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How I Hosted A Website on S3



GOUTAM DEEWAN



Number Guess Game

Guess a number between 1 and 100



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Introducing Amazon S3!

What it does & how it's useful

Amazon S3 is a scalable cloud storage service provided by AWS for storing and retrieving any amount of data.

Developers and teams use Amazon S3 because it offers high durability, availability, and security, along with easy integration and cost-effective pricing.

How I'm using it in today's project

I'm using Amazon S3 in this project to upload and host a static website easily and reliably.

This project took me...

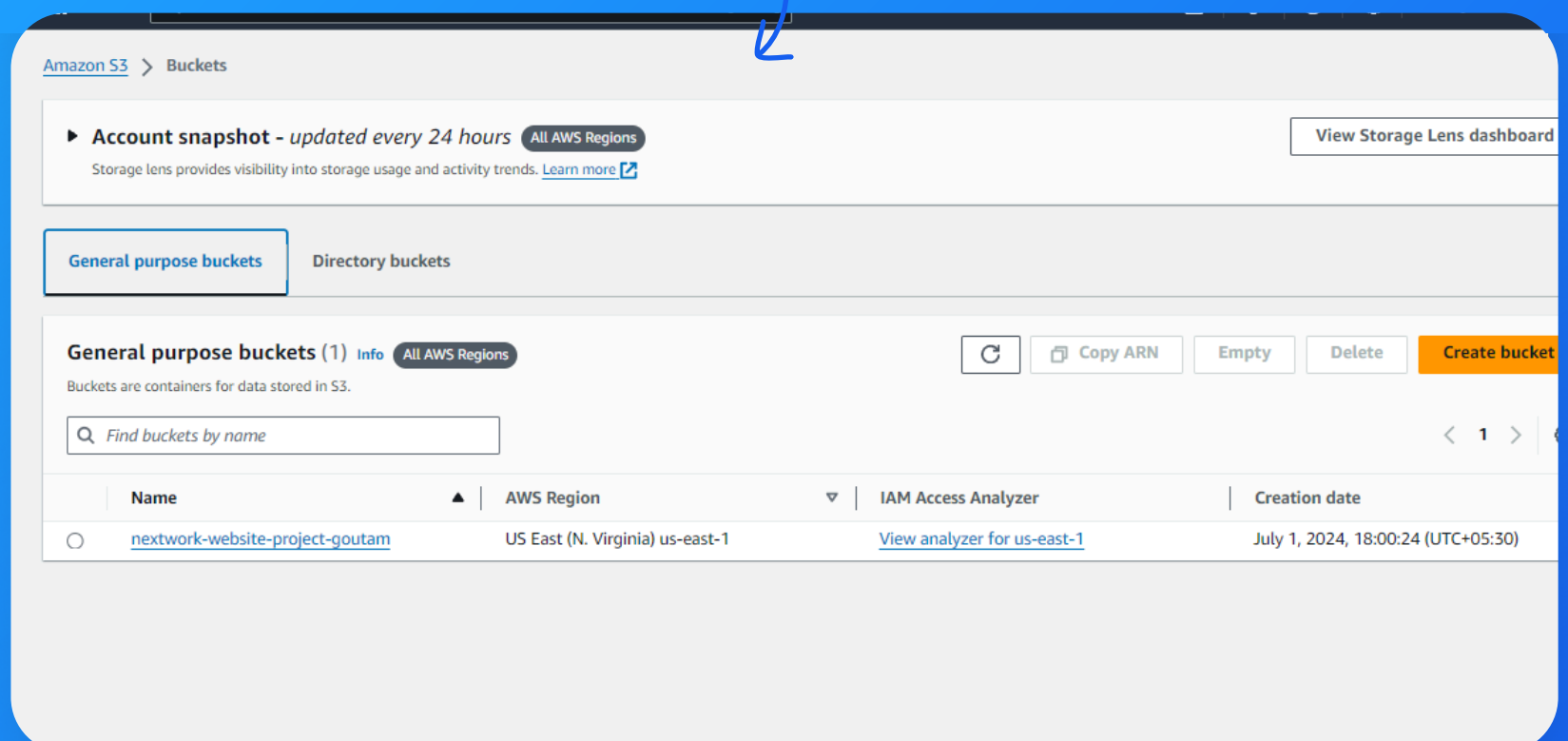
The project took me 20 minutes to complete, and writing the documentation took an additional 10 minutes.



Create an S3 bucket

- Creating an Amazon S3 bucket took me... 3 minutes
- Some of the configuration steps include:
 - The bucket's Region: North Virginia, It is a suggested region in my area.
 - Access Control Lists: Enable, to keep the public access of the website
 - Bucket versioning: Enabled
 - Public Access: Enabled
- S3 bucket names have to be globally unique, which means no two S3 buckets can have the same name across all AWS accounts worldwide.

My created bucket!





Upload website files to S3

- Next, I uploaded my website's files into my S3 bucket.
- There was a single file to upload: its a simple html file "index.html" containing a code for simple number guessing game

File index.html in the bucket

aws Services Search [Alt+S]

Upload succeeded
View details below.

The information below will no longer be available after you navigate away from this page.

Summary

Destination s3://nextwork-website-project-goutam	Succeeded 1 file, 2.9 KB (100.00%)
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Files and folders Configuration

Files and folders (1 Total, 2.9 KB)

Find by name

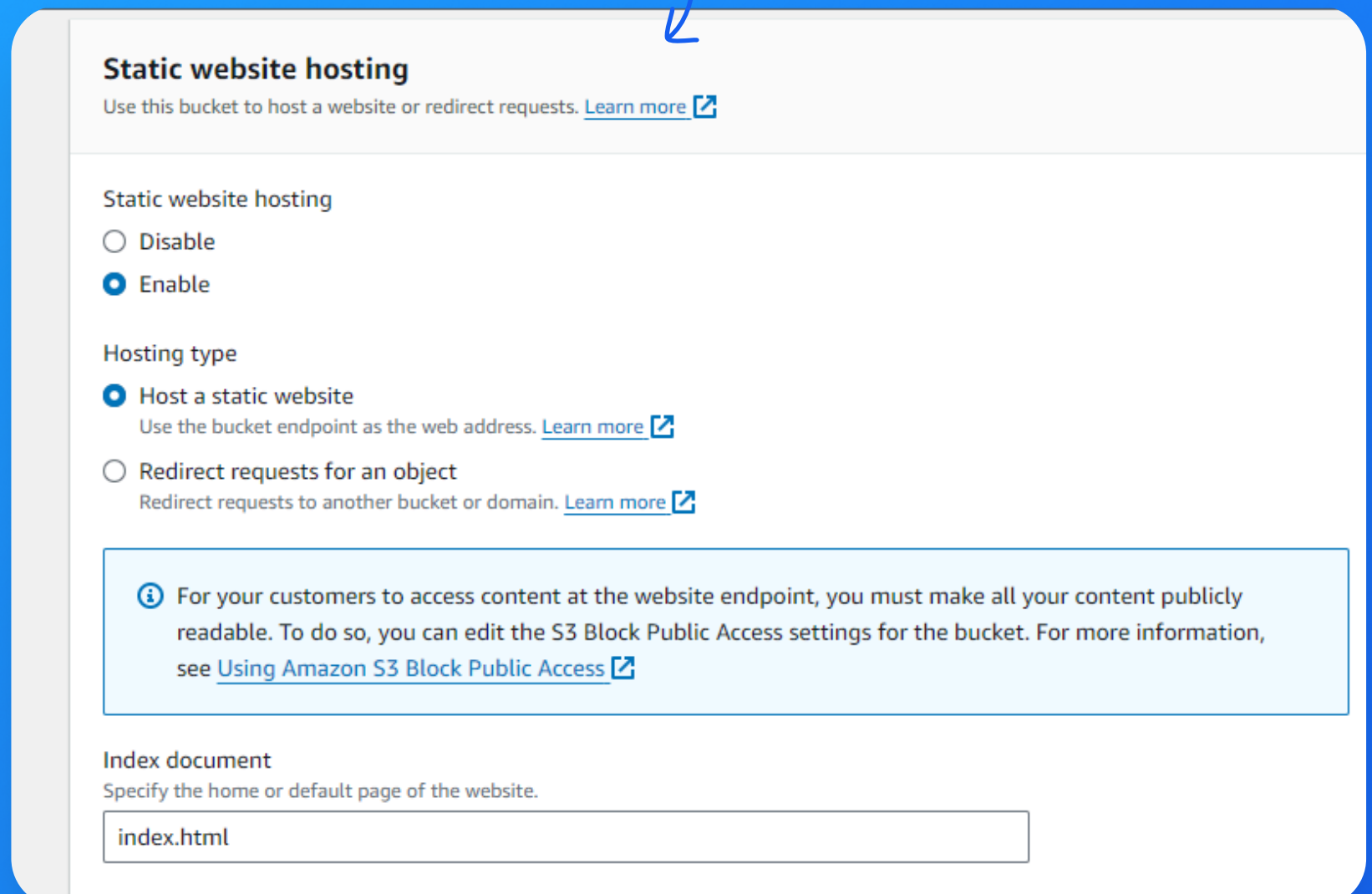
Name	Folder	Type	Size	Status	Error
index.html.html	-	text/html	2.9 KB	Succeeded	-



Static web hosting on S3

- Website hosting means storing website files on a server to make them accessible online.
- To enable website hosting, I clicked on the properties tab on my s3 bucket and then scrolled down to “static website hosting” then clicked “Enabled”
- Once static website is enabled, S3 produces a bucket endpoint URL for hosted website

Setting up static website hosting...



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.

index.html



An error!

- When I visited the bucket endpoint URL, I saw a 403 error message
- The reason for this error was...that the object was not having a public access yet
- To make it publicly accessible , I selected my object and clicked on Action button then I selected make public using ACL

The error!

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: AVGSEE9CD00JY8XQ
- HostId: lhr2E8Nkvk18I2YyZupT2Y3eqpgaW8kpAaLq3SXIrmBISIWcgqVGxDa04ueZ2QOF5C4dqQ3o7A=



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



Number Guess Game

Guess a number between 1 and 100

Submit Guess

Play Again



My key learnings

- 1 Static website hosting means storing and serving fixed content files like HTML, CSS, and JavaScript without server-side processing.
- 2 The settings I used to make my website public were enabling static website hosting in S3 and setting the bucket permissions to public access using ACLs.
- 3 My bucket endpoint URL initially still returned an error because it was not given a public access
I had to resolve this by allowing public access via ACL
- 4 One thing I didn't expect was how quickly I could set up and deploy my website using Amazon S3—it was faster than I anticipated.