



nextwork.org

Host a Website on Amazon S3

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A screenshot of a web browser window displaying a landing page for NextWork. The URL in the address bar is "nextwork-website-project-pushpendu.s3-website.ap-south-1.amazonaws.com". The page has a dark header with the text "Everyone should be in a job they love !!". Below the header, there is a section with several small profile pictures of people, followed by the text "Building the best online learning experience to switch careers and upskill. Starting with AWS certifications." A form field at the bottom left asks for an email address with a "Join waitlist" button. The browser interface includes standard navigation buttons, a search bar, and a tab labeled "Not secure".

Everyone should be in a job they love !!

You?

Building the best online learning experience to switch careers and upskill.

Starting with AWS certifications.

Enter your email Join waitlist

You're on the list! 🎉

We are still in a closed beta but will reach out with official launch dates soon. Let's do it!

Oh snap! That email didn't work, give it another go.

nextwork journey starting point

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 data securely. It is useful because it provides high availability, durability, and cost-effective storage for websites, backups.

How I used Amazon S3 in this project

I used Amazon S3 in today's project to create a storage bucket, upload website files (index.html and images), enable static website hosting, and configure permissions for public access. This allowed me to host a basic website using S3's cloud service

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

One thing I didn't expect in this project was the Access Denied error when visiting the bucket endpoint. I initially thought enabling static website hosting would be enough, but I had to manually update permissions to allow public access. ☐

This project took me...

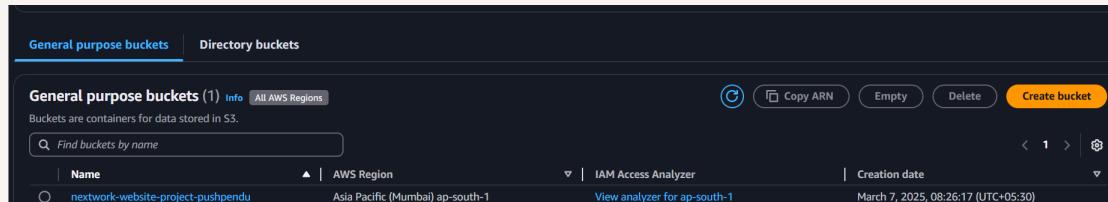
This project took me approximately 20-30 minutes to complete. Setting up the S3 bucket was quick, but troubleshooting the Access Denied error and updating permissions took some extra time. ☐

How I Set Up an S3 Bucket

Creating an S3 bucket took me just a few seconds. The process was quick and involved selecting a unique name, choosing a region, configuring settings, and finalizing permissions. AWS instantly provisions the bucket, making it ready for use almost

The Region I picked for my S3 bucket was Mumbai because it is the nearest region to my location, ensuring lower latency and faster data access.

S3 bucket names are globally unique! This means no two users can create buckets with the same name across AWS. It ensures unique endpoints for data access. If a name is taken, you must pick another. Using identifiers like timestamps helps create

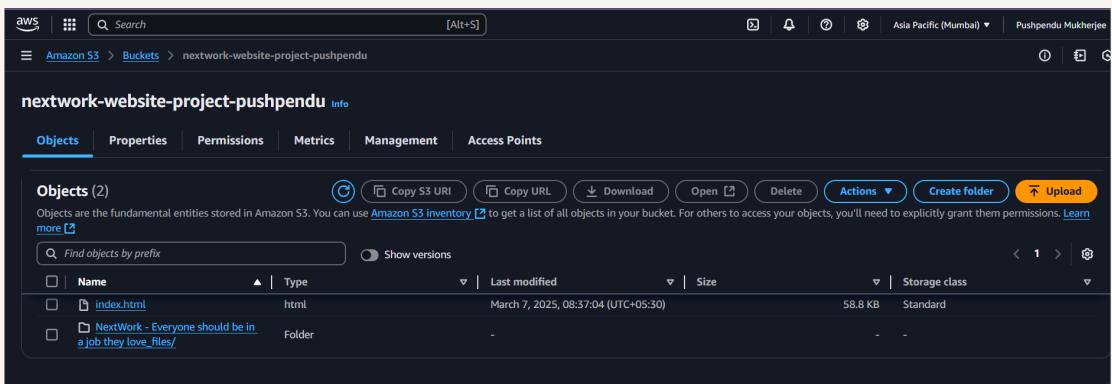


Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket – they were index.html, which serves as the main webpage, and the unzipped folder containing images, which provides visual content for the website.

Both files are necessary for this project as the index.html file acts as the main webpage structure, while the unzipped folder contains images that are referenced in the HTML file. Without the images, the webpage would display broken link



Static Website Hosting on S3

Website hosting means storing website files on a server that makes them accessible on the internet. It allows users to visit the site by loading its content, such as HTML, images, and scripts, from the hosting server.

To enable website hosting with my S3 bucket, I navigated to the bucket settings, selected the "Properties" tab, enabled "Static website hosting," specified the index document as index.html, and saved the configuration.

An ACL is a set of rules that manage permissions for S3 buckets and objects. It defines who can access data and what actions they can perform (read, write, etc.). AWS recommends disabling ACLs for better security using bucket policies.

Bucket website endpoint

When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. [Learn more](#)

 <http://nextwork-website-project-pushpendu.s3-website.ap-south-1.amazonaws.com> 

Bucket Endpoints

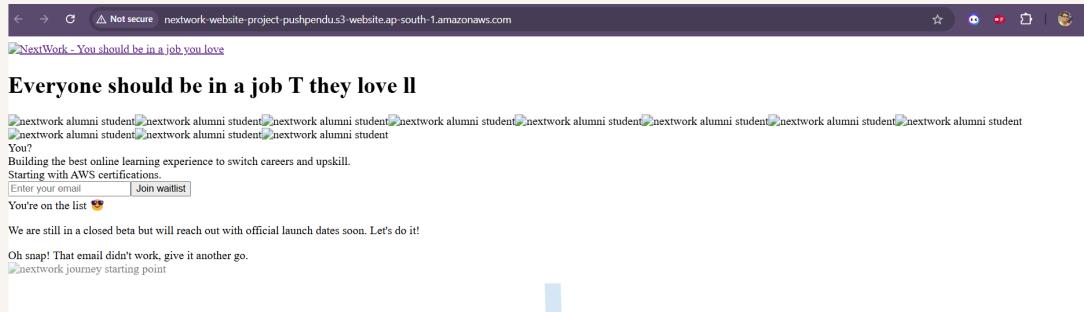
Once static website hosting is enabled, S3 produces a bucket endpoint URL, which is a unique web address that allows users to access the hosted website. My bucket's website endpoint URL is: [http://nextwork-website-project-pushpendu.s3-website]

When I first visited the bucket endpoint URL, I saw an Access Denied error. The reason for this error was that ACL was not enabled, preventing public access. I needed to update bucket permissions to allow public read access.



Success!

To resolve this connection error, I enabled ACLs and updated the bucket permissions to allow public read access. I also modified the bucket policy to grant access to everyone, ensuring the website could be viewed publicly.





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