



NextWork.org

Host a Website on Amazon S3



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Introducing Today's Project!

What is Amazon S3

Amazon S3 is used to store and retrieve any amounts of data at anytime from anywhere on the web.

How I used Amazon S3 in this project

I used Amazon S3 to host a static website to public in the internet.

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

I did not expect the bucket website endpoint to be forbidden.

This project took me...

I think around 40-45 minutes.



How I Set Up an S3 Bucket

Creating an S3 bucket took me like less than 5 min

The region I picked for my s3 bucket was United States(Ohio) because I stay in Texas and that is the one closest to me.

S3 bucket names are globally unique! This means the name once used by one AWS account user cannot be used by the other user

The screenshot shows the AWS S3 Buckets page. At the top, there is a green success message: "Successfully created bucket \"nextwork-website-project-shravani\"". Below this, there is a note about the Storage lens. The main table has two tabs: "General purpose buckets" (which is selected) and "Directory buckets". The table header includes columns for "Name", "AWS Region", "IAM Access Analyzer", and "Creation date". A single row is visible, showing the newly created bucket "nextwork-website-project-shravani" in the US East (Ohio) region, with the creation date listed as January 29, 2025, 20:19:26 (UTC-06:00). Action buttons for "Copy ARN", "Empty", "Delete", and "Create bucket" are located at the top right of the table area.



Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were a html file named, index.html and folder containing images and files.

Both files are necessary for this as one contains the html code and the other contains all the resources required.

The screenshot shows the AWS S3 console interface. At the top, there's a navigation bar with the AWS logo, a search bar, and various icons. Below it, the path is shown as 'Amazon S3 > Buckets > nextwork-website-project-shravani'. The main area is titled 'nextwork-website-project-shravani' with a 'Info' link. Below this, there are tabs for 'Objects', 'Metadata', 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. The 'Objects' tab is selected. A toolbar above the list includes 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', 'Actions', 'Create folder', and 'Upload'. A note about objects is displayed: '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](#)'.

Name	Type	Last modified	Size	Storage class
index.html	html	January 29, 2025, 20:34:08 (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 means making the website public on the internet so that it can be accessed by everyone.

To enable website hosting with my S3 bucket, I have first checked if its my right bucket or not. Then, go to properties, scroll down to static website hosting and enable the static website hosting. Then, named my index document as index.html

An ACL is set of rules that decides who can get access to a resource. Enabling ACLs in this S3 setup lets you control who can access and do things with the objects (i.e. website files) you upload into your bucket.

The screenshot shows the AWS S3 Bucket Properties page for the bucket 'nextwork-website-project-shravani'. The 'Static website hosting' section is open, displaying the following configuration:

- Static website hosting:** The 'Enable' option is selected.
- Hosting type:** The 'Host a static website' option is selected, with a note: "Use the bucket endpoint as the web address." A link to 'Learn more' is provided.
- Index document:** The value 'index.html' is specified.
- Error document - optional:** The note "This is returned when an error occurs." is present.

A callout box highlights a note: "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 regular website URL. It lets people visit the s3 bucket as a website. The website is available at AWS region specific website endpoint.

When I first visited the bucket endpoint URL, I saw an error message. Because the website is being hosted by S3 but the images and the HTML files are still private.





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Success!

To resolve this connection error, I made the files public using ACL

The banner features a dark background with a grid pattern. At the top, the text "EVERYONE" is in white, "SHOULD BE IN A" is in white, and "JOB THEY LOVE" is in large blue letters. A small "NW NEXTWORK" logo is positioned between "EVERYONE" and "SHOULD BE". To the right of "LOVE" is a blue heart icon. Below the main title is a row of circular icons showing various animals and a pineapple. At the bottom, the text reads: "Building the best online learning experience to switch careers and upskill. Starting with AWS certifications." There is a call-to-action button with "Enter your email" and "Join waitlist".



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