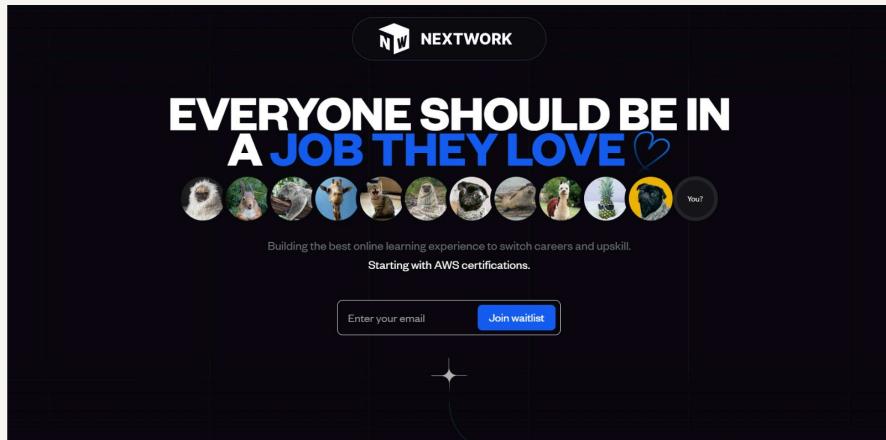


nextwork.org

Host a Website on Amazon S3



keerthanprojects





Introducing Today's Project!

What is Amazon S3

Amazon S3 (Simple Storage Service) is a scalable cloud storage service that allows users to store and retrieve any amount of data. It is useful for backups, hosting static websites, data archiving, and content distribution, offering high durability,

How I used Amazon S3 in this project

I used Amazon S3 to learn about the process of hosting a website.

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

One thing i might not have expected in this project is how permissions and access control plays a crucial role in making your webiste publicy accessible on amazon S3.

This project took me...

less than hr



How I Set Up an S3 Bucket

Creating an S3 bucket took me 1 min.

The Region I picked for my S3 bucket was US-east-1 because it is the nearest area for me.

This requirement exists because S3 bucket names are used as part of the public URL when accessing objects. To avoid conflicts, AWS enforces global uniqueness across all users.

The screenshot shows the AWS S3 console interface. At the top, there are two tabs: "General purpose buckets" (which is selected) and "Directory buckets". Below the tabs, a header bar includes "General purpose buckets (1)" with an "Info" button and "All AWS Regions" dropdown, followed by "Copy ARN", "Empty", "Delete", and "Create bucket" buttons. A search bar labeled "Find buckets by name" is present. The main content area displays a table with one row of data:

Name	AWS Region	IAM Access Analyzer	Creation date
nextwork-website-project-keerthan	US East (N. Virginia) us-east-1	View analyzer for us-east-1	February 19, 2025, 00:16:18 (UTC-06:00)



Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were index.html and NextWork - Everyone should be in a job they love_files

Both files are necessary for this project as the index.html file displays the webpages, while NextWork - Everyone should be in a job they love_files provides the media styling and scripts necessary to complete the look and feel the website.

The screenshot shows the AWS S3 console interface. At the top, there's a navigation bar with various buttons like 'Actions', 'Create folder', and 'Upload'. Below the navigation bar, a search bar says 'Find objects by prefix' and a 'Show versions' button. A table lists the objects:

Name	Type	Last modified	Size	Storage class
index.html	html	February 19, 2025, 00:48:15 (UTC-06:00)	58.8 KB	Standard
NextWork - Everyone should be in a job they love_files/	Folder	-	-	-



Static Website Hosting on S3

Website hosting is the process of storing and making a website accessible online. It involves placing files (HTML,CSS,images,etc) on a server connected to the internet, allowing users to access the site via a browser using a domain name or direct URL

To enable website hosting with my S3 bucket, in properties enable the Static website hosting and type html.index and error.html and save the changes.

An Access Control List (ACL) in AWS S3 is a mechanism used to manage and control permissions for both S3 buckets and the objects stored within them. Essentially, an ACL allows you to specify who (which AWS accounts or predefined group. I enabled ACLs

The screenshot shows the 'Edit static website hosting' configuration page. It includes sections for 'Static website hosting' (with 'Enable' selected), 'Hosting type' (with 'Host a static website' selected), and 'Index document' (set to 'index.html'). A note about public access is displayed in a callout box. Other sections like 'Error document - optional' and 'Redirection rules - optional' are also visible.



Bucket Endpoints

A bucket website endpoint URL is the unique web address provided by AWS when you enable static website hosting for an S3 bucket. It allows users to access your website hosted in the S3 bucket via a browser.

When I first visited the bucket endpoint URL, I saw Code: AccessDenied
Message: Access Denied RequestId: A5QKD6W1SJ1EMYYA
HostId:***** An Error Occurred While Attempting to
Retrieve a Custom Error Document Code: AccessDenied

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: A5QKD6W1SJ1EMYYA
- HostId: S+8Zlkphmfrzr5vavhAA6xJzrCyeLJBHZb3FH0qfUkb7MdPjSNqCQUV2FmV5D4Kte5elJu0rImAWtpQhZzZo37e8xzIBbBWY=

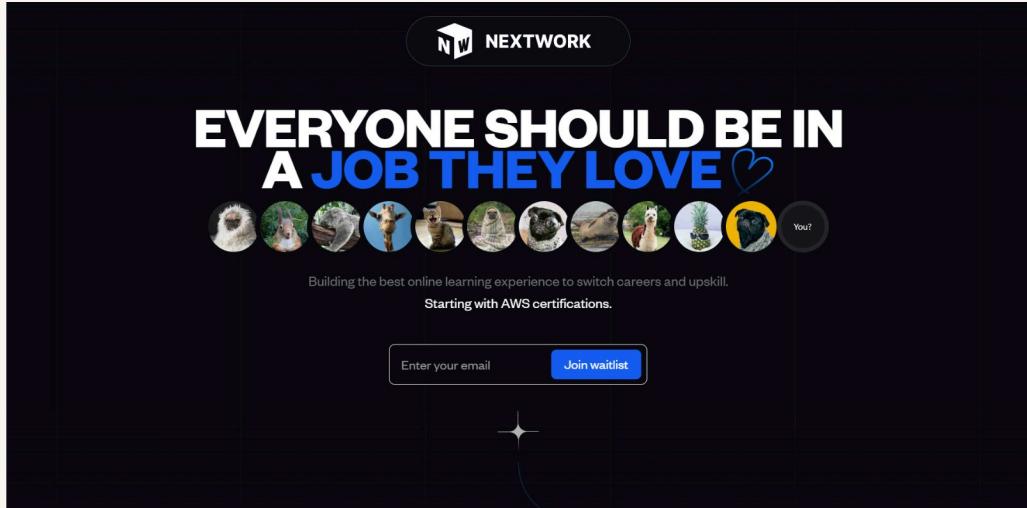
An Error Occurred While Attempting to Retrieve a Custom Error Document

- Code: AccessDenied
- Message: Access Denied



Success!

To resolve this connection error, I initially uploaded the wrong folder by mistake. I later realized that I needed to upload the subfolder instead. After correcting the upload, the issue was resolved.





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