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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 data. It is ideal for backups, media hosting, and scalable applications due to its durability and security.

How I used Amazon S3 in this project

I used Amazon S3 to create a bucket that i used to host a static website.

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

The last error where my webpage did not come out as expected.

This project took me...

An hour



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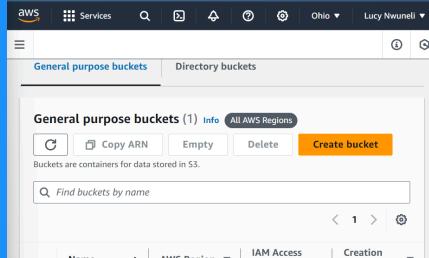
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How I Set Up an S3 Bucket

Creating an S3 bucket took me 5 minutes to create all i needed to do was search in the services for the s3 service choose what properties i wanted for my bucket and created it.

The region i picked for my S3 bucket was us-east-2 ohio because it was the closest region to me

S3 bucket names are globally unique! This means unless i delete my bucket no other AWS account can share the same name as my S3 bucket.



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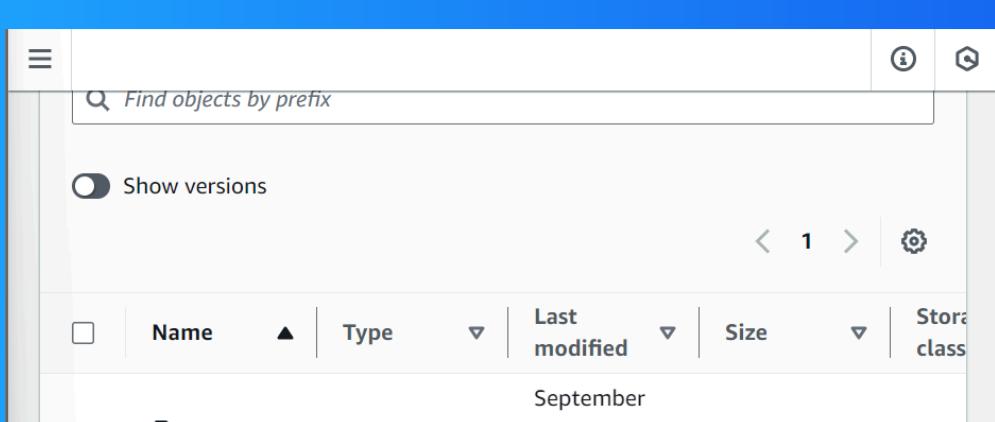
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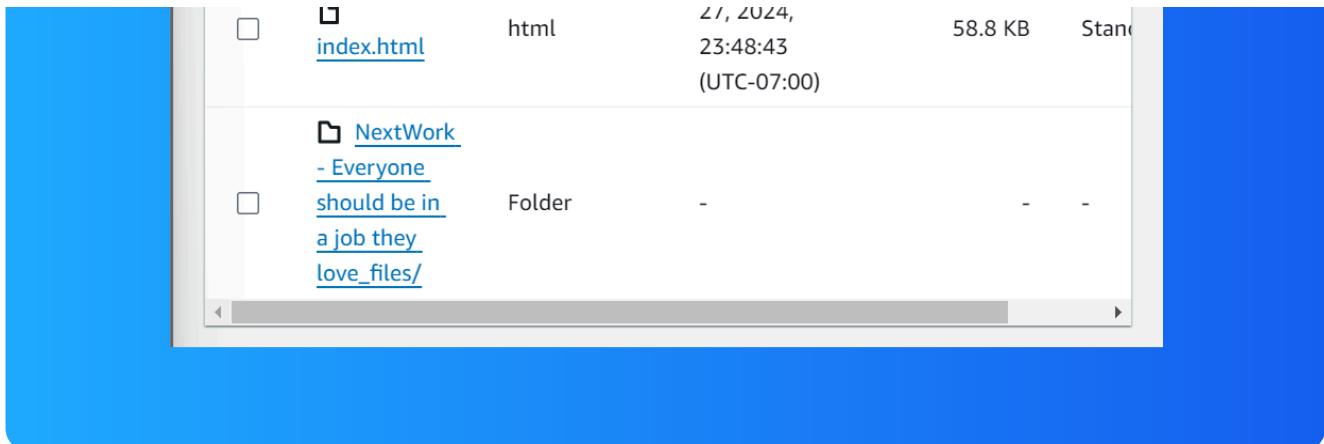
Upload Website Files to S3

