

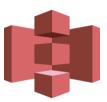
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Introduction to S3



Introduction to S3

What is S3?

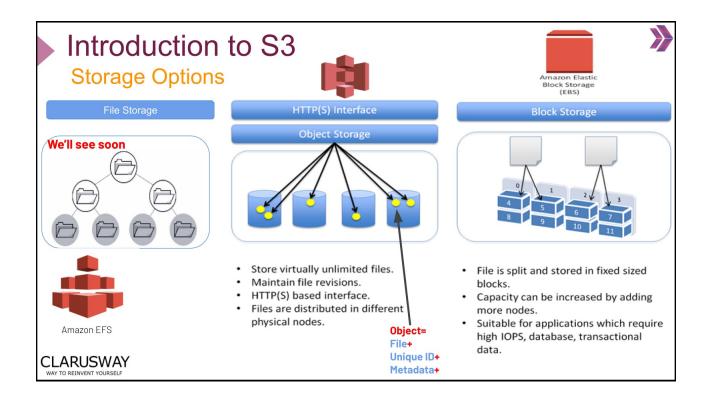




 One of AWS's oldest services, Amazon S3 could be defined as AWS object-based file storage service.



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Introduction to S3

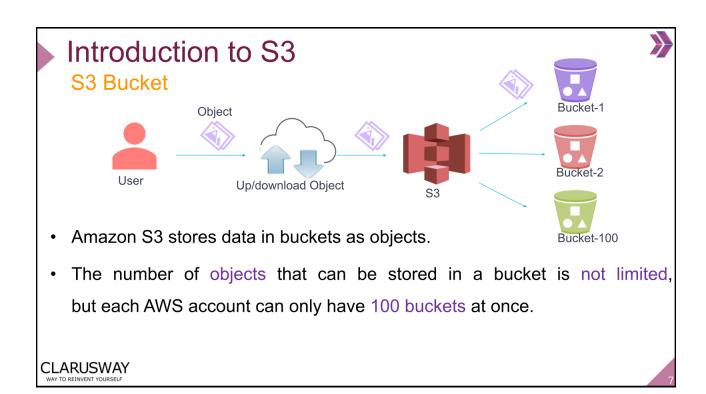
What is S3 Bucket?



- A bucket is a logical storage unit used to store objects in AWS.
- A bucket can also be considered as a container.



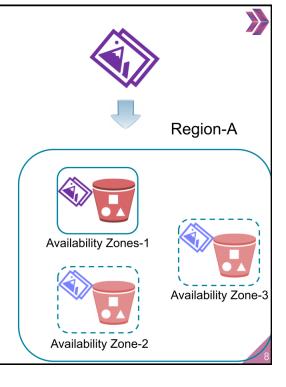
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Introduction to S3

S3 Bucket

- S3 is a global service, but a region must be selected
- · Bucket's name must be unique.
- Objects is stored in a minimum of 3 Availability Zones (AZs) in an Amazon S3 Region.



Introduction to S3

What is an Object in S3?













5 TB

CLARUSWAY

Introduction to S3

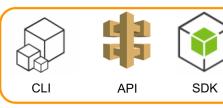
Object in S3-Upload





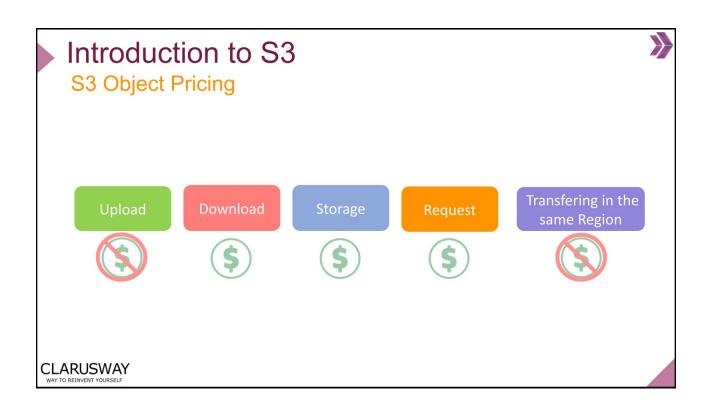


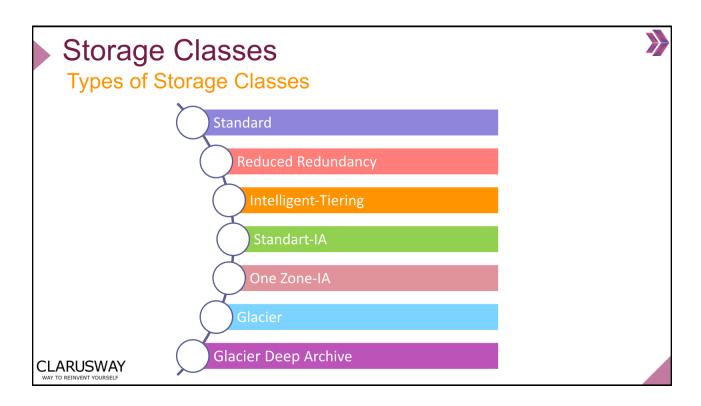




Over 160 GB

- The max. size of an object you can upload via AWS Management Console is 160 GB.
- For uploading a file greater than 160 GB, the AWS CLI, AWS SDK, or API is needed to be used





