



How I Hosted A Website on S3



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Introducing Amazon S3!

What it does & how it's useful

Amazon S3, or Amazon Simple Storage Service, is a service offered by Amazon Web Services (AWS) that provides object storage through a web service interface.

How I'm using it in today's project

I'm using Amazon S3 in this project to store my files for the webpage and also host it as a static website

This project took me...

Total project time took me up to 25mins Documentation was an extra 20 mins



Create an S3 bucket

- Creating an Amazon S3 bucket took me less than 25 mins
- Some of the configuration steps include:
 - The bucket's Region: Us East N Virginia thats my closest region and also thats where i want my resources
 - Access Control Lists: Acls Decides who can get access to the resource
 - Bucket versioning: Bucket owner Preferred
 - Public Access: Means website can be access by the Public
- S3 bucket names have to be globally unique, which means when one name is taken Globally nobody else can have that name.resume-static-website-nhyira is available to only me

My created bucket!

General purpose buckets (1) [Info](#) **All AWS Regions**

Copy ARN **Empty** **Delete** **Create bucket**

Buckets are containers for data stored in S3.

< 1 >

	Name ▲	AWS Region ▼	IAM Access Analyzer	Creation date ▼
<input type="radio"/>	resume-static-website-nhyira	US East (N. Virginia) us-east-1	View analyzer for us-east-1	June 24, 2024, 15:41:26 (UTC-04:00)



Upload website files to S3

- Next, I uploaded my website's files into my S3 bucket.
- There were two files to upload: Index.Html and Network-everyone should be in a job they_love

Objects successfully uploaded!

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](#)

Find objects by prefix

☐ Show versions

< 1 > ⚙

<input type="checkbox"/>	Name	Type	Last modified
<input type="checkbox"/>	index.html	html	June 24, 2024, 16:04:00)
<input type="checkbox"/>	NextWork - Everyone should be in a job they	Folder	-



Static web hosting on S3

- Website hosting means making your website accessible on the internet
- To enable website hosting, I uploaded files to s3 bucket and then Enabled static web hosting using the properties Tab
- Once static website is enabled, S3 produces a bucket endpoint URL that takes you directly to the static webpage

Setting up 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

Error document - *optional*

This is returned when an error occurs



An error!

- When I visited the bucket endpoint URL, i got an error 403
- The reason for this error was objects in the bucket were still private and i had to make it public with acls

The error!

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: A2SA2SKMD7VC3KFM
- HostId: yw2RbWqtJ6axIHASjYj0rREIkOr3Ys6PeWF2cB/KidE44F9IhU7Pa0RuB+du3TZMlgIjL0crTt0=



Your Name
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Voila! My website was up and running after resolving those errors



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My Key Learnings

- 1 Static website hosting means hosting a website that has a fixed code and only I the programmer can make changes. if i dont make any changes nothing will change on the website . Take it as just a landing page
- 2 The settings I used to make my website available to the public were:
 - 1.Permit Public access by unchecking Block Public Access
 - 2.Used Acls to make objects in Bucket Public
- 3 My bucket endpoint URL initially still returned an error because i wasnt fully public. Even though the bucket was hosted items in the bucket was still private. I resolved this by enabling public read access with the acls
- 4 One thing I didn't expect was an error 403 after unchecking Block Public Access