

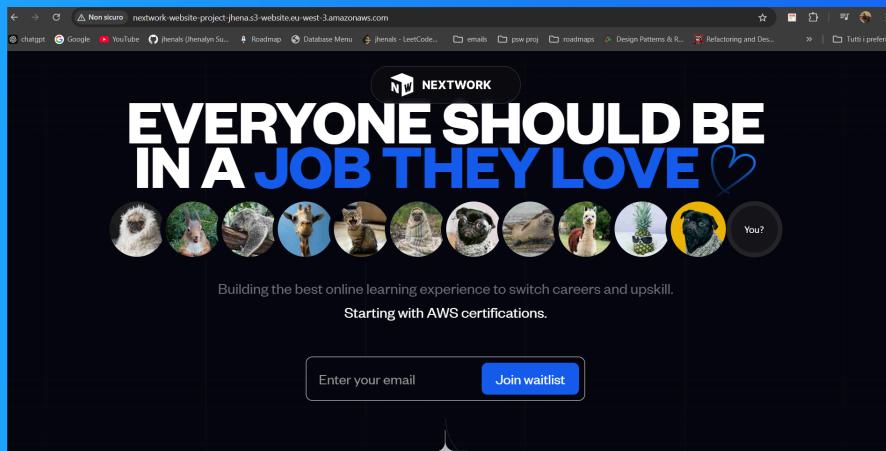


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Host a Website on Amazon S3

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Introducing Today's Project!

What is Amazon S3

Amazon S3 is a service that lets us store and retrieve any amount of data, at any time, from anywhere on the web. It is useful because it is easy to set and it makes our static website available globally.

How I used Amazon S3 in this project

I used Amazon s3 in hosting a static website.

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

In this project, i realized how easy it is to host a static website using AWS S3. However, we need to be extra careful in setting some properties otherwise our website will not be correctly visible once the link is clicked.

This project took me...

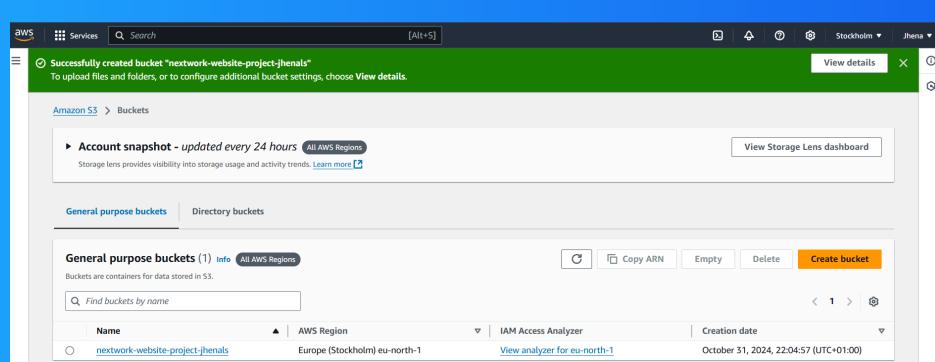
It took me less than 30 minutes to finish the project.

How I Set Up an S3 Bucket

Creating an S3 bucket took me less than 5 minutes

The Region I picked for my S3 bucket was Europe (Paris) because I am residing in Italy now and Italy is within this partition of AWS Region.

S3 bucket names are globally unique! This means that we can not use bucket names that already exist within a partition of an AWS Region. But if a bucket is deleted, this means that other AWS account in the same partition can use the same bucket name.

