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Host a Website on Amazon S3



Martin

Cafe



The Cafe offers an assortment of delicious and delectable pastries and coffees that will put a smile on your face. From cookies to croissants, tarts and cakes, each treat is specially prepared to excite your tastebuds and brighten your day!

Frank bakes a rich variety of cookies. Try them all!

Tea
Coffee
Latte
Hot Chocolate
Yes, we have it!

Our tarts are always a customer favorite!

About Us

Frank and Martha have been adding sweetness to their customers's lives since 2016. Both of them will personally greet you with a welcoming smile when you visit! Frank's recipes have been passed down from his mother and use simple and fresh ingredients to produce delightful flavors.

Contact Us



123 Sweet Tooth St.
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Hours

Weekdays: 6.00am - 6.00pm
Saturday: 7.00am - 7.00pm
Closed on Sundays

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Introducing Today's Project!

What is Amazon S3

Amazon S3 is a scalable cloud storage service used for website hosting, backups, and data storage with high availability and security.

How I used Amazon S3 in this project

I used Amazon S3 to store and host my website files, enabled static website hosting, and configured permissions to make the site publicly accessible.

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

One thing I didn't expect in this project was getting an Access Denied error at first and having to update the bucket policy and ACL settings to make my website publicly accessible.

This project took me...

This project took me about 30 minutes, including setting up the S3 bucket, uploading files, configuring permissions, and troubleshooting access errors.



How I Set Up an S3 Bucket

Creating an S3 bucket took me a few seconds since AWS provisions it almost instantly.

The region I picked for my S3 bucket was N. Virginia (us-east-1) because it's the default, cost-effective, and offers low latency.

S3 bucket names are globally unique! This means no two AWS users can create a bucket with the same name, ensuring uniqueness across all AWS accounts.

The screenshot shows the AWS S3 console interface. At the top, a green banner displays the message "Successfully created bucket 'static-website254-ke'". Below the banner, there is an "Account snapshot" section with a link to "View Storage Lens dashboard". The main area shows a table of "General purpose buckets". The table has columns for "Name", "AWS Region", "IAM Access Analyzer", and "Creation date". A single row is visible, showing "static-website254-ke" under "Name", "US East (N. Virginia) us-east-1" under "AWS Region", and "View analyzer for us-east-1" under "IAM Access Analyzer". The "Creation date" column shows "March 3, 2025, 11:20:05 (UTC+03:00)". On the right side of the table, there are buttons for "Copy ARN", "Empty", "Delete", and "Create bucket".



Upload Website Files to S3

index.html and image assets

I uploaded two files to my S3 bucket – they were index.html and style.css, along with images for my website.

Both files are necessary for this project as index.html structures the webpage, while style.css enhances its appearance. Together, they ensure a functional and visually appealing website.

Files and folders (10 total, 21.7 MB)						
Name	Folder	Type	Size	Status	Error	▼
Cafe-Owners.png	-	image/png	2.7 MB	✓ Succeeded	-	▼
Cake-Vitrine.png	-	image/png	3.8 MB	✓ Succeeded	-	▼
Coffee-and-Pastries.png	-	image/png	3.1 MB	✓ Succeeded	-	▼
Coffee-Shop.png	-	image/png	726.8 KB	✓ Succeeded	-	▼
Cookies.png	-	image/png	1.4 MB	✓ Succeeded	-	▼
Cup-of-Hot-Chocolate.png	-	image/png	3.6 MB	✓ Succeeded	-	▼
Strawberry-&-Blueberry-Tarts.png	-	image/png	2.9 MB	✓ Succeeded	-	▼
Strawberry-Tarts.png	-	image/png	3.4 MB	✓ Succeeded	-	▼
styles.css	-	text/css	541.0 B	✓ Succeeded	-	▼
index.html	-	text/html	2.9 KB	✓ Succeeded	-	▼



Static Website Hosting on S3

Website hosting means storing website files on a server and making them accessible online via a domain or URL.

To enable website hosting with my S3 bucket, I navigated to the bucket's Properties tab, enabled "Static website hosting," and specified index.html as the entry point.

An ACL is an Access Control List that manages S3 permissions. I disabled ACLs as AWS recommends Bucket Policies for better security.

The screenshot shows the 'Edit static website hosting' configuration page. It includes sections for 'Static website hosting' (with 'Enable' selected), 'Hosting type' (with 'Host a static website' selected), and 'Index document' (set to 'index.html'). A note about public access is present. Below these are fields for 'Error document - optional' (set to 'error.html') and 'Redirection rules - optional' (containing a single rule). A 'Save' button is at the bottom.



Bucket Endpoints

Once static website hosting is enabled, S3 produces a bucket endpoint URL, which is a public web address that allows users to access the hosted site directly.

When I first visited the bucket endpoint URL, I saw an Access Denied error. The reason for this error was that my bucket's permissions did not allow public access to the website files.





Success!

To resolve this connection error, I updated the bucket policy to allow public access and made my website files public using ACL. After refreshing the browser, my site loaded successfully.

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