



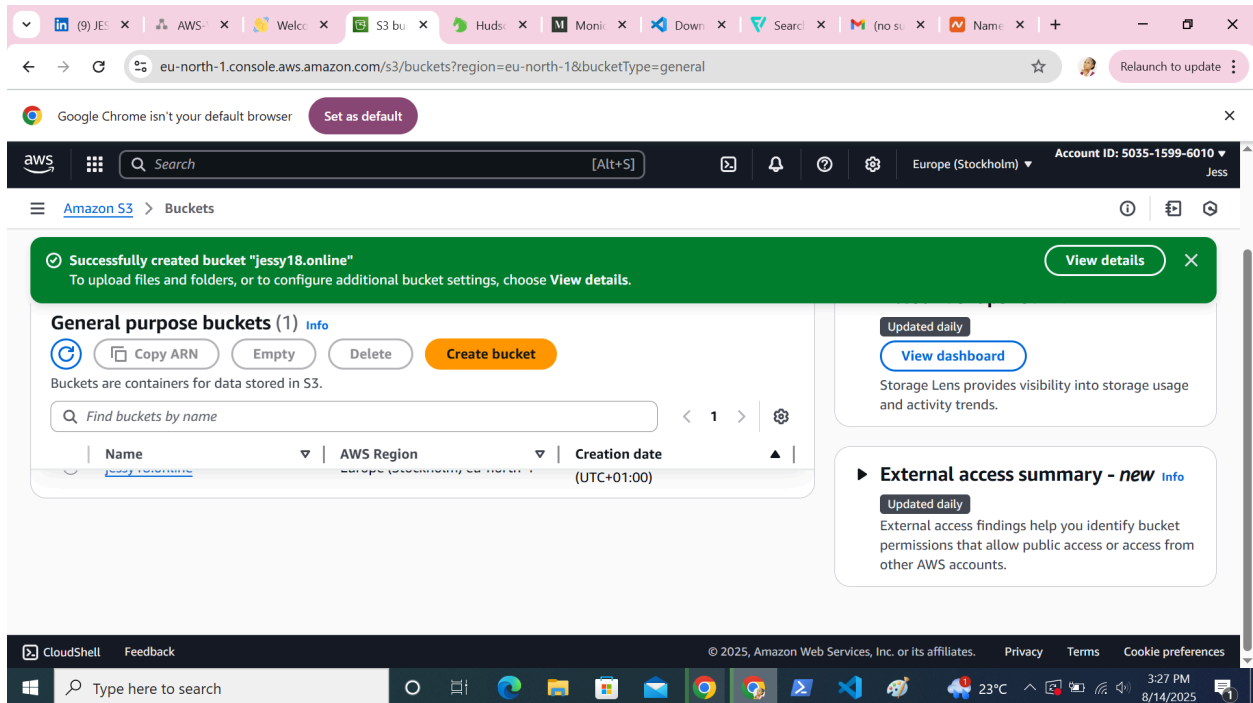
SECURED STATIC WEBSITE DEPLOYMENT USING AWS

