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Host a Website on Amazon S3

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Introducing Today's Project!

In this project, I will demonstrate how to create an S3 bucket to store pictures and files. I'm doing this project to learn how to better use AWS and become an expert in cloud infrastructure.

Tools and concepts

I used Amazon S3 to host a static website, enabled static website hosting, and applied bucket policies to protect files. I learned how to structure web content, manage access, and prevent deletion of key files like index.html.

Project reflection

This project took me approximately 45 min. The most challenging part was learning to make the objects public. It was most rewarding to see that my static website finally worked.

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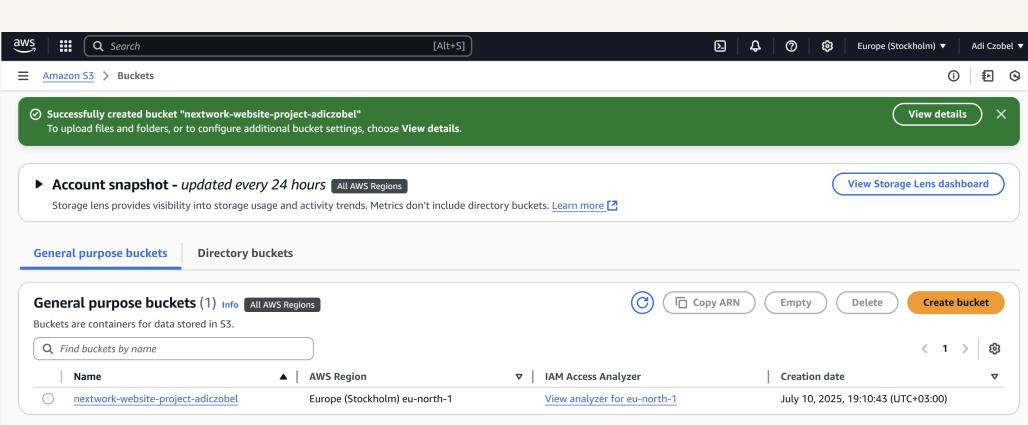
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How I Set Up an S3 Bucket

Creating an S3 bucket took me no longer than 5 min

The Region I picked for my S3 bucket was Europe (stockholm) because i am currently in europe and it is the closest region to me

S3 bucket names are globally unique! This means no other AWS account in the entire world can use your bucket's name (unless you delete the bucket).

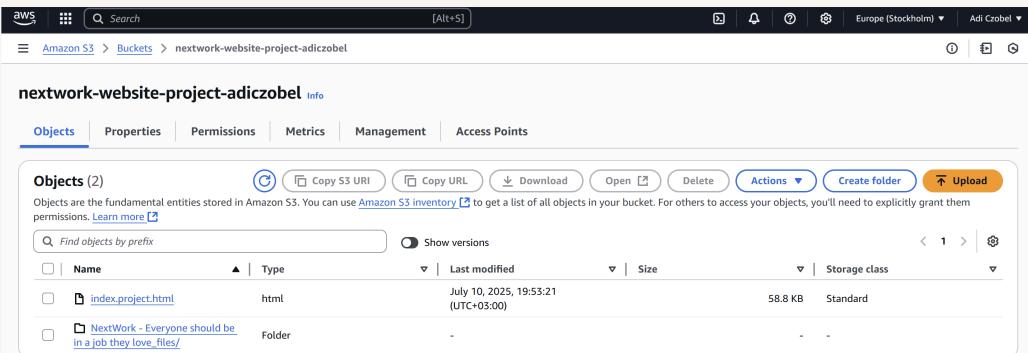


Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were an index.html file that sets up my website and a ZIP file containing images for the website.

Both files are necessary for this project as one file sets up the website and the other sets what will go inside the website



Static Website Hosting on S3

Website hosting means that your website will be public on the internet.

To enable static website hosting with S3 bucket , go to the bucket's Properties tab, scroll to Static website hosting, click Edit, enable it, and set index.html as the index document. Then save the changes AWS will give you a public website URL.

An ACL is a set of rules that decides who can get access to a resource. I enabled ACLs so that control i can access and do things with the objects (i.e. website files) that i upload into the bucket.

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.

Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is just like a regular website URL. It lets people visit your S3 bucket's files as a website.

When I first visited the bucket endpoint URL, I saw an error. The reason for this error was my static website is being hosted by S3, but the actual HTML/image files you've uploaded are still private.

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: YEH6G7ARN9XVX1FW
- HostId: b3reutOs4EGHCrNa4iANeZdFvOdpjhloUDsK7Kn0UEhT/fD6NnTh9+vQfIJ7wJ5BIVqrgKG5WBM=

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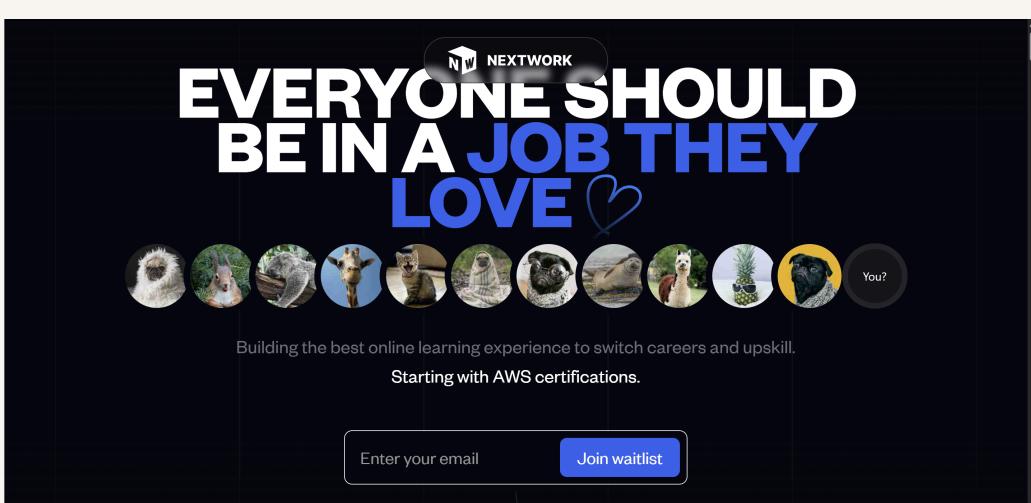
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Success!

To resolve this 403 Forbidden error, I Selected the Objects tab. Then clicked on the checkboxes next to my index.html file and the folder of website assets. Finally In the Actions dropdown, i choose Make public using ACL.





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