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Host a Website on Amazon S3



Kislay Kislay

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Introducing Today's Project!

What is Amazon S3

Amazon S3 (Simple Storage Service) is a scalable, durable, and secure cloud storage service provided by Amazon Web Services (AWS). It allows users to store and retrieve any amount of data at any time, from anywhere on the web.

How I used Amazon S3 in this project

We hosted a static website using AWS S3.

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

I thought AWS project are next to rocket science but the steps provided was so accurate and it made it look so easy.

This project took me...

30 mins



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How I Set Up an S3 Bucket

10-20 seconds

The Region I picked for my S3 bucket was because it was North Virginia because it was the closest to me.

S3 bucket names are globally unique! This means that each bucket name must be distinct across all AWS accounts and regions worldwide. When we create an S3 bucket, its name becomes part of a global namespace, so no two buckets can have the same name.

The screenshot shows the 'Amazon S3 > Buckets' page. At the top, there's an 'Account snapshot - updated every 24 hours' section with a link to 'All AWS Regions'. To the right is a 'View Storage Lens dashboard' button. Below this, there are tabs for 'General purpose buckets' (which is selected) and 'Directory buckets'. A search bar labeled 'Find buckets by name' is present. On the right, there are buttons for 'Create bucket' (orange), 'Copy ARN', 'Empty', and 'Delete'. A table lists the single bucket: 'nextwork-website-project-kislay' (Name), 'US East (N. Virginia) us-east-1' (AWS Region), 'View analyzer for us-east-1' (IAM Access Analyzer), and 'August 14, 2024, 08:45:37 (UTC-04:00)' (Creation date). Navigation arrows and a refresh icon are also visible.



Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were index.html and the 'NextWork - Everyone should be in a job they love_files' folder

Both files are necessary for this project as html files uses the js and css for beautification purpose that is stored in the folder. It also has the image that would appear in the website.

Name	Type	Last modified	Size	Storage class
index.html	html	August 14, 2024, 08:53:55 (UTC-04:00)	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 is what makes your website public on the internet. By configuring your S3 bucket for hosting, we're telling this bucket: "please create a URL that will take anyone to a page that displays the HTML file I just uploaded."

To enable website hosting with my S3 bucket, I chose the option enable in static web hosting setting.

Access Control Lists (ACL)

An Access Control List (ACL) is a set of rules that determines which users or systems are granted access to specific resources or network segments and what operations they are allowed to perform. I enabled the ACL.



Bucket Endpoints

Once static website hosting is enabled, S3 produces a bucket endpoint URL, which is a unique web address that allows you to access the contents of your S3 bucket as a static website.

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](#)

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



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An error!

When I first visited the bucket endpoint URL, I saw a 403 forbidden error msg.

The reason for this error was that objects are private by default. This default setting helps keep your account's data secure.

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: V46XHEWB828NPEJ9
- HostId: CmBDgTkxclRyG4TZ8gNsIL72o3sVbHjoEf4fNsORluiW8yGWXSFScXFVyI9pncvE+hbm3w0P1NbUZn9Lp2FBw==



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Success!

To resolve this connection error, I clicked in Action button and chose the option 'Make public using ACL'

The screenshot shows the NextWork website homepage. The header features the NW NEXTWORK logo and the tagline "EVERYONE SHOULD BE IN A JOB THEY LOVE" in large, bold, white and blue text. Below the tagline is a row of circular profile pictures of various animals. To the right of the animal icons is a dark circular placeholder with the text "You?". Below the header, the text "Building the best online learning experience to switch careers and upskill." and "Starting with AWS certifications." is displayed. At the bottom, there is a call-to-action bar with the text "Enter your email" and a blue "Join waitlist" button.



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