

Week 8 Deliverable Report — Sadique

1. Introduction

This report documents the deployment of a personal static website using **Amazon S3** and **CloudFront**. It includes the setup, configuration, and live demonstration of the site.

Benefits of S3:

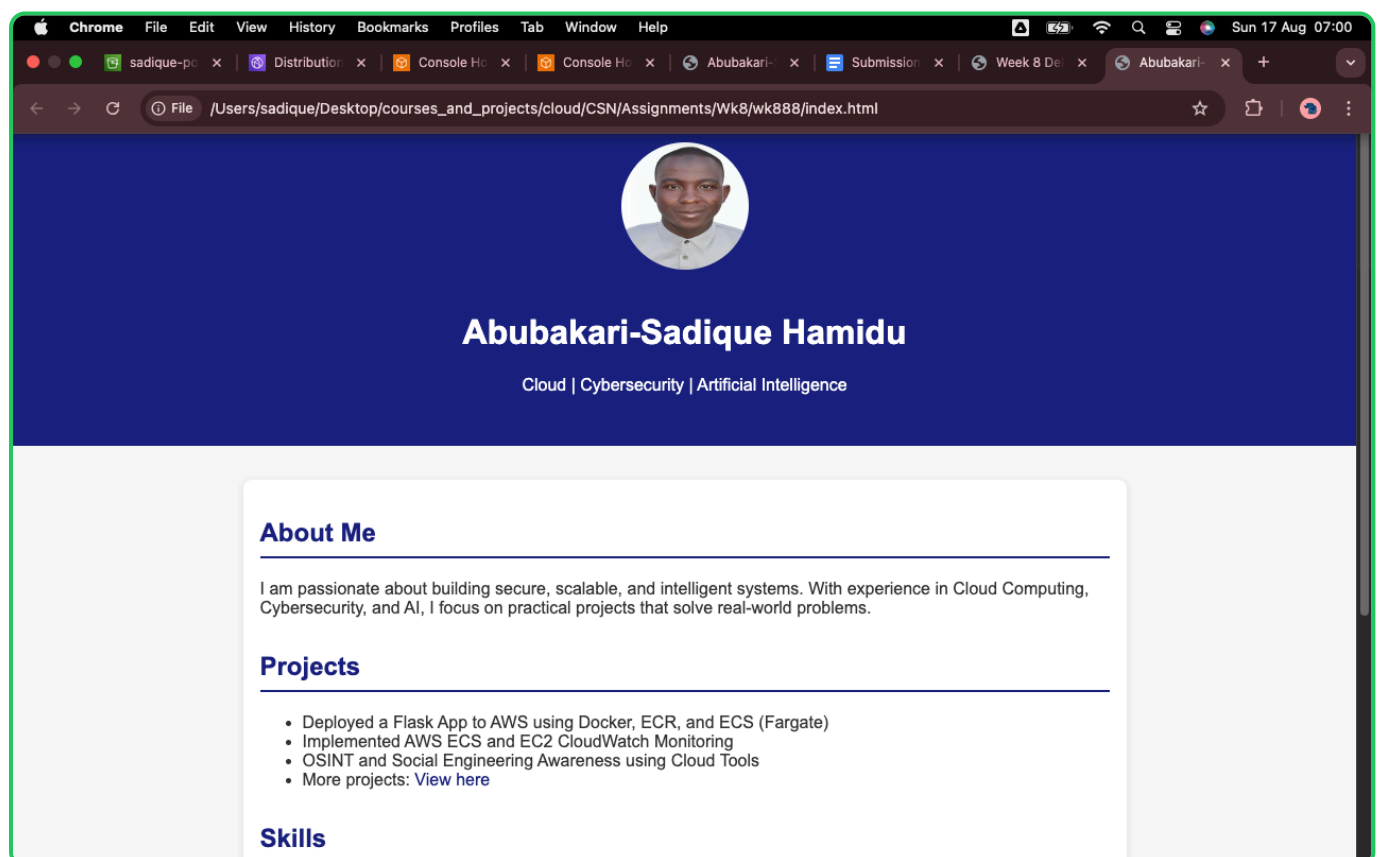
- Highly durable and scalable object storage for static websites.
- Cost-effective for hosting static content.
- Easy integration with other AWS services.
- Supports static website hosting directly with a website endpoint.

