



NextWork.org

# Host a Website on Amazon S3



Ivan Delgadillo Fernandez

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# Introducing Today's Project!

## What is Amazon S3

Because is a highly scalable, durable and secure object storage service provided by AWS

## How I used Amazon S3 in this project

I use to put host static website

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

how to make secure the bucket

## This project took me...

30 minutes



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# How I Set Up an S3 Bucket

Creating an S3 bucket took me 3 minutes

The Region I picked for my S3 bucket was N. Virginia because I have low latency

S3 bucket name are globally unique

The screenshot shows the AWS S3 console interface. At the top, there are two tabs: "General purpose buckets" (which is selected) and "Directory buckets". Below the tabs, a header bar includes "General purpose buckets (1) Info All AWS Regions", a search bar with placeholder text "Find buckets by name", and several buttons: "Copy ARN", "Empty", "Delete", and a prominent orange "Create bucket" button. A message below the header states "Buckets are containers for data stored in S3." A table below the message lists the single bucket information:

Name	AWS Region	IAM Access Analyzer	Creation date
nextwork-website-project-idz	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	August 13, 2024, 15:20:07 (UTC-04:00)



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# Upload Website Files to S3

## index.html and image assets

I uploaded two files to my S3 bucket - They were a index.html and folder with files

Both files are necessary for this project as a web site

The screenshot shows the AWS S3 console interface. At the top, there are several buttons: Copy S3 URI, Copy URL, Download, Open, Delete, Actions, Create folder, and Upload. Below these buttons is a search bar labeled "Find objects by prefix". The main area displays a table of objects:

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	<a href="#">index.html</a>	html	August 13, 2024, 15:49:00 (UTC-04:00)	58.8 KB	Standard
<input type="checkbox"/>	<a href="#">NextWork - Everyone should be in a job they love_files/</a>	Folder	-	-	-



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# Static Website Hosting on S3

website hosting static means that content publicly readable

To enable with my S3 Bucket, I check Host a static website.

## Access Control Lists (ACL)

a set of rules that decides who can get access to a resource and I did enable the ACL



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# Bucket Endpoints

Once static website is enable, S3 produces a bucket endpoint URL, which is  
<http://nextwork-website-project-idz.s3-website-us-east-1.amazonaws.com/>

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.  
index.html



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# An error!

When I first visited the bucket endpoint URL. I saw 403 error Forbidden

The reason for this error was I dont have permission in the bucket

## 403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: ZKHJT7R76ZFANBBR
- HostId: Hfzq7k+XMJLFPMYH7a3qP42XW7CI/TFmbqAvtL2A7KVaacLGS3zBfACieDYvpLDEnFdHRh8Jwew=



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# Success!

To resolve this connection error, I make public the folder and index.html file.

The screenshot shows the homepage of the NextWork website. The header features the NextWork logo (a stylized 'N' and 'W' icon) and the tagline "EVERYONE SHOULD BE IN A JOB THEY LOVE" in large, bold, white and blue text. Below the tagline is a horizontal row of circular profile pictures of various animals (a pug, a squirrel, a koala, a giraffe, a cat, a dog, an owl, a llama, a potted plant, and a black dog). To the right of this row is a circular button labeled "You?". Below the animal images is a descriptive text block: "Building the best online learning experience to switch careers and upskill. Starting with AWS certifications." At the bottom is a call-to-action bar with a text input field containing "Enter your email" and a blue button labeled "Join waitlist".



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