

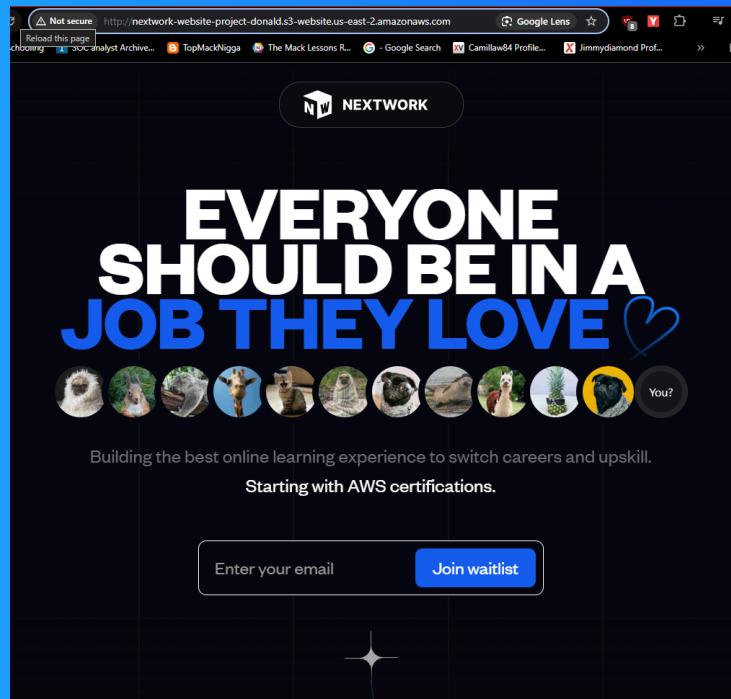


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Host a Website on Amazon S3



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Introducing Today's Project!

What is Amazon S3

Amazon S3 is a powerful and flexible storage solution that supports a wide range of data storage needs, making it an essential tool for developers and businesses looking to manage their data efficiently.

How I used Amazon S3 in this project

I host a website using AWS S3 bucket.

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

I didnt expect the website error.

This project took me...

This project took almost an hour.



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How I Set Up an S3 Bucket

Creating an S3 bucket took me 10 to 15 minutes to create.

The Region I picked for my S3 bucket was... because Virginia because that was the closet to my time zone.

S3 bucket names are globally unique! This means no other AWS account in the entire world can use your bucket's name.

The screenshot shows the 'Amazon S3 > Buckets' page. At the top, there is an 'Account snapshot - updated every 24 hours' section with a link to 'All AWS Regions'. Below it is a 'General purpose buckets' section with a sub-section for 'Directory buckets'. A search bar labeled 'Find buckets by name' is present. The main table lists one bucket:

Name	AWS Region	IAM Access Analyzer	Creation date
nextwork-website-project-donald	US East (Ohio) us-east-2	View analyzer for us-east-2	November 20, 2024, 15:36:45 (UTC-06:00)



Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were index.html and Nextworks - Everyone should be in a job they love file.

Both files are necessary for this project as content for the website and how to index it.

The screenshot shows the Amazon S3 console interface. The top navigation bar includes 'Amazon S3' and 'Buckets'. The current bucket is 'nextwork-website-project-donald'. The main menu tabs are 'Objects', 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. The 'Objects' tab is selected. Below the tabs, there is a toolbar with icons for 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', 'Actions', and 'Create folder'. A prominent orange 'Upload' button is visible. A message below the toolbar 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](#)'.

Name	Type	Last modified	Size
index.html	html	November 20, 2024, 15:54:46 (UTC-06:00)	58.8
NextWork - Everyone should be in a job they love_files/	Folder	-	



Static Website Hosting on S3

Website hosting refers to the service that allows individuals and organizations to make their websites accessible on the internet

To enable website hosting with my S3 bucket, I enabled static web host.

An Access Control List (ACL) is a list of rules that specifies which users or systems are granted or denied access to a particular resource or system

The screenshot shows the AWS S3 console interface for enabling static website hosting. At the top, it says "Static website hosting" and "Edit". Below that, a message recommends using AWS Amplify Hosting for static website hosting, with links to "Learn more" and "Create Amplify app". The main configuration section shows "S3 static website hosting" is "Enabled". Under "Hosting type", it is set to "Bucket hosting". In the "Bucket website endpoint" section, it shows the URL <http://nextwork-website-project-donald.s3-website.us-east-2.amazonaws.com>.



Bucket Endpoints

When you enable static website hosting on an S3 bucket, it creates a special URL called a bucket endpoint URL. This URL lets you access the content in your bucket like a website, using a web browser. It's basically the address of your website hosted

When I first visited the bucket endpoint URL, I saw...403 forbiddden page. The reason for this error was the objects were private and I needed to set permissions and make the objects public so I enabled ACLs.

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: EHPRIWKXG180PXP5
- HostId: SACKEAixnq159p8etPZMG++w1aZxH87BPrAiihGKJVpBM9w5NRGASOUCVFwFC0lEpMSbLF6xBLQ=

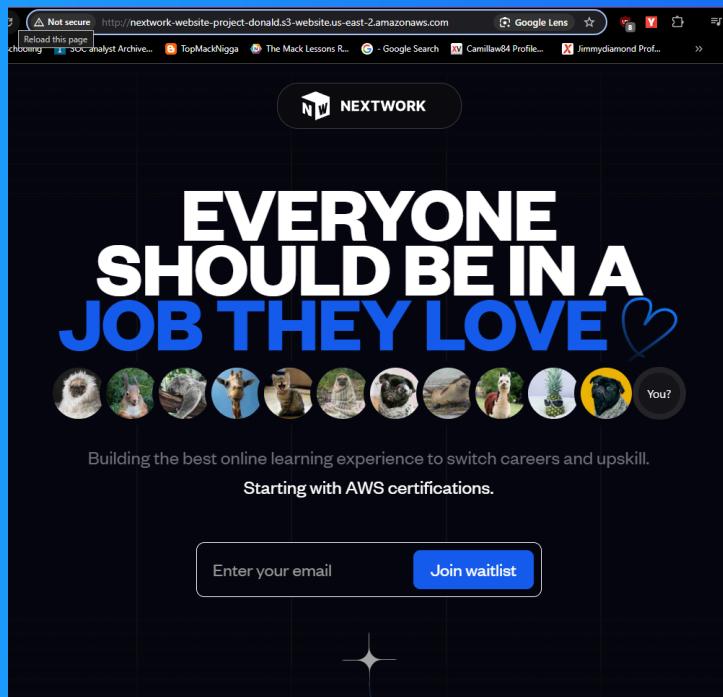


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Success!

To resolve this connection error, I had to make it public for people to see.





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