Benefits of CloudFront:

- Delivers content globally with low latency using edge locations.
- Provides HTTPS secure delivery even for S3 website endpoints.
- Caches content to reduce load on the origin server.
- Improves website performance and scalability.

2. Local Website Preview

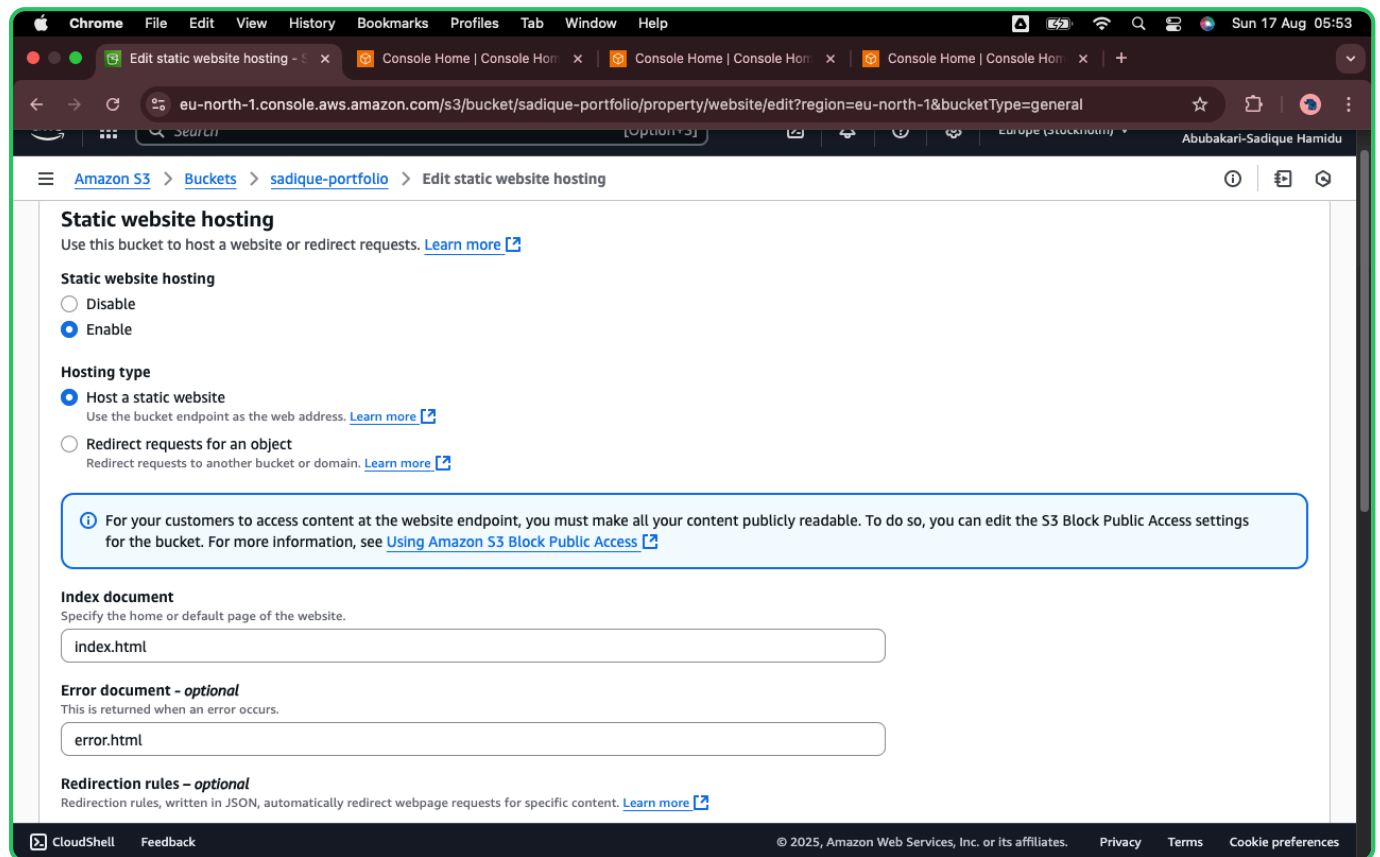
Before uploading, the static website was tested locally to ensure proper layout and functionality.