DESCRIPTION

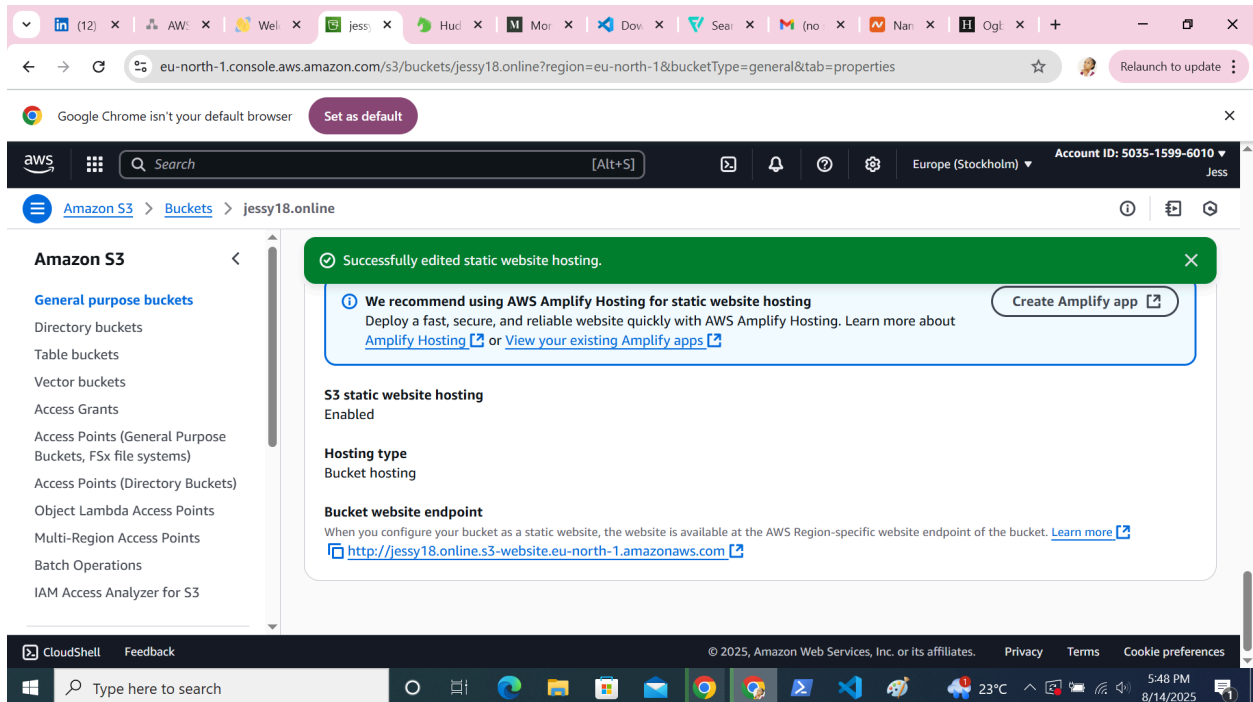
This project involved my end-to-end design and deployment of a static website on AWS with a custom domain managed through Route 53. I configured an S3 bucket for static hosting with appropriate public access policies, secured the site using AWS Certificate Manager (ACM) SSL/TLS, and integrated Amazon CloudFront to ensure global content delivery, caching, and optimal performance. I also set up Route 53 DNS records to connect the custom domain to the CloudFront distribution and conducted thorough testing to verify domain resolution, HTTPS functionality, and overall site availability

