

Day 3: Amazon S3 - Simple Storage Service (S3) Basics

What is Amazon S3?

Amazon S3 (Simple Storage Service) is like an online locker where you can store files like photos, documents, and videos. You can access your files anytime from anywhere using the internet.

Key Concepts:

1. Buckets - Like a Folder A bucket is like a folder that holds your files. Each bucket has a unique name.

Example: You can create a bucket named "my-school-projects" to store all your homework files.

2. Objects - The Files You Store Objects are your actual files (like images, PDFs, etc.) that you upload into your buckets.

Example: Inside your bucket, you might store "math_homework.pdf".

3. Storage Classes - How Often You Use Your Files

Amazon S3 gives you different ways to store files based on how often you use them.

- **Standard:** For files you use often.
- **Infrequent Access:** For files you don't need very often.
- **Glacier:** For files you hardly ever use but want to keep safe.

4. Versioning - Save Every Change

Versioning keeps all versions of your files. If you change or delete something by mistake, you can go back to an older version.

5. Lifecycle Rules - Auto Organizer

You can set rules to automatically move or delete files after a certain time.

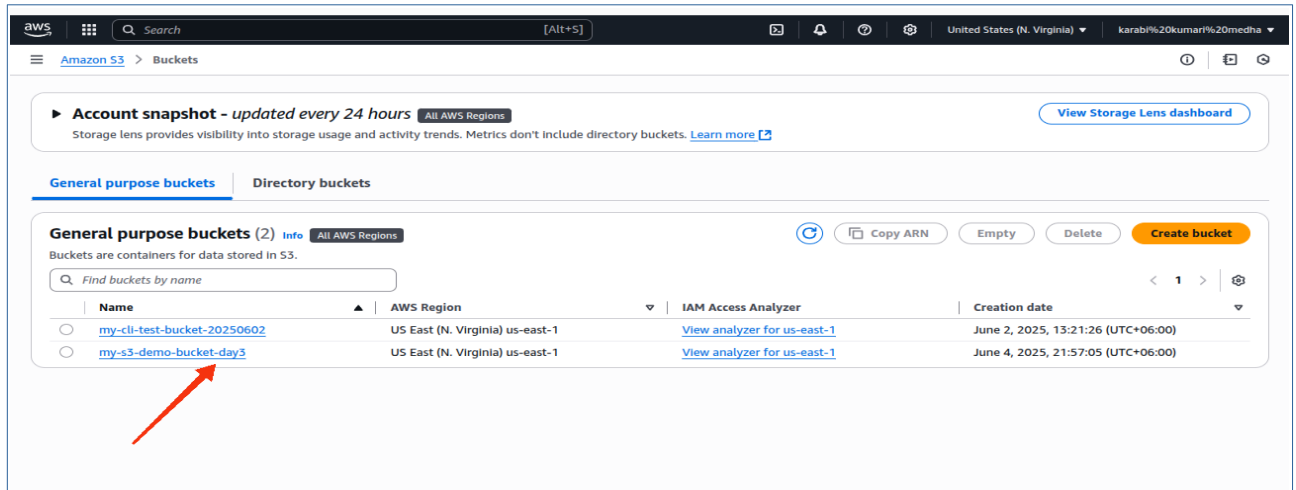
Example: Move files to Glacier after 30 days, or delete after 1 year.

6. Bucket Policies - Who Can Access Your Files? Bucket policies control who can see or use your files. You can keep them private or share them with others.

Challenge & Work in Action!!

