

# Host a Website on Amazon S3



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# Introducing Today's Project!

## What is Amazon S3

S3 (which stands for Amazon Simple Storage Service) to host a website.

## How I used Amazon S3 in this project

I used Amazon S3 to create and configure a bucket for hosting a static website. I set up ACLs, versioning, and public access settings. This allowed me to manage and secure the website content effectively.

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

The most challenging aspect was ensuring that the static website's visibility settings were correctly configured to avoid unintended access restrictions. It required careful adjustment of access controls to balance security with accessibility.

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## This project took me...

Approximately 30 to 45 minutes

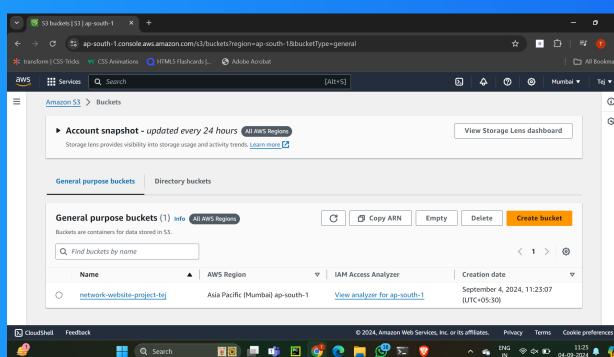
# How I Set Up an S3 Bucket

## What does it means that S3 buckets have to be globally unique?

S3 bucket names are globally unique! This means each bucket name must be unique across all AWS accounts worldwide, preventing conflicts and ensuring consistency in the namespace.

## Which Region did you pick for your bucket and why?

The Region I picked for my S3 bucket was ap-south-1 (Mumbai) because it provides low latency and high performance for users in the Asia-Pacific region.





# Upload Website Files to S3

I have uploaded two files to my S3 bucket, including essential website content. These files are now securely stored and accessible through the configured static website hosting settings.

The screenshot shows the AWS S3 console interface. The top navigation bar includes links for transform, CSS Tricks, CSS Animations, HTML5 Flashcards, and Adobe Acrobat. The main menu has 'Services' selected, followed by a search bar and a 'Search [Alt+S]' button. Below the menu, there are tabs for Objects, Properties, Permissions, Metrics, Management, and Access Points. The 'Objects' tab is active, showing a list of objects with 2 items. The table columns are Name, Type, Last modified, Size, and Storage class. The first item is 'index (1).html' (Type: html, Last modified: September 4, 2024, 11:43:09 (UTC+05:30), Size: 58.8 KB, Storage class: Standard). The second item is a folder named 'NextWork - Everyone should be in a job they love\_files/' (Type: Folder). At the bottom of the page, there are links for CloudShell, Feedback, and various system status indicators like ENG IN, battery level, and network signal. The footer contains copyright information for 2024, privacy terms, cookie preferences, and a date of 04-09-2024.

Name	Type	Last modified	Size	Storage class
index (1).html	html	September 4, 2024, 11:43:09 (UTC+05:30)	58.8 KB	Standard
NextWork - Everyone should be in a job they love_files/	Folder	-	-	-



# Static Website Hosting on S3

Website hosting makes your website public on the internet. Even if you perfect an HTML file, no one else can see it when it's stored locally. By configuring your S3 bucket for hosting, you create a URL that allows anyone to access and view your uploaded HTML file online.

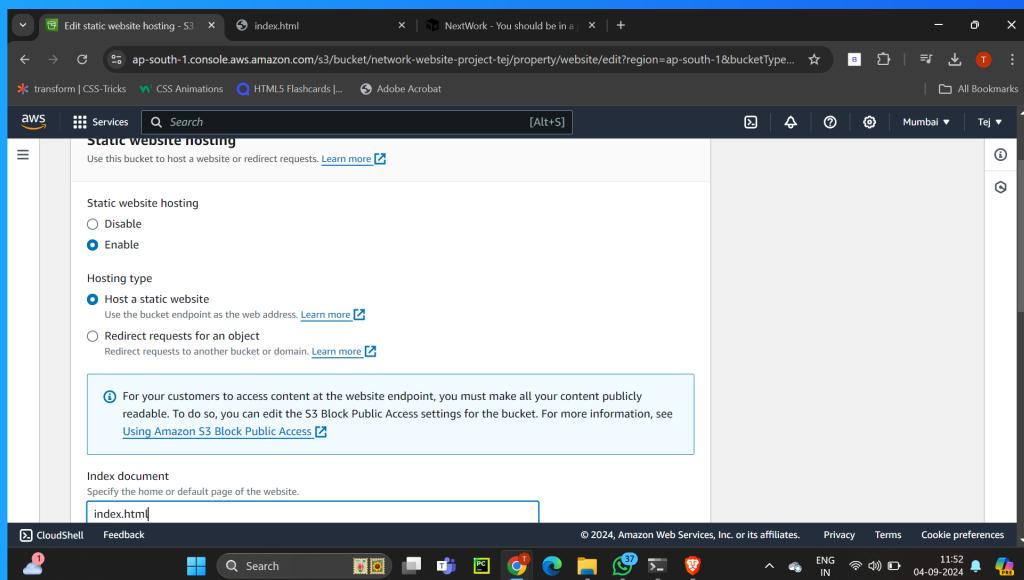
## Access Control Lists (ACL)