MAJOR STAGES

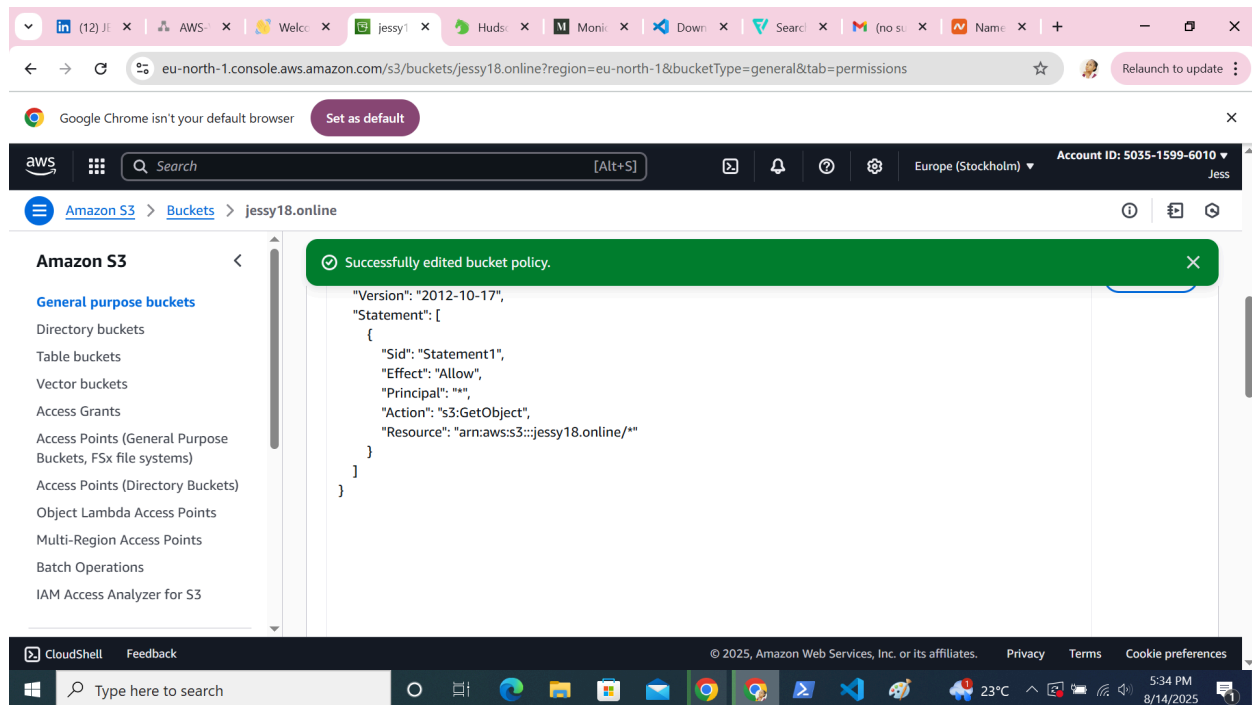
- **Created an S3 bucket using my domain name to host the website.**