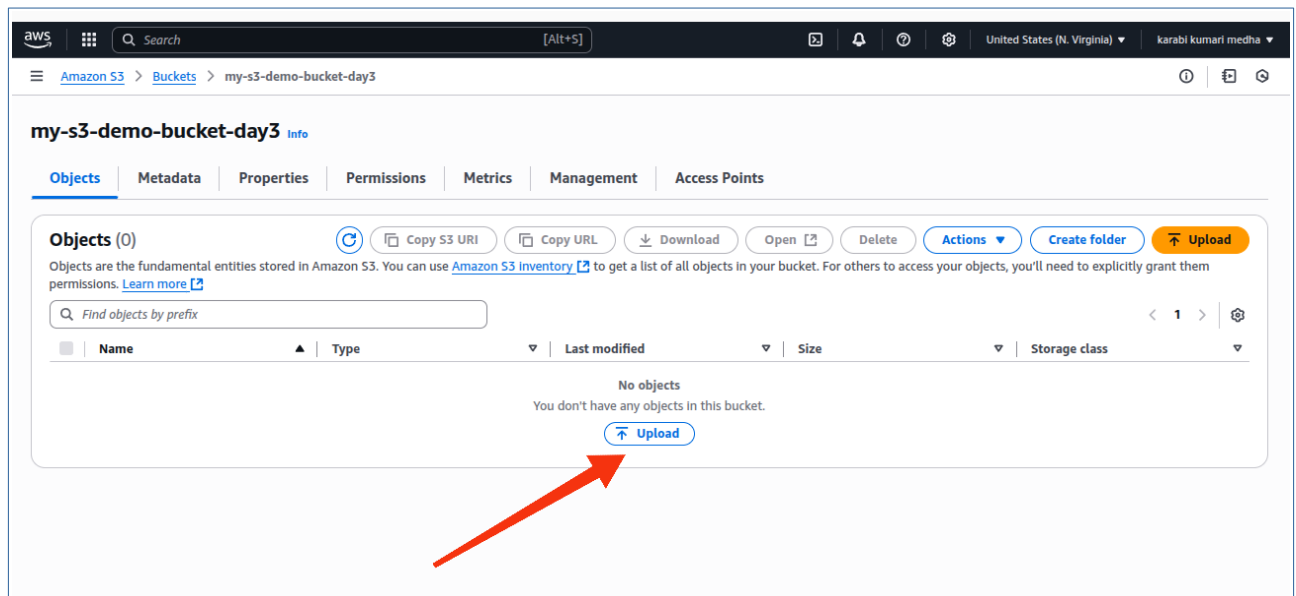
Step 1: Create a Bucket

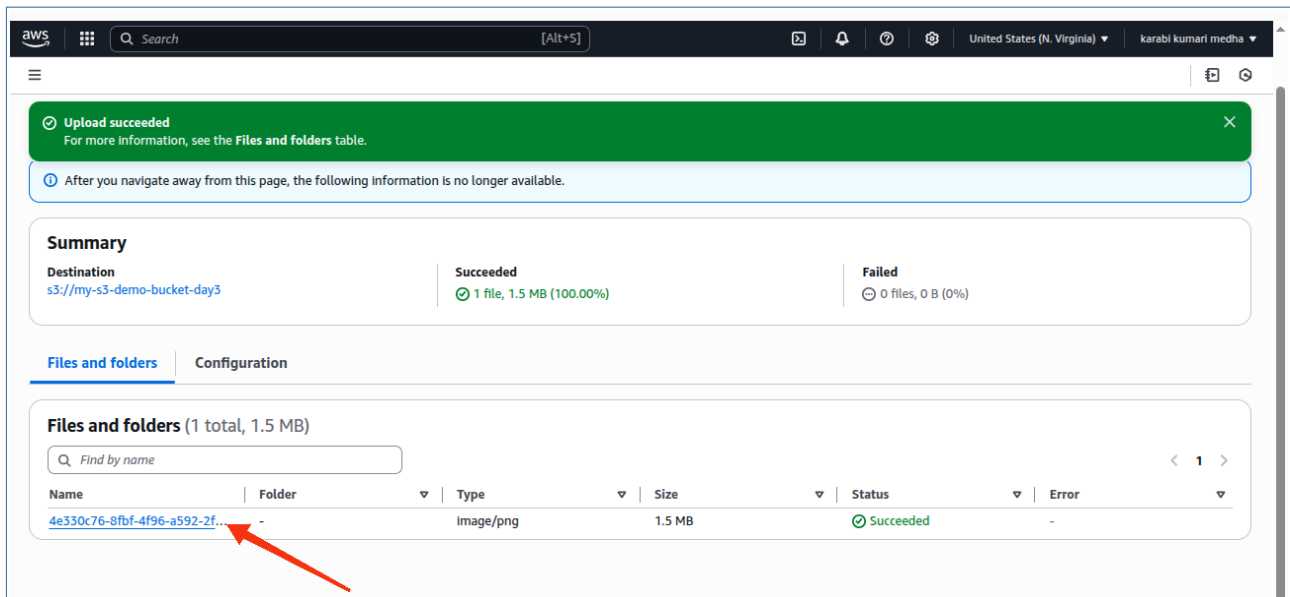
- Go to <https://s3.console.aws.amazon.com/s3>
- Click "Create bucket"
- Enter a unique name and choose a region