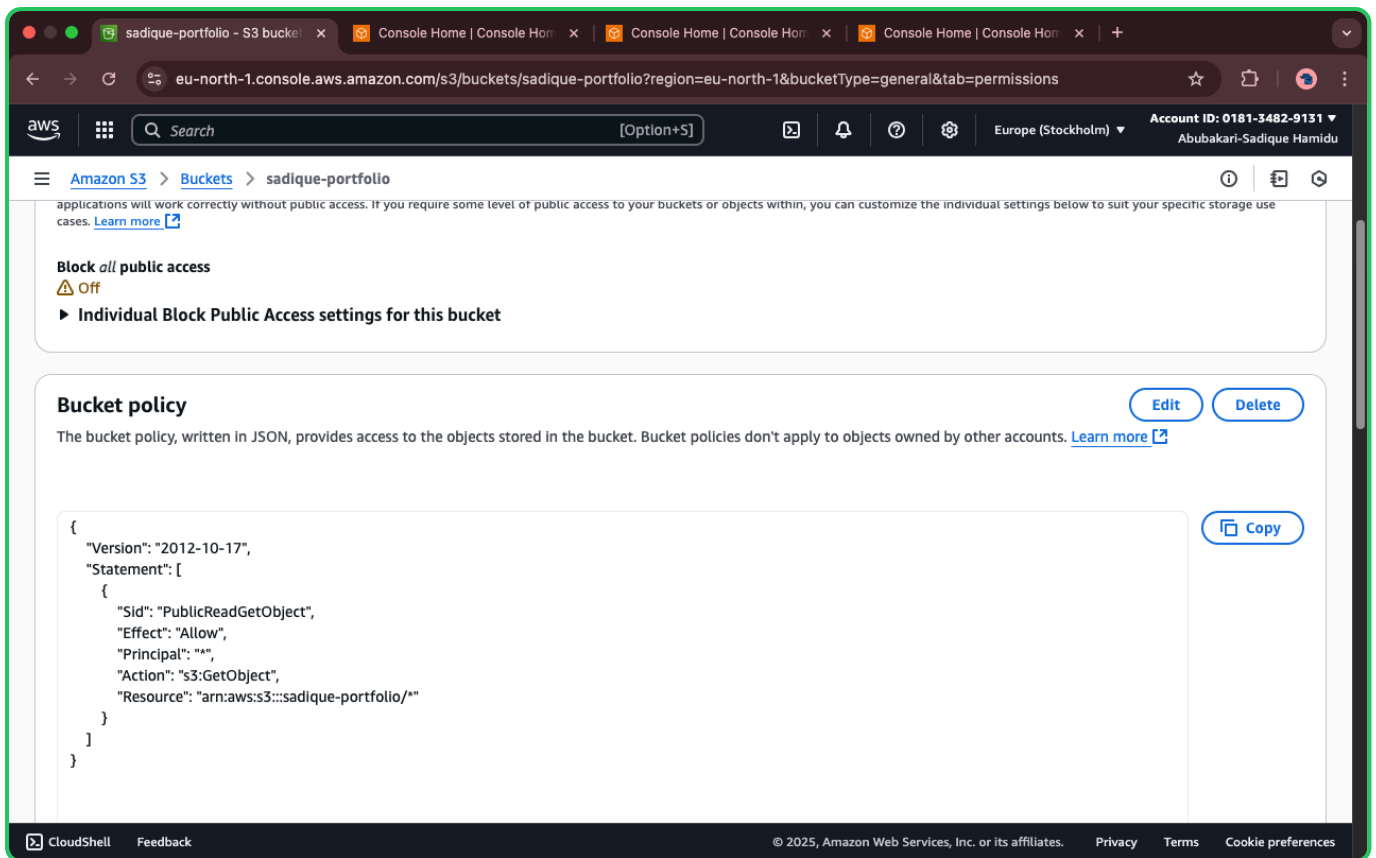
Reason: This step confirms the site displays correctly and avoids errors after deployment.

