Static Website Hosting on AWS S3

Introduction

In this documentation, I'll walk you through how I built and deployed a static website using **AWS S3** (Amazon Simple Storage Service). With AWS S3, I was able to host my website quickly, securely, and at a low cost. S3's powerful features made it an ideal choice for my project, and in this guide, I'll show you how I leveraged them for hosting my static site.

Project Overview

The static website I created consists of the following core components:

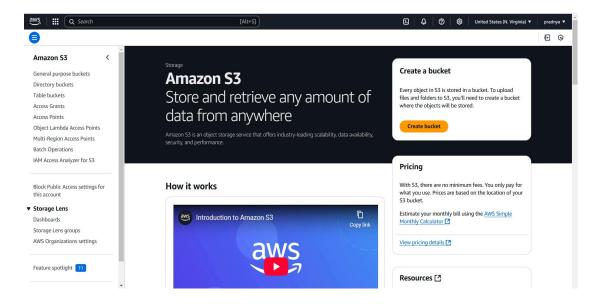
- HTML: The basic structure of the website, including the layout and content.
- CSS: The styling that makes the website look appealing and userfriendly.

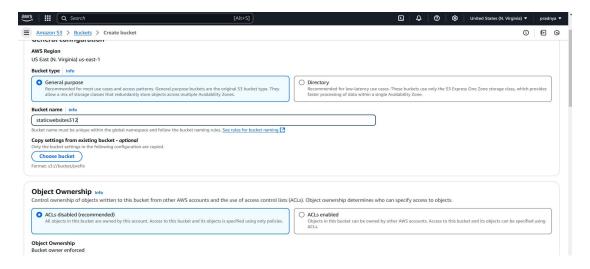
Steps to Deploy the Static Website on AWS S3

A. Create an S3 Bucket

First, I created an S3 bucket to store my website files:

- 1. Go to the AWS S3 console.
- 2. Click on "Create Bucket" and choose a unique name for the bucket.

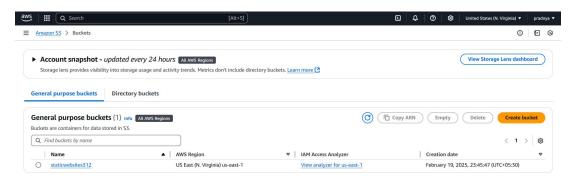


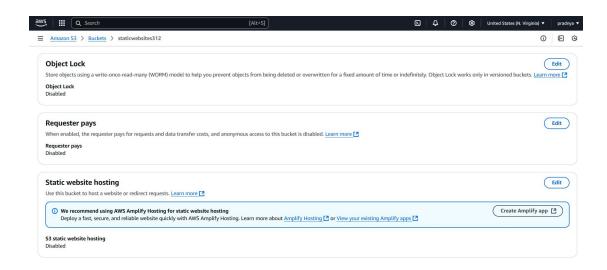


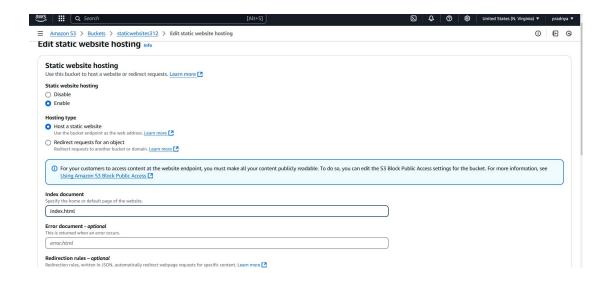
B. Enable Static Website Hosting

Once the S3 bucket was created, I enabled static website hosting:

- 1. Inside the S3 bucket, I navigated to the "Properties" tab.
- 2. Under the "Static website hosting" section, I selected "Enable".
- 3. I specified index.html as the index document (the main page for the site)



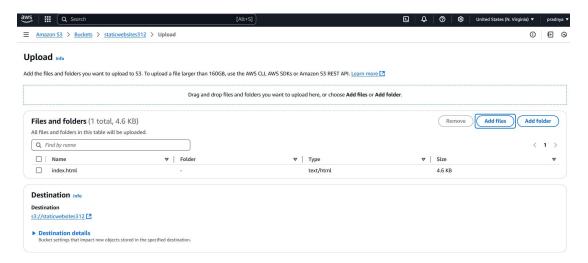




C. Upload Files to S3

Next, I uploaded my website files to the S3 bucket:

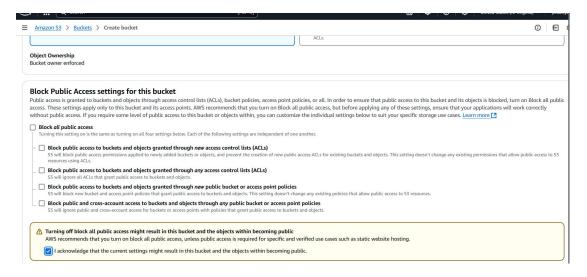
- 1. In the S3 console, I clicked on the "Upload" button.
- 2. I uploaded the index.html file



D. Permissions

To ensure my website was publicly accessible, I set the appropriate permissions:

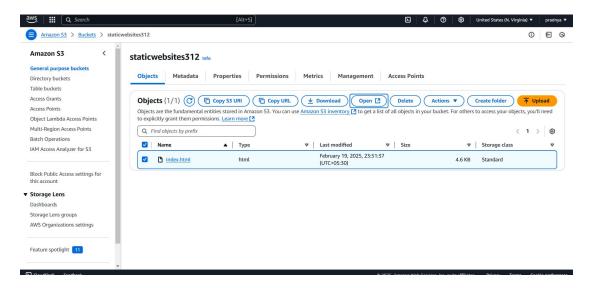
- 1. In the permissions tab, I selected "Bucket Policy" and added a policy to allow public access to the files.
- 2. This ensured that users could access my website without any restrictions.



Access Your Website

After everything was uploaded and permissions set, I accessed my website:

- AWS provided a URL to access my static website, which looked something like http://<bucket-name>.s3-website-<region>.amazonaws.com/.
- 2. I tested the link to make sure my website was live and accessible to everyone.



Welcome to My Static Website

Hosted on AWS S3!

About the S3 static website Project

This project demonstrates how to create and deploy a static website on AWS S3, leveraging its scalability and cost-effectiveness.

Benefits of Using AWS S3 for Static Websites

 $\textbf{Scalability:} \ \mathsf{AWS} \ \mathsf{S3} \ \mathsf{automatically} \ \mathsf{scales} \ \mathsf{to} \ \mathsf{handle} \ \mathsf{high} \ \mathsf{traffic} \ \mathsf{loads} \ \mathsf{without} \ \mathsf{manual} \ \mathsf{intervention}.$

Cost-efficient: With S3, you only pay for the storage and bandwidth you use, making it very affordable.

Fast & Reliable: S3 delivers content quickly through its global network of edge locations, ensuring fast load times for your website.

Secure: S3 offers built-in encryption and access control, ensuring your content is secure.

Easy to Set Up: Hosting a static website on S3 is straightforward and doesn't require complex infrastructure.

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