



NextWork.org

Host a Website on Amazon S3



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Introducing Today's Project!

What is Amazon S3

Amazon S3 (Simple Storage Service) is a scalable cloud storage service that allows users to store and retrieve any amount of data at any time. It is useful for its durability, high availability, and cost-effective storage solutions.

How I used Amazon S3 in this project

I used Amazon S3 in today's project to host a static website by uploading the site's HTML, CSS, and JavaScript files to an S3 bucket, enabling static website hosting, and configuring the bucket's permissions and settings for public access.

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

One thing I didn't expect in this project was a smooth deployment process; I anticipated errors, but everything went seamlessly without any issues.

This project took me...

10 minutes.



How I Set Up an S3 Bucket

2 minutes

The Region I picked for my S3 bucket was default selected.

When S3 buckets are said to be "globally unique," it means that each bucket name must be distinct across all AWS accounts worldwide. No two S3 buckets can share the same name, ensuring that every bucket has a unique identifier for accessing and managing data.

A screenshot of the Amazon S3 Buckets page. At the top, there's a header with the Amazon S3 logo and a 'Buckets' button. Below the header, a section titled 'Account snapshot - updated every 24 hours' shows '1' bucket. A 'View Storage Lens dashboard' button is also present. The main content area is divided into 'General purpose buckets' and 'Directory buckets'. Under 'General purpose buckets', there's a sub-section for 'Buckets are containers for data stored in S3.' A search bar labeled 'Find buckets by name' is available. A table lists the single bucket: 'Name' (irfan-portfolio-website), 'AWS Region' (Asia Pacific (Sydney) ap-southeast-2), 'IAM Access Analyzer' (with a link to 'View analyzer for ap-southeast-2'), and 'Creation date' (September 1, 2024, 14:44:19 (UTC+05:30)). Action buttons for 'Copy ARN', 'Empty', 'Delete', and 'Create bucket' are located at the top right of the table.



Upload Website Files to S3

index.html and image assets

Index.html and One folder

For frontend and other assets

Files and folders (45 Total, 2.7 MB)						
<input type="text"/> Find by name						
Name	Folder	Type	Size	Status	Error	
.DS_Store	NextWork - E...	-	10.0 KB	SUCCEEDED	-	
1.jpg	NextWork - E...	image/jpeg	4.0 KB	SUCCEEDED	-	
10.jpg	NextWork - E...	image/jpeg	4.1 KB	SUCCEEDED	-	
11.jpg	NextWork - E...	image/jpeg	4.2 KB	SUCCEEDED	-	
12.jpg	NextWork - E...	image/jpeg	4.5 KB	SUCCEEDED	-	
2.jpg	NextWork - E...	image/jpeg	3.8 KB	SUCCEEDED	-	
3.jpg	NextWork - E...	image/jpeg	3.4 KB	SUCCEEDED	-	
4.jpg	NextWork - E...	image/jpeg	3.7 KB	SUCCEEDED	-	
5.jpg	NextWork - E...	image/jpeg	3.7 KB	SUCCEEDED	-	
6475b3ff55...	NextWork - E...	image/svg+xml	711.0 B	SUCCEEDED	-	



Static Website Hosting on S3

Website hosting refers to the service of providing storage space and access on a server for a website, making it accessible to users on the internet.

By making ACL public.

Access Control Lists (ACL)

ACL is Access Control List. An Access Control List (ACL) is a set of rules that defines which users or system processes are granted access to objects, such as files or network resources, and what operations they are allowed to perform (e.g., read, write).



Bucket Endpoints

<http://irfan-portfolio-website.s3-website-ap-southeast-2.amazonaws.com/>

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.

Error document - optional
This is returned when an error occurs.



An error!

Error

Resources were still private

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: MXWXEZY5Y6GD9X6E
- HostId: Q0i2D5tDCvvM5WPpfB60WUcEZFyM/BIRLF418Qx0iB0luUMKxH/73may8PDt1MbMZlhdBaJ889w=



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Success!

By making the resources Public

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