3. S3 Bucket Setup

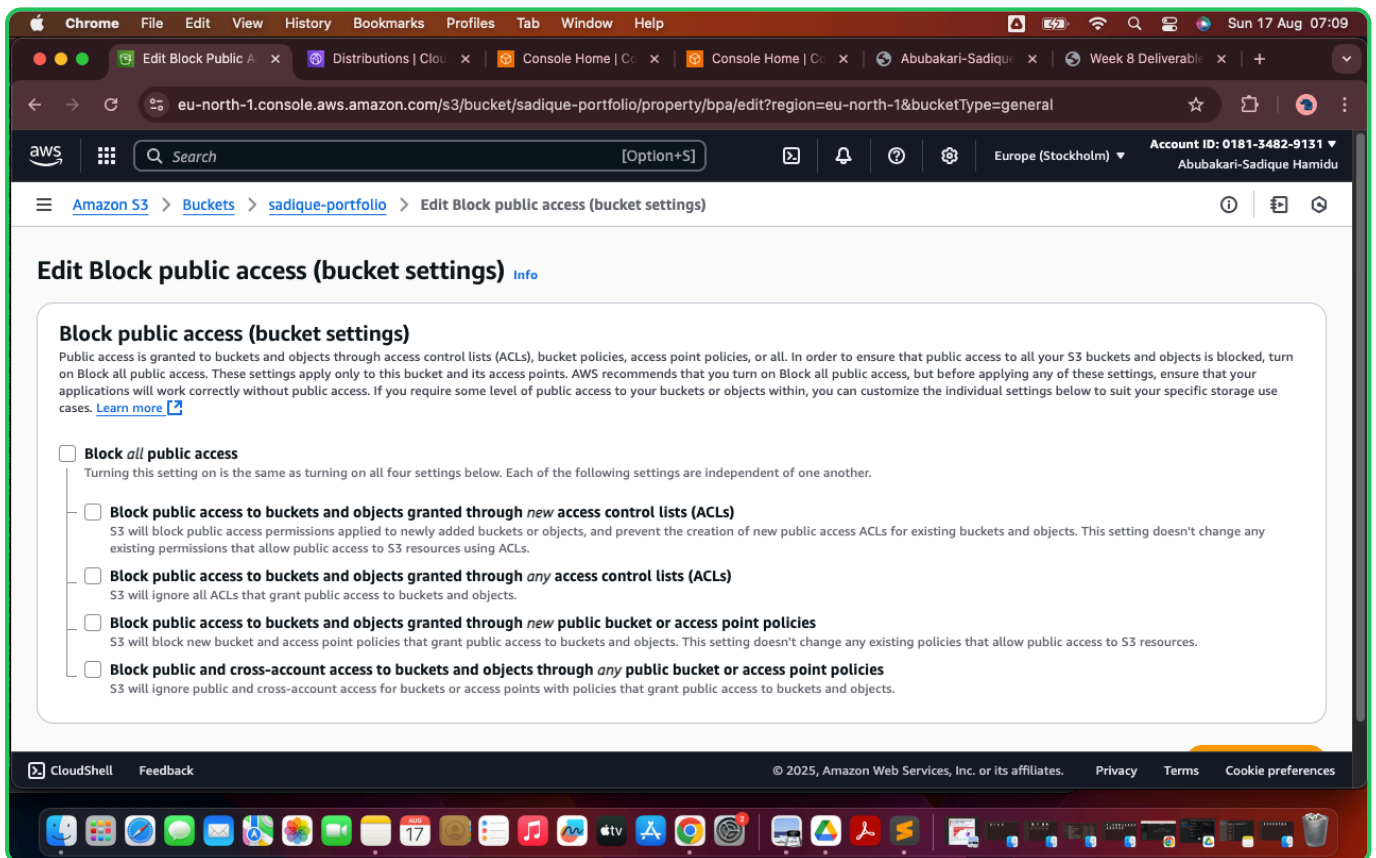
The website files were uploaded to an S3 bucket and configured for static website hosting.



Importance: Enabling static hosting allows S3 to serve HTML, CSS, and other static files via a public URL.



