



# Host a Website on Amazon S3



Mukund Kale

## Welcome to My S3 Hosted Website

This is a simple website hosted on Amazon S3.

You can modify this page to add your own content, styles, and functionality.



# Introducing Today's Project!

## What is Amazon S3

Amazon S3 (Simple Storage Service) is a scalable, secure object storage service by AWS, allowing users to store and retrieve data globally. It offers high durability, cost-effectiveness, and seamless integration with other AWS services, making it ide

## How I used Amazon S3 in this project

In today's project, I used Amazon S3 to store user-uploaded files securely, such as documents or images, required for signature verification. I configured the S3 bucket with the necessary permissions and policies to ensure secure access and retrieval

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

I didn't expect the complexity of configuring S3 permissions, balancing security with application accessibility.

## This project took me...

This project took me 10 minutes to set up the initial structure, including S3 integration.



Mukund Kale  
NextWork Student

[NextWork.org](https://NextWork.org)

# How I Set Up an S3 Bucket

Creating an S3 bucket took 5 minutes, but configuring secure access and permissions took longer.

The region I picked for my S3 bucket was North Virginia because it's cost-effective and low latency.

S3 bucket names are globally unique! This means no two buckets can share the same name, ensuring each one is distinguishable across all AWS accounts and regions.

General purpose buckets (2) <a href="#">Info</a> <a href="#">All AWS Regions</a>			
Buckets are containers for data stored in S3.			
<input type="text"/> Find buckets by name			
Name	AWS Region	IAM Access Analyzer	Creation date
<a href="#">aws-static-web-application-project-01</a>	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	October 22, 2024, 21:36:58 (UTC+05:30)
<a href="#">elasticbeanstalk-us-west-2-54098938797</a>	US West (Oregon) us-west-2	<a href="#">View analyzer for us-west-2</a>	June 5, 2024, 14:06:08 (UTC+05:30)



Mukund Kale  
NextWork Student

[NextWork.org](http://NextWork.org)

# Upload Website Files to S3

## index.html and image assets

I uploaded index.html to my S3 bucket - they were stored as objects and can be accessed via a unique URL, provided I set the appropriate permissions for public access or use them within a private application.

Objects are necessary for this project as they store critical data in S3, enabling scalable, secure, and easy access to the content, such as files or metadata, which can be retrieved or manipulated as needed.

The screenshot shows a modal window titled "Upload: status" with a green header bar indicating "Upload succeeded". Below the header, there is a message: "The information below will no longer be available after you navigate away from this page." The main content area is divided into sections: "Summary" and "Files and folders". The "Summary" section shows the destination as "s3://aws-static-web-application-project-01" and lists one succeeded file: "index.html, 985.0 B (100.00%)". The "Files and folders" section shows a table with one item: "index.html" (Type: text/html, Size: 985.0 B, Status: Succeeded). The table has columns for Name, Folder, Type, Size, Status, and Error.

Name	Folder	Type	Size	Status	Error
index.html	-	text/html	985.0 B	Succeeded	-



# Static Website Hosting on S3

Website hosting means providing the necessary infrastructure and services to make a website accessible on the internet, allowing users to view and interact with its content through a web browser.

To enable website hosting with my S3 bucket, I configured the bucket for static website hosting, uploaded my HTML files, and set the appropriate permissions to allow public access to the content.

## Access Control Lists (ACL)

An ACL is a set of permissions attached to an AWS resource, controlling access to it.