index.html and image assets

I uploaded to file to my S3 BUCKET - they were: an index html file A folder

Both files are necessary for this project because i am hosting a website with my S3 bucket and an index.html file is very neccessary The second folder contained picture in which the two of them combined makes the blueprint of a website





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Static Website Hosting on S3

Website Hosting means making your website public ont the internet.

To enable website hosting with my S3 bucket, I selected my S3 bucket. - Clicked on the properties tab -Scrolled down to Static website hosting and clicked edit - clicked on enable and selected a hosting type -Also put in the name of my index document

Access Control Lists (ACL)

An ACL is an acronymn for Access control Lists it is a set of rules that decides who can get access to a resource. I enabled my ACL because i want to be able to have control over who accesses and uploads to my s3 bucket.



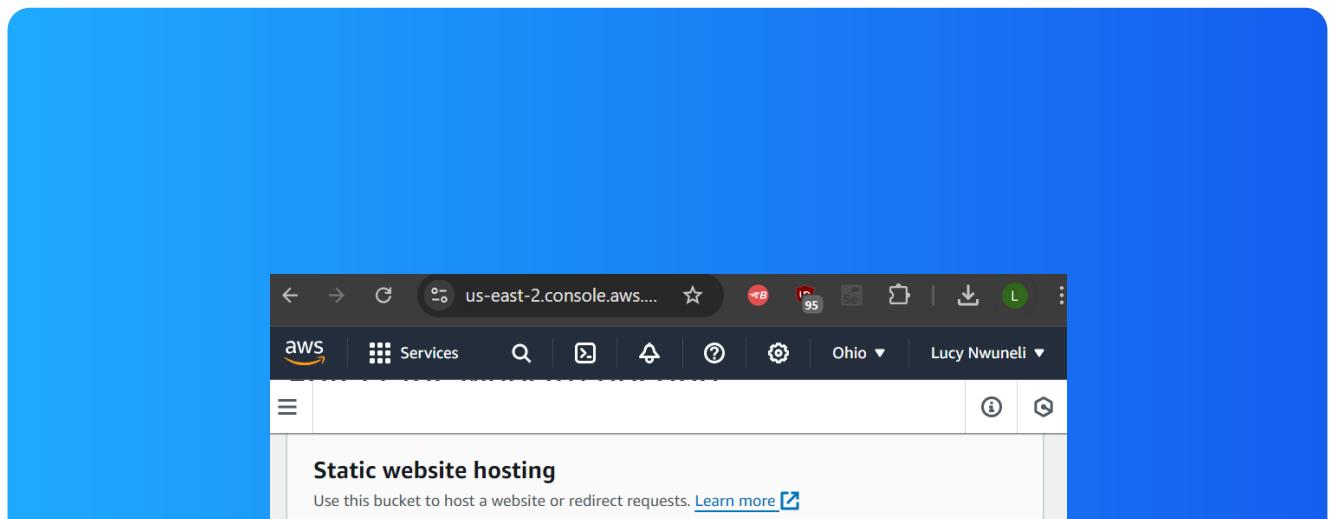
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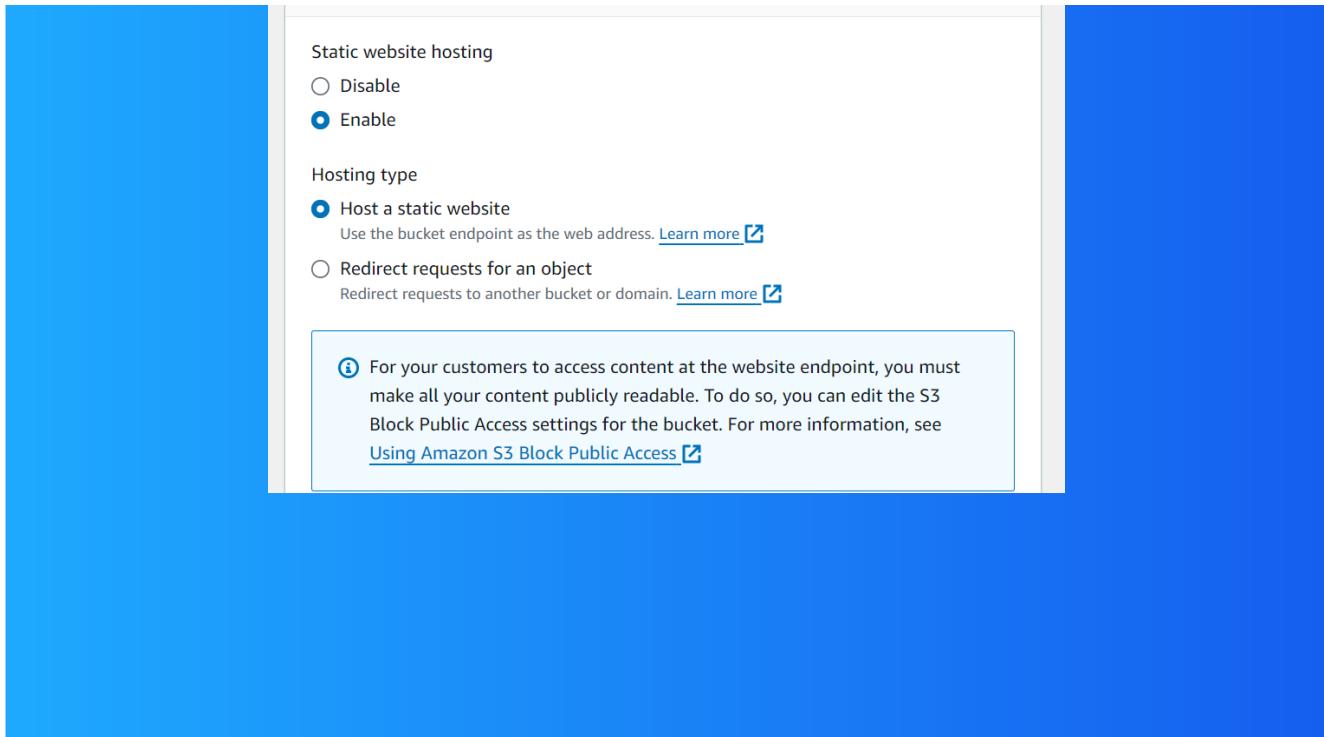
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Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is in the format `http://bucket-name.s3-website-region.amazonaws.com`. This URL allows public access to your S3 bucket's content configured for static website hosting.





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An error!

When I first visited the bucket endpoint URL, I saw a "403 Forbidden" error page. The message indicated "Access Denied," which means that the permissions for the S3 bucket are not set correctly, preventing public access to the website.

The reason for this error was that the S3 bucket's permissions were not set for public access. To resolve it, the bucket policy or object permissions need to allow public read access. Without proper settings AWS denies access leading to the 403 error.

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: GZJQ4PH58WDGMCG6
- HostId:
WKa0KqfGuf9qsVQtfSNyE63x5mZHLYLkmG1ZX/vt4ZkMezBb9X3mQzbY6RKXTGeZ

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Success!

To resolve this connection error, I updated the S3 bucket policy to allow public read access for all files, including HTML, images, and CSS. This fixed the issue, allowing the website and its assets to load correctly and resolved the "403 error".

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