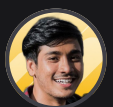




NextWork.org

How I Hosted A Website on S3



Dahri Hadri



Storage

Amazon S3



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Introducing Amazon S3!

What it does & how it's useful

Amazon S3 is a scalable object storage service for storing and retrieving any amount of data from anywhere.

Developers and teams use Amazon S3 because of its durability, scalability, and cost-effectiveness. It supports various data formats and integrates seamlessly with other AWS services.

How I'm using it in today's project

Im using Amazon S3 in this project to host a static website

This project took me...

This project took me approximately 15mins to complete.

Documentation took me around 15mins, ensuring clear and comprehensive guidelines for future reference and ease of use.



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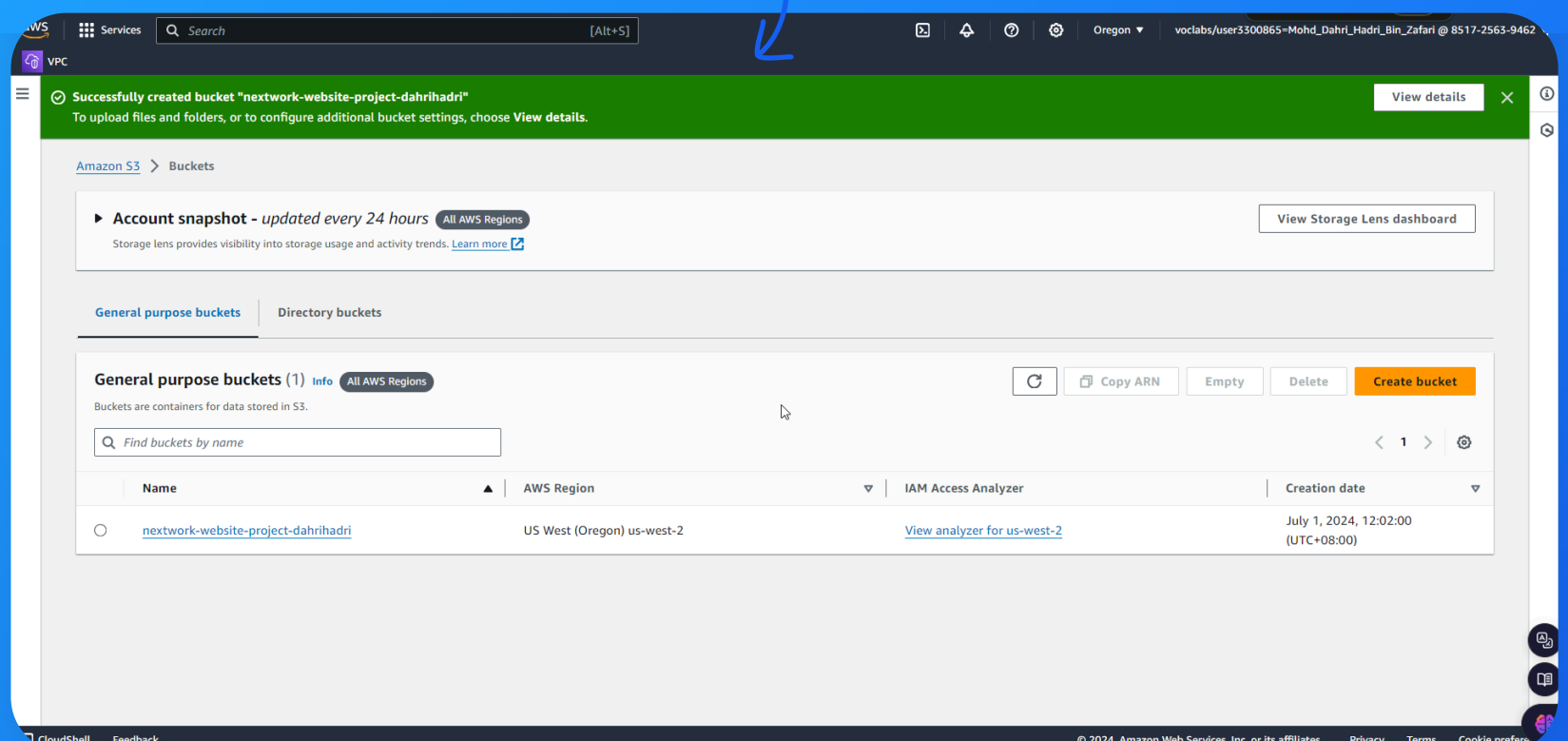
Create an S3 bucket

Creating an Amazon S3 bucket took me 5 mins...

- Some of the configuration steps include:
 - The bucket's Region: I pick the region that is closest to my primary user base or where my other AWS resources are located to minimize latency and data transfer costs.
 - Access Control Lists: Enable
 - Bucket versioning: Enable
 - Public Access: Enable

S3 bucket names have to be globally unique, which means that each bucket name must be distinct across all AWS accounts and regions. No two buckets can have the same name anywhere in the world.

