



nextwork.org

Host a Website on Amazon S3

RH

rhukkeriranjita@gmail.com



The image shows a dark blue rectangular advertisement for Nextwork. At the top right is the Nextwork logo, which consists of a stylized 'N' and 'W' icon followed by the word 'NEXTWORK'. Below the logo, the main headline reads 'EVERYONE SHOULD BE IN A JOB THEY LOVE' in white and blue text, with a small blue heart icon next to the word 'LOVE'. Below the headline is a horizontal row of twelve small circular profile pictures showing various people and animals. At the bottom of the ad, there is a small amount of descriptive text: 'Building the best online learning experience to switch careers and upskill.' and 'Starting with AWS certifications.'

Introducing Today's Project!

In this project, I will demonstrate how to use S3 to host a static website. I'm doing this project to learn about AWS and cloud services and how they can be used to store objects in the cloud and even host websites.

Tools and concepts

Services I used were Amazon S3. Key concepts I learnt include bucket policies, uploading static website files, index.html, bucket endpoint URLs and ACLs and how they control access to my bucket's objects.

Project reflection

This project took me approximately 1 hour. The most challenging part was resolving 403 forbidden error . It was most rewarding to my webpage load live and be public to the world!

How I Set Up an S3 Bucket

Creating an S3 bucket took me less than 5 mins. Needed learn concepts like block public access and ACL's.

The Region I picked for my S3 bucket was London because it's the region that's closest to me. It's the best practice to pick the region closest to you because it lowers the time to retrieve things (latency) and cost.

S3 bucket names are globally unique! This means no two Amazon S3 buckets in the entire world can have the same name. They have to be completely unique regardless of the region or account ID.

RH

rhukkeriranjita@gmail.com
NextWork Student

nextwork.org

⌚ Successfully created bucket "nextwork-website-project-ranjita"
To upload files and folders, or to configure additional bucket settings, choose [View details](#).

[General purpose buckets](#) [All AWS Regions](#)

[Directory buckets](#)

General purpose buckets (1) [Info](#)

Buckets are containers for data stored in S3.



[Copy ARN](#)

[Empty](#)

[Delete](#)

[Create bucket](#)

[Find buckets by name](#)

< 1 >

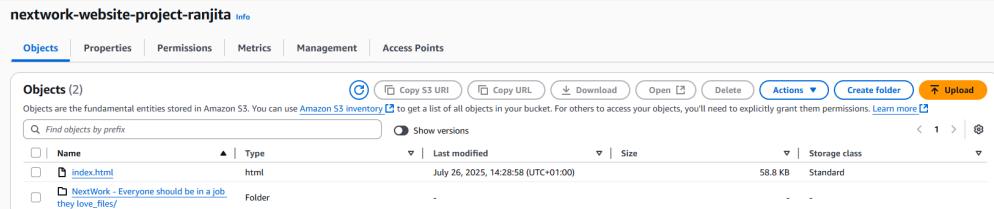
Name	AWS Region	Creation date
nextwork-website-project-ranjita	Europe (London) eu-west-2	July 26, 2025, 14:15:11 (UTC+01:00)

Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket they were index.html file(this determines the structure i.e., what goes inside your website) and a folder of images and assets(this will fill in the website with images and things to look at).

Both files are necessary for this project as index.html determines the structure, but the structure alone does not illustrate the contents of the website i.e, index.html says "insert image here", it might not have the actual image to display.



Static Website Hosting on S3

Website hosting means putting our website files on a web server, which is a special computer designed to turn the files into a website page that people can visit.

To enable website hosting with my S3 bucket, I went into the Properties tab of my bucket, enabled static website hosting and also labelled "index.html" as my index document i.e. this is the document I'm trying to host.

An ACL(Access control List) is a set of rules that decides who can get access to a resource.it's a way to configure permission settings inside a bucket. We enabled ACLs so that we can control to our website files later.

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](#)

Index document
Specify the home or default page of the website.

Error document - optional
This is returned when an error occurs.

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

Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is a URL that takes you(and anyone on the internet) to the website you are hosting!

When I first visited the bucket endpoint URL, I saw an error 403 forbidden error. The reason for this error was that the objects in a bucket are public by default, the website files are still completely private, we need to manage their access setting

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: TQTVCP2SJGMGXN4F
- HostId: w6XrYruhdSmENZISzna8O53HPbavPl+SFShfphG8ivYpikKvhU3EeSv2qKizx9Dn7Alq3GZXhU=

RH

rhukkeriranjita@gmail.com

NextWork Student

nextwork.org

Success!

To resolve this 403 Forbidden error, I updated the access settings of the files inside my bucket too. Using ACL's I made bucket's files public!





nextwork.org

The place to learn & showcase your skills

Check out nextwork.org for more projects

