**Amazon Simple Storage Service(S3):**

* Object storage service provided by AWS.
* Used for mobile/web applications, Big data, Machine learning.
* Stored in containers called Buckets.
* Bucket name is unique and limit of 100 buckets per AWS account.

***Features:***

* Durability – No loss of data.
* Server Side Encryption(SSE)
  + SSE-S3 - AWS S3 manages encryption Keys
  + SSE-C - Customer manages the encryption keys
  + SSE-KMS – AWS Key Management Service(KMS) manages the encryption keys
* It can hold files of size upto 5TB.
* Infinite storage space.
* It is Region specific.
* Pay as you use.

***Storage Classes:***

* ***Standard*** – Suitable for frequently access data.
* ***Standard Infrequent Access*** – Cheaper data storage and suitable for infrequently accessed data like logs or data archives.
* ***Intelligent Tiering*** – Automatically classifies your files into frequently accessed and infrequently accessed data and stores accordingly.
* ***One Zone Infrequent access*** – Usually one file have 3 stored copies in 3 available zones and suitable for Infrequent data storage.
* ***Reduced Redundancy Storage(RRS)*** – It is less durable and it stores non-essential data.