

AWS S3 Bucket

Amazon S3 is a simple storage service in AWS that stores files of different types like photos, Audio, Video as Objects providing more scalability and security. Its features are very robust regarding scaling and securing of data. Some of its features are:

- ① Data Storage
- ② Backup and Recovery
- ③ Hosting Static Website
- ④ Data Archiving
- ⑤ Big data analytics

Scenario to Understand S3

Imagine a company that provides a media streaming service similar to Netflix. Streamly needs to store, process & deliver a large volume of video content to users around the world.

Before S3:

Streamly uses EC2 instances with attached EBS to store videos. They need to manage the storage space, ensuring that they have enough capacity by provisioning & maintaining multiple instances. Scaling is a complex task and costly as users grow. Data durability and availability need to be managed manually, with backups and redundancy handled by the engineering team.

∴ S3 solved all these challenges even helping in delivery of content.

Consider a simpler scenario: Imagine you run out of your memory in your computer. What will you do? By a HDD or SSD or floppy disk and so on. Now, imagine a company runs out of storage, it has very large array of files and file types. It is already using cloud services, ∴ it is easier for it if it could save those in cloud. Hence, comes S3 (Simple Storage Service)

