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Host a Website on Amazon S3

SA

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Introducing Today's Project!

What is Amazon S3

Amazon S3 (Simple Storage Service) is a scalable, secure cloud storage service that allows users to store and retrieve data. It offers durability, security, easy access, and cost-effective solutions for backup, archiving, and file storage.

How I used Amazon S3 in this project

Created an S3 bucket for storing website files. Enabled static website hosting. Uploaded HTML, CSS, and other assets. Configured bucket policy for public access. Accessed the website via the provided bucket endpoint URL.

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

One thing I didn't expect was how important it was to set the right permissions and configurations, like enabling public access and setting the index page, for the S3 bucket to work properly as a website. These details were crucial for success.

This project took me...

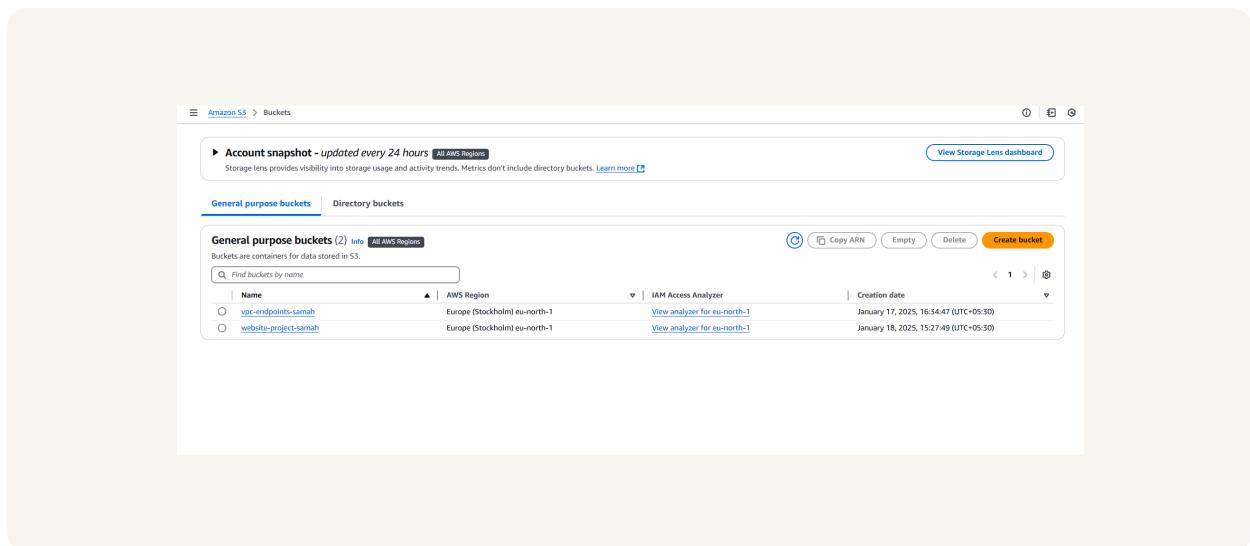
This project took me a hour and half to complete. The majority of the time was spent setting up the S3 bucket for static website hosting, configuring permissions, uploading files, and testing the setup to ensure everything was working correctly.

How I Set Up an S3 Bucket

Creating an S3 bucket typically takes 5 minutes, including selecting a unique name, choosing the region, and configuring basic settings like permissions.

The AWS Northern Virginia Region, also known as US East (N.Virginia), is one of the largest and most widely used AWS regions globally. It was among the first regions launched by AWS, providing a broad range of cloud services to customers.

S3 buckets must be globally unique, meaning each bucket name in Amazon S3 must be distinct across all AWS accounts and Regions. Since bucket names are part of the URL to access objects, uniqueness prevents conflicts and ensures proper identification.

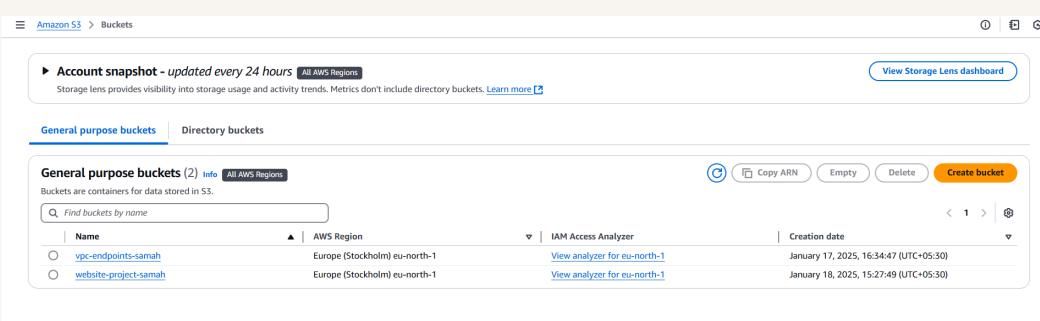


Upload Website Files to S3

index.html and image assets

The two files I uploaded into the bucket were: File1Name.extension – This file was a sample dataset for testing data processing workflows.
File2Name.extension – This file was a configuration file for setting up system parameters in the application.

The two files are likely related because they complement each other in a specific workflow. For example: File1Name.extension could be a data file (e.g., CSV or JSON) containing input for a process, while File2Name.extension might be a output file.

