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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 service that's built to store, protect, and retrieve data from "buckets" at any time from anywhere on any device.

How I used Amazon S3 in this project

To host Static Website.

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

I didn't expect hosting a static website would be this much easy.

This project took me...

This project took me 45 minutes complete.



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How I Set Up an S3 Bucket

Creating an S3 bucket took me around 2 to 3 minutes.

The Region I picked for my S3 bucket was Asia Pacific (Sydney) because it closes to me.

S3 bucket names are globally unique! This means the name of the bucket should be unique globally so no two buckets have the same name.

The screenshot shows the AWS S3 Buckets page. At the top, there's a header with 'Amazon S3 > Buckets'. Below it, a section titled 'Account snapshot - updated every 24 hours' shows 'All AWS Regions' and a 'View Storage Lens dashboard' button. The main area is divided into 'General purpose buckets' (selected) and 'Directory buckets'. Under 'General purpose buckets', there's a sub-section titled 'General purpose buckets (1) info All AWS Regions'. It says 'Buckets are containers for data stored in S3.' and includes a search bar 'Find buckets by name'. A table lists one bucket: 'network-website-project-saish' (Name), 'Asia Pacific (Sydney) ap-southeast-2' (AWS Region), 'View analyzer for ap-southeast-2' (IAM Access Analyzer), and 'August 6, 2024, 11:27:10 (UTC+05:30)' (Creation date). To the right of the table are buttons for 'Create bucket' (orange), 'Copy ARN', 'Empty', and 'Delete'.



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Upload Website Files to S3

index.html and image assets

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

Both files are necessary for this project as index.html contains webpage and NextWork - Everyone should be in a job they love_files/ contains content of the webpage.

The screenshot shows the Amazon S3 console interface. The top navigation bar includes 'Amazon S3', 'Buckets', and the specific bucket name 'network-website-project-saish'. Below the navigation is a toolbar with various actions: Copy S3 URI, Copy URL, Download, Open, Delete, Actions, Create folder, and Upload. A search bar labeled 'Find objects by prefix' is present. The main content area displays a table of objects:

Actions	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	index.html	html	August 6, 2024, 11:38:41 (UTC+05:30)	58.8 KB	Standard
<input type="checkbox"/>	NextWork - Everyone should be in a job they love_files/	Folder	-	-	-



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Static Website Hosting on S3

Website hosting means... it's an online service that makes your website's content accessible on the internet.

To enable website hosting with my S3 bucket, I first set up static website hosting and generate url to visit website.

Access Control Lists (ACL)

An ACL is enable you to manage access to buckets and objects and i enable it.



Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is content that we want to access.

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](#)

Tip: 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.

Redirection rules - optional
Redirection rules, written in JSON, automatically redirect webpage requests for specific content. [Learn more](#)

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An error!

When I first visited the bucket endpoint URL, I saw 403 forbidden meassge.

The reason for this error was i didn't make objects publicly using ACL.

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: VR2V8JZSJCA5KRXA
- HostId: zNPtgYfkgOSm78YMVEOPbkiKUrF9tufWXkee5n90dfQKSp8mQsQf6GE0a2v7E1XgCLR6A4yKfv0=

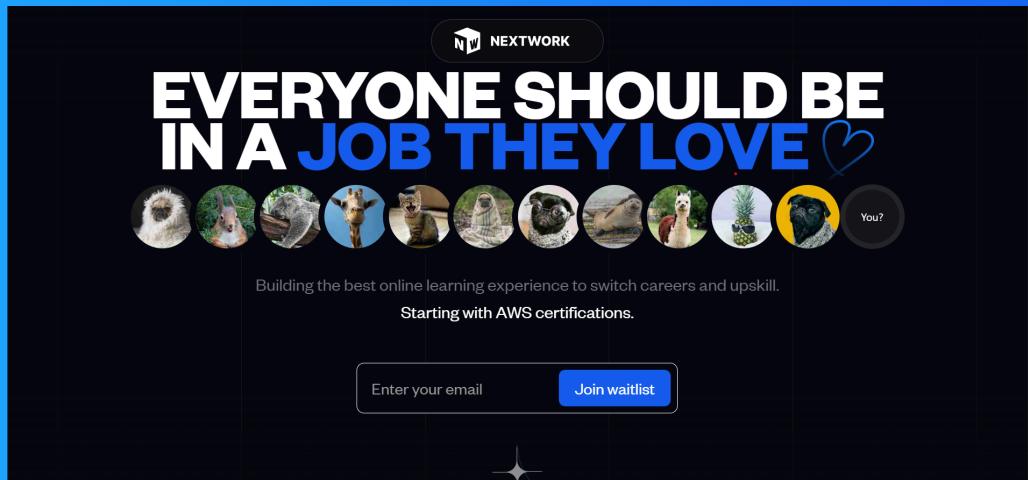


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Success!

To resolve this connection error, I first went to objects and select the option which is make public using ACL.





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