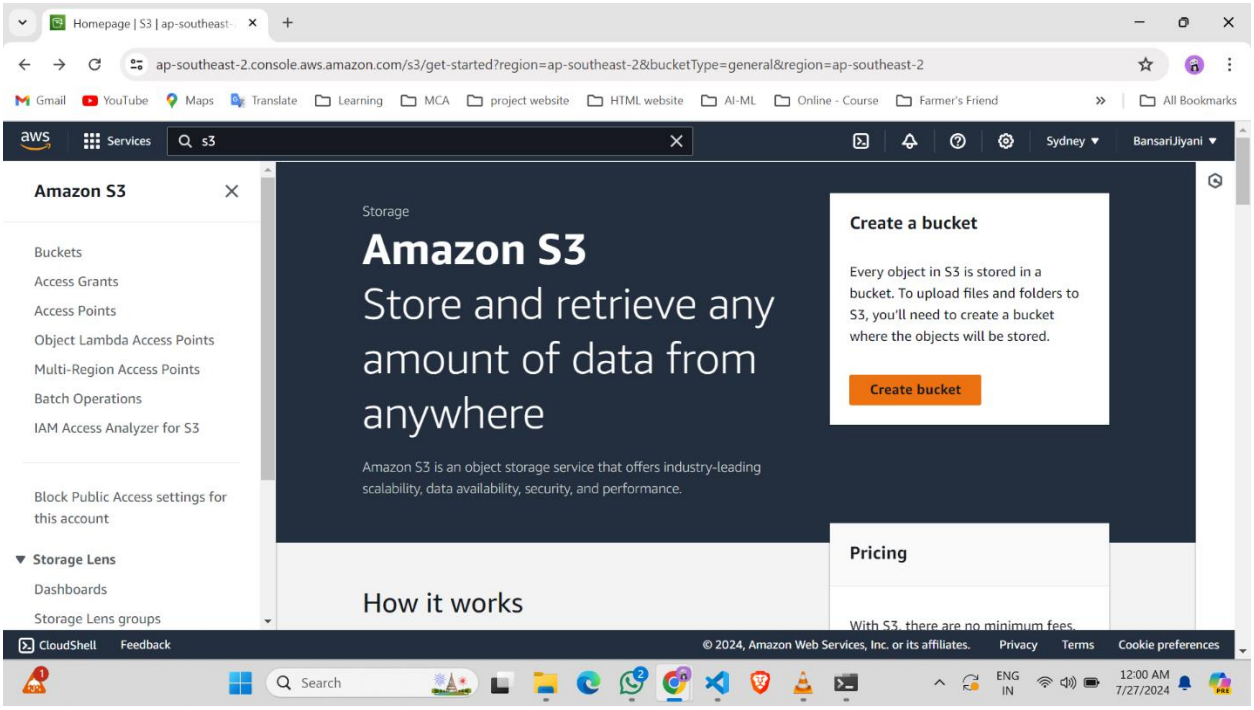
Steps :

1. Sign in to the AWS Management Console and open the Amazon S3 console at https://console.aws.amazon.com/s3/

2. In the navigation bar on the top of the page, Search the s3 bucket.

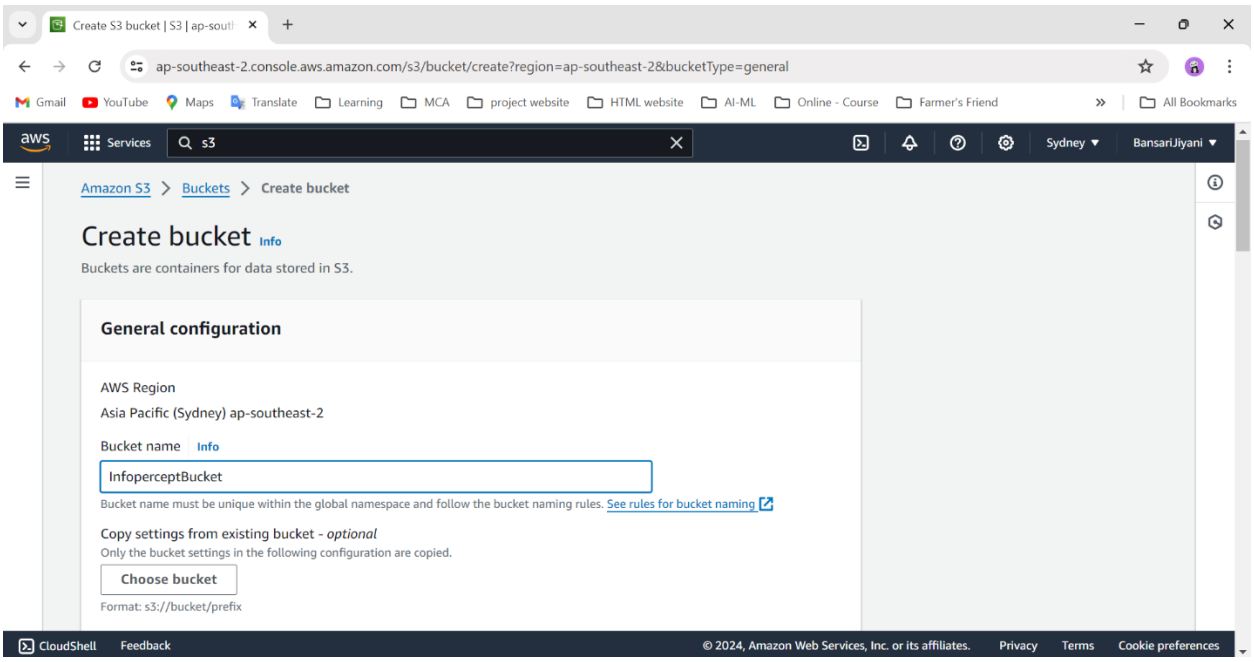


3. Click On the First S3 bucket and Redirect this page and Click on Create Bucket



4. Give the bucket Name as per your choice and It must be unique and

- don’t use capital Letters
- between 3 and 63 characters long
- Consist only of lowercase letters, numbers, dots (.), and hyphens (-). For best compatibility, we recommend that you avoid using dots (.) in bucket names, except for buckets that are used only for static website hosting.
- Begin and end with a letter or number.