My created bucket!





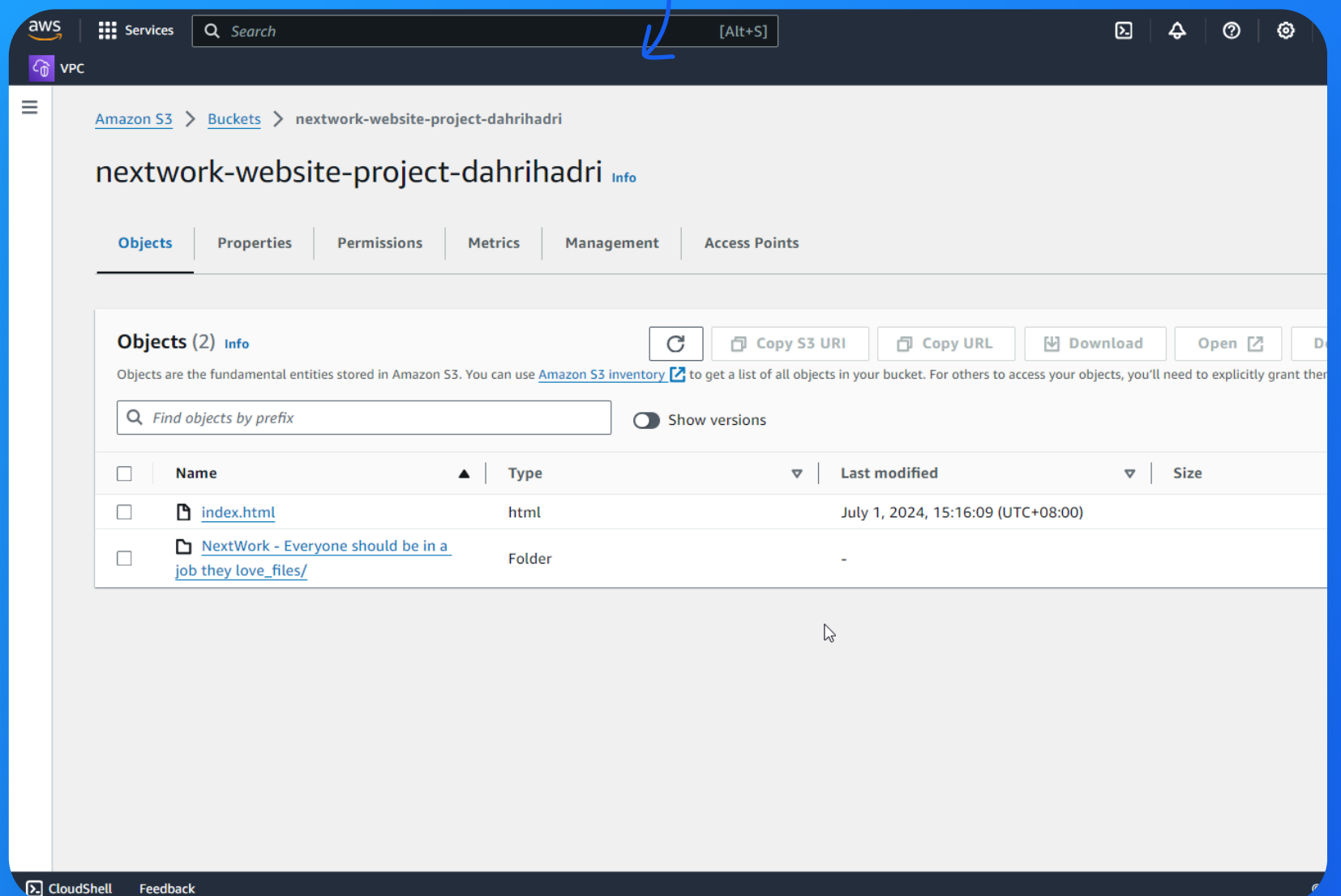
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Upload website files to S3

- Next, I uploaded my website's files into my S3 bucket.
- There were two files to upload: index.html and Nextwork - Everyone should be in a job they love_files. index.html references and utilizes files from the website_files directory to render properly. For example Images and other resources in website_files are used to enrich content on the webpage.

Object successfully uploaded





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Static web hosting on S3

- Website hosting means a service that allows organisations or individuals to post a web page on the internet.
- 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 <http://nextwork-website-project-dahrihadri.s3-website-us-west-2.amazonaws.com/>

Setting up 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](#)

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.

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



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An error!

