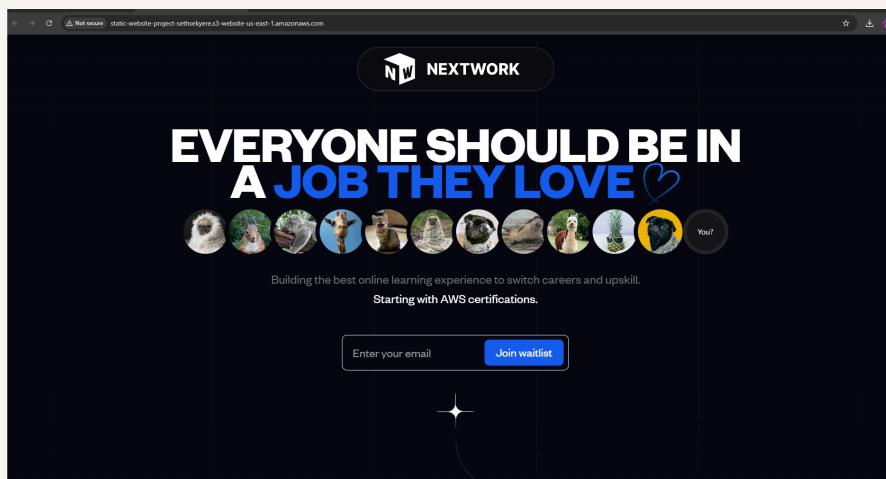


# Host a Website on Amazon S3



Seth Sekyere





Seth Sekyere

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# Introducing Today's Project!

## What is Amazon S3

Amazon S3 (Simple Storage Service) is a scalable object storage service by AWS, enabling users to store and retrieve any amount of data.

## How I used Amazon S3 in this project

In today's project, I used Amazon S3 to host a static website by creating a bucket, uploading the HTML and related files, and enabling static website hosting. I set the permissions using ACLs to make the files public, allowing access via a generated

## One thing I didn't expect in this project was...

Initially, I assumed uploading the files would automatically grant access, but I learned that I needed to make them public for the website

## This project took me...

20 minutes



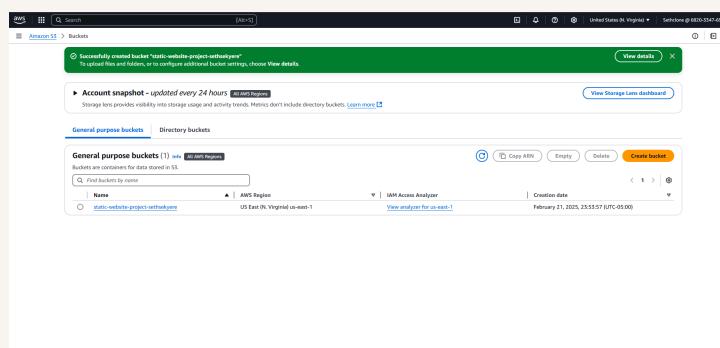
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# How I Set Up an S3 Bucket

Creating an S3 bucket took me less than 30 seconds.

The Region I picked for my S3 bucket was Us-east-1 because it is the most cost-effective AWS region, offering lower latency and higher availability for users in the U.S. It also provides access to a wide range of AWS services.

S3 buckets must be globally unique because each bucket name is part of the public URL used to access it. This means no two users can have the same bucket name, preventing conflicts and ensuring accurate data retrieval in the global AWS environment.





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# Upload Website Files to S3

## index.html and image assets

I uploaded two files to my S3 bucket- they were index.html and an unzipped folder

both files are necessary since index.html is the main HTML file that serves as the entry point for the website. It contains the structure and contents of the page while the unzipped contains additional assets such as CSS stylesheets, JavaScript, etc.

The screenshot shows the AWS S3 console interface. At the top, the navigation bar includes 'Amazon S3 > Buckets > static-website-project-sethsekyere'. Below the navigation, there's a search bar and several tabs: 'Objects' (which is selected), 'Metadata', 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. A prominent orange 'Actions' button with a dropdown arrow is located above the object list. The 'Objects' table lists two entries:

Name	Type	Last modified	Size	Storage class
index.html	html	February 22, 2025, 00:08:26 (UTC-05:00)	58.8 KB	Standard
New folder/	Folder			



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# Static Website Hosting on S3

Website hosting is what makes your website public on the internet.

To enable website hosting with my S3 bucket, I went to the bucket settings in the AWS S3 Console, selected the Properties tab, and enabled static website hosting. I specified 'index.html' as the index document and saved the changes, making

An ACL is a set of rules that decides who can access a resource and what actions they can perform. I enabled ACLs in this S3 setup to control access at the individual object level, allowing different AWS accounts to own and manage specific files.

The screenshot shows the 'Edit static website hosting' configuration page in the AWS S3 console. The 'Static website hosting' section is active, with the 'Enable' option selected. Under 'Hosting type', 'Host a static website' is chosen. A note about public access is displayed in a blue-bordered box. The 'Index document' field contains 'index.html'. The 'Error document - optional' field contains 'error.html'. A 'Redirection rules - optional' section is present but empty. The URL in the browser bar is 'Amazon S3 > Buckets > static-website-project-sethsekyere > Edit static website hosting'.

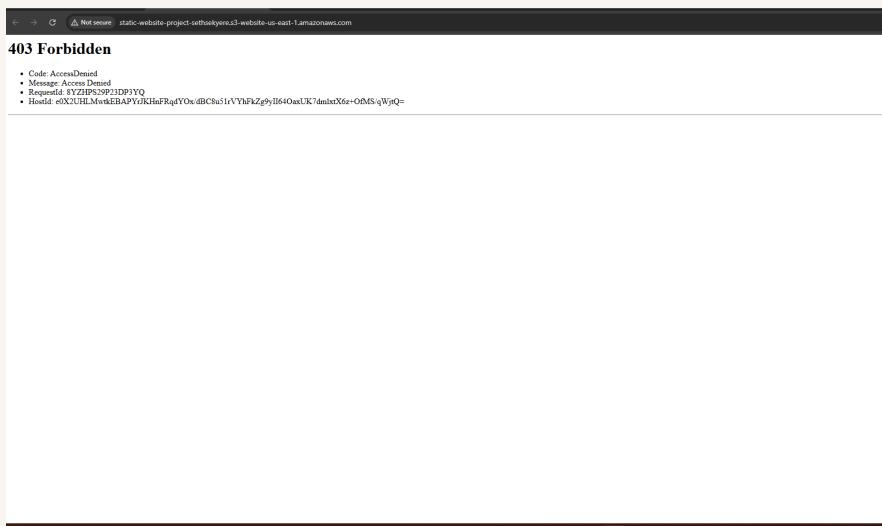


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# Bucket Endpoints

Once static website hosting is enabled, S3 generates a bucket endpoint URL, which serves as the unique web address for accessing the website hosted on the S3 bucket.

When I first visited the bucket endpoint URL, I saw an error message indicating access was denied. This happened because the uploaded HTML and image files were private by default, requiring me to change their permissions to public.





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# Success!

To resolve this connection error, I placed the HTML file in the same folder and changed the permissions of the uploaded files to public by adjusting the ACL settings in the S3 Console. This allowed public access to the website.