Create S3 bucket | S3 | ap-south
ap-southeast-2.console.aws.amazon.com/s3/bucket/create?region=ap-southeast-2&bucketType=general
Gmail YouTube Maps Translate Learning MCA project website HTML website AI-ML Online - Course Farmer's Friend All Bookmarks
aws Services s3 Sydney BansariJiyani
Amazon S3 > Buckets > Create bucket
Create bucket Info
Buckets are containers for data stored in S3.
General configuration
AWS Region
Asia Pacific (Sydney) ap-southeast-2
Bucket name Info
InfoperceptBucket
Bucket name must be unique within the global namespace and follow the bucket naming rules. See rules for bucket naming
Copy settings from existing bucket - optional
Only the bucket settings in the following configuration are copied.
Choose bucket
Format: s3://bucket/prefix
CloudShell Feedback
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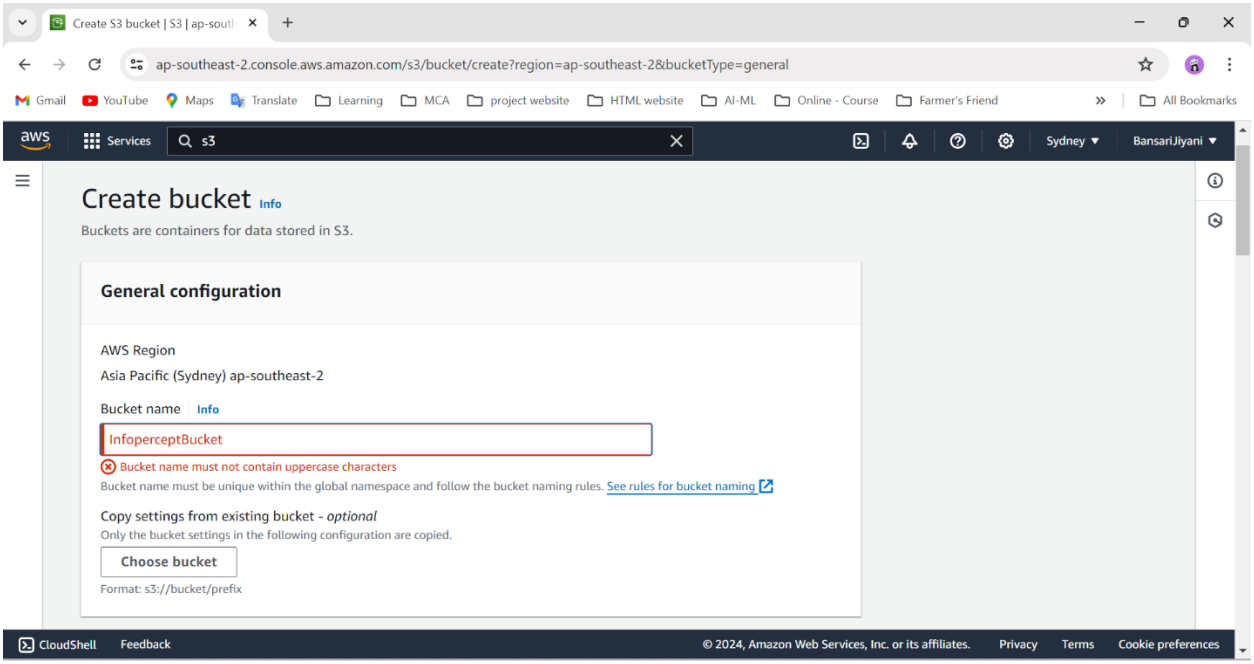
Create S3 bucket | S3 | ap-south
ap-southeast-2.console.aws.amazon.com/s3/bucket/create?region=ap-southeast-2&bucketType=general
Gmail YouTube Maps Translate Learning MCA project website HTML website AI-ML Online - Course Farmer's Friend All Bookmarks
aws Services s3 Sydney BansariJiyani
Create bucket Info
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Copy settings from existing bucket - optional
Only the bucket settings in the following configuration are copied.
Choose bucket
Format: s3://bucket/prefix
CloudShell Feedback
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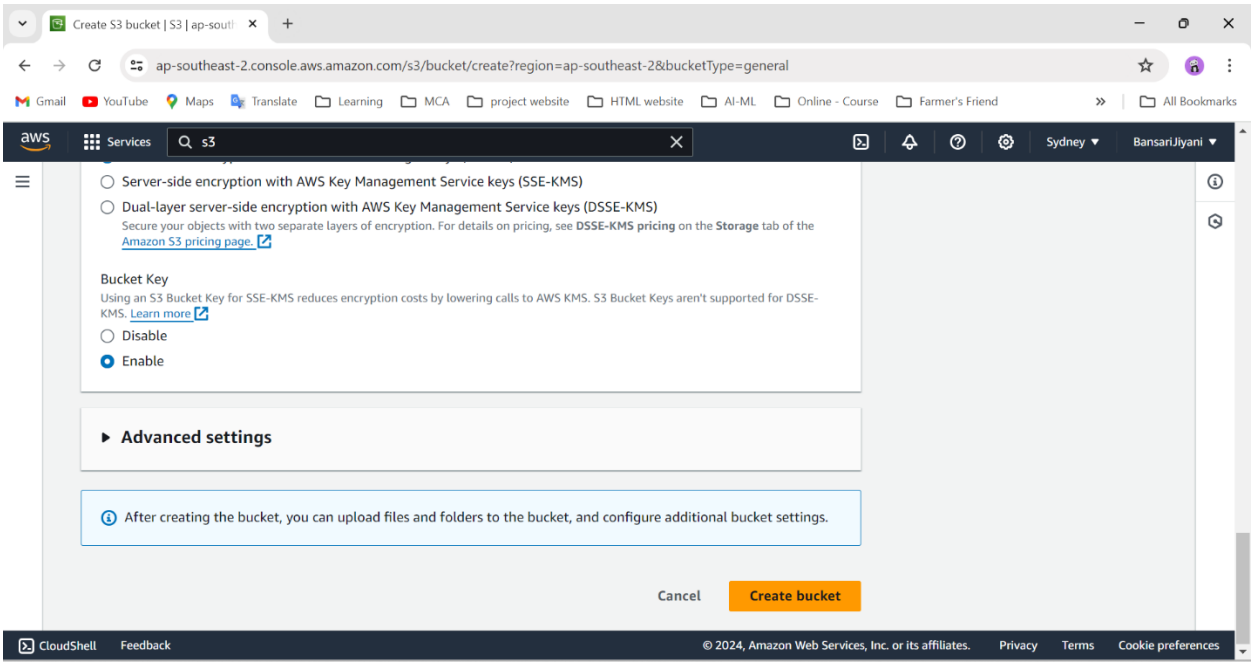
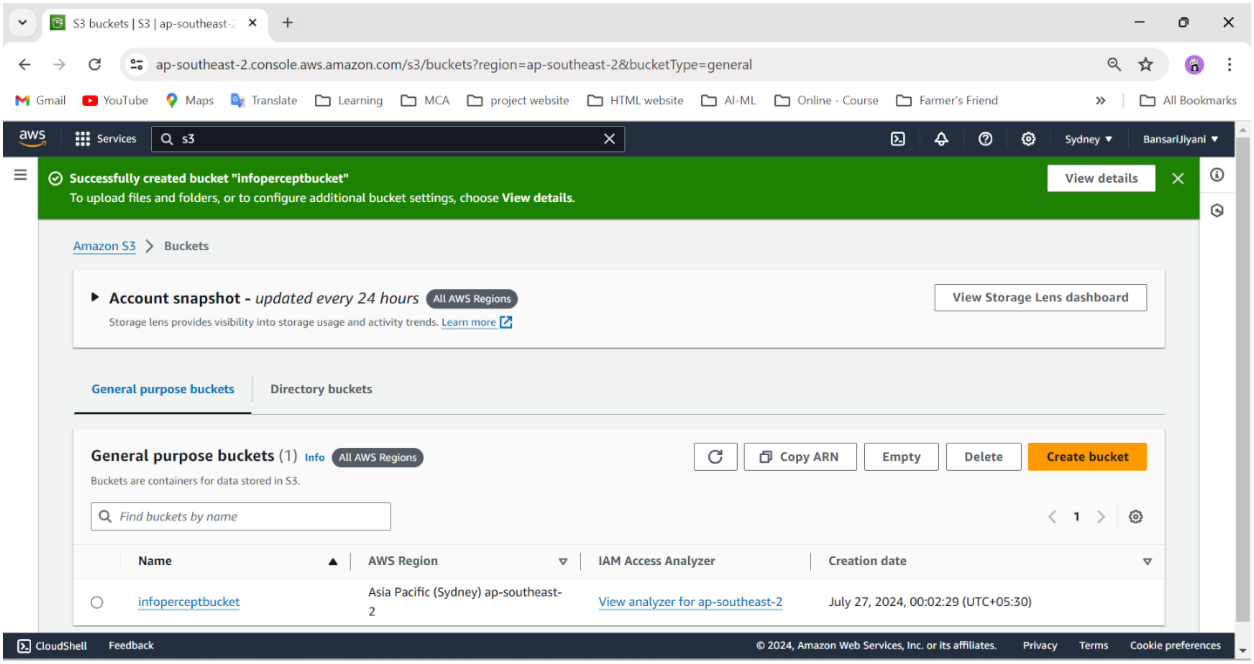
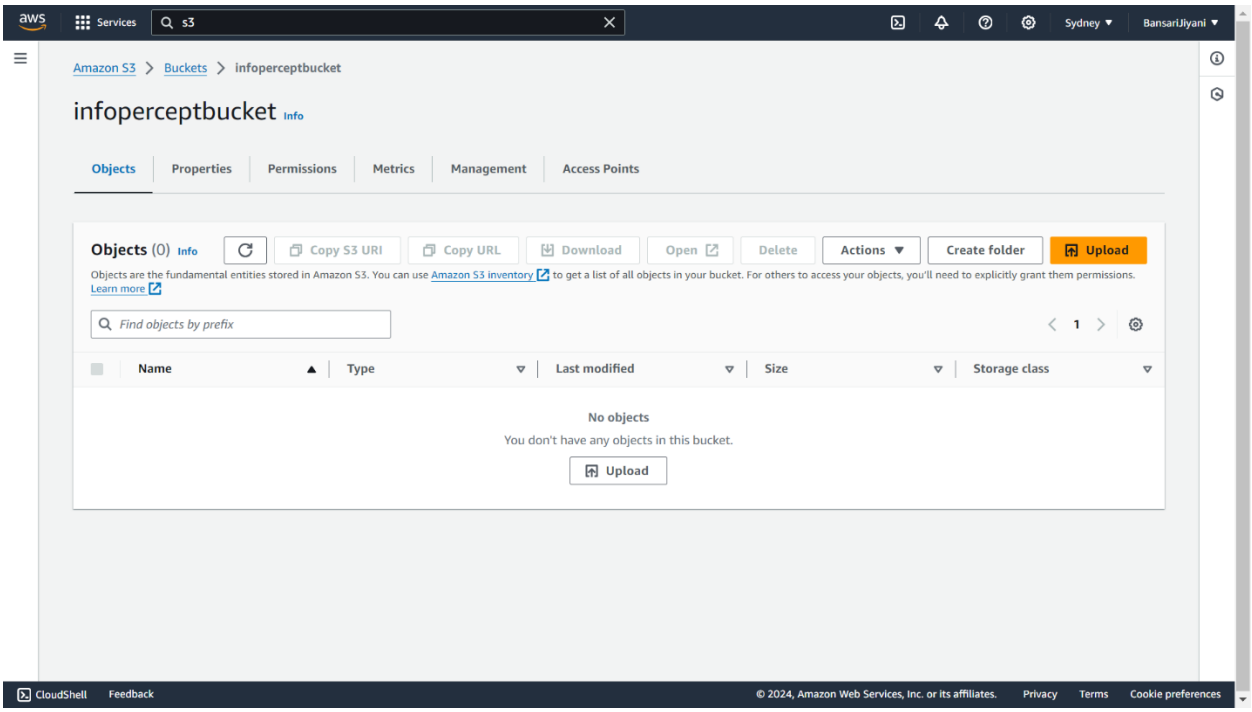
5. Click on to create bucket and your bucket is created successfully.

