

How I Hosted 2 Websites on S3



Rasha MOHAMED



Simple Omelette Recipe

An easy and quick dish, perfect for any meal. This classic omelette combines beaten eggs cooked to perfection, optionally filled with your choice of cheese, vegetables, or meats.



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Introducing Amazon S3!

What it does & how it's useful

Amazon S3 is a scalable object storage service for data backup, archiving, and analytics. Developers and teams use Amazon S3 because it offers high durability, availability, and security, with easy integration, cost-effective pricing, and support for large-scale data operations

How I'm using it in today's project

I'm using Amazon S3 in this project to host a static website written for a learning purpose

Tip: Keep your comments here to 250 characters or less 😊

This project took me...

took me less than 60 minutes and I followed the step-by-step tutorial but the documentation isn't that simple

Create an S3 bucket

- Creating an Amazon S3 bucket took me :
it was straightforward thanks to the tutorial :)

Some of the configuration steps include:

- The bucket's Region specifies the AWS data center location for storing your data. I picked Europe(Paris).
- Access Control Lists: These define who can access your bucket and what permissions they have. I selected private access.
- Bucket versioning: This allows you to keep multiple versions of an object. I enabled versioning.
- Public Access: This controls whether the bucket and its contents can be accessed publicly. I disabled public access.

S3 bucket names must be globally unique, meaning two S3 buckets can't have the same name across all AWS accounts and regions.
My created bucket!

The screenshot shows the AWS S3 console interface. At the top, there are two tabs: "General purpose buckets" (which is selected) and "Directory buckets". Below the tabs, a message states: "Buckets are containers for data stored in S3." There is a "Create bucket" button in an orange box. A search bar at the bottom left contains the placeholder text "Find buckets by name". The main area displays a table of existing buckets. The columns are: Name, AWS Region, IAM Access Analyzer, and Creation date. One row is visible, showing a bucket named "nextwork-website-project-rasha" located in "Europe (Paris) eu-west-3", with a link to "View analyzer for eu-west-3" and a creation date of "June 19, 2024, 23:16:08 (UTC+02:00)".