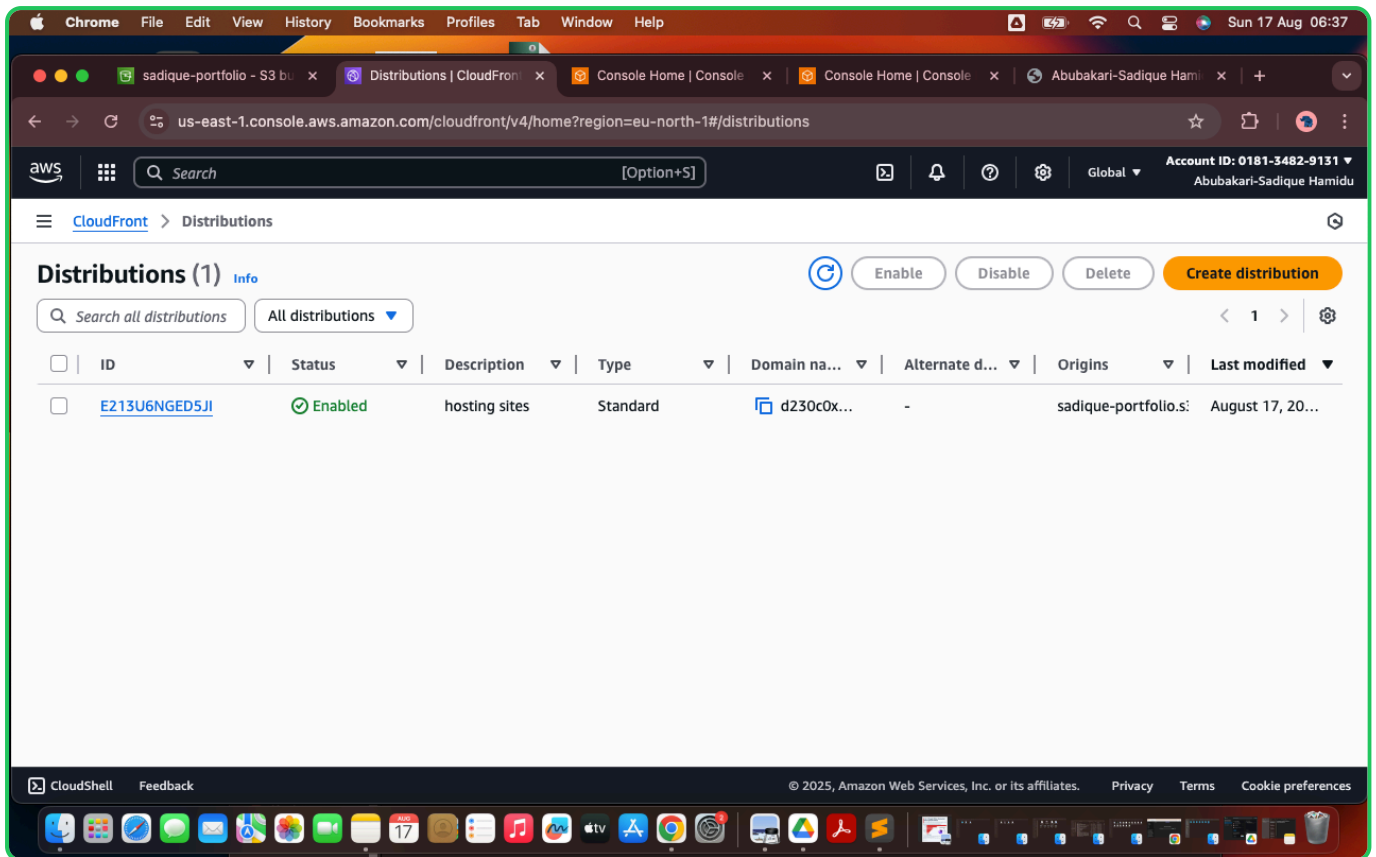
Importance: The bucket policy grants public read access so that anyone can access the website.