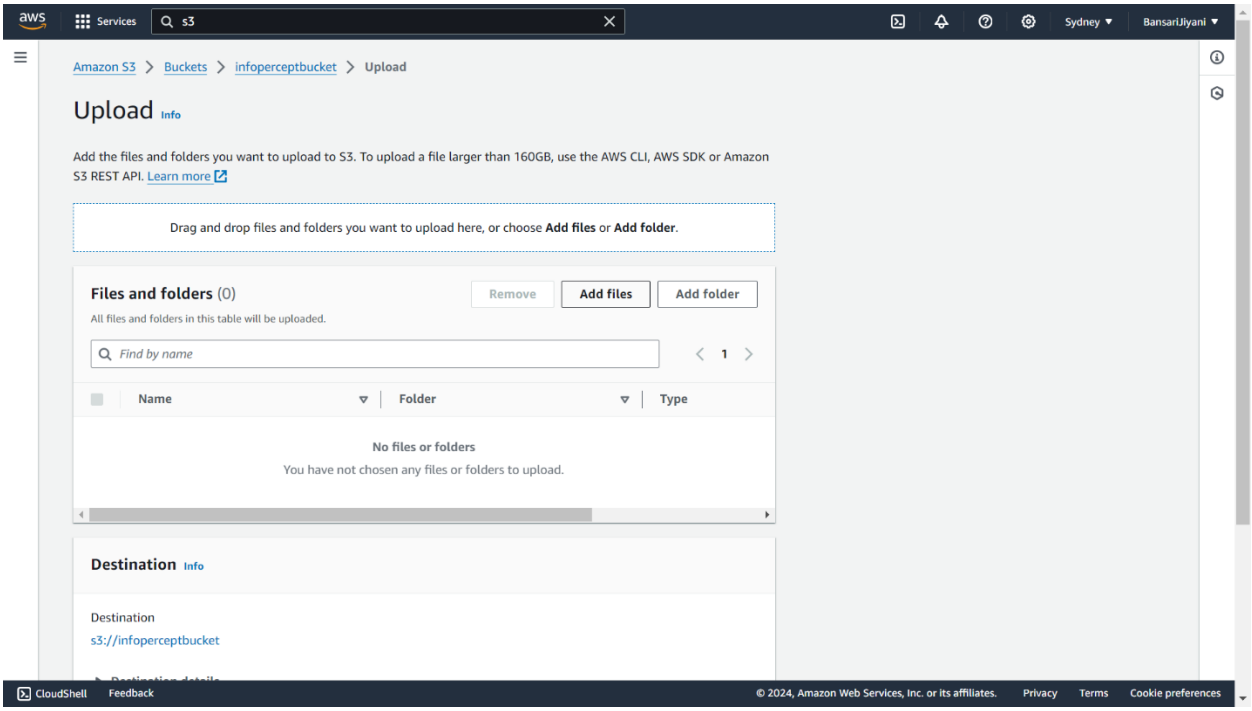


6. Now your bucket is created and we can upload image or files or folders in bucket for that click on Your bucket name.

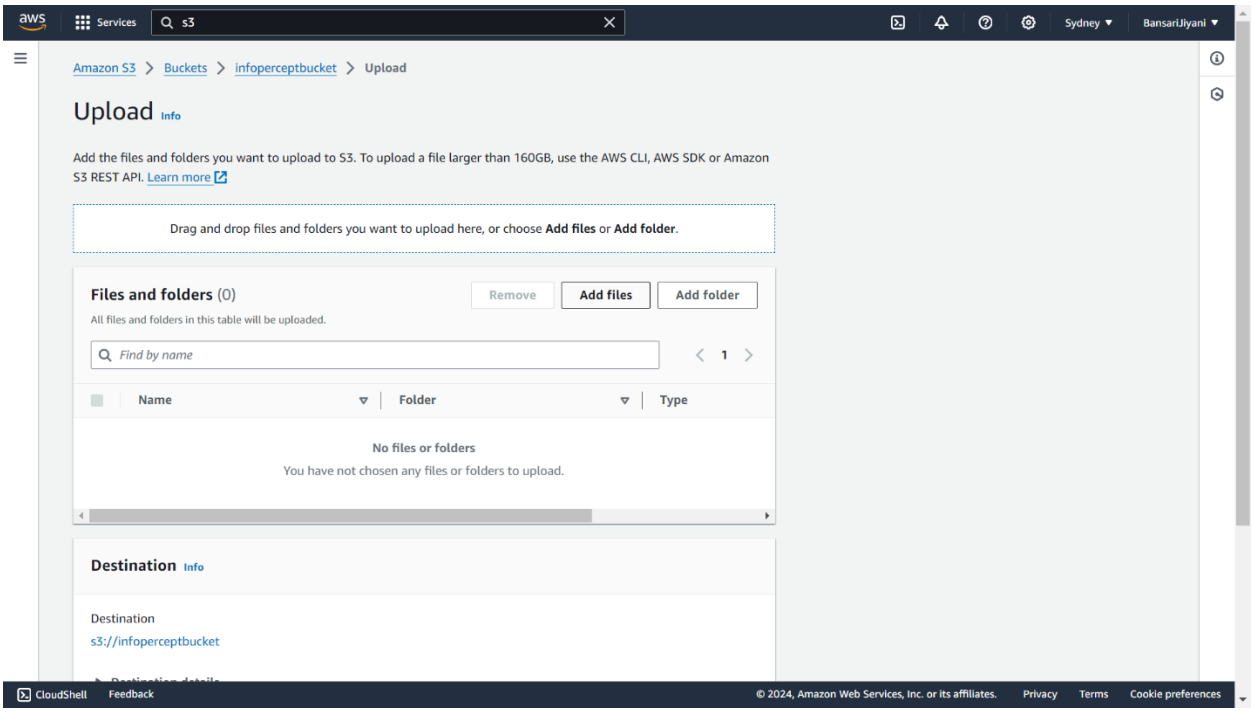


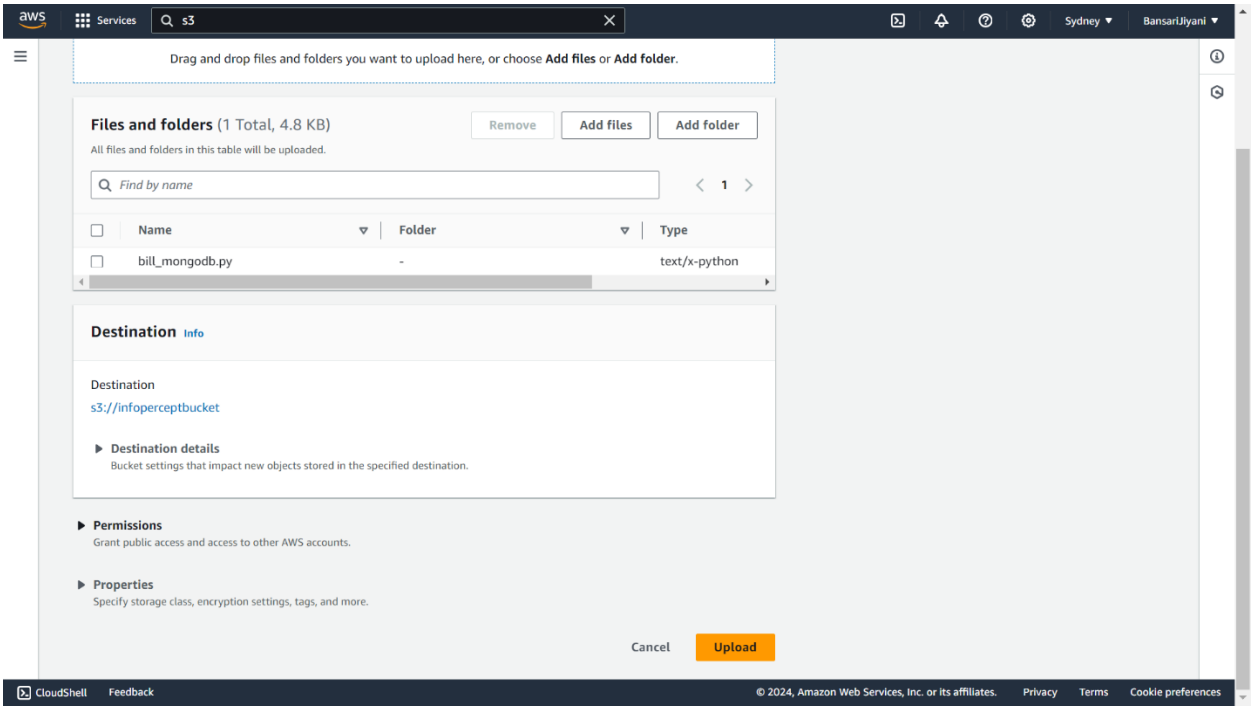