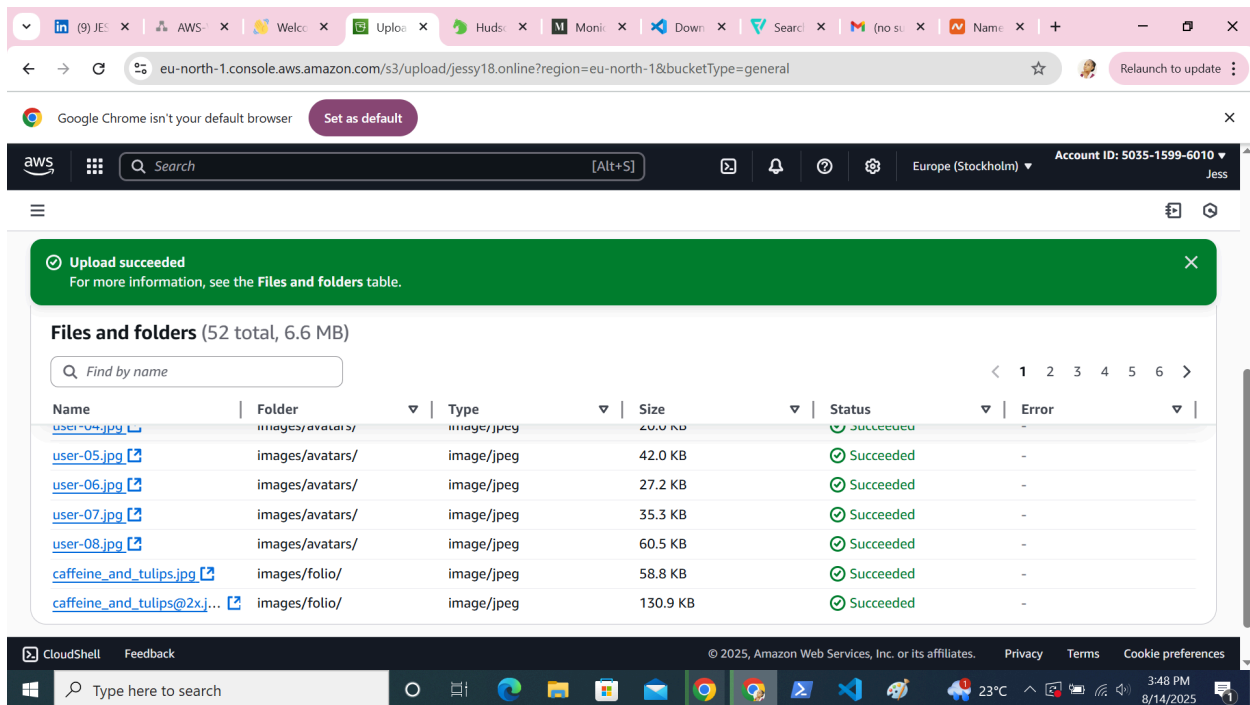
• Activated Static Website Hosting



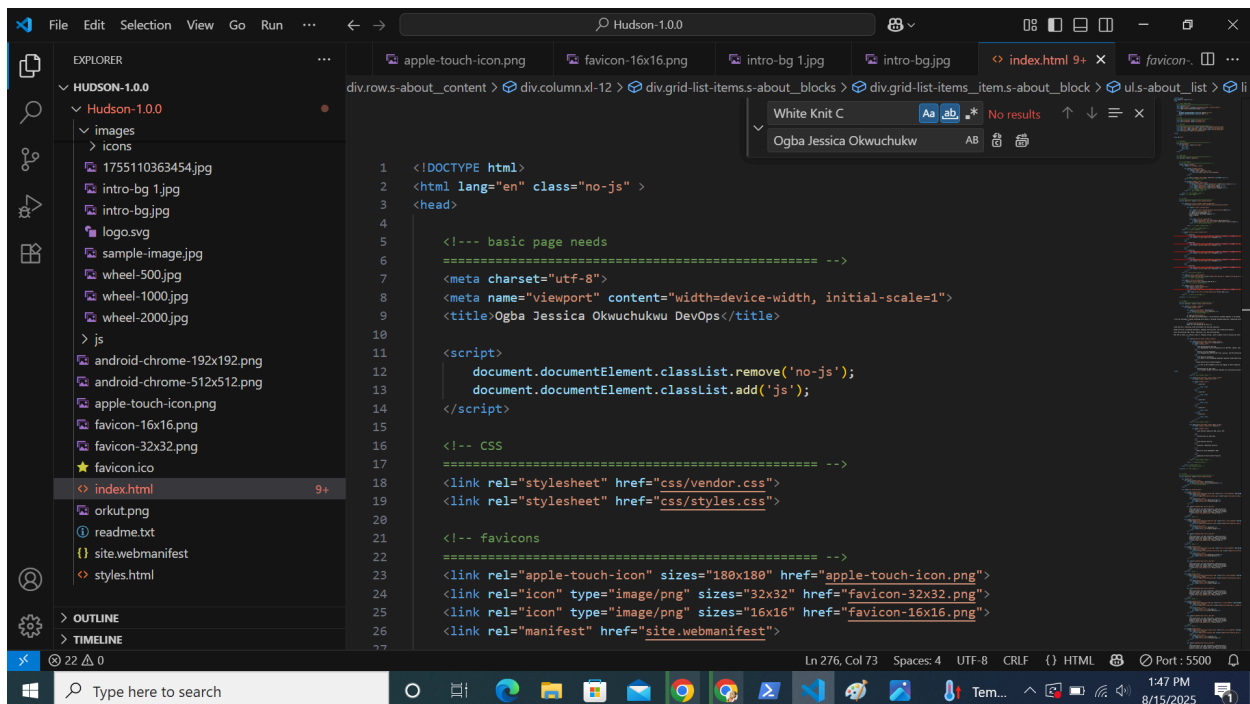
Configured the S3 bucket's public access permissions and policy to enable static content delivery



