

## CLOUD COMPUTING PRACTICAL-2

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i) Storage as a Service - S3 : Amazon Simple Storage Service (Amazon S3) is an object storage service that offers industry-leading scalability, data availability, security, and performance. You can use Amazon S3 to store S3 to store and retrieve any amount of data at any time, from anywhere. Amazon S3 stores data as objects within buckets. An object consisting of a file and optionally any meta data that describes that file. To store an object in Amazon S3, you upload the file. If you want to store to a bucket, when you upload a file, you can set permissions on the object and any meta data. The following are the few wide usage of Amazon S3 service.

**Data Storage:** Amazon S3 acts as the best option for scaling both small and large storage applications. It helps in storing and retrieving the data-intensive applications.

**Backup & Recovery:** Amazon S3 are used to backup critical data and maintain the data durability & availability for recovery needs.

**Data archiving:** Amazon S3 glacier service integration helps as a cost effective solution for long-term data storing which are less frequently accessed applications. Amazon S3 bucket is a fundamental storage container feature in AWS S3 service. It provides secure and scalable repository for storing objects, such as Text data, image, Audio and Video files.

## 2) S3 USE CASES:

1. Data Backup and Archiving: S3 is commonly used for data backup and long-term archiving due to its durability and reliability.
2. Data Storage: S3 serves as a data repository for applications, enabling them to store and retrieve files, assets and other resources.
3. Content distribution: S3 can be used to store static content such as images, videos & downloadable files. Content can be distributed globally to users through Amazon CloudFront.
4. Data Lakes: S3 is often a foundational component of data lake architectures. It allows organizations to store structured & unstructured data in its native format.
5. Big data and Analytics: S3 is commonly used to store raw data for big data & analytics pipelines. It serves as a landing zone for data before processing it with tools like Apache Spark, Hadoop.

## 3) Steps to create an S3 bucket:

1. Log in to the AWS console
2. Search for "Amazon S3"
3. Click S3 - Scalable Storage in the cloud.
4. Click Create Bucket.
5. Enter a name for your bucket
6. Choose an AWS Region
7. Leave the Object ownership category as recommended.
8. Check Block ALL PUBLIC ACCESS in the Block Public Access settings

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9. Choose Disabled in the bucket versioning category.
10. Click Create Bucket