7. Click on Upload.



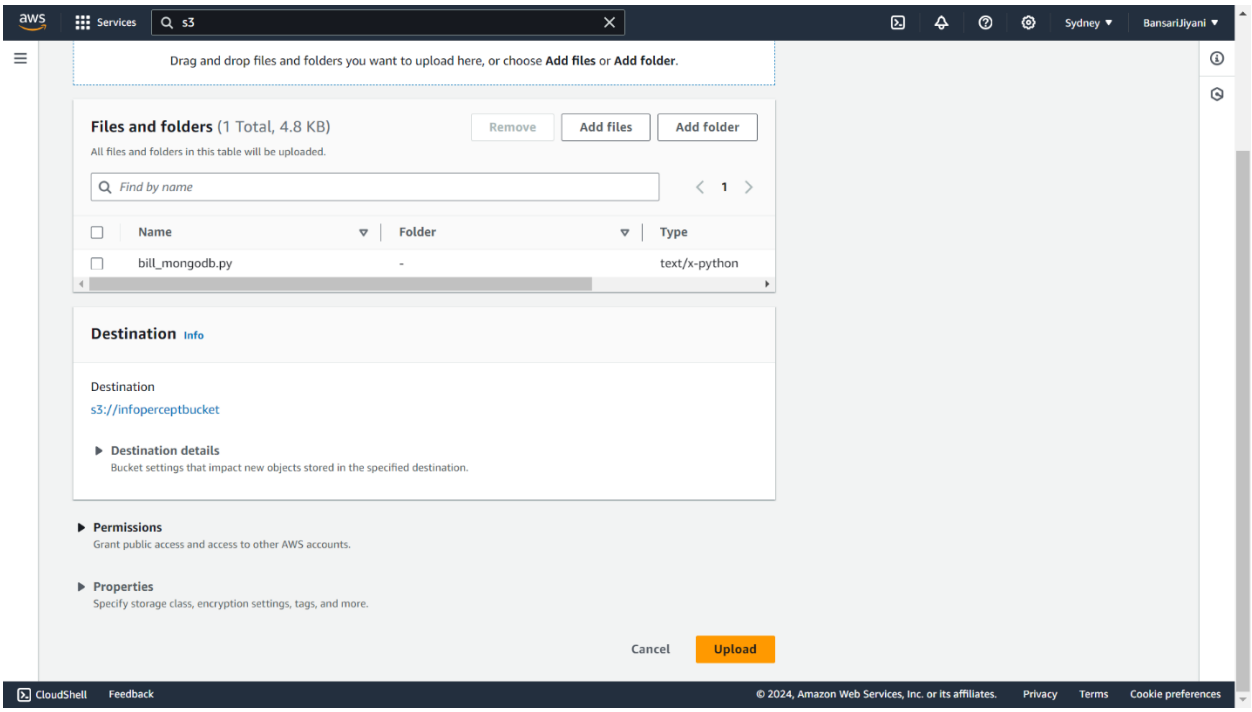


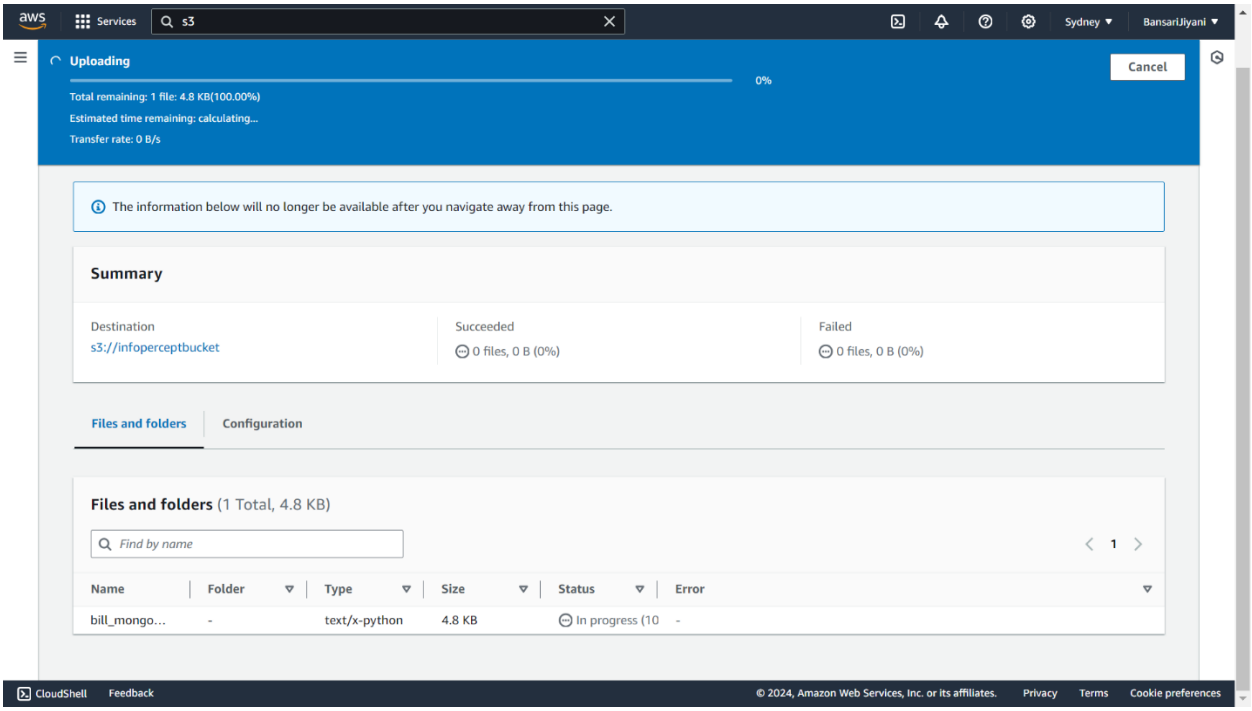
8. For upload the files or folder choose the file or folder option and upload files or folder from your PC.