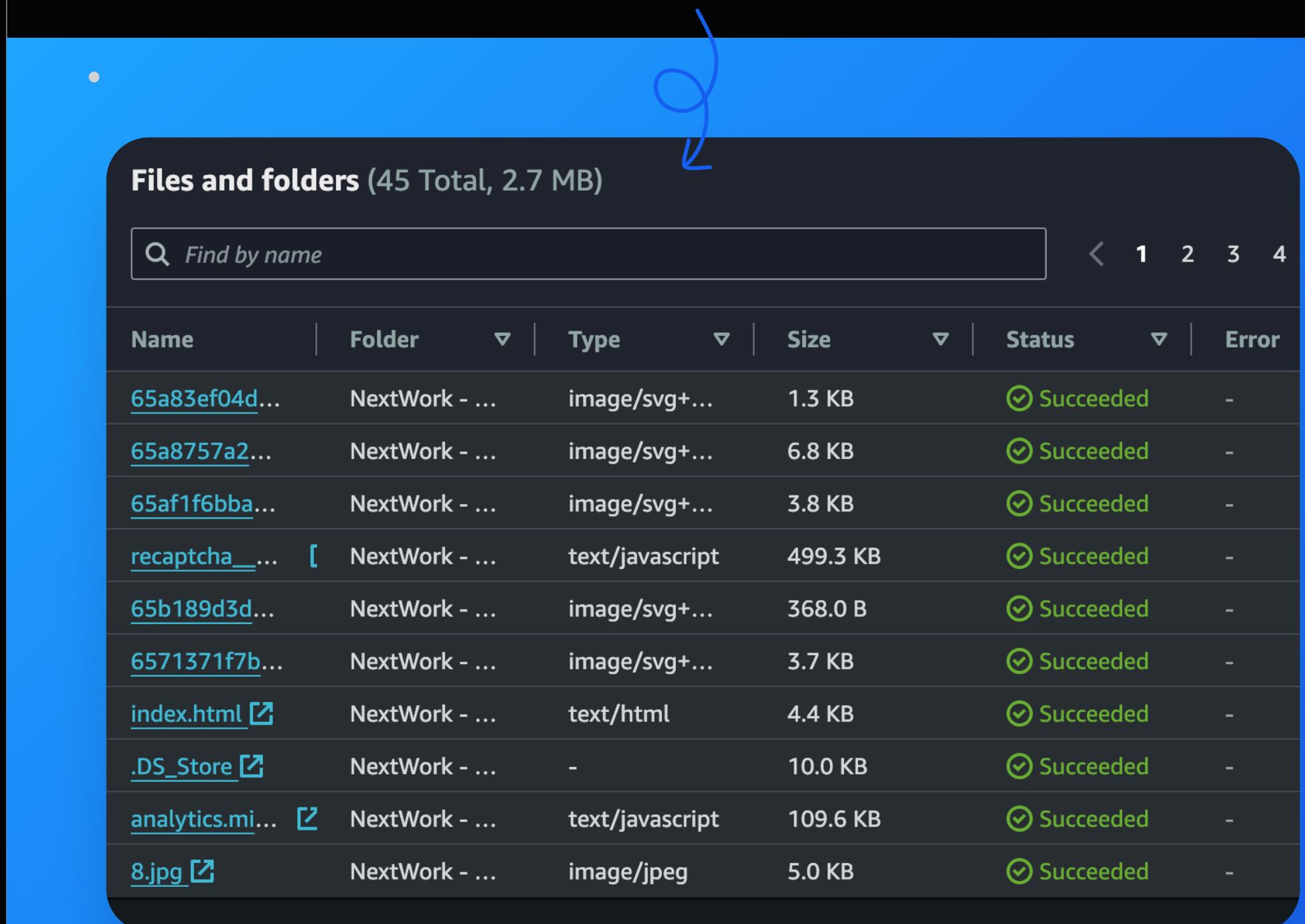
Name	AWS Region	IAM Access Analyzer	Creation date
nextwork-website-project-rasha	Europe (Paris) eu-west-3	View analyzer for eu-west-3	June 19, 2024, 23:16:08 (UTC+02:00)

Upload website files to S3

Next, I uploaded my website's files into my S3 bucket.

The index.html file is the main entry point for the website, defining the structure and content that users will see when they visit the site. The folder NextWork - Everyone should be in a job they love_files contains (images, CSS, JavaScript) that the index.html file references to render the webpage correctly. Without these files, the website would not display correctly or function as intended.

Caption for image. Make it short and sweet!



A screenshot of an S3 bucket interface. At the top, there's a blue header bar with a circular icon and some text. Below the header, a dark card-like area displays the contents of the bucket. It shows a list of files and folders with columns for Name, Folder, Type, Size, Status, and Error. A blue arrow points from the text above to the 'Status' column of the table.

Name	Folder	Type	Size	Status	Error
65a83ef04d...	NextWork - ...	image/svg+...	1.3 KB	✓ Succeeded	-
65a8757a2...	NextWork - ...	image/svg+...	6.8 KB	✓ Succeeded	-
65af1f6bba...	NextWork - ...	image/svg+...	3.8 KB	✓ Succeeded	-
recaptcha_...	NextWork - ...	text/javascript	499.3 KB	✓ Succeeded	-
65b189d3d...	NextWork - ...	image/svg+...	368.0 B	✓ Succeeded	-
6571371f7b...	NextWork - ...	image/svg+...	3.7 KB	✓ Succeeded	-
index.html	NextWork - ...	text/html	4.4 KB	✓ Succeeded	-
.DS_Store	NextWork - ...	-	10.0 KB	✓ Succeeded	-
analytics.mi...	NextWork - ...	text/javascript	109.6 KB	✓ Succeeded	-
8.jpg	NextWork - ...	image/jpeg	5.0 KB	✓ Succeeded	-

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Static web hosting on S3

Website hosting means storing and serving website files on a server that makes them accessible to users over the internet.

