What Is AWS Cloud Storage?

AWS Cloud Storage is an online storage available as a network and is provided to consumers over a network as Storage as a Service

Data Backup

Application Data

Messaging Data

Muti-Media

Cloud Storage Myths

Cloud Storage Myths

- Consumes a lot of power
- Complexity in Data Storage
- Not for Small Scale Business
- Downtime and Security
- I don't need Cloud at all

AWS Cloud Storage

AWS Cloud Storage Services

EBS (Persistent)	Amazon EC2 (Ephemeral)	Amazon S3	Amazon Glacier

Block

Object

EFS

AWS Storage Services

Amazon S3

Amazon S3 has a simple web services interface that you can use to store and retrieve any amount of data, at any time, from anywhere on the web.

Flexible

Cost Efficient

Durable

Secure

Available

Scalable

AWS Storage Services

Amazon S3:Buckets/Objects

Amazon S3 has a simple web services interface that you can use to store and retrieve any amount of data, at any time, from anywhere on the web.

Buckets

Objects

Data with Key and Version ID

AWS Storage Services

Amazon S3: CRR

Cross-region replication (CRR) enables automatic, asynchronous copying of objects across buckets in different AWS Regions. Buckets configured for cross-region replication can be owned by the same AWS account or by different accounts.

Bucket
1

Bucket
2

AWS Storage Services

Amazon S3: Versioning

You may use versioning to keep multiple versions of an object in one bucket.

Key : Document
Version: 1233333

Key : Document
Version: 4323333

AWS Storage Services

Amazon S3 Classes

Characteristics	Standard	Standard - Infrequent Access	Glacier
Durability	99.99%	99.99%	99.99%
Availability	99.99%	99.90%	N/A
Minimum Object Size	No limit	128KB	No limit
Minimum Storage Duration	No minimum duration	30 Days	90 Days
First Byte Latency	milliseconds	milliseconds	4 hours
Retrieval Fee	No Fee	per GB retrieved	per GB retrieved

AWS Storage Services

Amazon Glacier

This service provides archival storage. Meaning you can store that data here which is not accessed frequently. Here the retrieval time is more but it is affordable and cheaper. This service is rightly named Glacier because it is used to store cold or archival data.
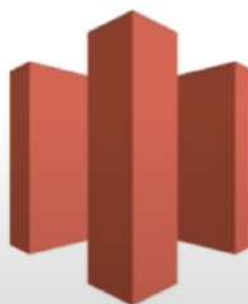
Archives

Vaults

AWS Storage Services

Amazon Elastic Block Store

As the name suggests this storage is a type of block storage that is made for using with Amazon EC2. It comes as attached to Amazon EC2 instances just like hard drives attached to your system. This storage is persistent in nature.

If you are looking for high throughput and high transactional workloads you can opt for Amazon Block Store