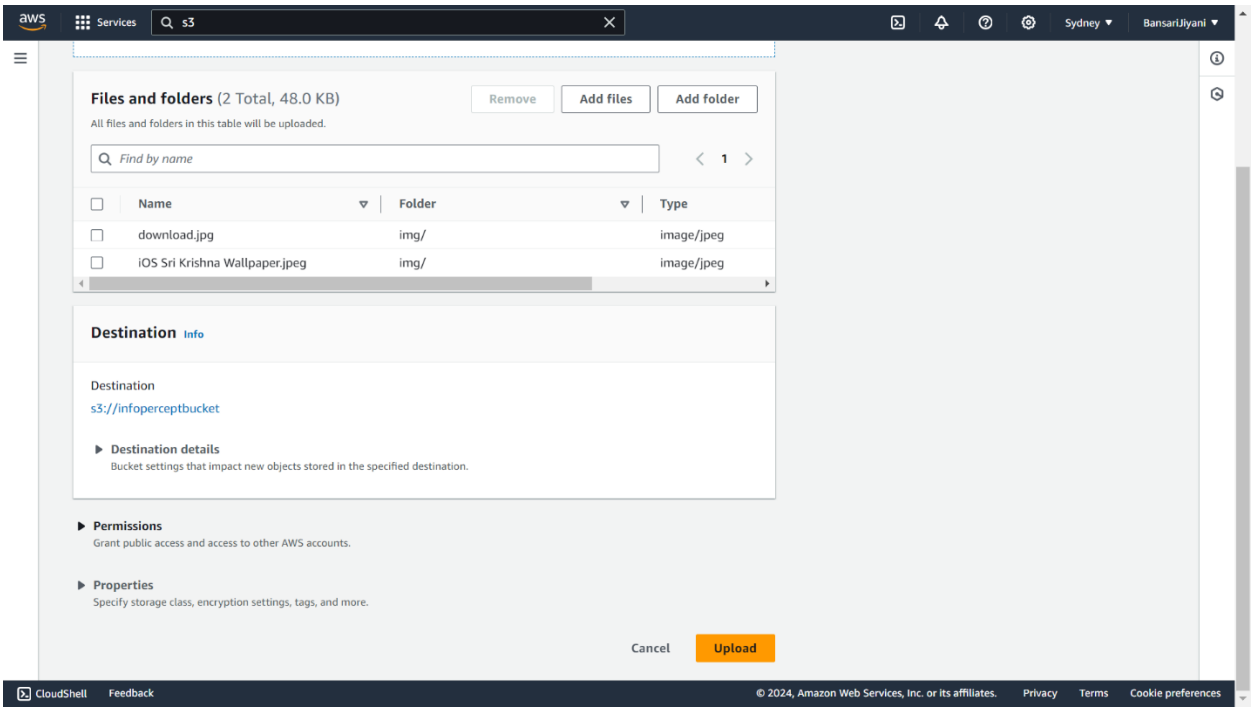




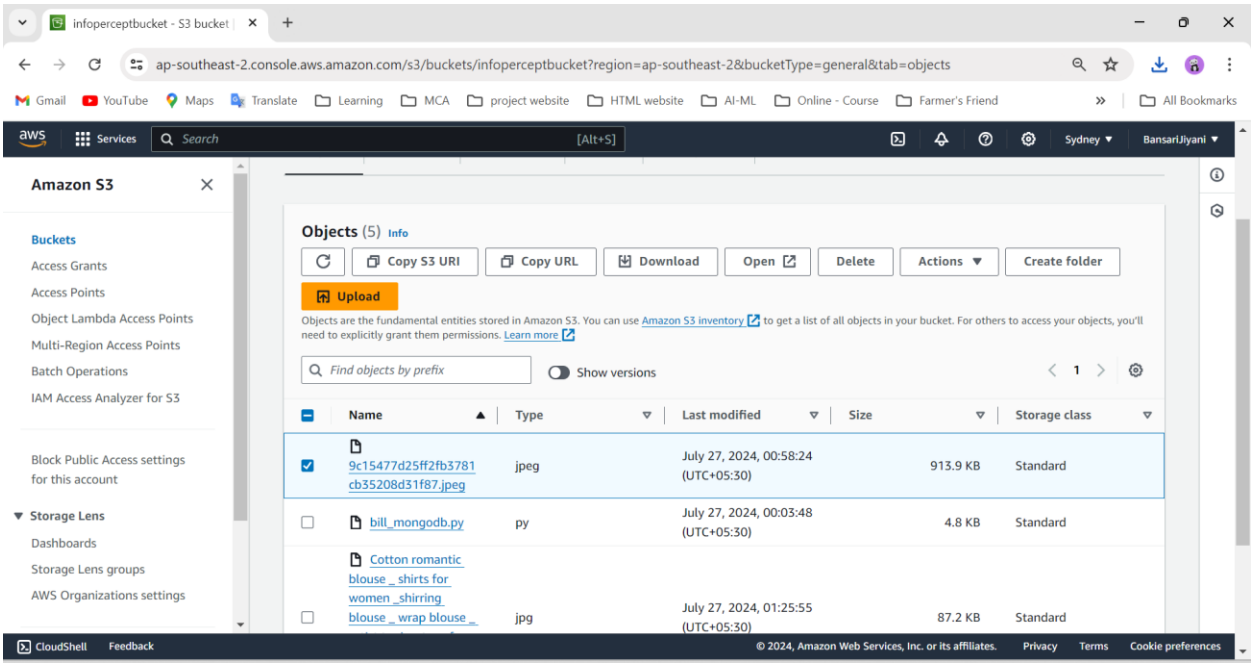
9. Click on Upload.





