

## Chapter 4: S3

Rahul Daware

May 9, 2018

## What is S3?

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 - The Basics

- 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. (Buckets are folder in cloud. Each bucket has universal namespace. Each bucket will have a DNS address. Bucket names have to be unique.
- S3 is a universal namespace. i.e. names must be unique globally.
- URL look like this : <https://s3-eu-west-1.amazonaws.com/acloudguru>
- When you upload a file to S3, you will receive a HTTP 200 if the upload was successful

## Data Consistency Model for S3

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

## S3 is a simple key-value store

S3 is object based. Objects consists of the following:

- Key (This is simply name of the object)