

How to host Static Website on Amazon S3

Hosting a **static website** on **Amazon S3 (Simple Storage Service)** is a popular and cost-effective solution. A **static website** consists of fixed content like HTML, CSS, JavaScript, images, and videos. With no server-side scripting like PHP or databases.

INTRODUCTION

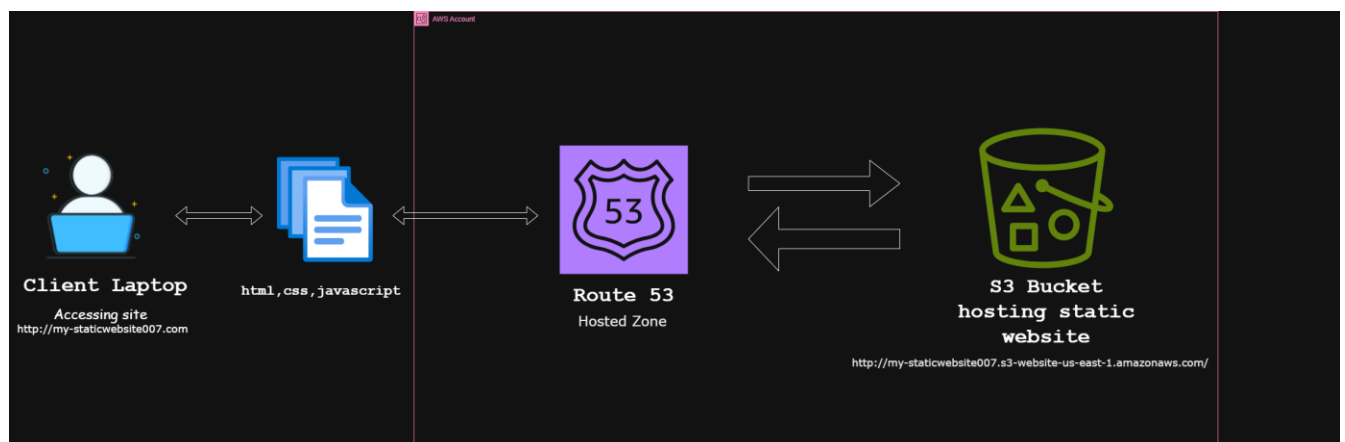
A static website is a type of website that delivers pre-built content to users — typically written in HTML, CSS, and JavaScript — without the need for server-side processing or databases. Unlike dynamic websites that generate content on the fly, static websites serve the same content to every visitor.

One of the most efficient and affordable ways to host a static website is by using Amazon S3 (Simple Storage Service). Amazon S3 is a cloud-based object storage service offered by Amazon Web Services (AWS). It allows users to store and retrieve data at any time, from anywhere on the web.

By enabling static website hosting in Amazon S3, you can turn a regular S3 bucket into a web host that delivers your site to users worldwide — without the need to manage any servers. This method is scalable, reliable, and ideal for portfolios, documentation sites, blogs, and simple business websites.

Amazon Route 53 is a **scalable and highly available Domain Name System (DNS)** web service by AWS. It helps you manage domain names and route traffic to various AWS services, including S3, EC2, CloudFront, and more. Works seamlessly with **S3 static website hosting**.