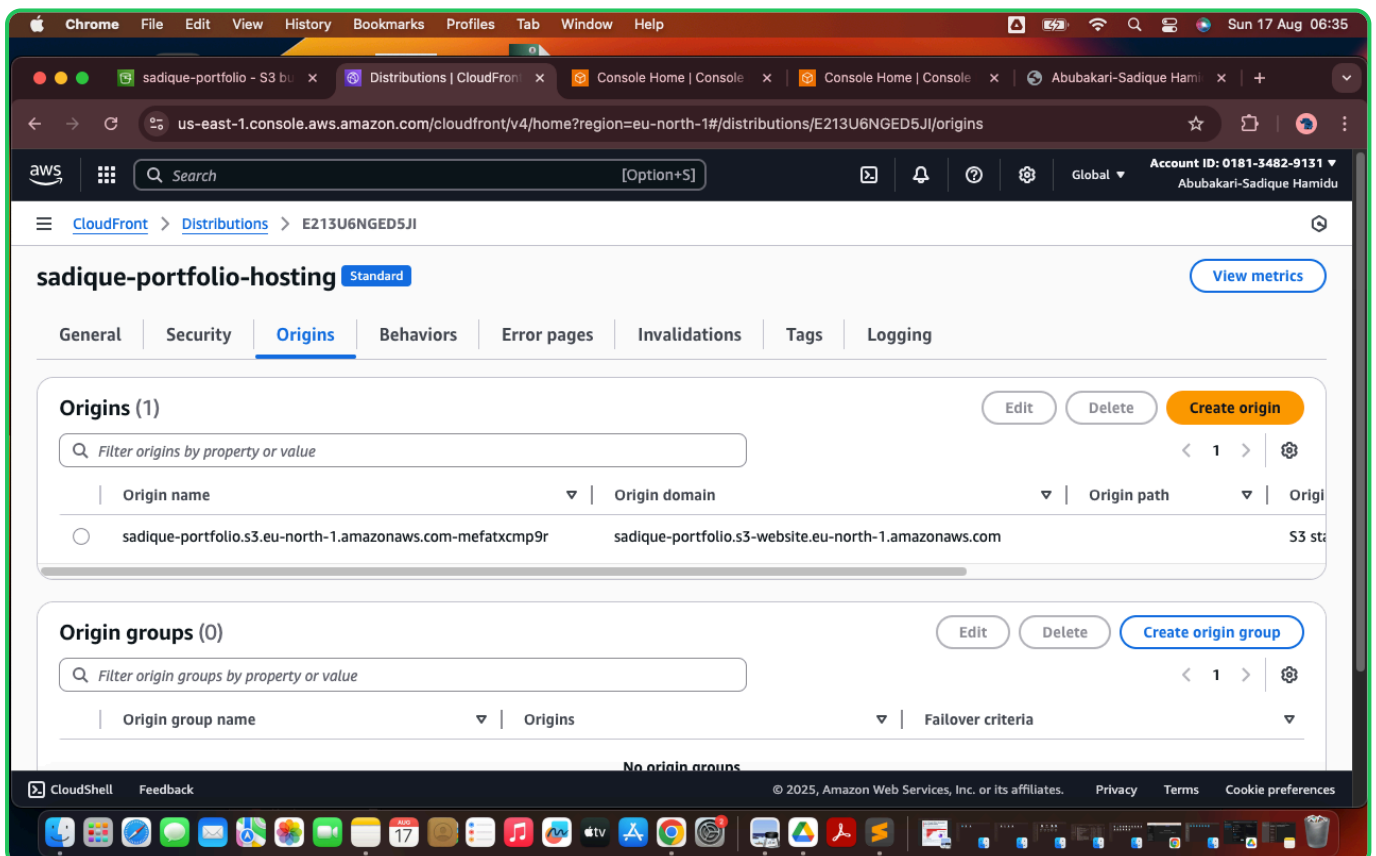
Reason: Block public access must be disabled; otherwise, even with a bucket policy, the objects remain inaccessible.