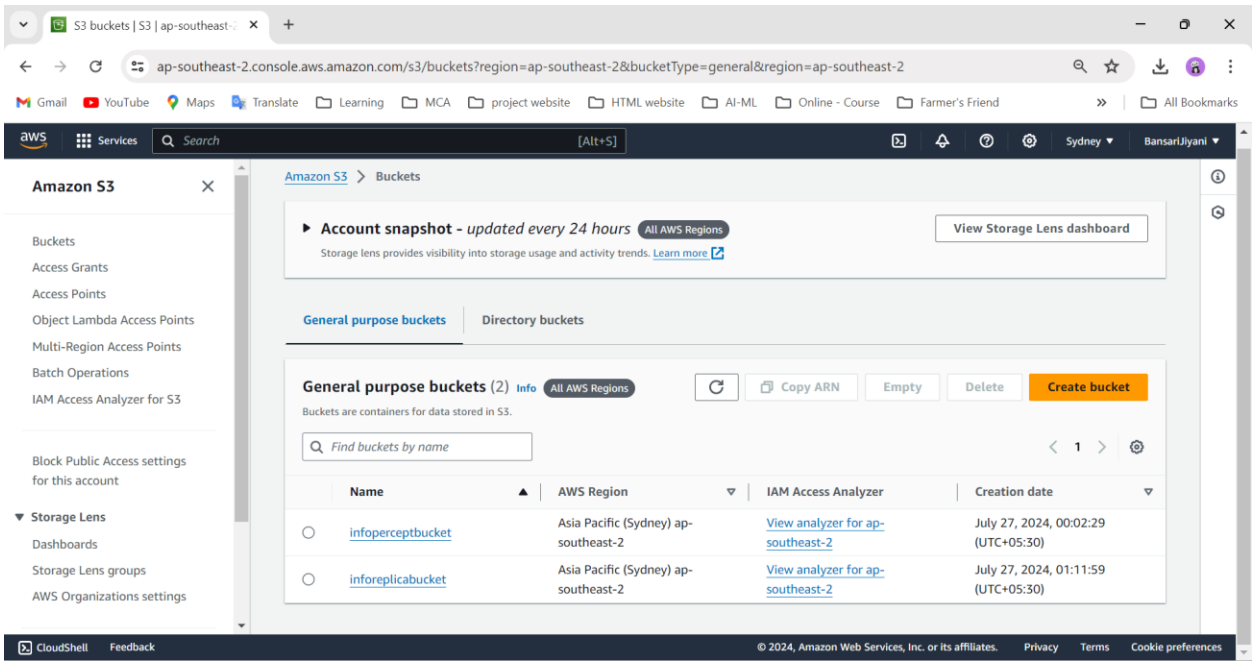


10. For download the file / object or any folder click on the check box and click on download.

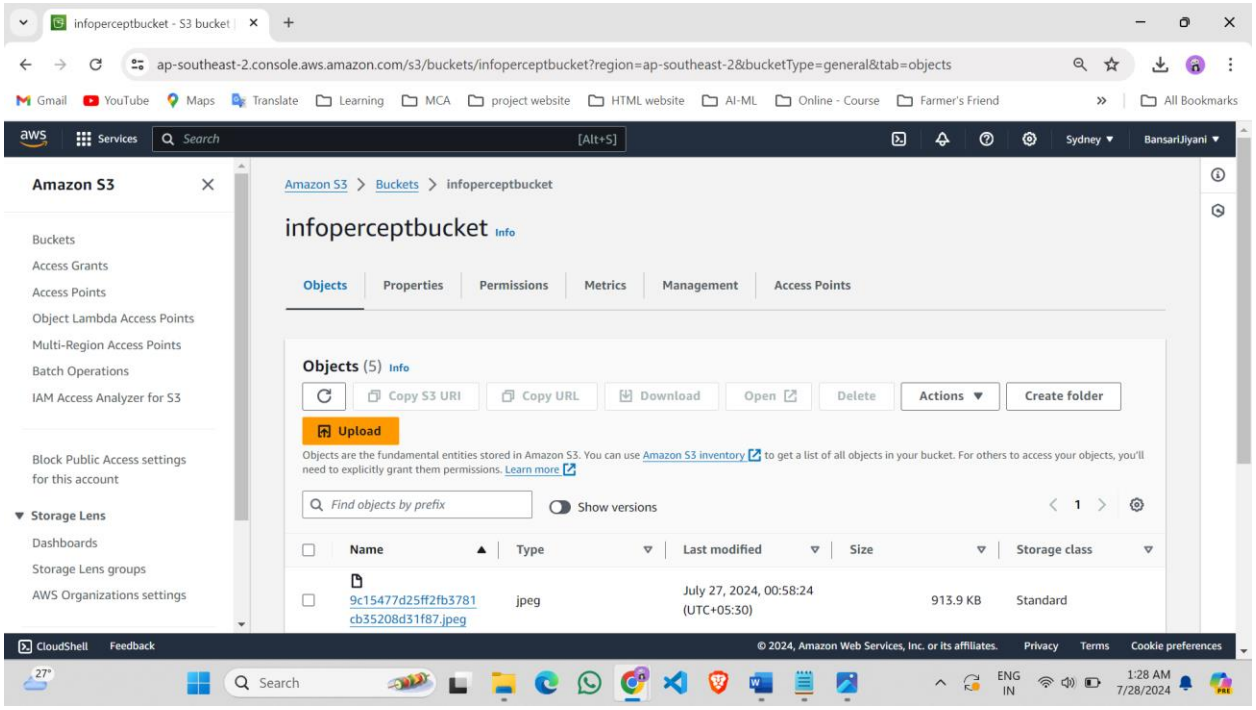


Create a Replicate Of Bucket :

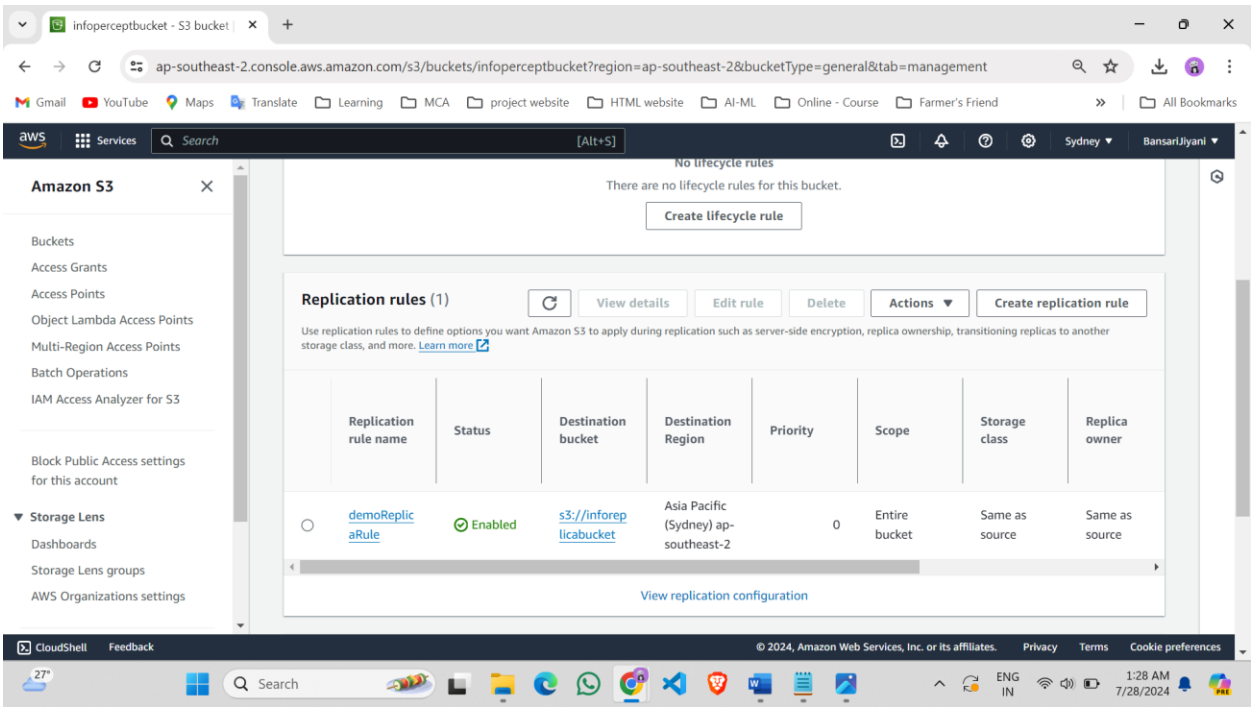
1. Create a another bucket



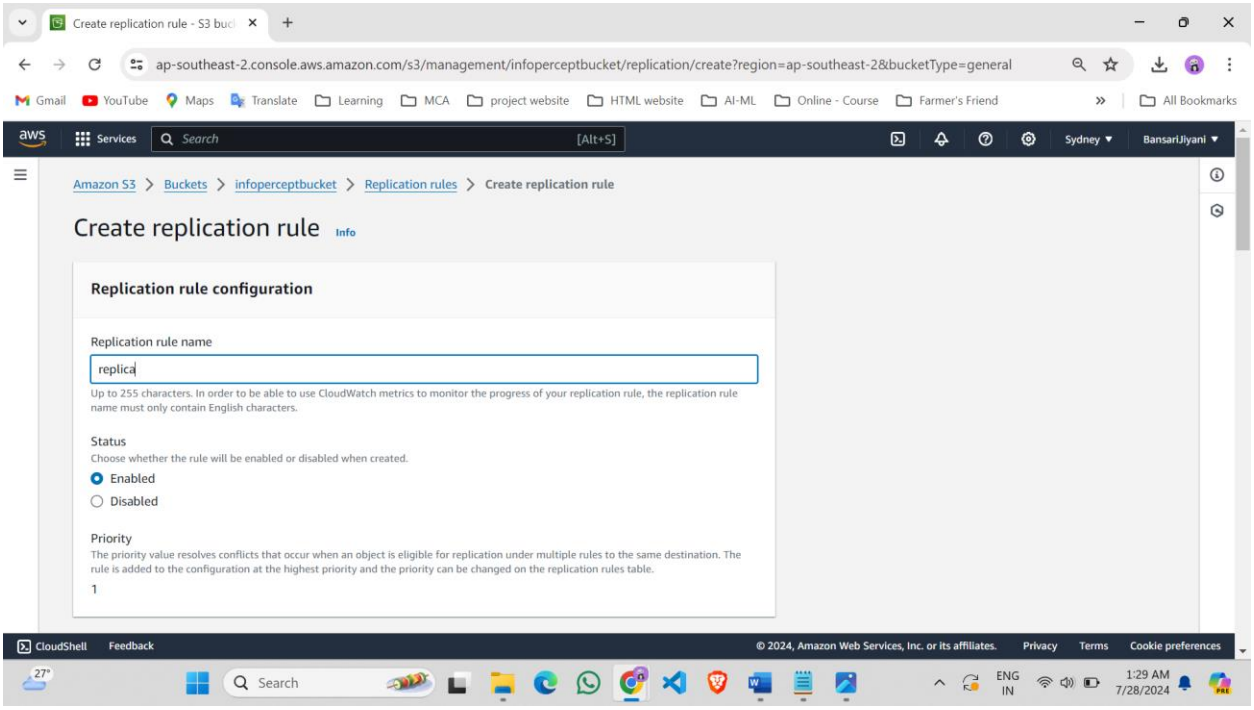
2. Go to original bucket and got to management.



