



nextwork.org

Host a Website on Amazon S3



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The screenshot shows the homepage of the Nextwork website. At the top center is the Nextwork logo, which consists of a stylized 'NW' monogram inside a white rounded rectangle. Below the logo, the tagline "EVERYONE SHOULD BE IN A JOB THEY LOVE" is displayed in large, bold, white and blue text. To the right of the tagline is a small blue heart icon. Below the tagline is a horizontal row of twelve circular profile pictures of various animals, including a pug, a rabbit, a bear, a giraffe, a tiger, an owl, a seal, a whale, a llama, a pineapple, and a polar bear. To the right of this row is a dark circular button with the text "You?" in white. Below the animal row, there is a short description: "Building the best online learning experience to switch careers and upskill. Starting with AWS certifications." At the bottom of the screenshot is a call-to-action bar containing a text input field with the placeholder "Enter your email" and a blue button labeled "Join waitlist".



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Introducing Today's Project!

Tools and concepts

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

Project reflection

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

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How I Set Up an S3 Bucket

Creating an S3 bucket took me 5 minutes long. It's easy to understand and follow.

The Region I picked for my S3 bucket was Asia Pacific (Singapore) because it's close to my place.

S3 bucket names are globally unique! This means after you create a bucket, no other AWS account in the entire world can use your bucket's name (unless you delete the bucket).

The screenshot shows the AWS S3 console interface. At the top, there is a green success message: "Successfully created bucket 'nextwork-website-project-yusup'". Below this, there is an "Account snapshot" section with a link to "View Storage Lens dashboard". The main area displays two tabs: "General purpose buckets" (selected) and "Directory buckets". Under "General purpose buckets", there is a table listing three buckets:

Name	AWS Region	IAM Access Analyzer	Creation date
dalikumi	Asia Pacific (Singapore) ap-southeast-1	View analyzer for ap-southeast-1	February 14, 2025, 18:28:14 (UTC+07:00)
nextwork-website-project-yusup	Asia Pacific (Singapore) ap-southeast-1	View analyzer for ap-southeast-1	March 30, 2025, 20:50:28 (UTC+07:00)

At the bottom right of the table, there are buttons for "Copy ARN", "Empty", "Delete", and "Create bucket".



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Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were an html file and a folder that contains website assets (images, css file, and javascript)

Both files are necessary for this project as a complete website. HTML file as web structure, css file for styling the HTML file, and javascript for website interactivity.

The screenshot shows the AWS S3 console interface. The top navigation bar includes 'Objects', 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. Below the navigation is a search bar labeled 'Find objects by prefix' and a 'Show versions' toggle. A table lists two objects:

Name	Type	Last modified	Size	Storage class
index.html	html	March 30, 2025, 21:05:31 (UTC+07:00)	58.8 KB	Standard
NextWork - Everyone should be in a job they love_files/	Folder	-	-	-

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Static Website Hosting on S3

Website hosting means making your website public on the internet by storing the HTML file (and the other files for your website) on a web server, so it's accessible online.

To enable website hosting with my S3 bucket, I've select the bucket and click on Properties tab, then go to Static website hosting panel, and choose Edit. Static web hosting: enable, Hosting type: Host a static website, Index document: index.html.

An ACL is a set of rules that decides who can get access to a resource. In this project, I enable the ACLs to demonstrate managed access for each object individually in my bucket.

The screenshot shows the 'Edit static website hosting' configuration page. It includes fields for enabling static website hosting, selecting a hosting type (Host a static website), specifying an index document (index.html), and defining an error document (error.html). A note about public access is also present.

Edit static website hosting Info

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](#)

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](#).

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

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

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Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is just like a regular website URL. It lets people visit your S3 bucket as a website

When I first visited the bukcket endpoint URL, I saw an 403 forbidden error message. The reason for this error was because Objects (website files) permission are private by default. This default setting helps keep your account's data secure.

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: WAVV7D8HRSHDJKMR
- HostId: 8TKRHmvmD/ngzERwf2NuBFhux2H9zOKYU2FaZBoyyMLNTBz+VV2nbignOYBPMDBqoyBnHEaaVEY=



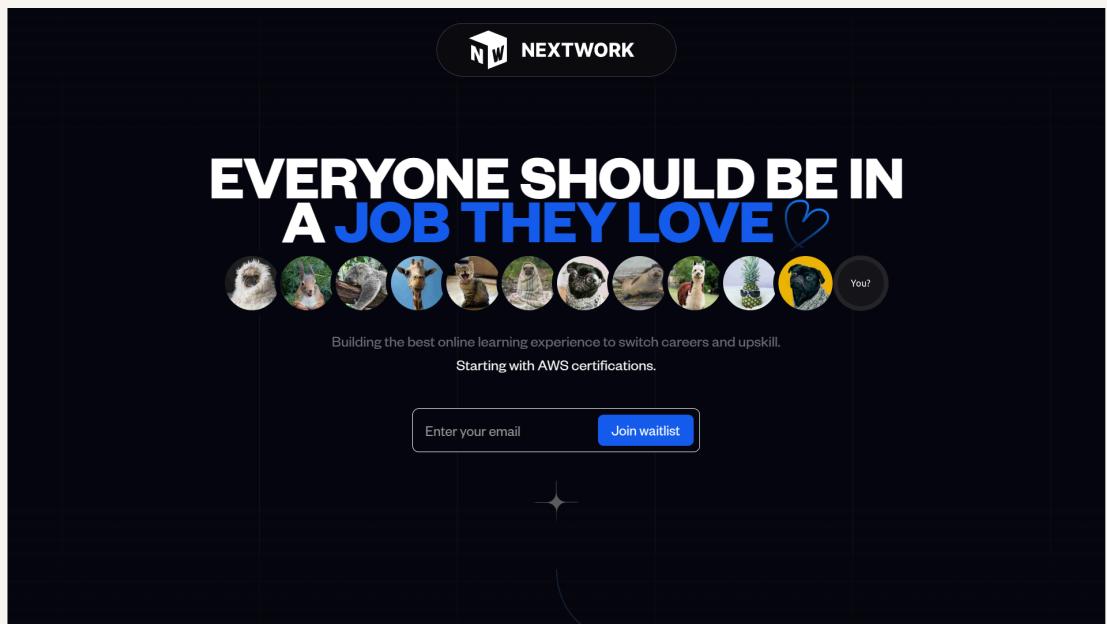
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Success!

To resolve this connection error, I've made sure to upload the right HTML file and folder, so the website can live as expected.





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