ARCHITECTUAL DIAGRAM

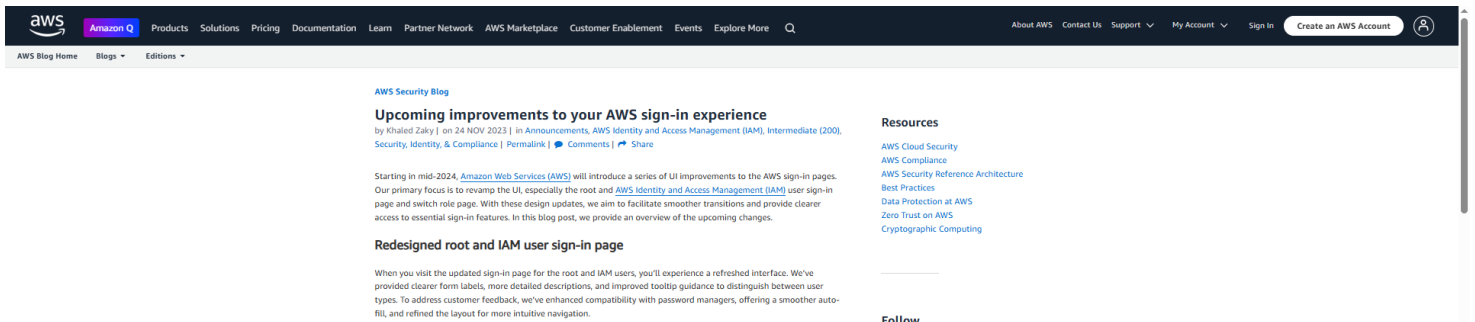


ADVANTAGES OF HOSTING A STATIC WEBSITE ON AN AMAZON S3 BUCKET

- Pay-as-you-go pricing — you only pay for what you use (storage and bandwidth).
- Handles unlimited traffic without any extra configuration.
- S3 provides 99.999999999% (11 9's) durability for stored objects.