ACL, is a set rules which decides who can get access to resource , I have enabled



# Bucket Endpoints

When we configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket



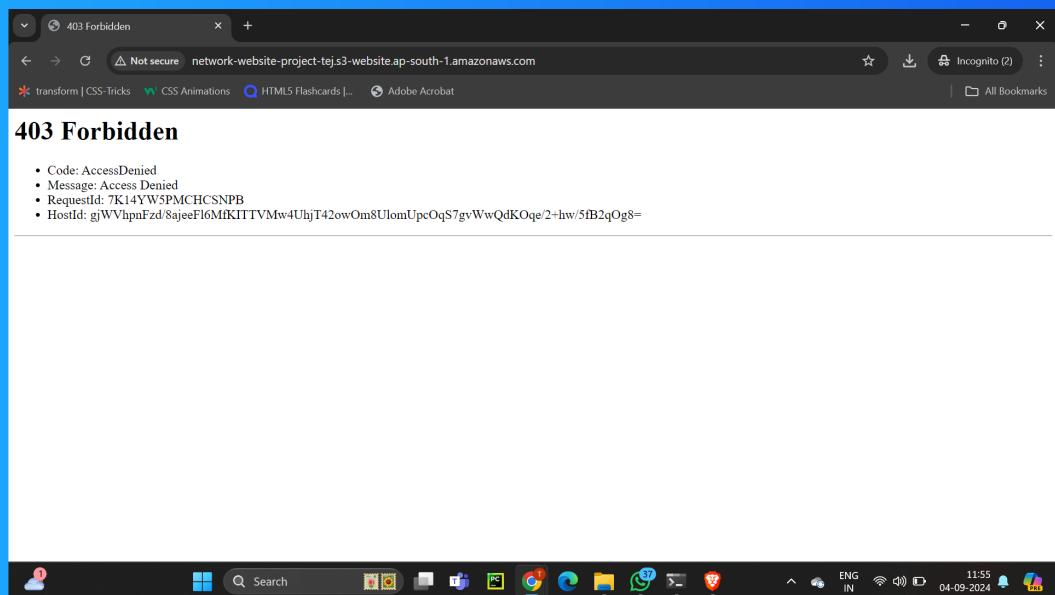
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# An error!

404 forbidden error

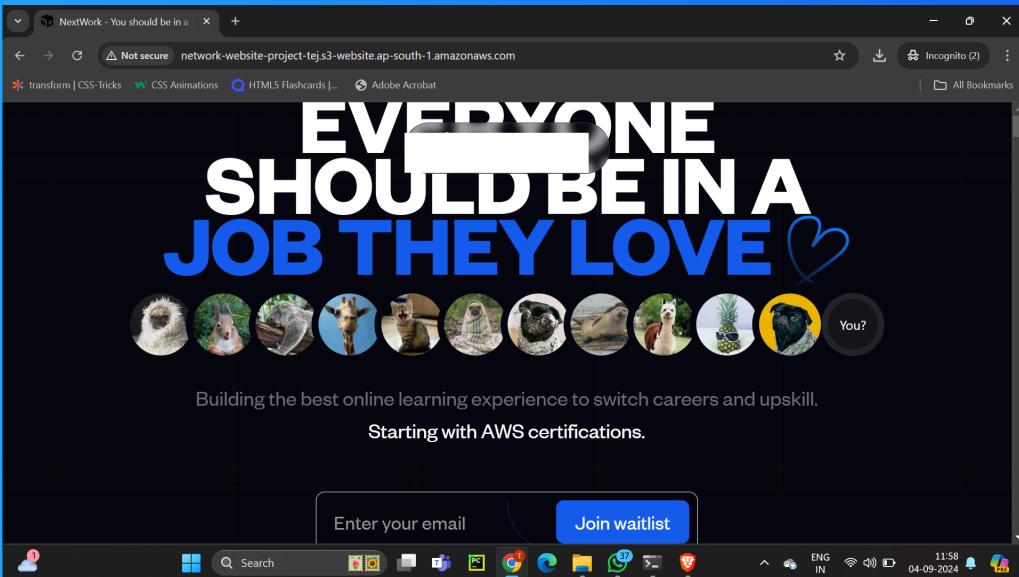
because files are still private





# Success!

by making acl public in action drop down



## Project Summary:

- Created an S3 bucket for the project.
- Configured the bucket for static website hosting.
- Uploaded HTML and image files to the S3 bucket.
- Enabled versioning to manage file changes.
- Turned on public access for the bucket's objects.
- Verified that the website is accessible globally.
- Tested website functionality to ensure proper display.
- Documented the entire process for future reference.
- Successfully deployed the static website, making it live for the whole world to see.

## Test Summary:

- All files were uploaded correctly.
- Public access settings were verified and confirmed.
- The website displayed as expected across multiple devices and browsers.