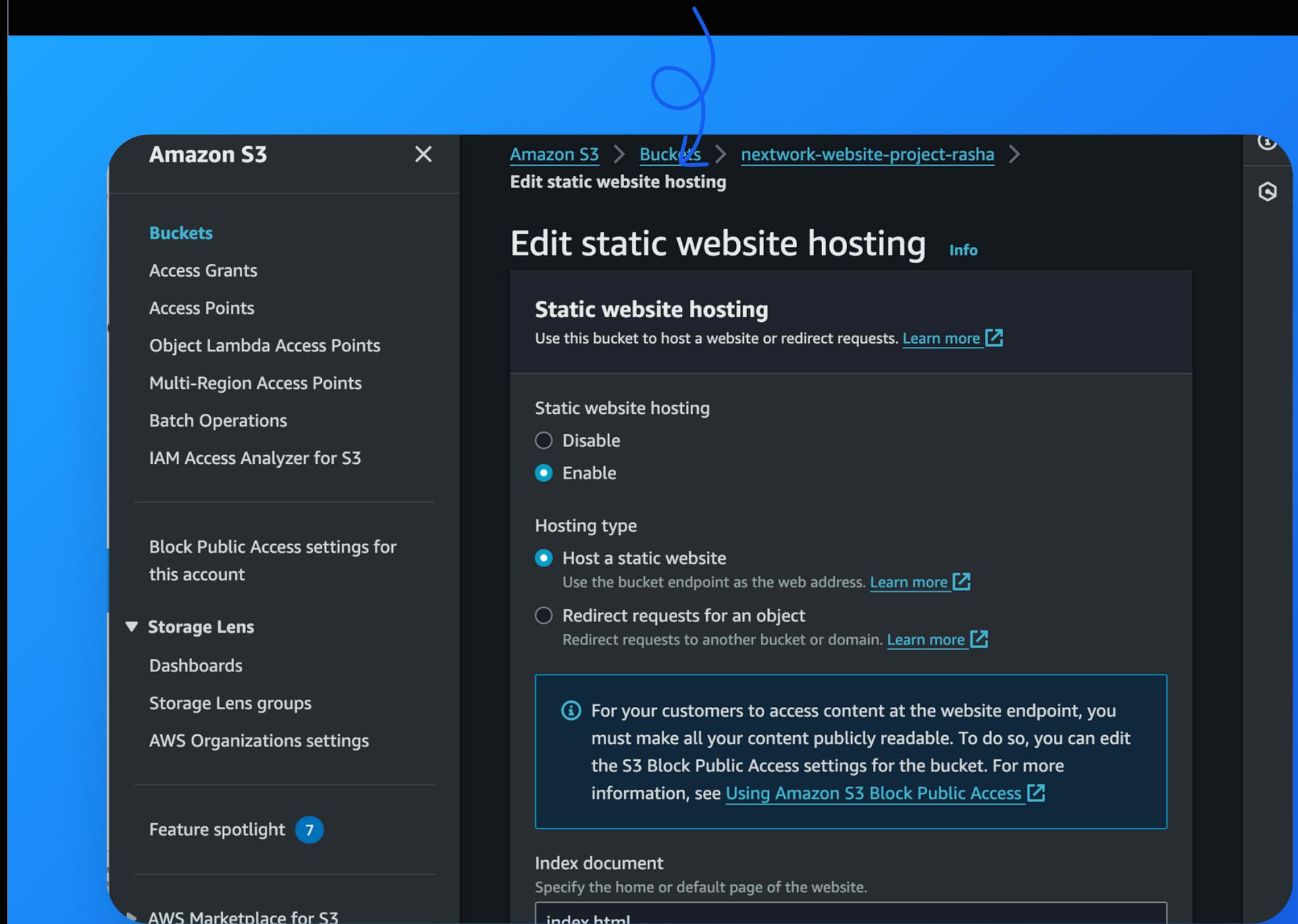
To enable website hosting, I:

Configured the S3 bucket: I enabled static website hosting for my S3 bucket in the AWS Management Console.

