



nextwork.org

Host a Website on Amazon S3

GA

Mohamed Galole

The screenshot shows a web browser window with the following details:

- Title Bar:** "Not secure nextwork-website-project-galole.s3-website-us-east-1.amazonaws.com"
- Page Content:**
 - A large, faint watermark-like image of a person's face.
 - The text "Everyone should be in a job they love II".
 - The text "Building the best online learning experience to switch careers and upskill. Starting with AWS certifications."
 - An input field with placeholder text "Enter your email" and a button "Join waitlist".
 - The text "You're on the list 🎉".
 - The text "We are still in a closed beta but will reach out with official launch dates soon. Let's do it!"
 - The text "Oh snap! That email didn't work, give it another go."
 - A small image of a document labeled "nextwork journey starting point".

Introducing Today's Project!

In this project, I will demonstrate S3 I'm doing this project to learn how to host a static website, ACL configurations and security.

Tools and concepts

Services I used were S3 storage, Objects Key concepts I learnt include Objects security, that AWS by default make it private for all uploaded objects

Project reflection

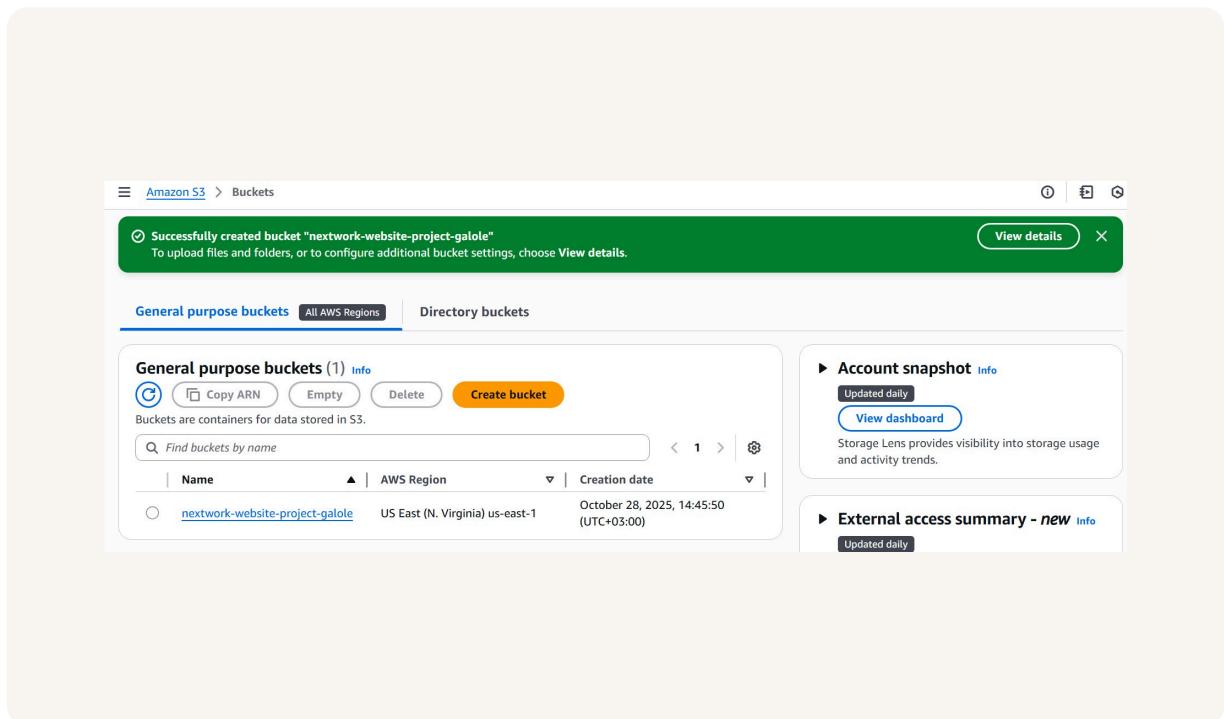
This project took me approximately 40 minutes or so The most challenging part was 403 Forbidden Error It was most rewarding to have finally figured it out and solve the puzzle of 403 Forbidden Error and my Static website boom was available.

How I Set Up an S3 Bucket

Creating an S3 bucket took me some few minutes

The Region I picked for my S3 bucket was North virginia because it is the nearest Region and to reduce Latency.

S3 bucket names are globally unique! This means S3 uses a global namespace for bucket names



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 index.html contains the web page configuration while the folder contains accessible images to be viewed when hosted.

The screenshot shows the Amazon S3 console interface. The top navigation bar includes 'Amazon S3', 'Buckets', and the specific bucket name 'nextwork-website-project-galole'. Below the navigation is a horizontal menu with tabs: 'Objects' (which is selected), 'Metadata', 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. To the right of the menu are buttons for 'Actions' (with options like 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', 'Create folder', and 'Upload'), and a search bar labeled 'Find objects by prefix'. A note below the search bar states: 'Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)'.

The main content area displays a table titled 'Objects (2)'. The table has columns for 'Name', 'Type', 'Last modified', 'Size', and 'Storage class'. There are two entries:

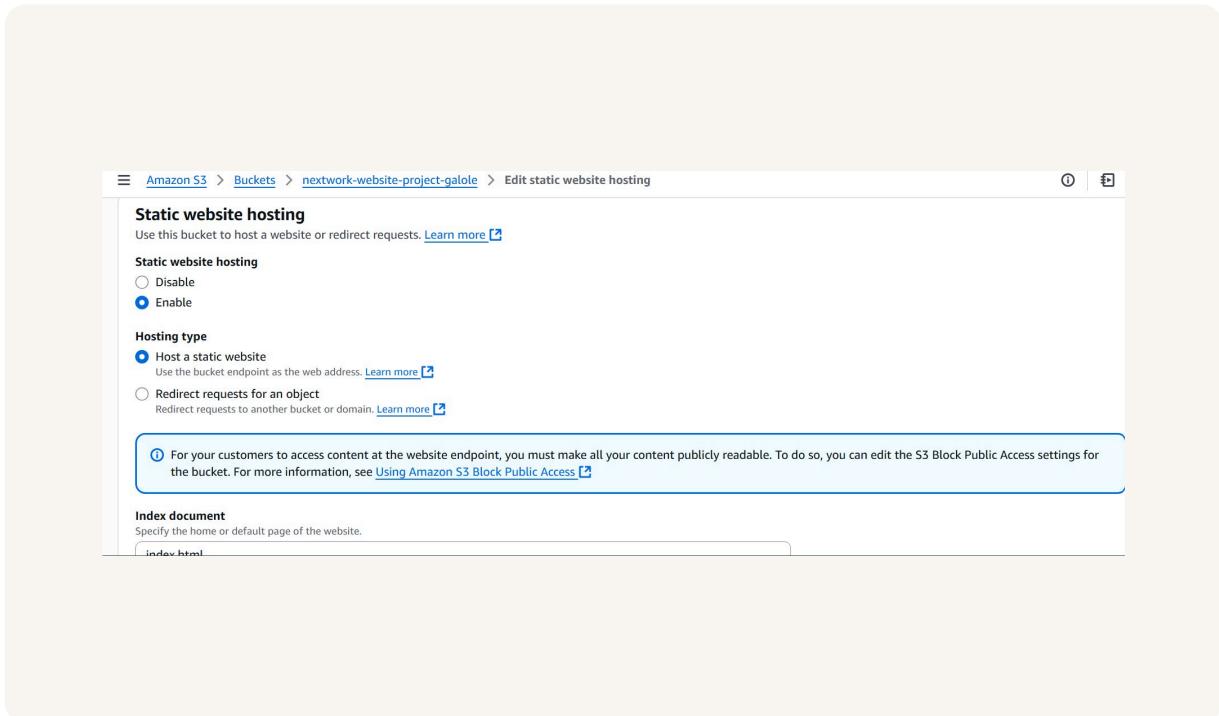
Name	Type	Last modified	Size	Storage class
index.html	html	October 28, 2025, 14:53:33 (UTC+03:00)	58.8 KB	Standard
NextWork - Everyone should be in a job they love_files/	Folder	-	-	-

Static Website Hosting on S3

Website hosting means whatever objects you upload in S3 buckets you create a storage space for them and make them accessible over the internet.

To enable website hosting with my S3 bucket, I enabled versioning which will help me recover object if it is overwritten and allowed public access.

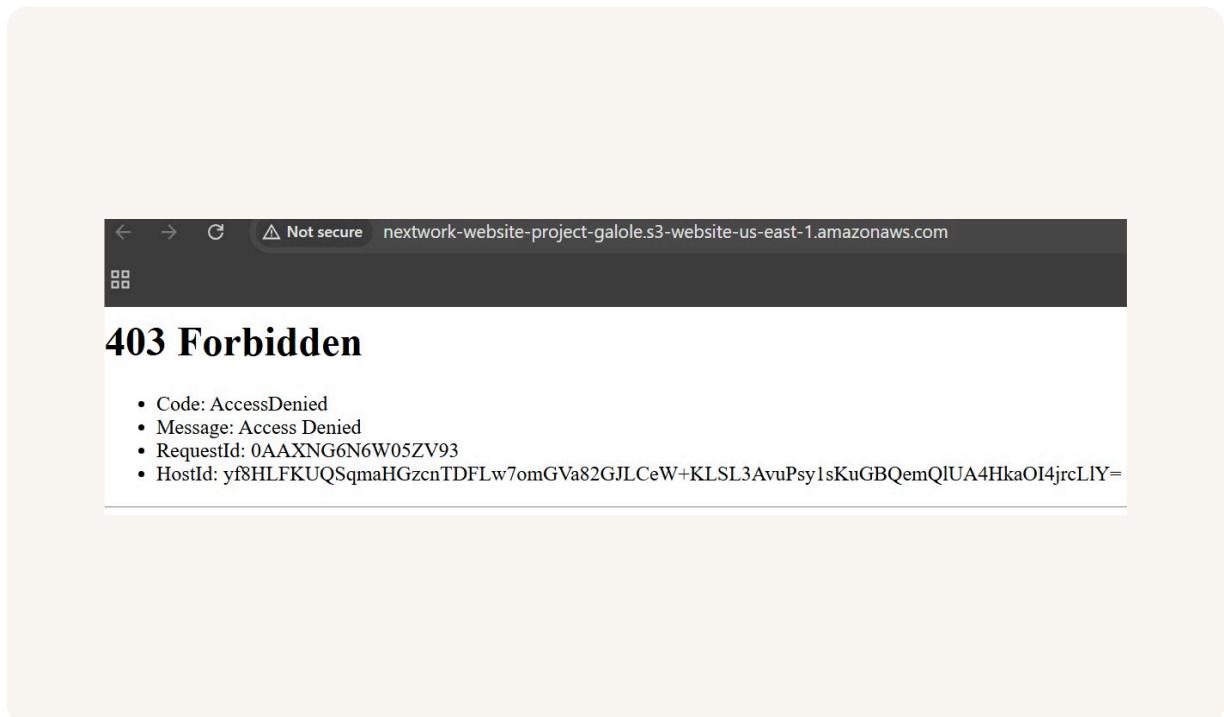
An ACL is a rule configured to control who can access to a resource in AWS



Bucket Endpoints

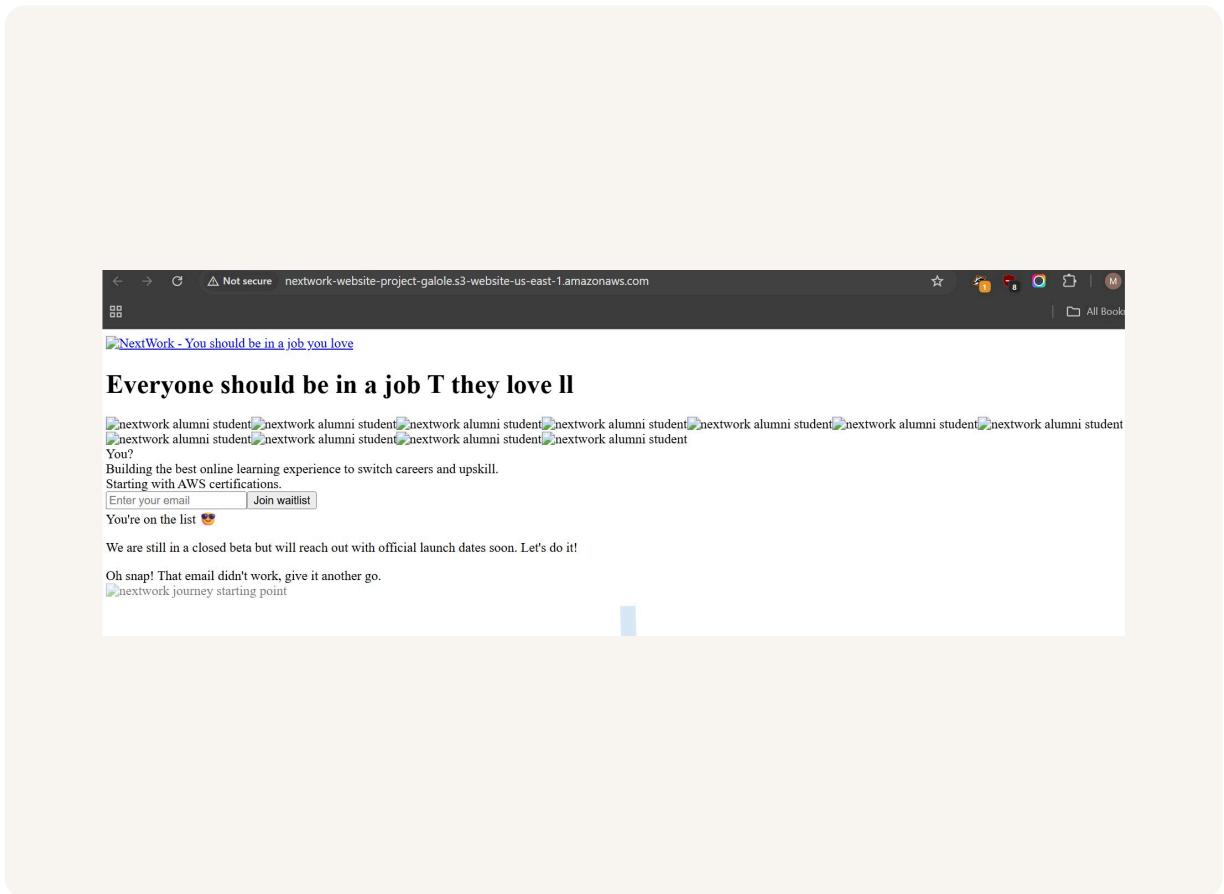
Once static website is enabled, S3 produces a bucket endpoint URL, which is the accessible link for the object in question over the internet

When I first visited the bucket endpoint URL, I saw 403 Forbidden Error. The reason for this error was because the objects are still in private mode, which I have to change them to public.



Success!

To resolve this 403 Forbidden error, I changed permissions of index.html and the folder and allowed everyone to read the files.





nextwork.org

The place to learn & showcase your skills

Check out nextwork.org for more projects

