S3 provides developers and IT teams with secure, durable, highly-scalable object storage. Amazon S3 is easy to use, with a simple web services interface to store and retrieve any amount of data from anywhere on the web.

S3 is a safe place to store your files.

It is Object based storage.

The data is spread across multiple devices and facilities

- S3 is Object based i.e. allows you to upload files.
- Files can be from 0 Bytes to 5 TB.
- There is unlimited storage
- Files are stored in Buckets.
- S3 is a universal namespace, that is, names must be unique globally
- https://s3-eu-west-1.amazonaws.com/acloudguru
- When you upload a file to S3 you will receive a HTTP 200 code if the upload was successful.

- Read after Write consistency for PUTS of new Objects
- Eventual Consistency for overwrite PUTS and DELETES (can take some time to propagate)

- S3 is Object based. Objects consist of the following;
  - Key (This is simply the name of the object)
  - Value (This is simply the data and is made up of a sequence bytes).
  - Version ID (Important for versioning)
  - Metadata (Data about the data you are storing)

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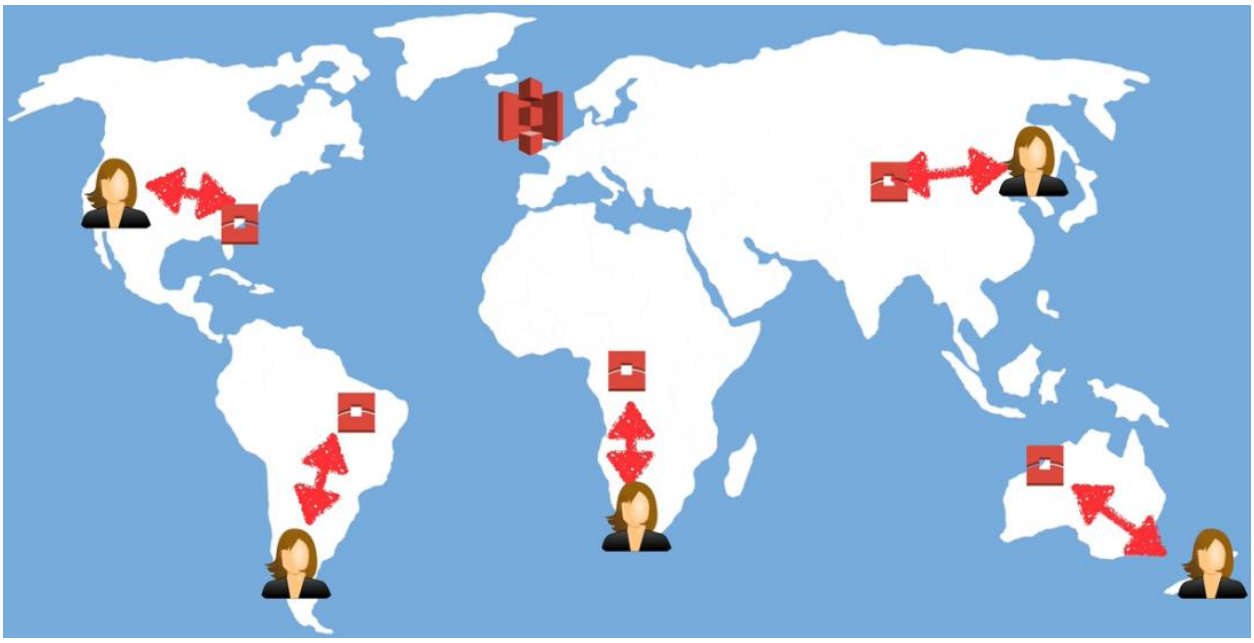
  - Subresources
    - Access Control Lists

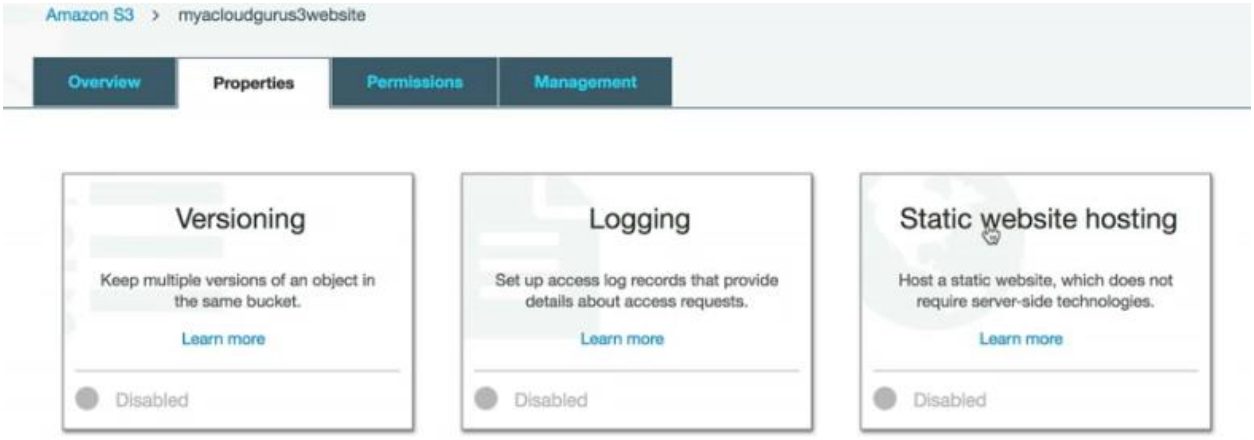
- Built for 99.99% availability for the S3 platform.
- Amazon Guarantee 99.9% availability
- Amazon guarantees 99.999999999% durability for S3 information. (Remember 11 x 9's).
- Tiered Storage Available
- Lifecycle Management
- Versioning
- Encryption
- Secure your data using Access Control Lists and Bucket Policies

