S3 - Reduced Redundancy
         Storage

AWS STORAGE PART-5

Storage classes of Amazon S3

Amazon
S3-Standard

Amazon
Glacier

Long term storage

Amazon S3
Glacier Deep
Archive ✓

Amazon S3
Standard Infrequent
Access

Cost less But you pay to access
it more frequently.

Amazon S3
One-Zone
-IA ✓

Amazon S3
Intelligent
Tiering
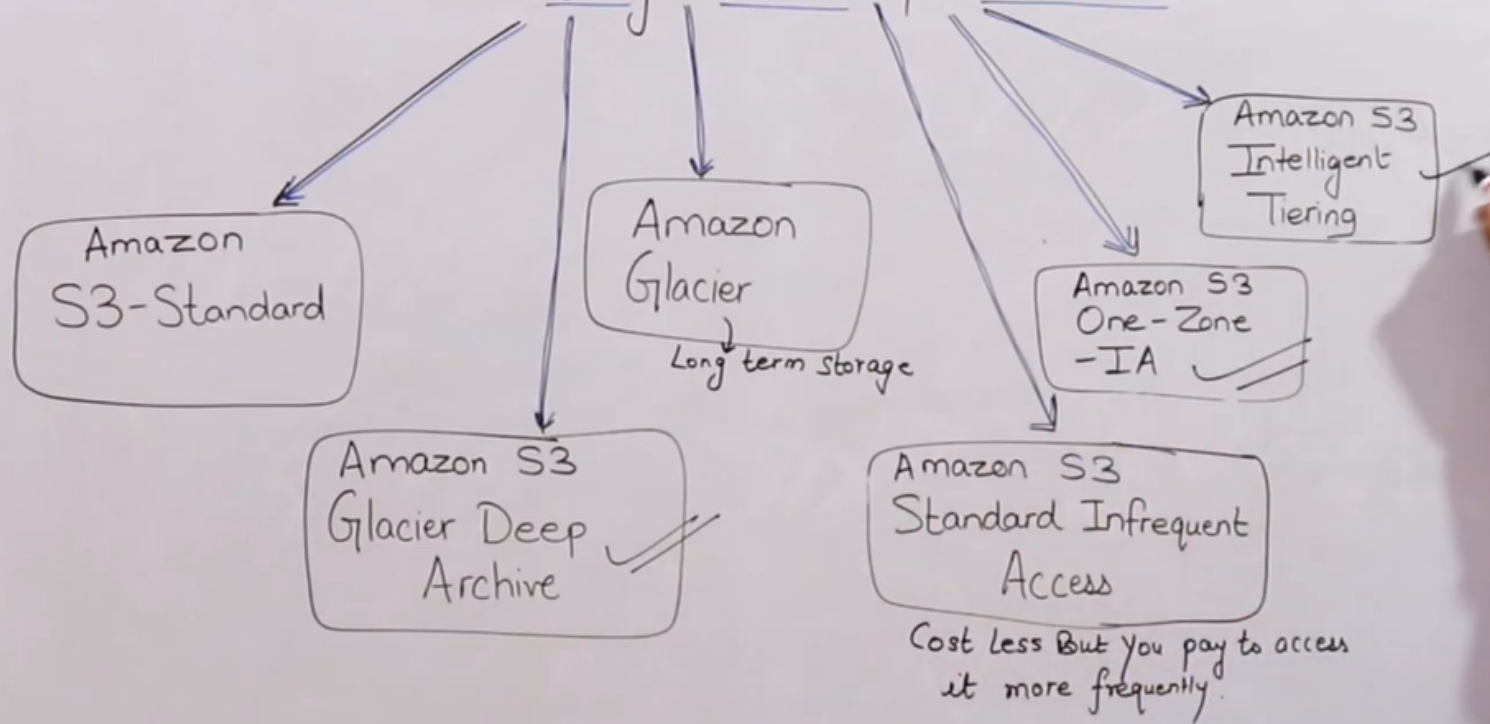
AWS STORAGE PART-5

Amazon S3 Standard

→ S3 Standard offers high durability, availability and Performance object storage for frequently accessed data.

→ Durability is 99.999999999%

→ Designed for 99.99% availability over a given year.

→ Support SSL for data in-transit and encryption of data at rest.

→ The Storage Cost for the Object is fairly high, but there is very less charge for accessing the objects.

→ Largest object that Can be Uploaded in a Single PUT

Amazon S3 -IA

S3-IA is for data that is accessed less frequently, but Requires Rapid access when needed.

→ The storage Cost is much cheaper than S3-Standard, almost half the price. But you are charged more heavily for accessing your objects.

→ Durability is 99.999999999%

→ Resilient against events that impact an entire AZ.

→ Availability is 99.9% in year.

→ Support SSL for data in transit and encryption of data at rest.

→ Data that is deleted from S3-IA within 30 days will be charged for a full 30 days.

→ Backed with the Amazon

Amazon S3 Intelligent Tiering

The S3 Intelligent Tiering storage Class is designed to Optimize Cost by automatically moving data to the most Cost-effective access-tier.

→ It Works by Storing objects in two access tiers.

→ If an Object in the infrequent access tier is accessed, it is automatically moved back to the frequent access tier.

→ There are no Retrieval fees When using the S3-Intelligent Tiering Storage class and no additional Tiering fee when Objects are moved between access tiers.

→ Same Low latency and high performance of S3-standard.

→ Availability is 99.9%.

Try to remember and if you remember then follow

AWS STORAGE PART-5

Amazon One-Zone IA

S3-One Zone-IA is for data that is accessed less frequently, but Requires rapid access when Needed.

→ Data Store in Single AZ.

→ Ideal for those, who want lower Cost option of IA-data.

→ It is good choice for storing Secondary backup Copies of On-premise data or easily Re-Creatable data.

→ You Can use S3 Lifecycle policies.

→ Durability is 99.999999999%

→ Availability is (99.5%)

→ Because S3 One Zone-IA stores data in a Single AZ, data stored in this Storage Class will be lost in the event of AZ destruction.

Amazon S3 Glacier

S3 Glacier is a Secure, durable, low Cost storage class for data Archiving.

→ To Keep Cost low yet Suitable for Varying needs, S3 Glacier Provides three Retrieval Options that range from a few minutes to hours.

→ You Can upload Object directly to Glacier or use Lifecycle Policies.

→ Durability is 99.999999999%

→ Data is Resilient in the event of one entire AZ destruction.

→ Support SSL for data in transit and encryption data at Rest.

→ You Can Retrieve 10 GB of Your amazon S3 Glacier data Per month for free with free tier account.

Amazon S3 Glacier Deep Archive

S3 Glacier Deep Archive is Amazon S3 Cheapest Storage.

→ Design to Retain data for Long Period eg- 10 years

→ All objects Stored in S3-Glacier Deep Archive are Replicated and Stored across atleast at three geographically-dispersed AZ.

→ Durability is 99.999999999%

→ Ideal alternative to magnetic tape libraries.

→ Retrieval time within 12 hours.

→ Storage Cost is upto 75% less than for the existing S3-Glacier storage class.

→ Availability is 99.9%