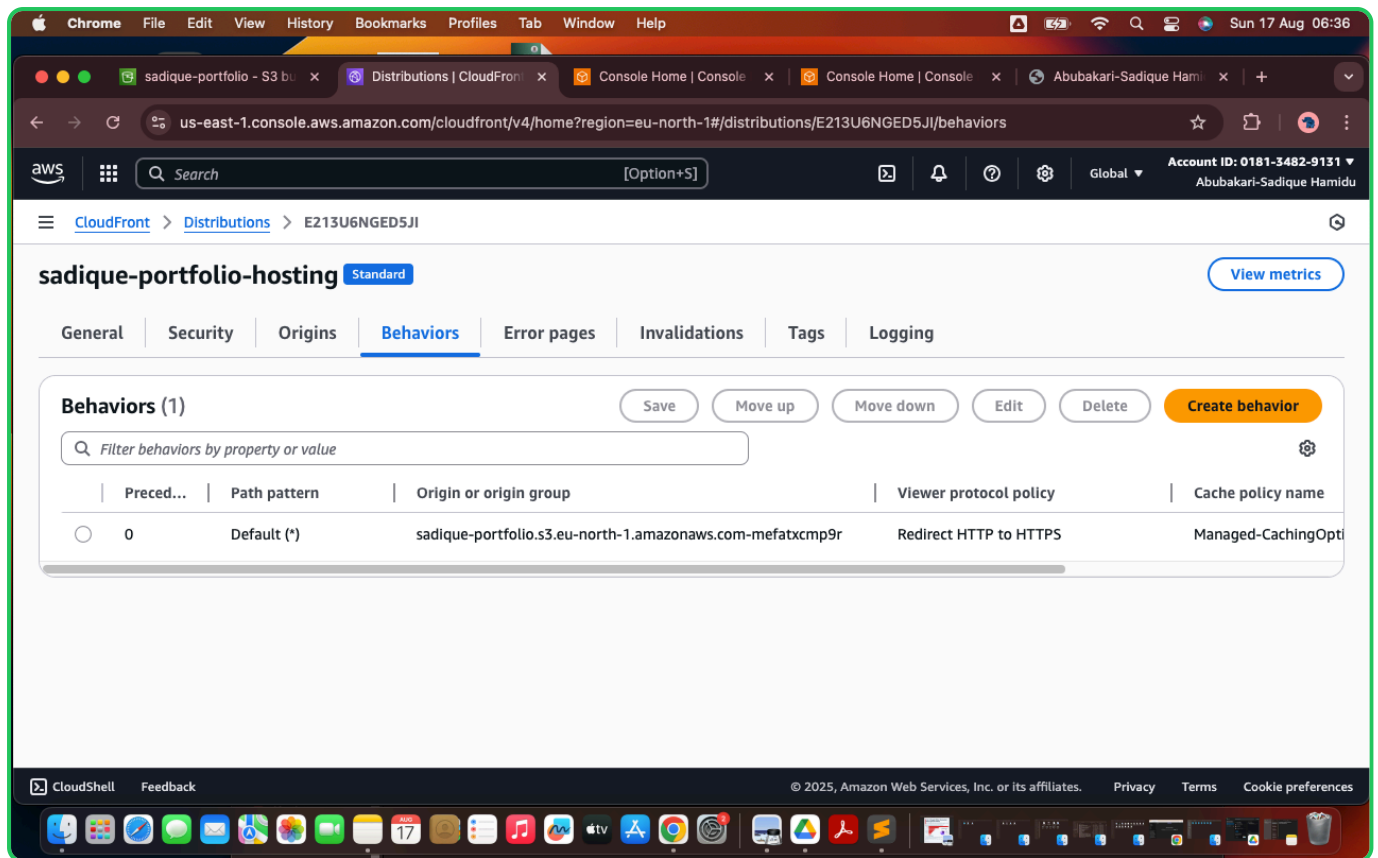
4. CloudFront Distribution

A CloudFront distribution was created using the S3 website endpoint as the origin. This provides secure, fast delivery of the website.



Reason: CloudFront distributes content globally, reduces latency, and supports HTTPS even for S3 website endpoints.

