Task-1
Deploying a website using aws S3

Introduction

Amazon S3 (Simple Storage Service) is a highly scalable and cost-effective cloud storage solution provided by Amazon Web Services (AWS). In addition to storing files, it can also be used to host static websites. This report will guide you through the process of setting up a simple static website on Amazon S3.

I. Prerequisites:

Before proceeding with the setup, ensure that you have the following:

An AWS account: Sign up for an AWS account if you don't have one already.

A registered domain name (optional): If you want to use a custom domain for your website, register a domain from a domain registrar.

II. Steps to Set Up a Simple Static Website on Amazon S3:

Step 1: Create an S3 bucket

Log in to the AWS Management Console.

Open the Amazon S3 service.

Click on "Create bucket" to start the bucket creation process.

Provide a unique bucket name and choose a region.

Click "Next" and keep the default settings for the subsequent screens.

Finally, click "Create bucket" to complete the creation process.

Step 2: Enable website hosting

Select the newly created bucket from the S3 bucket list.

Go to the "Properties" tab and click on "Static website hosting."

Choose the option "Use this bucket to host a website."

Enter the name of the index document (e.g., "index.html") and the error document (optional).

Click "Save" to enable website hosting for the bucket.

Step 3: Upload your website files

Open the "Overview" tab of your bucket.

Click on "Upload" to upload your website files (e.g., HTML, CSS, JS) or drag and drop them into the bucket.

Once the files are uploaded, make sure that the index document is present.

Step 4: Configure bucket permissions

In the "Properties" tab, click on "Permissions."

Under "Block public access," click on "Edit" and disable "Block all public access."

Configure the bucket policy and CORS (Cross-Origin Resource Sharing) settings as per your requirements. For a simple website, you can allow public read access to all objects.

Save the changes.

Step 5: Test your website

Go back to the "Static website hosting" section under the "Properties" tab.

Note down the endpoint URL provided under the "Endpoint" field.

Open a web browser and paste the endpoint URL to access your website.

Verify that your website is displayed correctly.

Conclusion:

Setting up a simple static website on Amazon S3 is a straightforward process. By following the steps outlined in this report, you can create an S3 bucket, enable website hosting, upload your website files, configure bucket permissions, and test your website. Amazon S3 provides a reliable and cost-effective solution for hosting static websites, making it a popular choice for many developers and organizations.

Screenshots: