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# How I Hosted A Website on S3



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# Introducing Amazon S3!

## What it does & how it's useful

Amazon S3 is like a super reliable and secure storage space in the cloud. It's advertised as "infinitely scaling" storage. Many AWS services use Amazon S3 as an integration as well.

Developers and teams use Amazon S3 because of its use cases like Disaster Recovery, Static website, Hybrid Cloud storage and Backup and storage.

## How I'm using it in today's project

I'm using Amazon S3 in this project to present you an easy way to host a website.

## This project took me...

Not as much as you might think at first. With all the documentation and writing about and hour and a half, maybe a little less.



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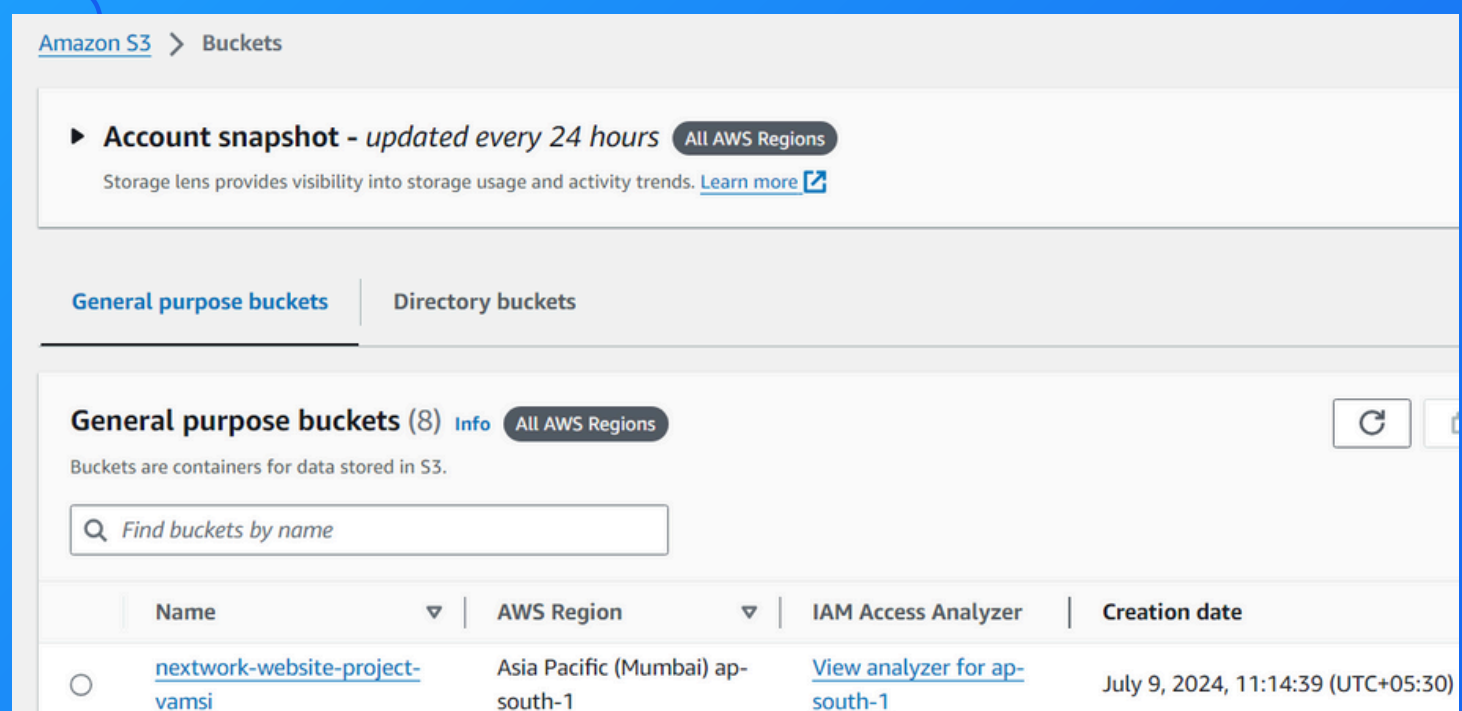
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# Create an S3 bucket

- Creating an Amazon S3 bucket took me a couple of minutes. The whole process is easy and clearly explained.
- Some of the configuration steps include:
  - The bucket's Region: Make sure you choose a region closest to you, though you might have already done that during setting up your AWS account.
  - Access Control Lists: Who you allow to access and what actions are allowed to do. Choose wisely.
  - Bucket versioning: Enabled
  - Public Access: Since, it's a website you want it to be publicly available.
- S3 bucket names have to be globally unique.

My created bucket!





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# Upload website files to S3

- Next, I uploaded my website's files into my S3 bucket.

There were two files to upload: a folder called "NextWork - Everyone should be in a job they love\_files" and a file called "index.html". We need both of them, to ensure proper website behaviour and organisation.

Objects successfully uploaded!

The screenshot shows the Amazon S3 console interface for a bucket named 'nextwork-website-project-vamsi'. The 'Objects' tab is selected, displaying a list of two objects. A blue arrow points from the text 'Objects successfully uploaded!' to the 'Objects' tab.

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	<a href="#">index.html</a>	html	July 9, 2024, 11:41:10 (UTC+05:30)	58.8 KB	Standard
<input type="checkbox"/>	<a href="#">NextWork - Everyone should be in a job they love_files/</a>	Folder	-	-	-



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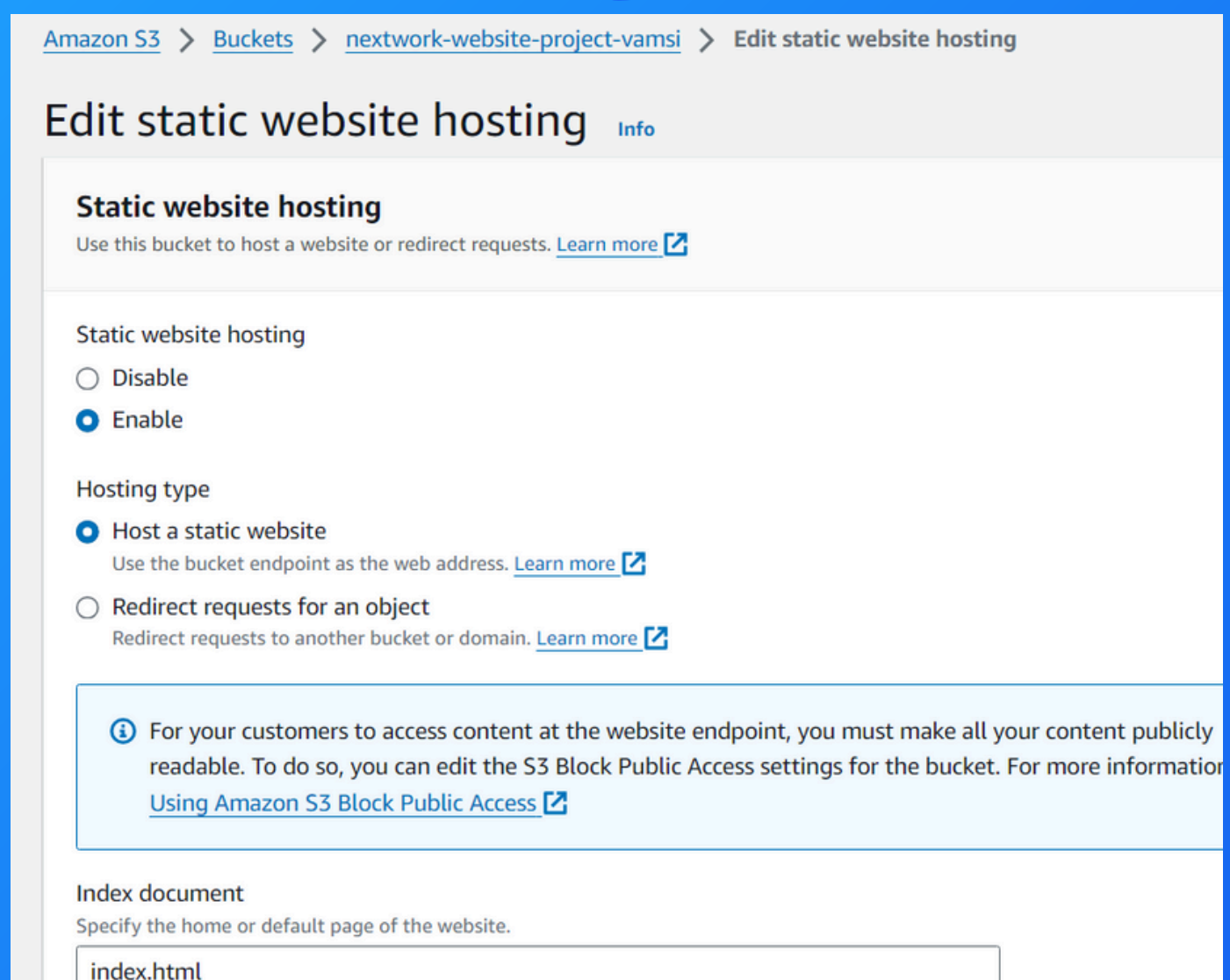
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# Static web hosting on S3

- Website hosting in AWS let's you host static websites. It's like having a reliable storage space for your website files in the cloud.
- To enable website hosting, click in the "**Properties**" section of your S3 bucket and scroll down to "**Static Website Hosting**" and click "**Enabled**".
- Once static website is enabled, S3 produces a bucket endpoint URL

Setting up static website hosting...



Amazon S3 > Buckets > nextwork-website-project-vamsi > Edit static website hosting

## 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](#)

**Info** 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





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# An error!

- When I visited the bucket endpoint URL, an error message appeared.
- The reason for this error was the fact that the elements in my S3 bucket were still private and not public. Check them and from the actions section choose to make them public.

The error!



## 403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: RNV4PVD7XSND37G7
- HostId: JA6qKixEl+hRkYe5vO2CAsxZLv8azAmeKqlqc8tIIImYOIMtAYpjhxidZBjcpIBhN9LJpxeBIVb0=



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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 files and folders in the AWS S3 bucket and making them accessible on the internet.

2

The settings I used to make my website available to the public were:

- I enabled static website hosting in the **properties** tab of the bucket.
- Made the object in the bucket accessible through ACL.

3

My bucket endpoint URL initially still returned an error because the objects uploaded were private by default after the upload.

I had to resolve this by making them accessible through ACL.

4

One thing I didn't expect was that it took only a short amount of time to host a website. Never thought it was this easy.



# Everyone should be in a job they love. *yes!*

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