

S3 Continued.

Various use Cases of Amazon S3 ÷

- Backup and Storage: You can use S3 as a data backup and storage services for others
- Application Hosting: S3 provides services that deploy, install and managed web applications
- Software delivery: On S3, you can host your software applications that customers can download.
- Static website: You can configure a static website to run from an S3 bucket.

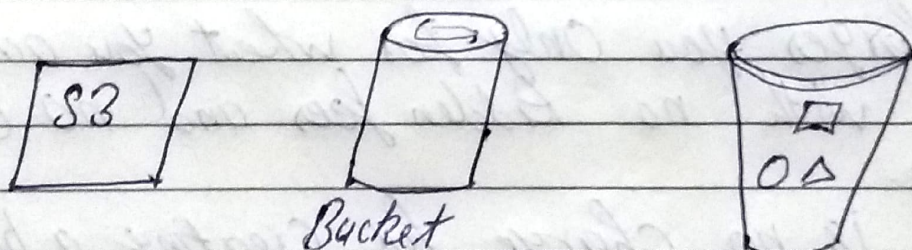
S3 Storage Classes:

Amazon S3 offers a range classes designed for different use cases. S3 Lifecycle Policy can be configured to move data from one storage class to other.

- S3 Standard: S3 standard is used for frequently accessed data. Data stored in S3 standard are durable and immediately available.
- S3 Standard-IA: S3 standard IA is used for infrequent, but less frequently accessed data. It stores data redundantly across multiple availability zones.
- S3 One Zone-IA: S3 standard IA is also used for infrequently accessed data, but it stores data in only one AZ. It is less expensive than standard IA but it doesn't provide protection from AZ failure.
- S3 Glacier: S3 glacier is used for long term data archive. Data stored in S3 Glacier must be restored first before you can access them.

- S3 Glacier Deep Archive: S3 Glacier Deep Archive offers the lowest cost storage in the cloud, at prices lower than storing and maintaining data in on-premises magnetic tape libraries or archiving data offsite.
- S3 Intelligent-Tiering: S3 Intelligent automatically moves data to the most cost effective tier

S3 Bucket and Objects



- S3 stores data as objects within buckets.
- An object consists of a file and optionally any metadata that describes that file.
- The bucket name must be unique across all existing bucket names in Amazon S3.

- After you create the bucket you can't change the name.
- By default you can create up to 100 buckets in each of your AWS accounts.
- Bucket region can't be change after creation.
- You can host static websites by configuring your bucket for website hosting.
- You can control access for each buckets and view the access log for it and its objects.

S3 Pricing →

- S3 charges you only for what you actually use, with no hidden fees and no overage charge.
- There is no charge for creating a bucket but only for storing object in the bucket & for transferring object in & out of the bucket.

S3 Bucket Versioning →

- S3 Versioning helps in making multiple version of the same object in S3 bucket

- You can restore any of the previous of the object when versioning enabled.
- Version-enabled buckets help you to recover object from accidental deletion or overwrite.

S3 Multi-Factor Authentication Delete [MFA Delete]

- MFA Delete is an additional layer of security that requires Multi-factor authentication for changing Bucket Versioning settings & permanently delete object version.
- Only the bucket owner (root account) can enable MFA delete.