Standard Class











Cloud Applications

Mobile Games

Website Hosting

- Standard is the default storage class unless you change
- This is the basic storage solution for frequently accessed data
- Reliability at 99,999999999%
- Availability at 99,99%
- Cloud applications and web-services, mobile games and website hosting are some example of use case

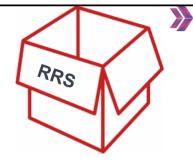
Storage Classes

Reduced Redundancy (RRS)

Non critical Data







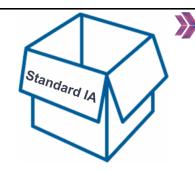
- RRS class offering less redundancy is a modified version of Standard storage class
- · It is designed for non critical and reproducible data
- · The main difference between RRS and Standard class is reliability
- While reliability of Standard storage class is 99,999999999%, reliability of RRS class is 99,99 %
- It provides cost saving compare to Standard class for the non critical data.

Standard IA (Infrequent Access)

Infrequently Accessed Data







- Standard IA (Infrequent Access) is a convenient for infrequently accessed files
- Less frequent access, but longer storage time than the Standard class
- · It is cheaper than Standard

CLARUSWAY
WAY TO REINVENT YOURSELF

Storage Classes

One Zone IA (Infrequent Access)

Infrequently Accessed & Non Critical Data





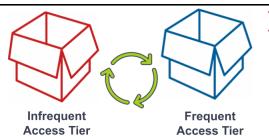


- One Zone IA class is a modified version of Standard IA.
- It is 20 percent cheaper than Standard IA due to less availability.
- Unlike others, One Zone IA stores data only in one availability zone, instead of three availability zones
- One-Zone IA can be prefered when you have infrequently accessed and noncritical files

Intelligent Tier

Unpredictable Access Patterns





- It is designed to optimize storage costs by automatically moving data to the most cost-effective storage access tier.
- There are two access tiers: one tier that is optimized for frequent access and another lower-cost tier is optimized for infrequently access
- It is ideal, if your access patterns are unknown or unpredictable.

Storage Classes

Amazon Glacier

Archives & Backup Copies of Databases







- It is a perfect solution for long-term storage and data archiving that doesn't require instant access.
- Minimum storage duration period is 90 days and can be accessed at least in 1-5 minutes
- If you have deleted, overwritten, or transitioned to a different storage class an object before the 90-day minimum, you are charged for 90 days.





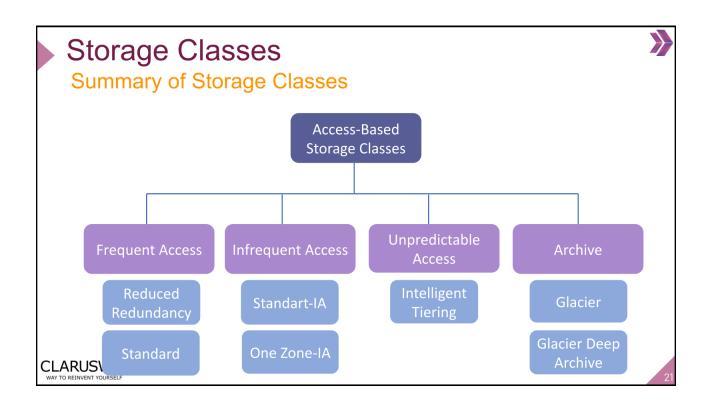
Infrequently Accessed & Non Critical Data







- · It is used for archiving data that rarely need to be accessed.
- It is the lowest cost storage option in AWS.
- The retrieval time is 12-48 hours
- Minimum storage duration period is 180 days and a default retrieval time of 12 hours. If you interact with the object in 180 you'll be charged for 180 days.



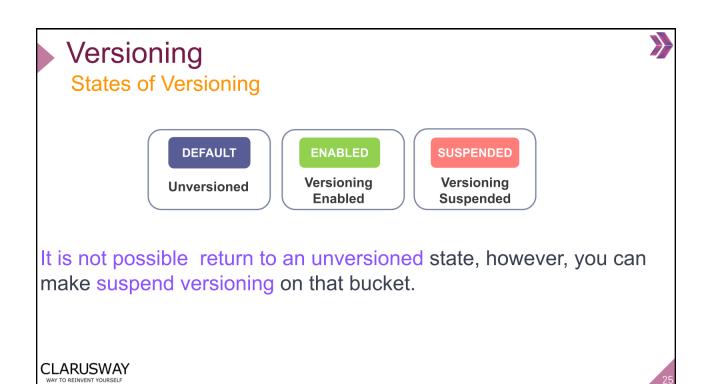
Versioning

What is Versioning?



- Versioning is a way to keep multiple versions (deleted and changed versions)
 of an object in a bucket.
- By using versioning, all unwanted user behavior and program errors can be quickly recovered.







- Static Website Hosting is a website that contains simple web components.
- Uses HTML, CSS, images, etc.
- No server, database or any application code.