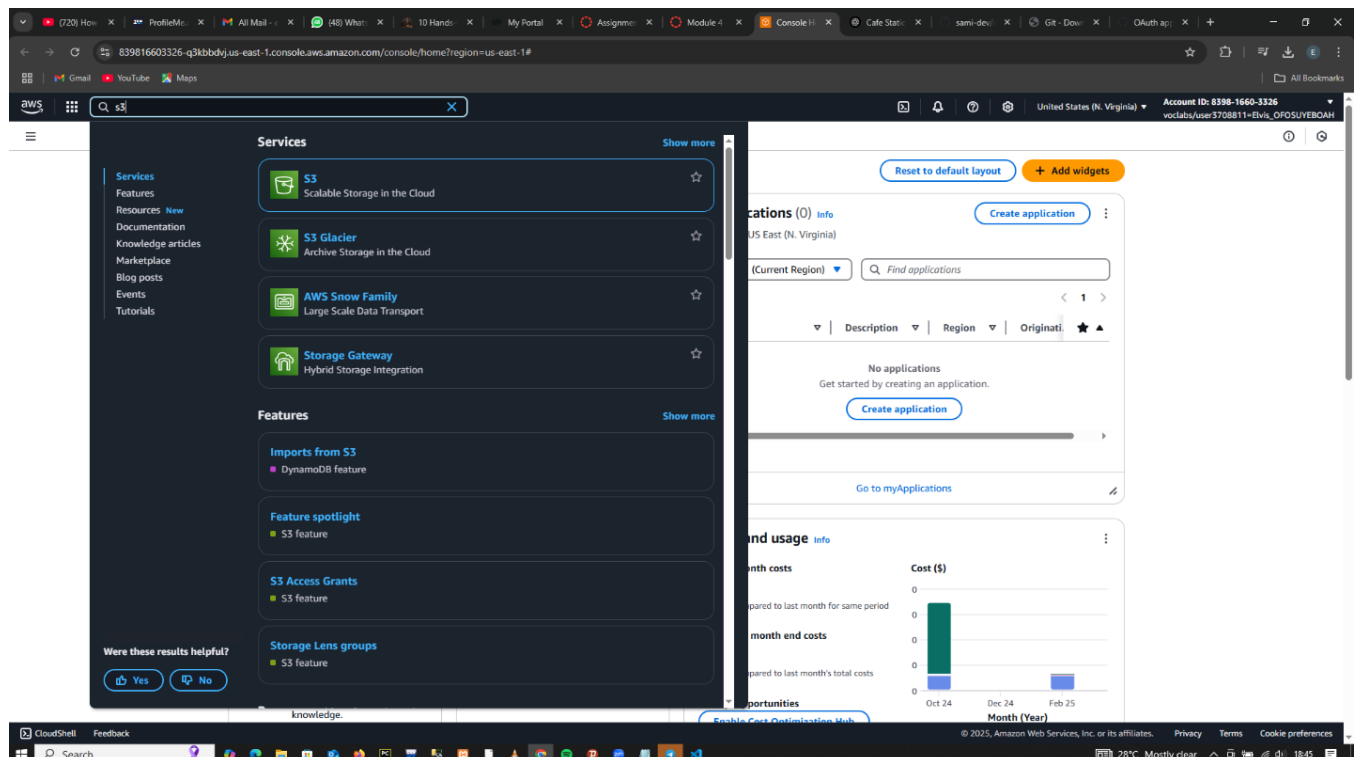
PREREQUISITES

- AWS account



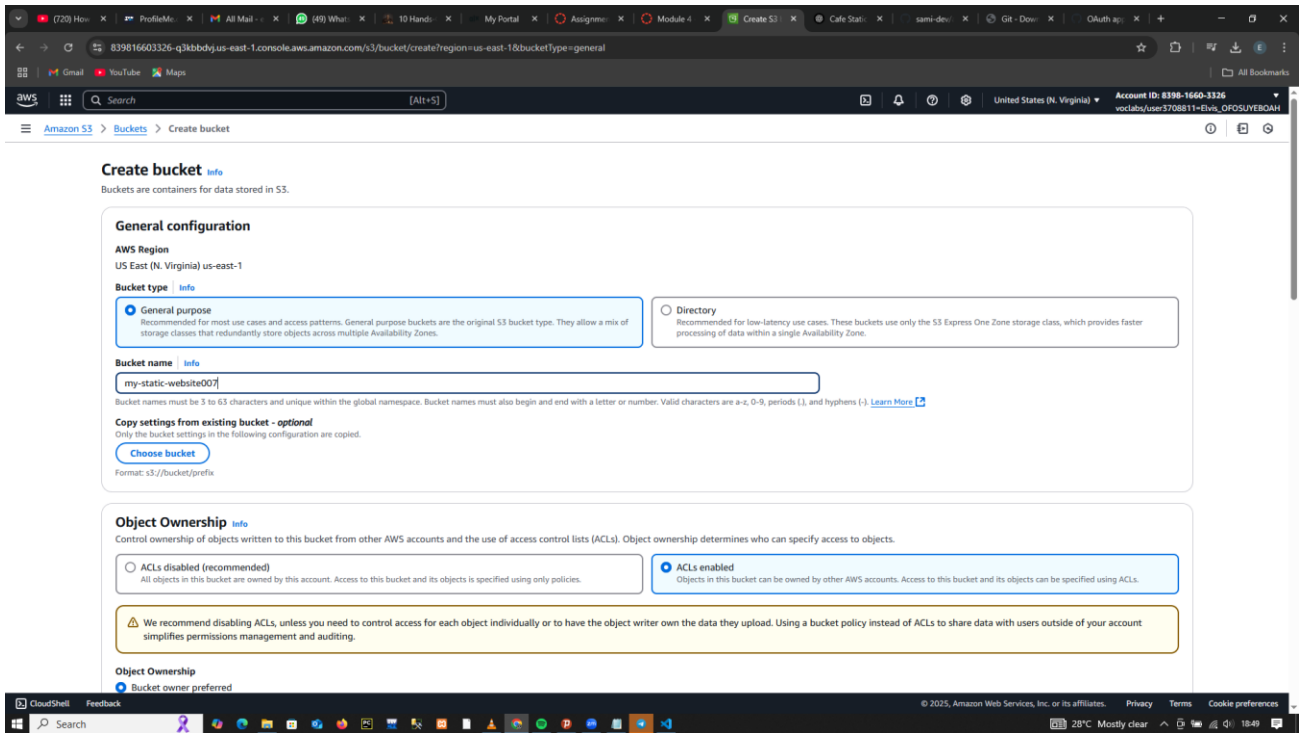
Here's a step-by-step breakdown of how it works and how to do it:

1. Go to AWS S3 Console



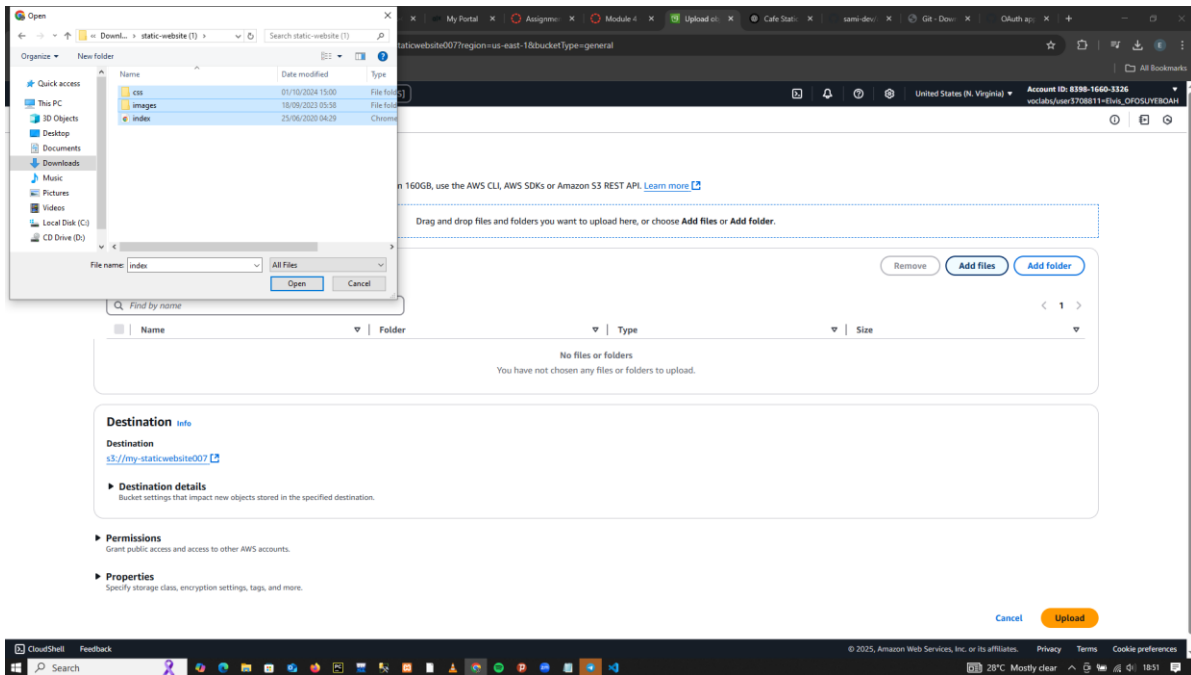
2. Click "Create bucket"

- Name the bucket **exactly the same** as your domain name (my-static-website007)
NB: Bucket name must be unique
- Choose region
- Uncheck "Block all public access" under permissions
- Acknowledge the warning and proceed
- Proceed to **Create Bucket**



