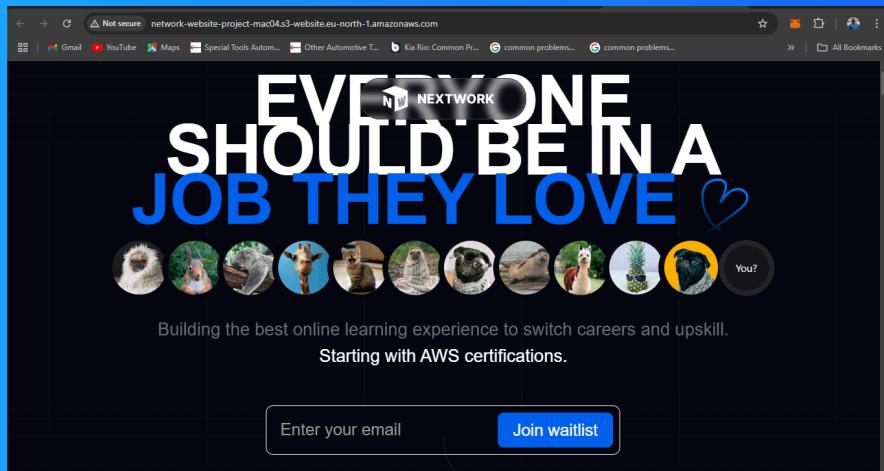




Host a Website on Amazon S3



Michael Emeruwa





Michael Emeruwa
NextWork Student

NextWork.org

Introducing Today's Project!

What is Amazon S3

Amazon S3 is cloud storage service that allows individuals or organizations to store and retrieve any amount of data at any time from anywhere on the web. Amazon S3 offers static website hosting, content delivery and more.

How I used Amazon S3 in this project

I created an S3 bucket and hosted a website on it by uploading the html data and the image folder, making accessible for anyone from anywhere.

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

I didn't expect to receive an error message the first time I visited the URL. I was able to solve this by making the objects public. I did this by enabling ACL policy for the html file and the folder.

This project took me...

1 hour.



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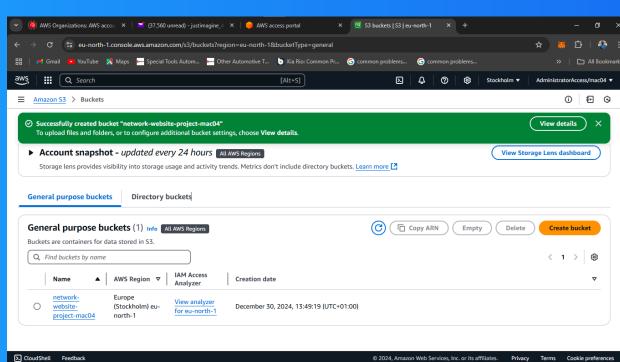
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How I Set Up an S3 Bucket

Creating an S3 bucket took me 15mins.

The Region I picked for my S3 bucket was Stockholm eu-north-1 because it's the closest to my location.

S3 bucket names are globally unique! This means no two buckets can ever share the same name and must follow the bucket naming rules.





Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket - they were; the HTML file to setup the website, and a folder containing images for the website.

Both files are necessary for this project as the HTML file sets up the website and the folder contains images for the website.

The screenshot shows the AWS S3 console interface. The top navigation bar includes links for Gmail, YouTube, Maps, Special Tools Autom..., Other Automotive T..., Kia Rio: Common Pr..., common problems..., common problems..., Stockholm, and AdministratorAccess/mac04. The main page title is "network-website-project-mac04". Below the title, there are tabs for Objects, Properties, Permissions, Metrics, Management, and Access Points. The "Objects" tab is selected. A sub-header "Objects (2) Info" is shown. Below it, a message states: "Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)". There is a search bar labeled "Find objects by prefix" and a "Show versions" button. A toolbar at the top of the object list includes "Copy S3 URI", "Copy URL", "Download", "Open", "Delete", "Actions", "Create folder", and "Upload". The object list table has columns for Name, Type, Last modified, Size, and Storage class. The first object listed is "index.html" (Type: html, Last modified: December 30, 2024, 14:22:33 (UTC+01:00), Size: 58.8 KB, Storage class: Standard). The second object listed is a folder named "NextWork" (Type: Folder). At the bottom of the page, there are links for CloudShell, Feedback, © 2024, Amazon Web Services, Inc. or its affiliates., Privacy, Terms, and Cookie preferences.

