



This study guide demonstrates the lessons from *Introduction to S3 – Unlimited Object Storage in S3*.

My full AWS Architect Associate course can be found here:

<https://www.udemy.com/course/ultimateaws/?referralCode=7ED214B795C444141361>

Study Guide: S3 Basics

This lesson provides a comprehensive overview of fundamental concepts related to Amazon S3 (Simple Storage Service), a core component of AWS cloud storage.

1. Object Storage vs. Block Storage:

- Object Storage (S3): S3 is introduced as a classic example of object storage, akin to services like Dropbox. It is ideal for storing files and objects such as photos, HTML files, and videos. Unlike block storage, object storage is not used for installing operating systems or databases.
- Block Storage: The lesson explains that block storage, unlike S3, is used for booting computers and installing applications. It includes hard drives and LUNs on storage arrays.

2. S3 as Hosted Object Storage:

- S3 Overview: S3 is presented as a hosted object storage solution within the AWS cloud, offering exceptional durability. The AWS documentation reveals that S3 provides 11 nines of durability, making data loss highly unlikely.
- Use Cases: The lesson discusses various use cases for S3, including storing backups, videos, images, and website content. The instructor emphasizes S3's unlimited storage capacity for files and objects.

3. S3 Characteristics:

- Object Size: Each individual object in S3 can be a maximum size of five terabytes, offering flexibility for handling large files.
- Unlimited Storage: S3 is described as providing virtually unlimited storage capacity, making it suitable for diverse storage needs.

4. Creating a Static Website with S3:

- Unique Naming: S3 buckets must have unique names, ensuring that each bucket has a unique DNS name on the internet.
- Internet Accessibility: While S3 buckets are not internet-accessible by default, the lesson details how to make contents accessible by configuring DNS records.

- Use Case Example: A practical use case is explored, demonstrating how to create a static website using S3 by storing HTML files, images, and other necessary objects in an S3 bucket.

5. Summary and Analogy:

- S3 as Dropbox of AWS: The lesson concludes by summarizing S3 as an unlimited storage capacity solution for files, likening it to the functionality of Dropbox within the AWS ecosystem.

Static Website Hosting

Amazon S3 serves as a powerful and cost-effective solution for hosting static websites within the AWS cloud environment. To host a static website using S3, users can follow a straightforward process. First, an S3 bucket needs to be created with a unique name, adhering to the DNS naming conventions. This bucket acts as a container for storing the various components of the static website, including HTML files, images, videos, scripts, and other related objects.

Once the necessary files are uploaded to the S3 bucket, users configure the bucket's permissions and make it accessible over the internet. By default, S3 buckets are not internet-accessible, providing a layer of security. To enable public access, users can set up the appropriate permissions and configure DNS records. The unique DNS name assigned to the S3 bucket ensures that each bucket is distinguishable on the internet, allowing users to create a custom web address for their static website. This process makes the contents of the S3 bucket reachable globally, providing a scalable and reliable infrastructure for hosting static web content.

In summary, Amazon S3 simplifies the hosting of static websites by offering a scalable and durable storage solution. Users can leverage the unique DNS names assigned to S3 buckets, ensuring accessibility over the internet, and configure the necessary permissions for public access. The ability to store and serve web content directly from S3 makes it an efficient choice for hosting static websites with the added benefit of seamless integration with other AWS services for enhanced functionality and performance.

See slides below:

Object vs. Block Storage



What is S3?



- This is a key part of the AWS Certified Solutions Architect Associate exam.
- Simple file storage
- Designed to deliver 99.999999999% durability
- Many use cases

S3 Object Based Storage



- This is a place to store files
- You can't install your O.S. or databases here
- Maximum file size is 5 TB
- Unlimited Capacity
- Tolerates the failure of two facilities without losing access to objects

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Use Case – Static Website



- Each bucket has a unique name
- Each bucket has a unique DNS name
- Can be potentially reachable on the Internet
- By default they are not

www.example.com

DNS Record (Public hosted zone)

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