

STORAGE CLASSES IN S3

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1. STANDARD:

- Data is stored in multiple locations
- Frequently accessed data
- This is the default storage classes in s3
- Delivers low latency and high throughput performance
- Designed for 99.99% availability and 99.999999999% (11 9's) durability.
- Cost is High
- Ex: We can store the data, which we use this regularly like websites, mobile applications, gaming applications and big data analysis

2. S3 Standard-Infrequent Access:

- Access less Frequently but requires rapid access when needed
- It offers the same durability and availability but Low cost, compared to Standard
- With this we can pay when we retrieve the data.
- Ex: back-up, long-term data & Disaster recovery

3. S3 One Zone-Infrequent Access:

- It is similar to S3 Standard-Infrequent Access but stores data in a single availability zone.
- If the availability zone experiences any outage then we lost our data
- Cost will be low compared to S3 standard-Infrequent access
- Ex: Secondary backups & Storages that can easily be recreated

4. S3 Intelligent-Tiering:

- It is a storage class which moves data between two access tiers based on changing access patterns.
- This storage class offers frequent and infrequent access tiers, with the option to move data to S3 Glacier or S3 Glacier Deep Archive for long-term archival
- Ex: Data analytic, Multimedia & General-purpose storage.

5. S3 Glacier:

- It is a low-cost storage class that is designed for long-term data archiving.
- It offers very low storage costs but with a retrieval time of several hours.
- S3 Glacier is ideal for data that is rarely accessed but needs to be stored for compliance or regulatory purposes.
- Ex: Long-term archival & Compliance and regulatory requirements

6. S3 Glacier Deep Archive:

- It is the most cost-effective storage class for long-term data archiving.
- It offers the lowest storage costs but with a retrieval time of up to 12 hours.
- S3 Glacier Deep Archive is ideal for data that is required to be stored for long periods and accessed very rarely.
- Ex: Long-term archival & Compliance and regulatory requirements for data retention