- When I visited the bucket endpoint URL, an error message appeared.
- The reason for this error was due to the actual HTML/image files that I've uploaded are still private. It's kind of like having a bucket on display, so everyone can see the bucket - but the contents are covered up, preventing anyone from seeing what's inside.
- To solve this error, I need to set the permission of the objects to public by enabled the object ACLs.

The error!

403 Forbidden

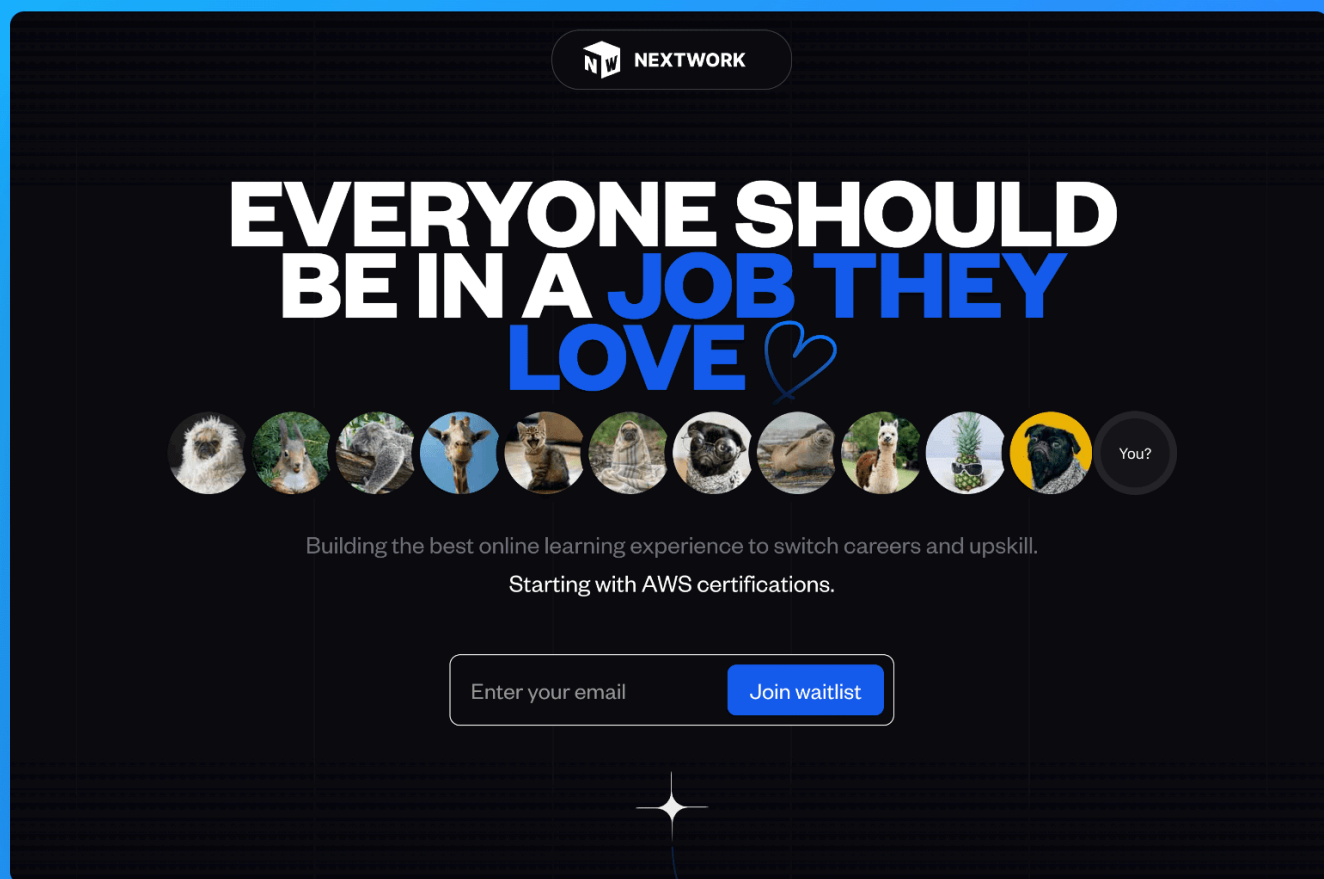
- Code: AccessDenied
- Message: Access Denied
- RequestId: T9H60WGCFCVBCQ64
- HostId: lIjMxTmOe8wFqznsItY0EhrS83NnELWfH7z6T2WPNA3NZ1tcRI0mzJnwJZDleTUtX6wWSOEz7FM=



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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 pre written html file

2

The settings I used to make my website available to the public were making my bucket public, enabling static website hosting, making my file public with ACLs

3

My bucket endpoint URL initially still returned an error because my bucket files weren't public.
I had to resolve this by making my bucket public with ACL.

4

One thing I didn't expect was how easy this project would be.



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

Check out community.nextwork.org for more free projects



Ask me about it