I set the index document to "index.html".

Once static website hosting is enabled, S3 produces a bucket endpoint URL. This URL is the web address where users can access your static website. It allows browsers to fetch and display your website files directly from the S3 bucket, effectively hosting your website.

Setting up static website hosting...



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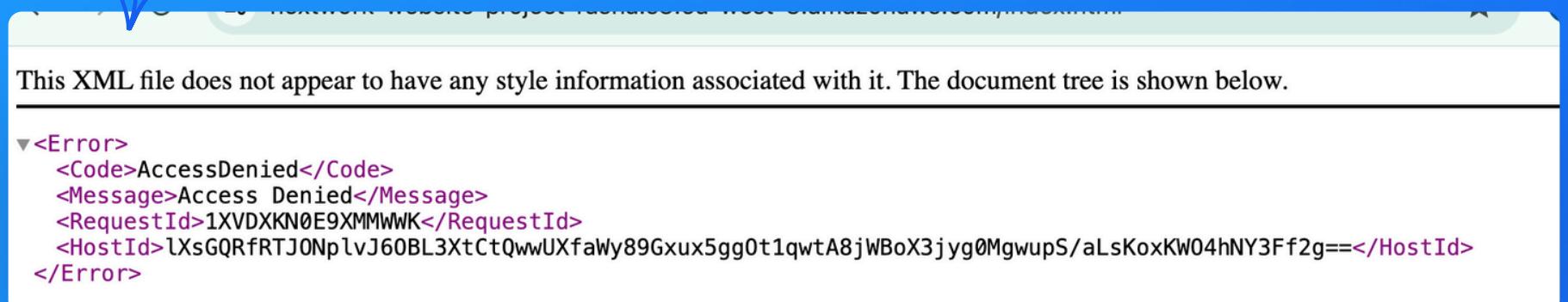
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An error!

When I visited the bucket endpoint URL (<https://nextwork-website-project-rasha.s3.eu-west-3.amazonaws.com/index.html>), I saw an "Access Denied" error in my browser.

The reason for this error was that the bucket permissions were not set to allow public access, resulting in an XML "Access Denied" message.

The error!



```
This XML file does not appear to have any style information associated with it. The document tree is shown below.

▼<Error>
  <Code>AccessDenied</Code>
  <Message>Access Denied</Message>
  <RequestId>1XVDXKN0E9XMMWIK</RequestId>
  <HostId>1XsGQRfRTJ0NplvJ60BL3XtCtQwwUXfaWy89Gxux5gg0t1qwtA8jWBoX3jyg0MgwupS/aLsKoxKW04hNY3Ff2g==</HostId>
</Error>
```



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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 storing and serving website files (HTML, CSS, JavaScript, images, etc.) from a server to make them accessible to users over the internet.

2

The settings I used to make my website available to the public were initially incomplete, specifically regarding bucket permissions for public access.

3

- My bucket endpoint URL initially returned an error because the S3 bucket permissions were set to deny public access, resulting in an "Access Denied" message.
- I had to resolve this by updating the bucket policy or access control list (ACL) to allow public read access to the objects in the bucket.

4

One thing I didn't expect was encountering XML error messages indicating access issues, which required adjusting AWS S3 permissions more carefully for public website hosting.