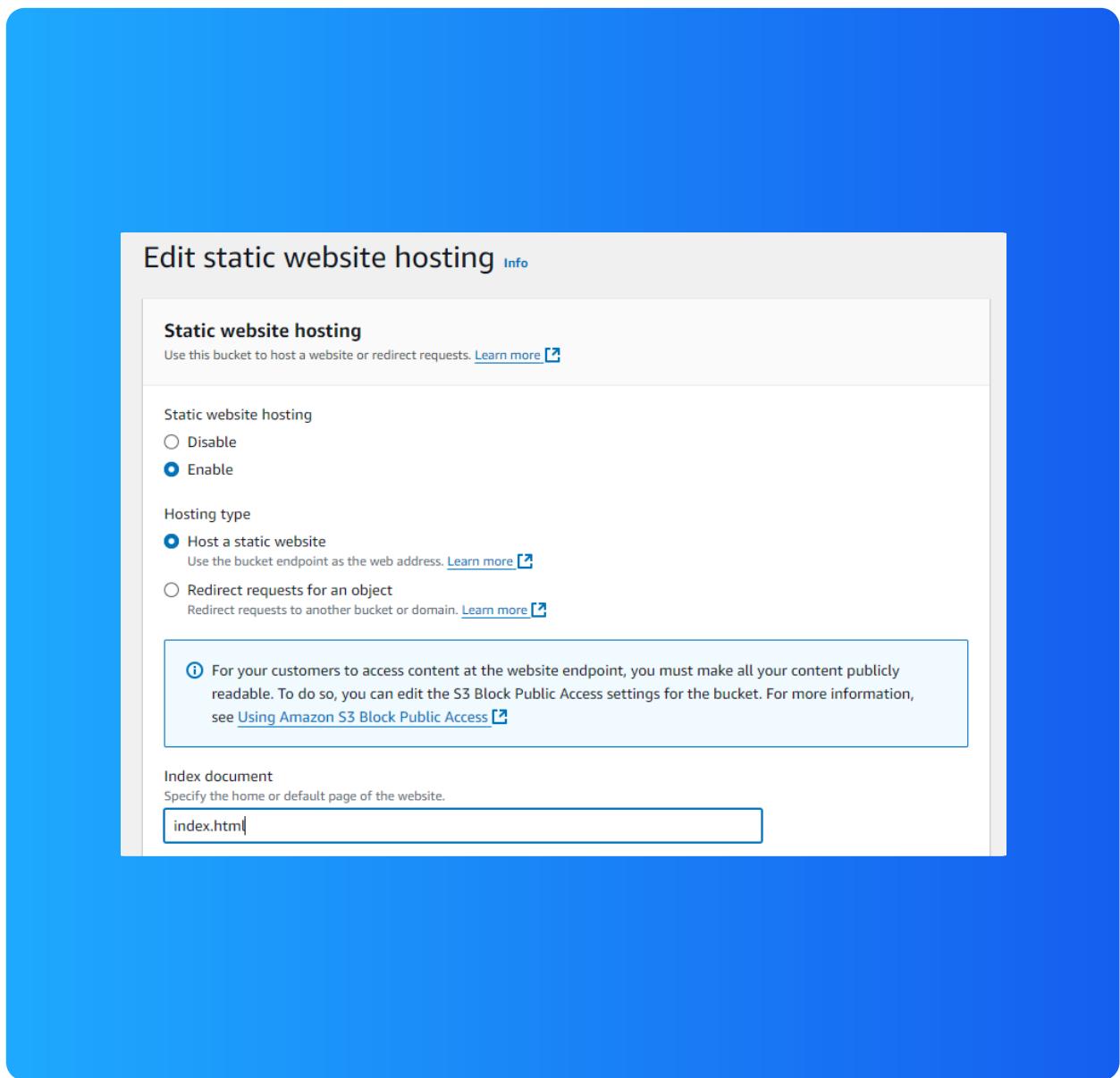


Mukund Kale  
NextWork Student

[NextWork.org](http://NextWork.org)

# Bucket Endpoints

Once static website hosting is enabled, S3 produces a bucket endpoint URL, which is a unique address that allows users to access the hosted website content directly through their web browsers.