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NextWork Student

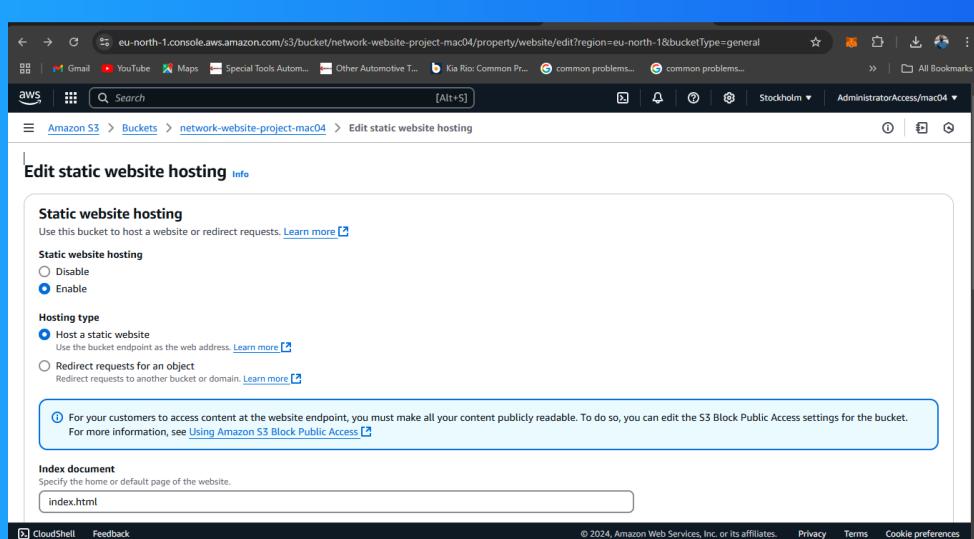
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Static Website Hosting on S3

Website hosting means making a website accessible to the public.

To enable website hosting with my S3 bucket, I clicked on the AWS S3 bucket that I created and clicked on properties, then I edited the static website hosting property and enabled it.

An ACL is a policy attached to AWS Resources like Amazon S3 Bucket that specifies what action a principal can carry out on the resource and under what conditions.

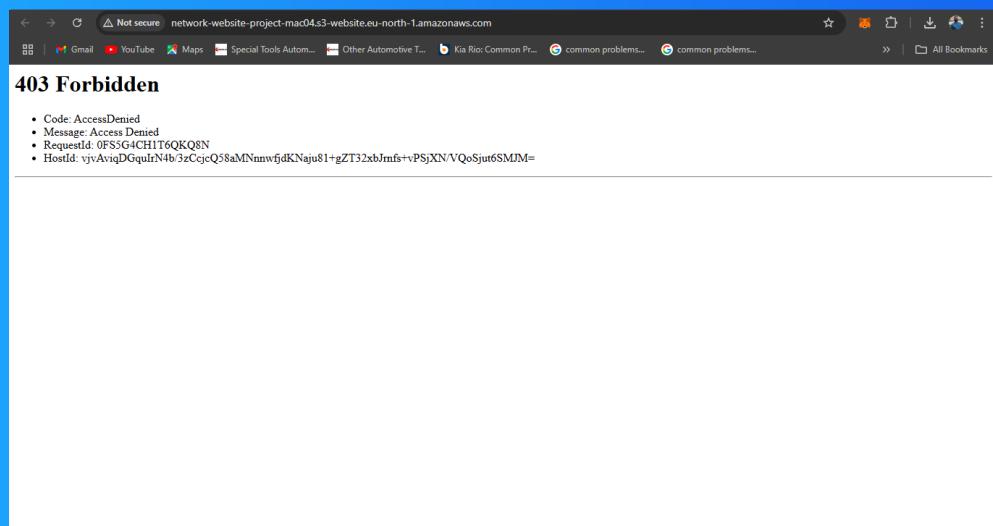




Bucket Endpoints

Once static website is enabled, S3 produces a bucket endpoint URL, which is just like a regular URL. It allows people to visit the website.

When I first visited the bucket endpoint URL, I saw 403 Forbidden error. The reason for this error was because the objects uploaded are private by default.



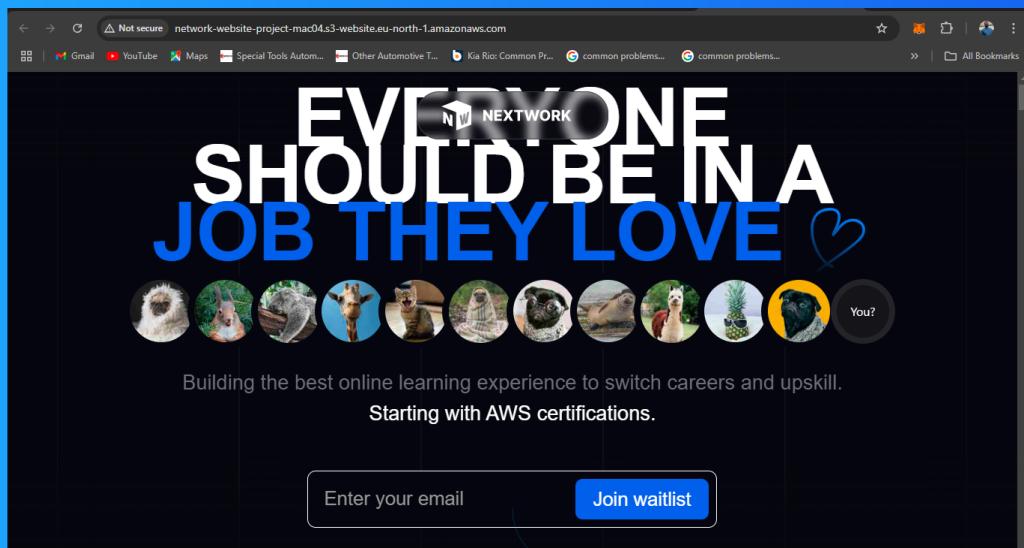


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Success!

To resolve this connection error, I had to make the objects in my S3 bucket public. I went back to my S3 bucket on the console, clicked on object, checked the boxes in front of index.html and the folder. Then I selected actions and choose make public





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