



LOGICLABS TECHNOLOGIES

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Amazon Web Services

Simple Storage Service

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Simple Storage Service – S3

- S3 is a secure, durable and highly scalable object storage. S3 is easy to use, with a simple web service interface to store and retrieve any amount of data from anywhere on the web. This means customers of all sizes and industries can use it to store and protect any amount of data for a range of use cases, such as data lakes, websites, mobile applications, backup and restore, archive, enterprise applications, IoT devices, and big data analytics.



S3 - Features

- It is a global service
- Low latency and high throughput performance
- It is a Safe place to store your files
- It is object based storage
- Durability: AWS claims Amazon S3 to have a 99.999999999% of durability. This means the possibility of losing your data stored on S3 is one in a billion.
- A single Amazon S3 object can store maximum of 5 terabytes. The total volume that an s3 bucket can store is unlimited. If an object size is greater than 5 gigabytes, you should consider multipart upload.
- S3 Bucket Names must be unique globally.
- Lifecycle Management
- Versioning
- Encryption
- Secure Your data using Access Control lists & Bucket Policy
- Many AWS Services uses S3 as an Integration as Well

S3 - Restrictions and Limitations

- Bucket ownership is not transferable to another account.
- When we create a bucket, we choose its name and the AWS Region to create it in. After we create a bucket, we can't change its name or Region.
- By default, we can create up to 100 buckets in each of our AWS accounts. If we need additional buckets, you can increase our account bucket limit to a maximum of 1,000 buckets by submitting a service limit increase. There is no difference in performance whether you use many buckets or just a few. (**Note: Search Service Quotas in AWS**) For More Details [Click Here](#)

S3 - Priced

- Amazon Simple Storage Service (Amazon S3) is an elastically scalable object storage service. The service provides a free tier to get you started, with limited capacity for 12 months. [Click Here](#)
- **Storage Tiers:** AWS S3 prices per GB-month of storage, and pricing varies according to the storage tier you select. The AWS S3 Standard tier provides instant access with low data retrieval costs, but a relatively high cost per GB. There are lower cost tiers that offer lower cost per GB, but higher cost of data retrieval or delayed data retrieval.
- **Cost per requests:** AWS S3 has a cost per 1,000 requests, depending on the request type.
- **Data Transfer:** there are extra charges for data transfer from AWS S3 to the Internet, or to certain AWS regions.
- **Management and analytics:** AWS S3 charges extra for automating the data lifecycle and moving data automatically to the most optimal storage tiers.
- **Replication:** if you set up replication in AWS S3, data transfer and operations performed during replication are charged like regular AWS S3 operations.

S3 - Overview of Buckets

- Amazon S3 Allows people to store objects (Files) in the “buckets” (Directories)
- Buckets must have a globally unique names
- Buckets are defined at the region level
- Naming Convention
 - No Uppercase
 - No Underscore
 - 3 – 63 Characters long
 - Not an IP Address (224.245.278.135)
 - Must start with lowercase letter or number

S3 – Create Bucket

- Click on Create Bucket
- Enter the bucket name
- Select the region
- Select ACLs Enabled
- Uncheck the block all public access
- Check the acknowledge
- Click on Create bucket

S3 - Upload Object

- Click on the name of the bucket
- Click on Upload
- Click on Add files
- Select the file which we want to upload in our S3 bucket
- Click on permissions
- Select grant public read access
- Click on Upload

S3 - View Object

- Click on the name of the object
- Go to the properties tab
- Copy the object URL
- Paste in the browser
- Change permission of the object
- Click on the name of the object
- Go to Permission tab

S3 - View Object

- Click on Edit
- Uncheck read access from public access
- Click on save changes
- Paste the object URL in browser



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