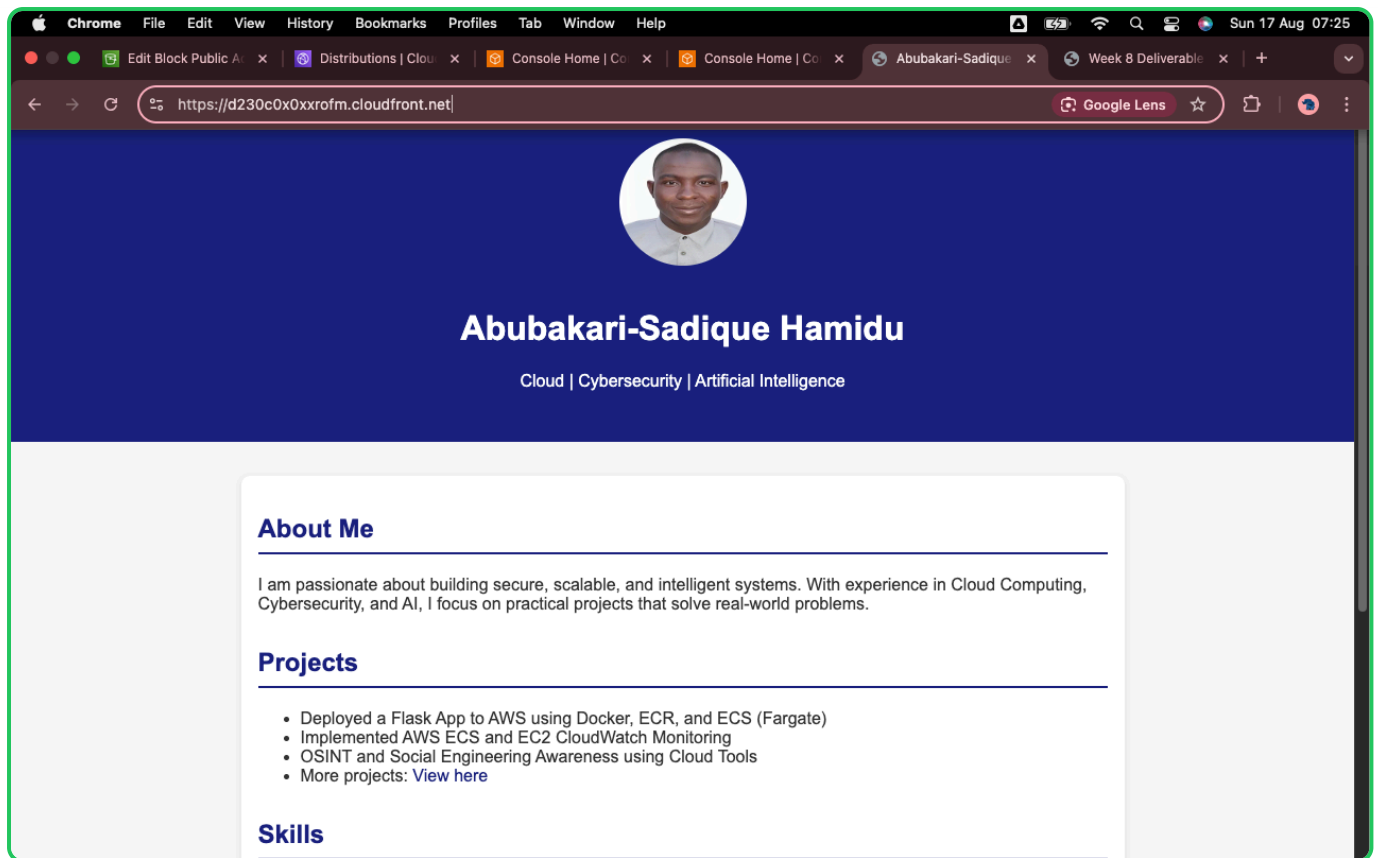




Importance: Configuring behaviors ensures correct caching, root object loading, and HTTPS redirection for better performance and security.

5. Live Website

The website is accessible through the CloudFront domain. The live site loads successfully, confirming deployment correctness.



Reason: Accessing the live site verifies that S3 and CloudFront configuration are correct and the content is publicly available.

6. Conclusion

This project demonstrated hosting a static website on AWS S3 with public access and serving it globally via CloudFront. Every step was crucial to ensure the website is secure, accessible, and performant.

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