Understanding AWS S3 Buckets (Short Guide)

1. What is AWS S3?

AWS S3 (Simple Storage Service) is a cloud-based storage service provided by Amazon Web Services. It allows you to store any type of data, such as files, images, videos, backups, and more, over the internet in a secure and scalable way.

2. What is a Bucket?

A Bucket in AWS S3 is like a folder where you store your files. Each bucket must have a globally unique name. You can upload, organize, and manage files (called objects) inside a bucket. Think of it as your cloud storage container.

3. What is an Object?

An Object is any file you upload into an S3 bucket. It can be a document, image, video, or any data file. Each object is stored with a unique key (filename) and metadata inside a bucket.

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4. Steps to Create an S3 Bucket

Step 1: Log in to your AWS account via https://aws.amazon.com/

Step 2: Go to the AWS Management Console and search for "S3"

Step 3: Click "Create bucket"

Step 4: Enter a globally unique bucket name (e.g., akash-bucket-2025)

Step 5: Choose the nearest AWS region (e.g., Asia Pacific - Mumbai)

Step 6: Keep default settings (ACLs disabled, Block Public Access enabled)

Step 7: Scroll down and click "Create bucket"

Your bucket is now created and ready to use!

5. What Can You Do With a Bucket?

- Upload and store files (objects)
- Control who can access them (permissions)
- Organize files using folders (prefixes)
- Host static websites (optional)
- Backup important data