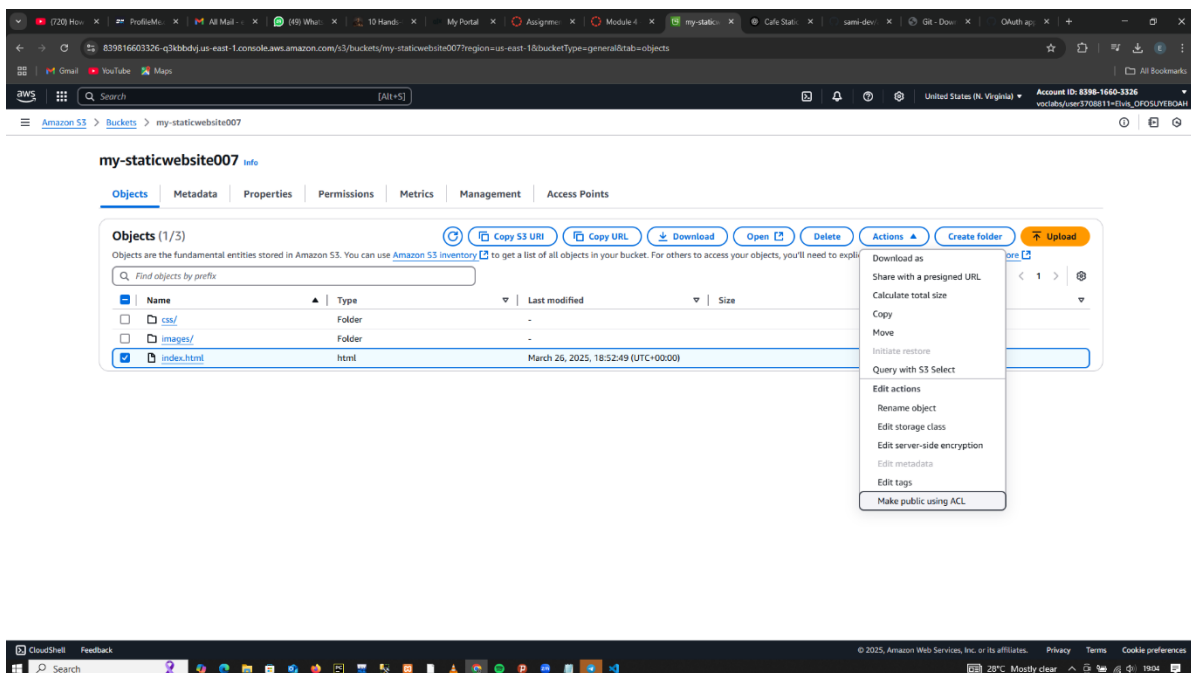
3. Upload Your Website Files

- Upload the website contents to your S3 bucket including sub-folders.
- Use folders if needed (css, index.html, images etc.,



4. Click Make Public Read using ACL

- Go to **Object**
- Select **index.html**
- Go to **Actions**, from the dropdown select **make public using ACL**



5. Enable Static Website Hosting

- Go to bucket
- Properties
- Scroll to **Static website hosting**
- Click **Edit**
- Choose **Enable**
- Set:
Index document: **index.html**
(Optional) Error document: **error.html**
- Click **Save changes**
- AWS provides a website endpoint URL like: `http://my-staticwebsite007.s3-website-us-east-1.amazonaws.com/`

The screenshot shows the AWS Management Console interface for editing static website hosting on a bucket named 'my-staticwebsite007'. The breadcrumb navigation at the top indicates the path: Amazon S3 > Buckets > my-staticwebsite007 > Edit static website hosting. The main heading is 'Edit static website hosting' with an 'info' icon. Below this, the 'Static website hosting' section shows the 'Enable' radio button selected. The 'Hosting type' section also has 'Host a static website' selected. A blue information box states: 'For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see Using Amazon S3 Block Public Access'. The 'Index document' field contains 'index.html'. The 'Error document - optional' field contains 'error.html'. The 'Redirection rules - optional' section shows a table with one header row and one data row. The footer of the console shows the copyright notice '© 2025, Amazon Web Services, Inc. or its affiliates.' and links for 'Privacy', 'Terms', and 'Cookie preferences'. The system clock in the bottom right corner shows '18:57'.

Static website hosting

Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting

☐ Disable

☒ Enable

Hosting type

☒ Host a static website

Use the bucket endpoint as the web address. [Learn more](#)

☐ Redirect requests for an object

Redirect requests to another bucket or domain. [Learn more](#)

For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#)

Index document

Specify the home or default page of the website.

index.html

Error document - optional

This is returned when an error occurs.

error.html

Redirection rules - optional

Redirection rules, written in JSON, automatically redirect webpage requests for specific content. [Learn more](#)

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18:57

6. Hosted Static Website



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Gmail YouTube Maps


All Bookmarks

Café




The Café offers an assortment of delicious and delectable pastries and coffees that will put a smile on your face. From cookies to croissants, tarts and cakes, each treat is specially prepared to excite your tastebuds and brighten your day!


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Latte
Hot
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