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

Check out community.nextwork.org for more free projects



My personal project



I created a short website using a Frontend Mentor HTML template. As seen before, to host it on AWS S3, I used the AWS Management Console to create a new bucket. I uploaded my "recipe-page-main" folder into the bucket and set recipe.html as the index document for static website hosting. After adjusting permissions for public access, I tested the S3 bucket endpoint URL (<https://myawsbucketreciperasha.s3.eu-west-3.amazonaws.com/recipe-page-main/recipe.html>) to ensure my website loads correctly in a browser, making it accessible online. You can see every screen of this short project :

```
[→  recipe-page-main tree
.
├── README-template.md
├── README.md
└── assets
    ├── fonts
    │   ├── outfit
    │   │   ├── OFL.txt
    │   │   ├── Outfit-VariableFont_wght.ttf
    │   │   └── README.txt
    │   └── static
    │       ├── Outfit-Black.ttf
    │       ├── Outfit-Bold.ttf
    │       ├── Outfit-ExtraBold.ttf
    │       ├── Outfit-ExtraLight.ttf
    │       ├── Outfit-Light.ttf
    │       ├── Outfit-Medium.ttf
    │       ├── Outfit-Regular.ttf
    │       ├── Outfit-SemiBold.ttf
    │       └── Outfit-Thin.ttf
    └── young-serif
        ├── OFL.txt
        └── YoungSerif-Regular.ttf
    └── images
        ├── favicon-32x32.png
        └── image-omelette.jpeg
└── design
    ├── desktop-design.jpg
    ├── desktop-preview.jpg
    └── mobile-design.jpg
└── recipe.html
└── style-guide.md
```

Amazon S3 > Buckets > myawsbucketreciperasha > recipe-page-main/	
recipe-page-main/	Copy S3 URI
Objects	Properties
Objects (7) Info C Copy S3 URI Copy URL Download Open Delete Actions Create folder Upload	

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](#)

Find objects by prefix

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	.gitignore	gitignore	June 20, 2024, 19:17:12 (UTC+02:00)	547.0 B	Standard
<input type="checkbox"/>	assets/	Folder	-	-	-
<input type="checkbox"/>	design/	Folder	-	-	-
<input type="checkbox"/>	README-template.md	md	June 20, 2024, 19:17:12 (UTC+02:00)	4.4 KB	Standard
<input type="checkbox"/>	README.md	md	June 20, 2024, 19:17:12 (UTC+02:00)	6.1 KB	Standard
<input type="checkbox"/>	recipe.html	html	June 20, 2024, 19:17:13 (UTC+02:00)	3.7 KB	Standard
<input type="checkbox"/>	style-guide.md	md	June 20, 2024, 19:17:13 (UTC+02:00)	1.0 KB	Standard

← → ⌂ myawsbucketreciperasha.s3.eu-west-3.amazonaws.com/recipe-page-main/recipe.html



Simple Omelette Recipe

An easy and quick dish, perfect for any meal. This classic omelette combines beaten eggs cooked to perfection, optionally filled with your choice of cheese, vegetables, or meats.

Preparation time

Total: Approximately 10 minutes
 Preparation: 5 minutes
 Cooking: 5 minutes

Ingredients

2-3 large eggs
 Salt, to taste
 Pepper, to taste
 1 tablespoon of butter or oil
 Optional fillings: cheese, diced vegetables, cooked meats, herbs

Instructions

- Beat the eggs: In a bowl, beat the eggs with a pinch of salt and pepper until they are well mixed. You can add a tablespoon of water or milk for a fluffier texture.
- Heat the pan: Place a non-stick frying pan over medium heat and add butter or oil.
- Cook the omelette: Once the butter is melted and bubbling, pour in the eggs. Tilt the pan to ensure the eggs evenly coat the surface.
- Add fillings (optional): When the eggs begin to set at the edges but are still slightly runny in the middle, sprinkle your chosen fillings over one half of the omelette.
- Fold and serve: As the omelette continues to cook, carefully lift one edge and fold it over the fillings. Let it cook for another minute, then slide it onto a plate.
- Enjoy: Serve hot, with additional salt and pepper if needed.

Nutrition

The table below shows nutritional values per serving without the additional fillings.

Calories	Carbs	Protein	Fat
0g	20g	22g	22g

Challenge by [Pawan Mehta](#), Coded by [Your Name Here](#)