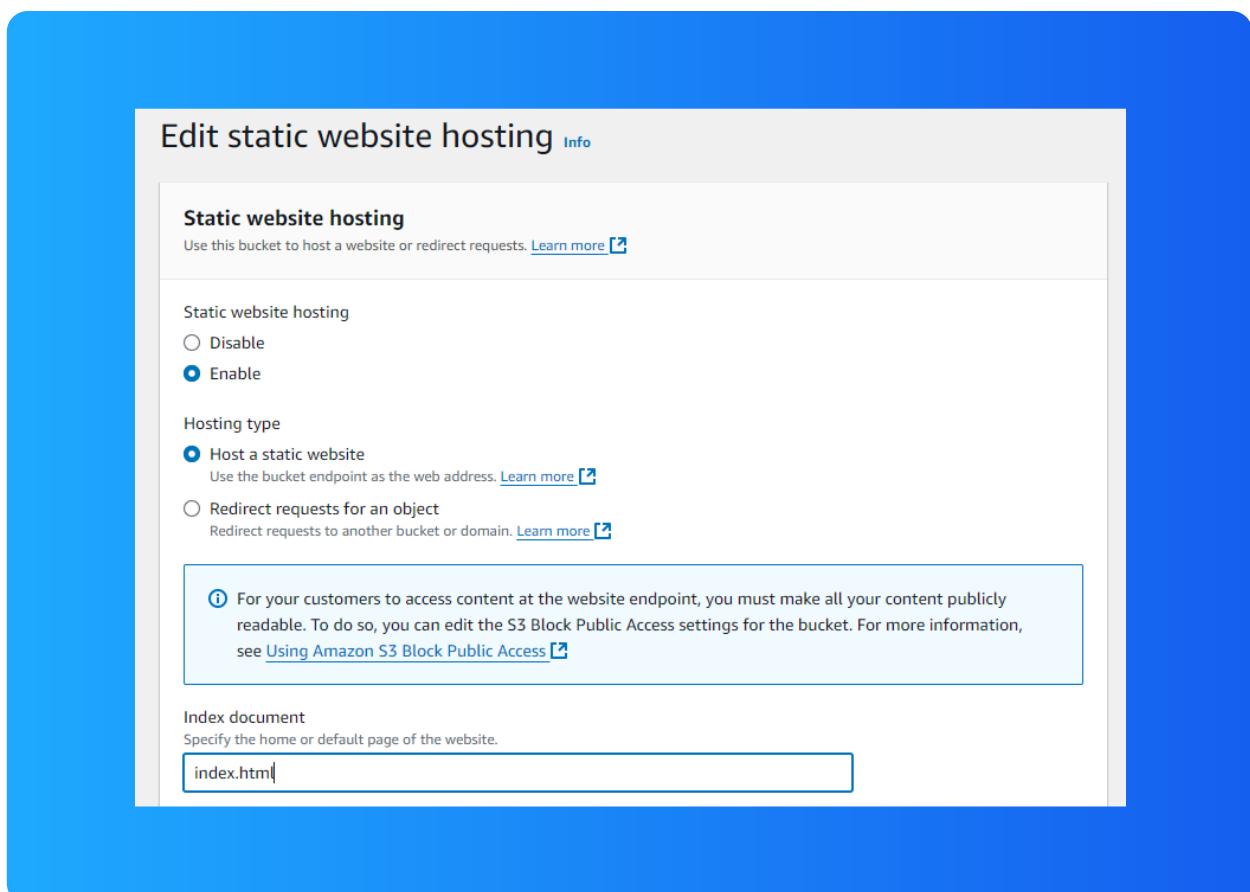
**Mukund Kale**  
NextWork Student

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# An error!

When I first visited the bucket endpoint URL, I saw an access denied error because I hadn't yet configured the bucket permissions to allow public access or enable appropriate policies.

The reason for this error was that the bucket's access control settings were too restrictive, blocking public access to the content until proper permissions or bucket policies were applied.





**Mukund Kale**  
NextWork Student

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# Success!

To resolve this connection error, I updated the bucket's permissions by enabling public read access or adjusting the bucket policy to allow appropriate access to the content.

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