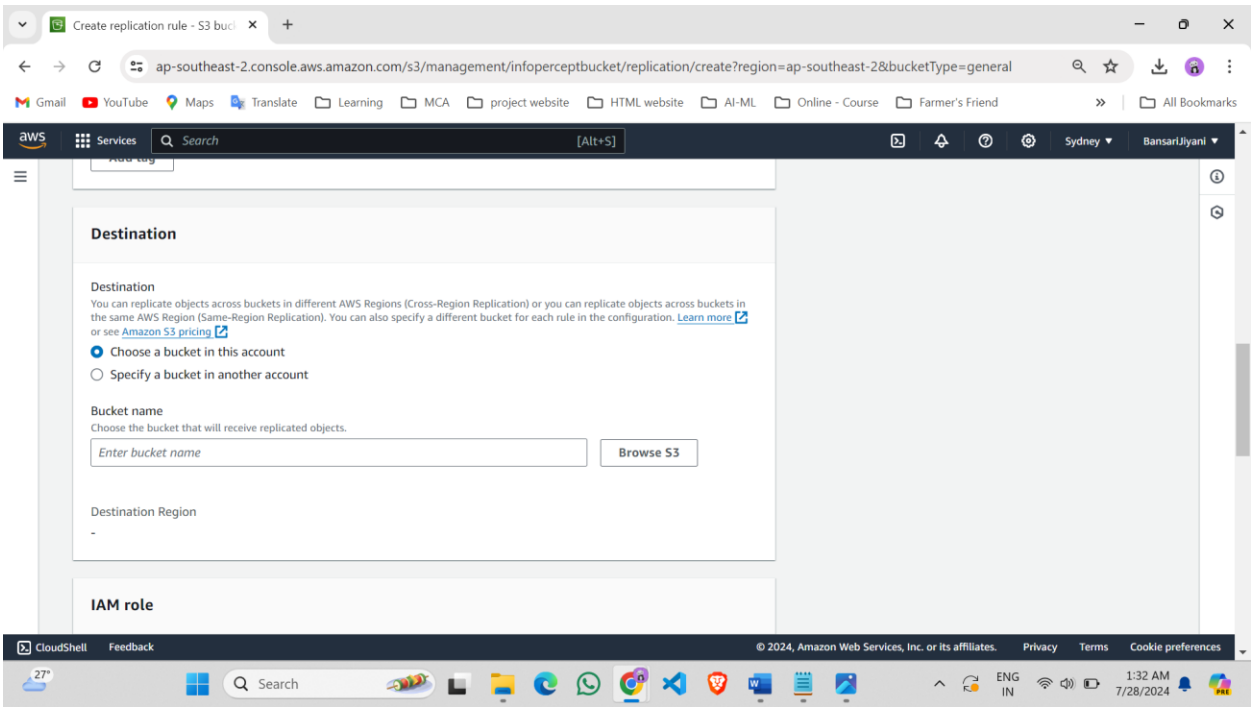
3. Create replication rule .



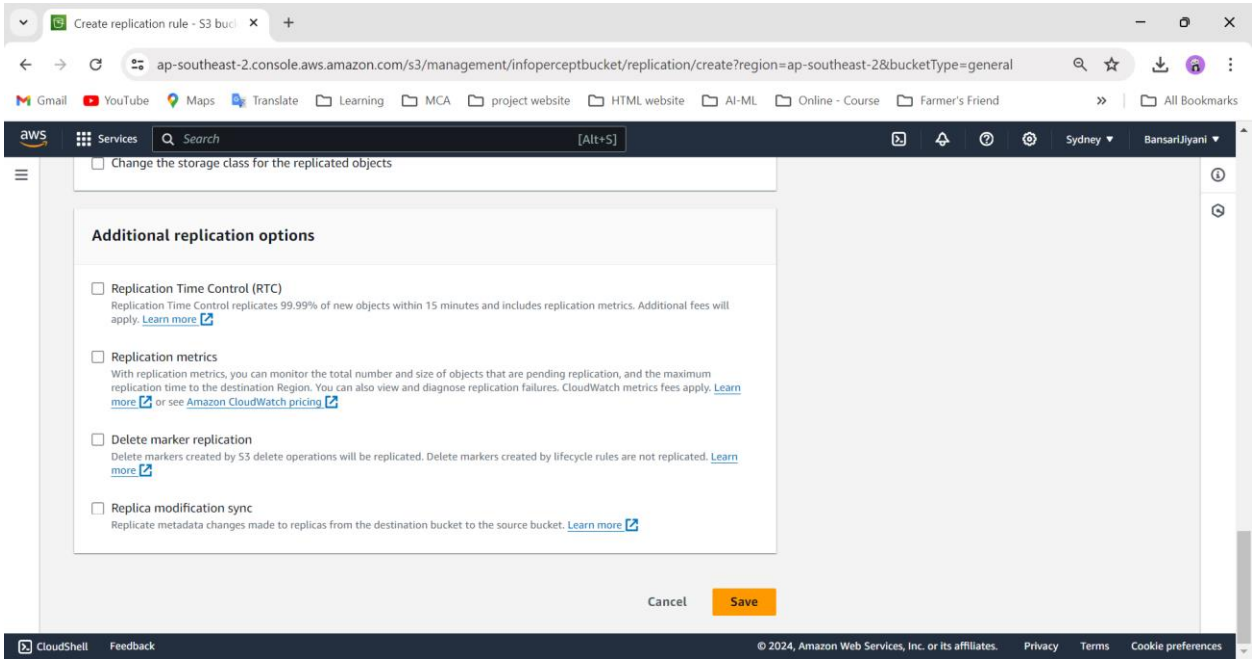
4. Give replication rule name



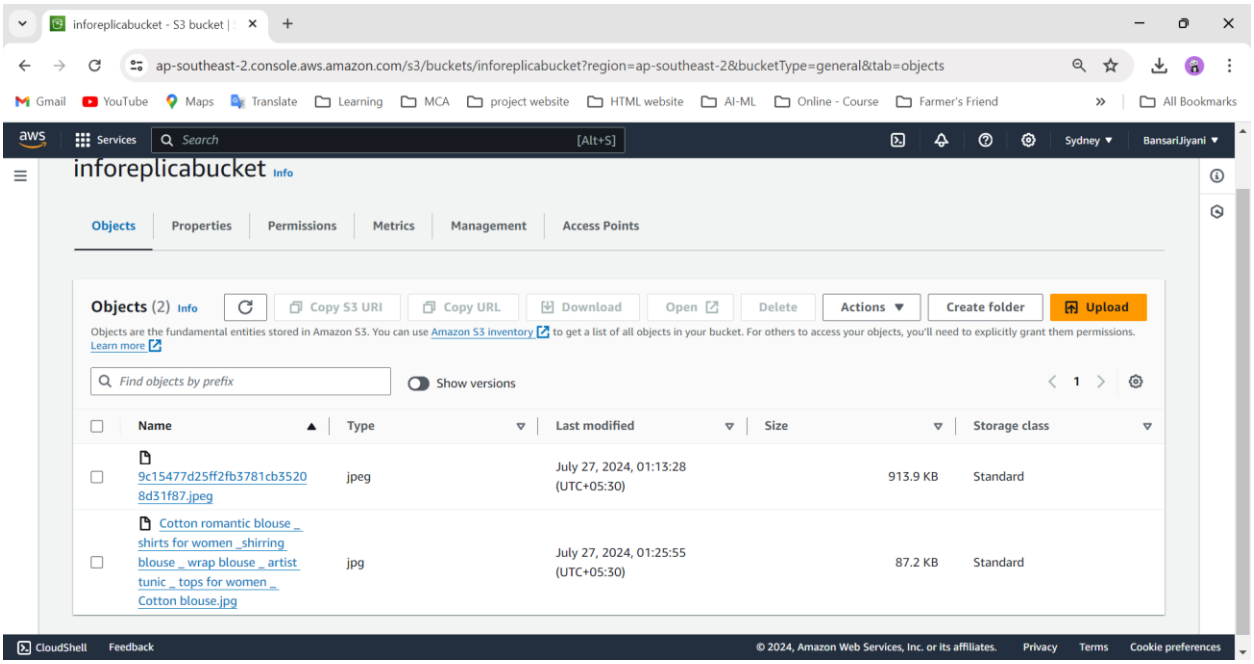
5. Give the Destination bucket name where we want to replicate this bucket