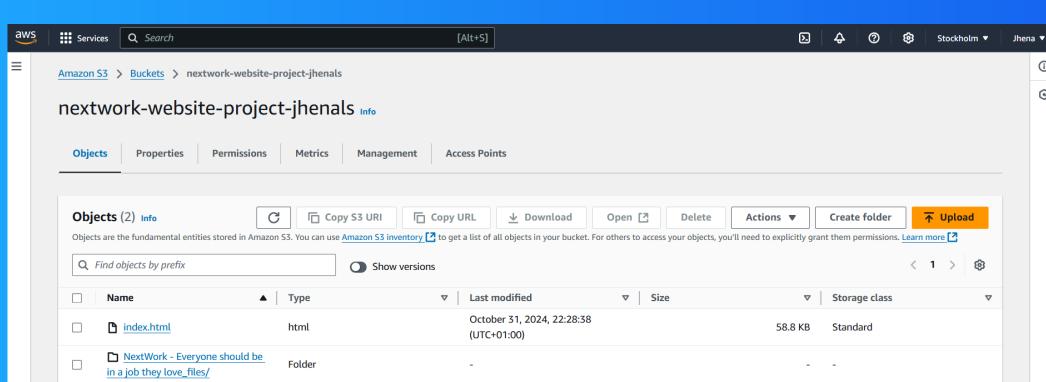


Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket- they were an html file of a static website and a folder of all the images and other files that are present in the website.

Both files are necessary for this project as we want the entire website to be visible for the public. The HTML file is the backbone of the website while the images and other files like CSS files are needed to style the HTML elements.



Static Website Hosting on S3

Website hosting means storing your website's files on a server of a hosting provider and make them accessible on the internet.

To enable website hosting with my S3 bucket, I clicked the properties tab of my bucket and enabled the static hosting website setting. Lastly, I specified the name of my html file which is the default page of the website (index.html)

Access Control Lists (ACL)

An ACL is a way to manage access to our buckets and objects. We can use ACLs to grant permissions or revoke access to other AWS accounts or groups of users.

Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which allows the public to access the static website hosted on my Amazon S3 bucket. It is a unique address that points directly to the website's contents.

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.

An error!

When I first visited the bucket endpoint URL, i saw a 403 forbidden error.

The reason for this error was because i didn't have permission to access the resources of the website.

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: 4ZMVMNG5MZRGS9X5
- HostId: wgoDK/cO9PD0N5oStfKiqSdBiSMPxB3MvNu2kOwl21/s0tBJL76nua766P/8SOW5mET8hwRHK5o=

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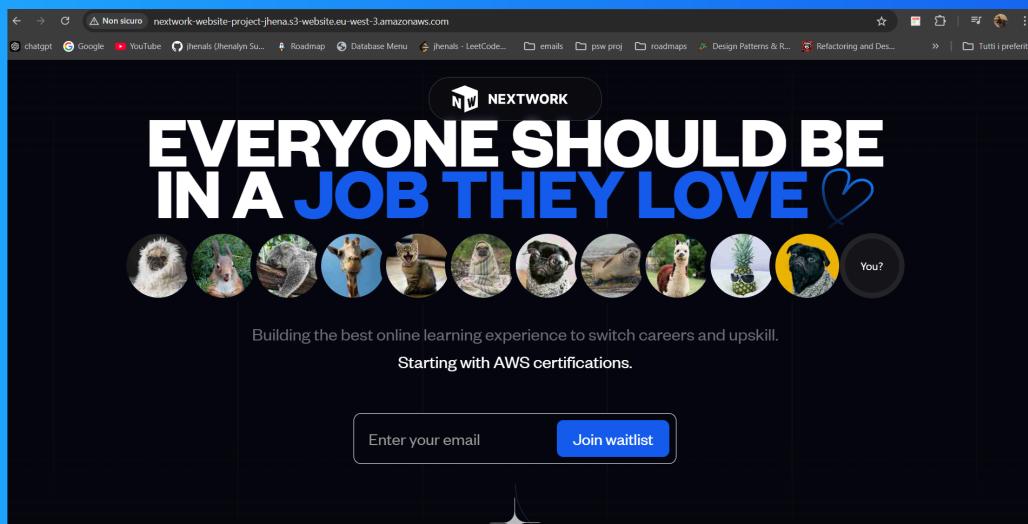
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Success!

To resolve this connection error, I selected the objects I've uploaded and under the Action button, i clicked Make public using ACL.





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