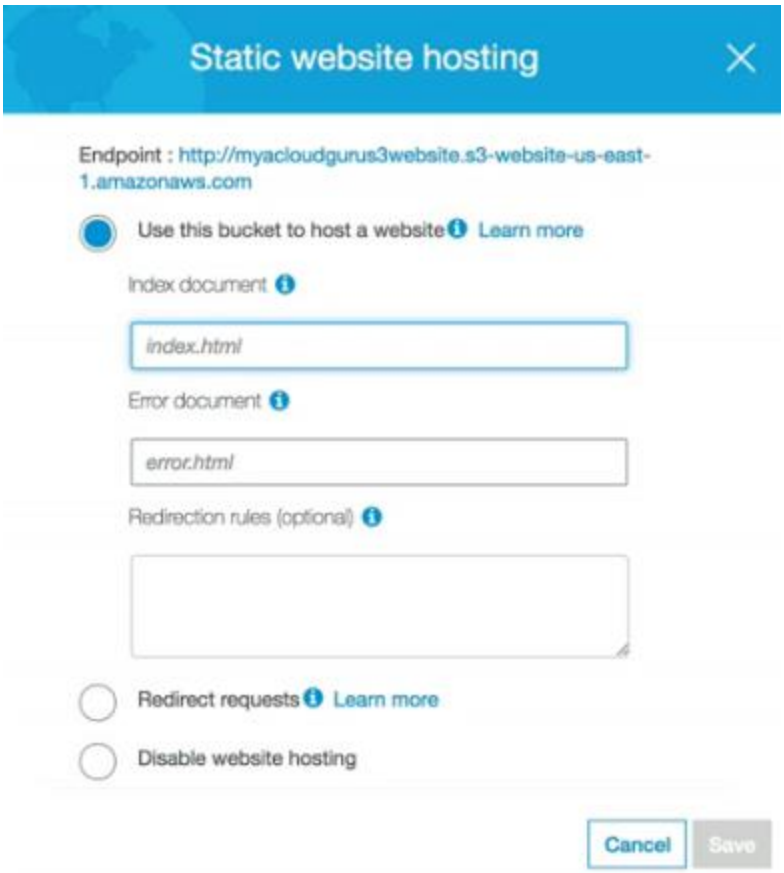
- S3 - 99.99% availability, 99.999999999% durability, stored redundantly across multiple devices in multiple facilities and is designed to sustain the loss of 2 facilities concurrently.
- S3 - IA (Infrequently Accessed) For data that is accessed less frequently, but requires rapid access when needed. Lower fee than S3, but you are charged a retrieval fee.
- Reduced Redundancy Storage - Designed to provide 99.99% durability and 99.99% availability of objects over a given year.
- Glacier - Very cheap, but used for archival only. It takes 3 - 5 hours to restore from Glacier.

	Standard	Standard - Infrequent Access	Reduced Redundancy Storage
Durability	99.999999999%	99.999999999%	99.99%
Availability	99.99%	99.9%	99.99%
Concurrent facility fault tolerance	2	2	1
SSL support	Yes	Yes	Yes
First byte latency	Milliseconds	Milliseconds	Milliseconds
Lifecycle Management Policies	Yes	Yes	Yes

Amazon S3 Transfer Acceleration enables fast, easy, and secure transfers of files over long distances between your end users and an S3 bucket. Transfer Acceleration takes advantage of Amazon CloudFront's globally distributed edge locations. As the data arrives at an edge location, data is routed to Amazon S3 over an optimized network path.




Amazon S3 › myacloudgurus3website
Overview
Properties
Permissions
Management
Versioning
Keep multiple versions of an object in the same bucket.
Learn more
Disabled
Logging
Set up access log records that provide details about access requests.
Learn more
Disabled
Static website hosting
Host a static website, which does not require server-side technologies.
Learn more
Disabled



CORS Configuration demo

1. Create a bucket in London region named MyIndexWebsiteBucket
2. Create another bucket called MyCORSBucket and keep the load page there
3. In the index.html mention the link of the loadpage and upload index and error
4. In the MyCORSBucket bucket go to CORS config and give the website link of MyIndexWebsiteBucket in the allowed origin XML