Step 2: Upload a File

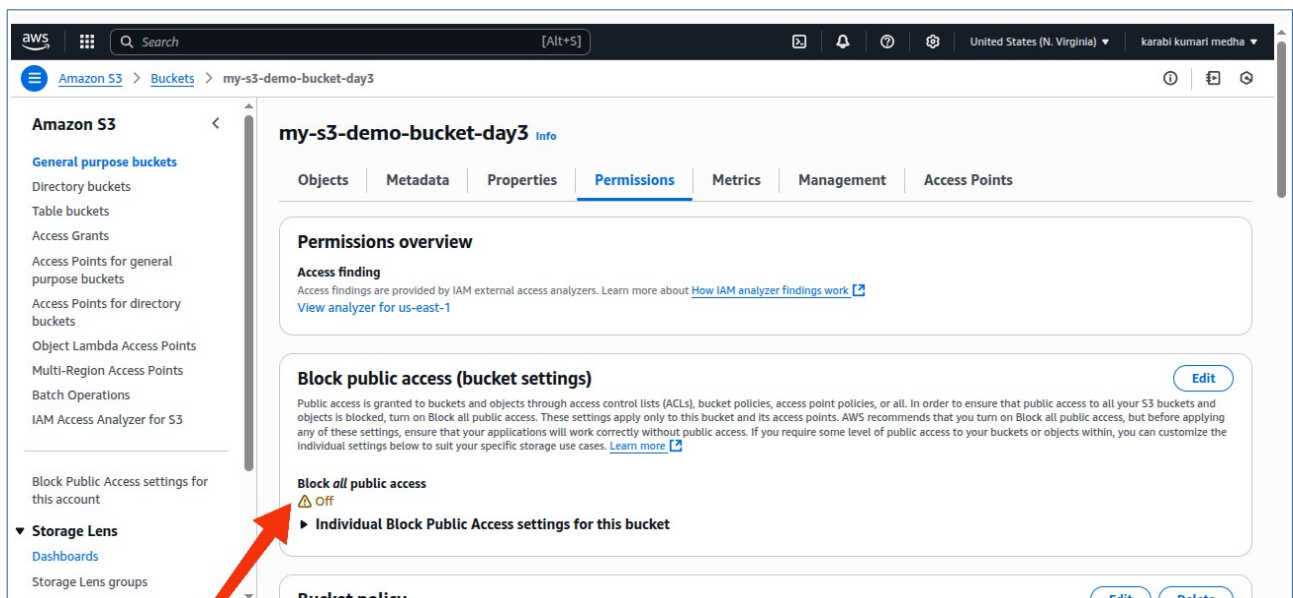
- Open your new bucket
- Click "Upload" and choose a file





Step 3: Make the File Public

- Click on the uploaded file
- Go to the "Permissions" tab
- Enable public access by editing the settings



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Amazon S3 > Buckets > my-s3-demo-bucket-day3

Amazon S3

General purpose buckets

- Directory buckets
- Table buckets
- Access Grants
- Access Points for general purpose buckets
- Access Points for directory buckets
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3

Block Public Access settings for this account

▼ **Storage Lens**

- Dashboards
- Storage Lens groups

Bucket policy

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)

[Edit](#) [Delete](#)

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "PublicReadObject",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3::my-s3-demo-bucket-day3/*"
    }
  ]
}
```

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Amazon S3 > Buckets > my-s3-demo-bucket-day3 > 4e330c76-8fbf-4f96-a592-2f6d46db6f0c.png

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[Copy S3 URI](#) [Download](#) [Open](#) [Object actions](#)

[Properties](#) [Permissions](#) [Versions](#)

Object overview

Owner u1604062	S3 URI s3://my-s3-demo-bucket-day3/4e330c76-8fbf-4f96-a592-2f6d46db6f0c.png
AWS Region US East (N. Virginia) us-east-1	Amazon Resource Name (ARN) arn:aws:s3::my-s3-demo-bucket-day3/4e330c76-8fbf-4f96-a592-2f6d46db6f0c.png
Last modified June 5, 2025, 18:45:06 (UTC+06:00)	Entity tag (Etag) 2e2a2e273677d8556f5cedede91f92b3
Size 1.5 MB	Object URL https://my-s3-demo-bucket-day3.s3.us-east-1.amazonaws.com/4e330c76-8fbf-4f96-a592-2f6d46db6f0c.png
Type png	
Key 4e330c76-8fbf-4f96-a592-2f6d46db6f0c.png	