6. Save the changes.

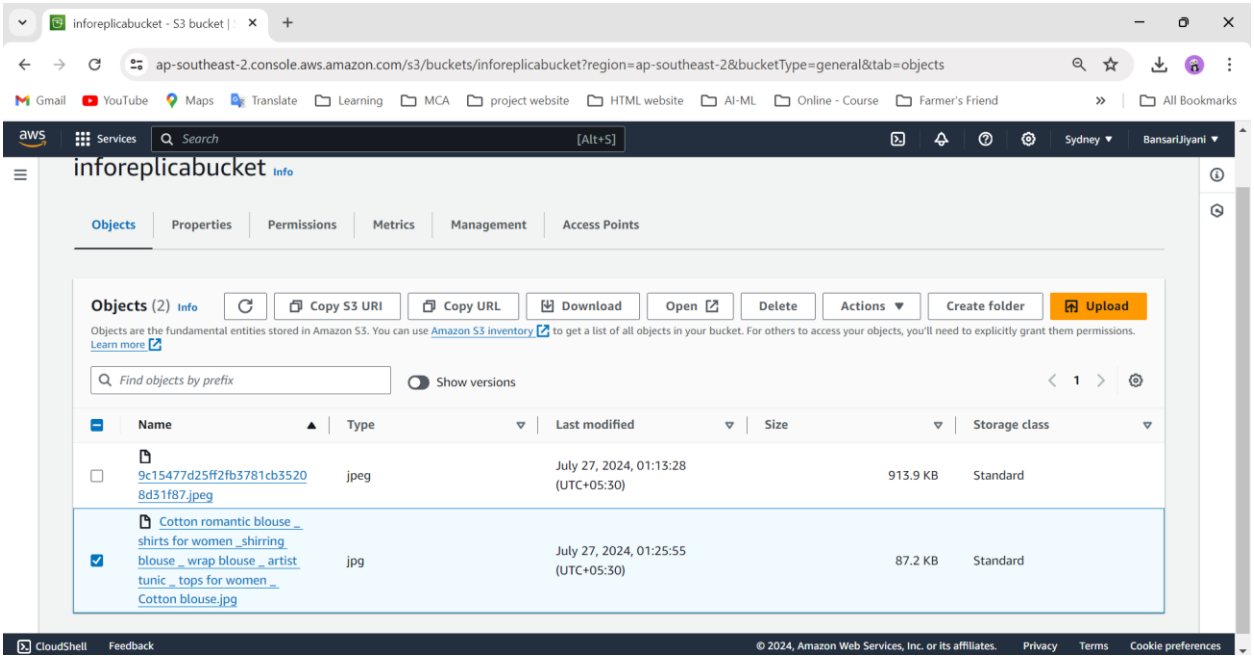


7. Now go to replica bucket and refresh the page and get the files of source bucket.

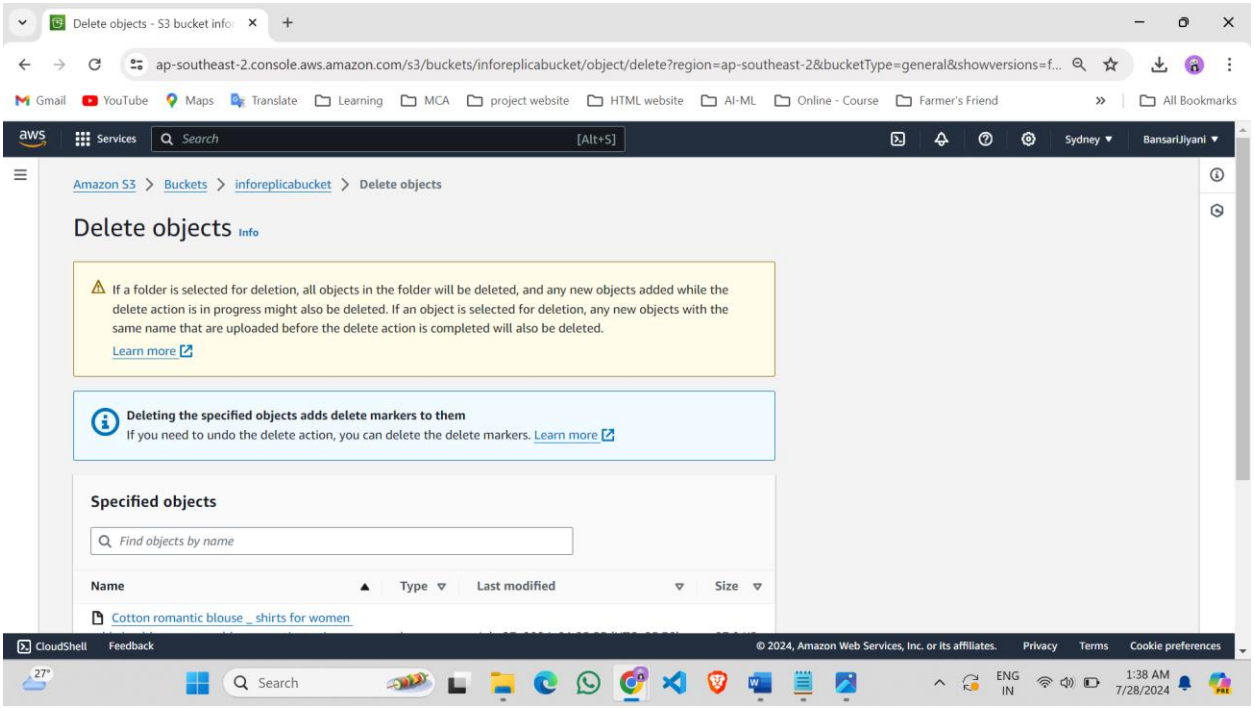


Delete the Object Of Bucket :

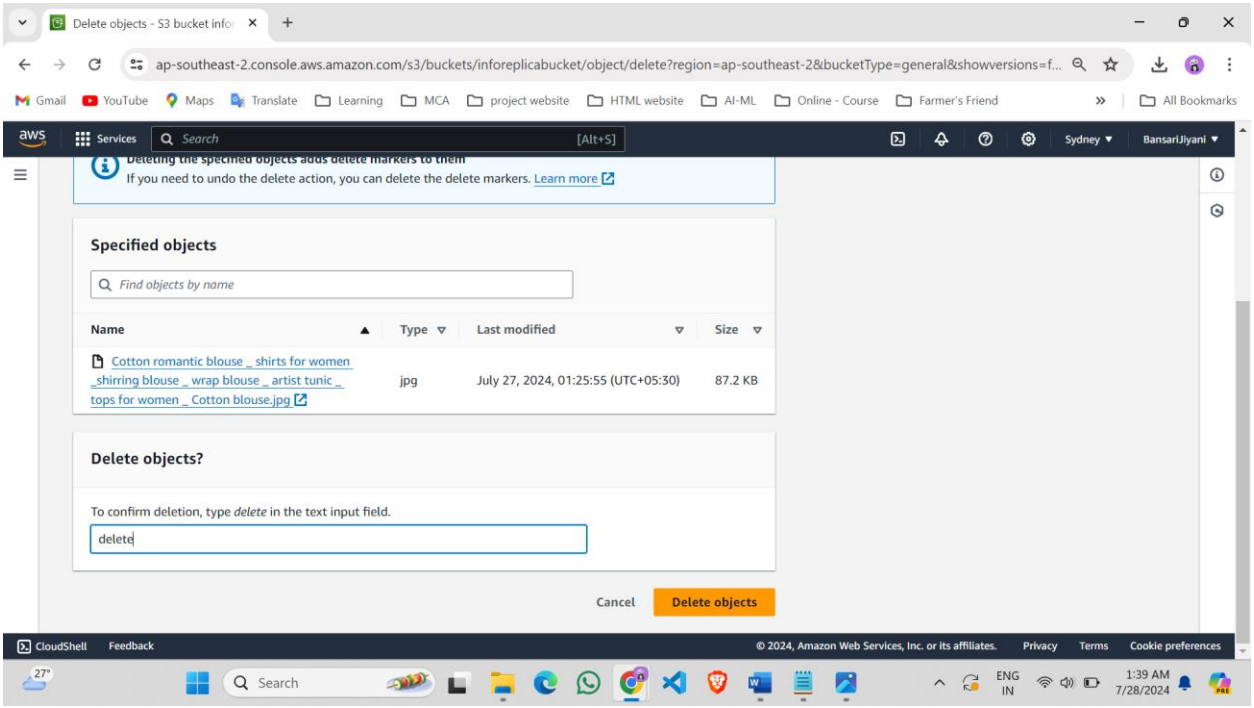
1. Click on the check box.



2. Click on delete Button. And get this screen.



3. Type here Delete.



4. And click on delete object and the object is deleted.