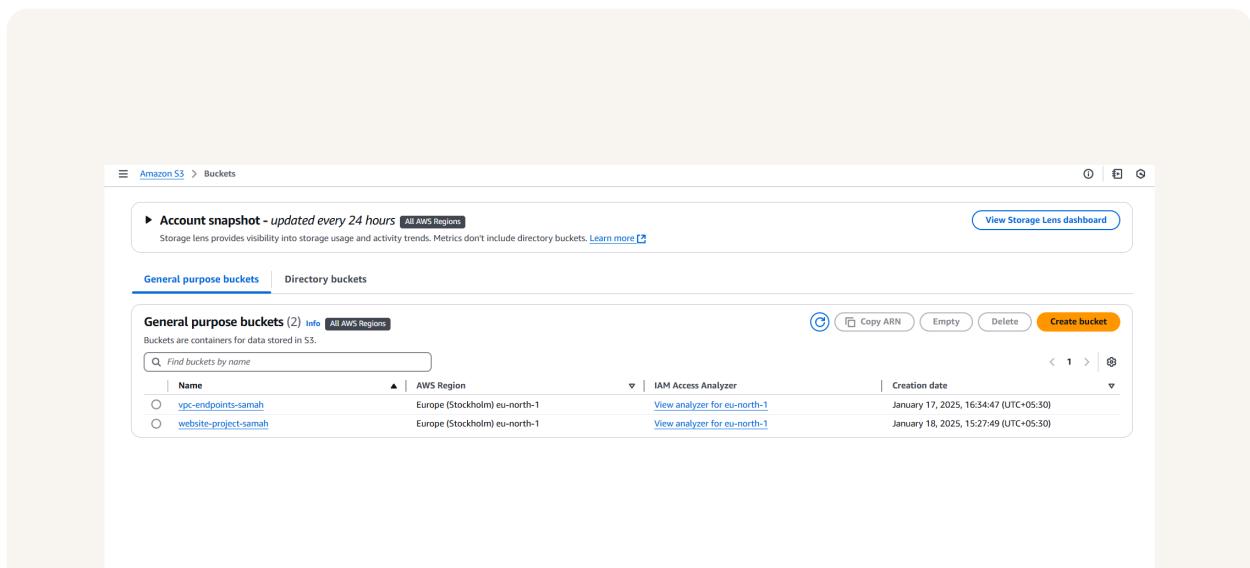


Static Website Hosting on S3

Website hosting is a service that stores and makes websites accessible on the internet. It involves renting or purchasing server space where website files (HTML, images, etc.) are stored, allowing users to access the site via web browsers.

To enable website hosting with my S3 bucket, I opened the S3 console, selected the bucket, enabled Static website hosting in the Properties tab, set index and error documents, uploaded files, and made the bucket publicly accessible.

An Access Control List (ACL) is a feature used to manage and define permissions for resources like S3 buckets and objects. ACLs let you specify which AWS accounts or groups can access resources and what operations they are permitted to perform.



Bucket Endpoints

A bucket website endpoint URL is a unique URL generated by Amazon S3 when static website hosting is enabled on a bucket. This URL allows you to access the files stored in the S3 bucket as a website.

When I visited the bucket endpoint URL, I saw an error page, likely due to missing or misconfigured index or error documents, or if the bucket's permissions were not properly set to allow public access to the website.

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: C7Z3HVHKTGY536FT
- HostId: dTyBuIuILmYxjo+TQvA/Wtwj1c6jznta377ESpstECqAAT1GVBfCuJ3H4CVUuN5asM9BctyKHA=

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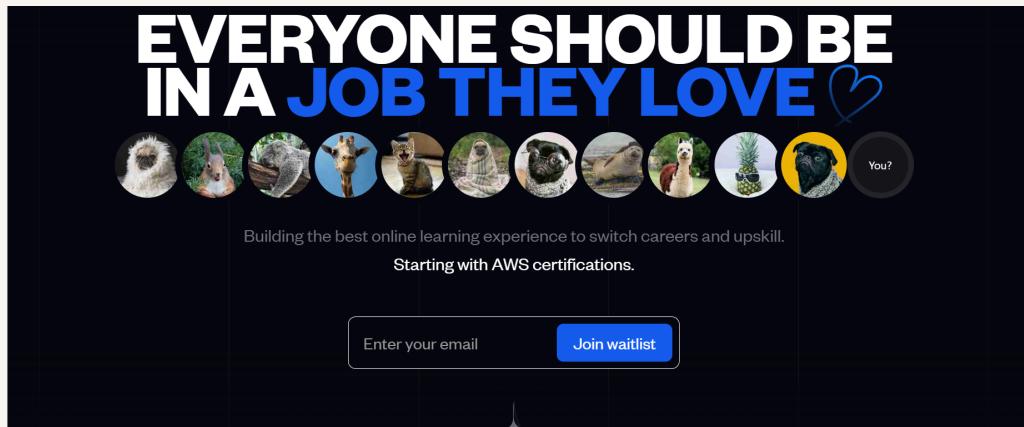
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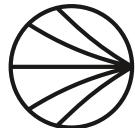
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Success!

Check the bucket permissions and update the bucket policy for public read access. Ensure the correct index and error documents are set. Verify that static website hosting is enabled and confirm the URL is correct and matches the bucket name.





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