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This lab demonstrates the steps from *Demo: Create an S3 Bucket*

My full AWS Architect Associate course can be found here:

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

Lab Guide: Creating and Managing Amazon S3 Buckets

Amazon S3 (Simple Storage Service) is a fundamental AWS service that provides scalable and reliable storage for various data types and use cases. In this chapter, we will explore how to create an S3 bucket, manage its properties, and understand the concepts of permissions and public access. Additionally, we'll briefly cover uploading objects and making them accessible.

Section 1: Introduction to Amazon S3 Buckets

Understanding Amazon S3

- Amazon S3 is a globally distributed object storage service offered by AWS.
- S3 is commonly used to store and manage a wide range of data, including backups, media files, and static website assets.

Creating an Amazon S3 Bucket

- AWS provides a straightforward process for creating an S3 bucket through the AWS Management Console.
- Bucket names must be unique across all of AWS, as they serve as part of the bucket's URL.

Section 2: Step-by-Step Guide to Creating an S3 Bucket

Launching the AWS Management Console

- Access the AWS Management Console by navigating to the AWS login page and signing in with your credentials.

Accessing the Amazon S3 Console

- After logging in, you can locate the S3 service by either selecting it from the AWS dashboard or by typing "S3" in the search bar and clicking on the Amazon S3 option.

Selecting the Region

- When accessing the S3 console, the region is set to "Global" because S3 buckets are global resources.
- However, when creating a new bucket, you can choose the specific region where you want to place it.

Creating a New Bucket

- Provide a unique name for your S3 bucket, ensuring it adheres to AWS naming conventions.
- Select your preferred region for the bucket.

Section 3: Understanding Amazon S3 Bucket Settings

Default Settings

- By default, most of the bucket settings are set to their standard values.
- These settings include permissions, logging, events, and tags.

Making a Bucket Public

- You can choose to make your S3 bucket public, allowing anyone to access its contents.
- It's essential to be cautious when configuring public access to prevent unauthorized access.

Section 4: Uploading Objects to an S3 Bucket

Uploading Files

- AWS S3 allows you to upload files to your S3 bucket from your local device or an existing storage location.
- Files can be uploaded individually or in bulk.

Configuring Object Properties

- When uploading objects, you can configure settings such as access control and storage class.
- These settings can influence the cost and security of storing objects in the S3 bucket.

Making Objects Public

- You have the option to make uploaded objects accessible to the public or restrict access.

Review and Key Takeaways

- Amazon S3 is a versatile and scalable storage service for various types of data.
- Creating an S3 bucket involves selecting a unique bucket name and choosing the region for its storage.
- Default settings, permissions, and object properties can be configured to match your specific use case and security requirements.
- Uploading objects to an S3 bucket allows you to store, manage, and share data efficiently.
- It's crucial to understand the implications of public access settings to maintain data security and privacy.

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