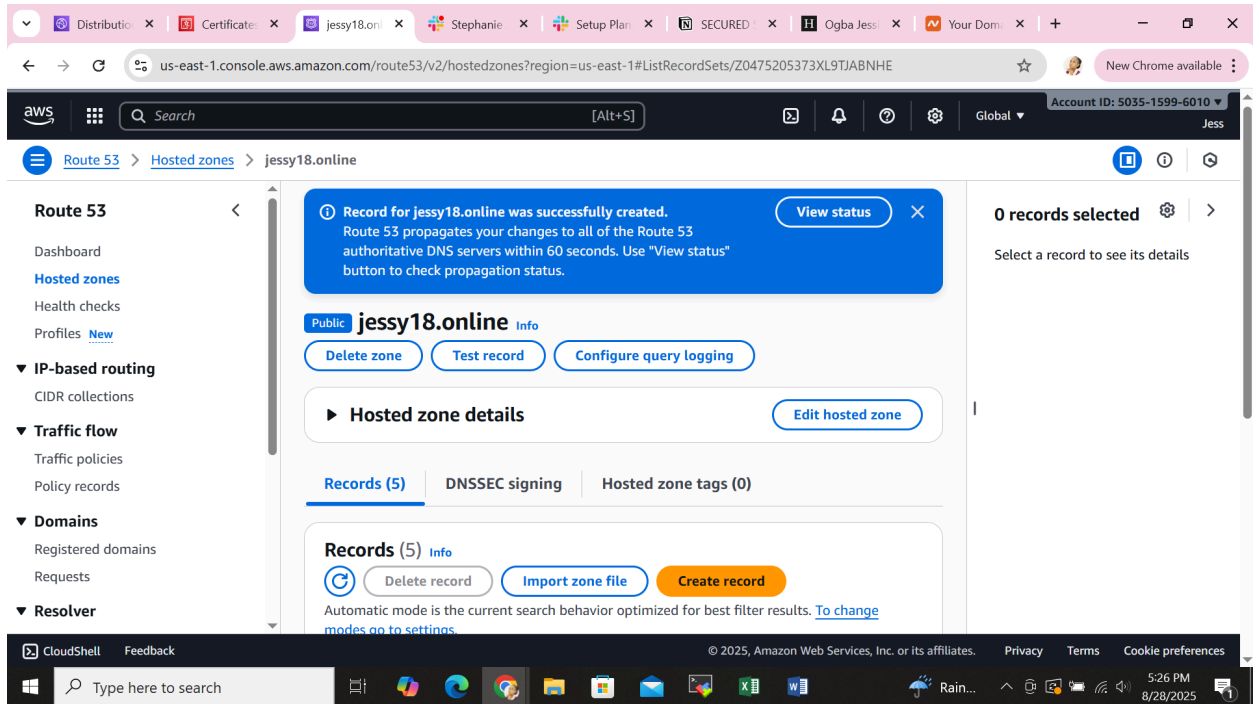
- **Deployed static files to Amazon S3 to enable secure and scalable hosting at a low cost.**



- **Downloaded & Edited website content using Visual Studio Code (VSCode) for efficient development and updates**



- **Configured and linked a custom domain through Route 53 DNS records.**



- **Security: Enabled HTTPS with ACM issued SSL certificate**

The screenshot shows the AWS Certificate Manager (ACM) console. On the left, there's a sidebar with 'AWS Certificate Manager (ACM)' and a 'List certificates' link. The main area displays 'Certificates (1/1)' with a table containing one certificate. The table has columns for Certificate ID, Domain name, Type, and Status. The certificate listed is 'eb9ec85a-9b7a-4e1c-9bae-09bf502cf119' for 'jessy18.online', issued by Amazon.

Certificate ID	Domain name	Type	Status
eb9ec85a-9b7a-4e1c-9bae-09bf502cf119	jessy18.online	Amazon Issued	Issued

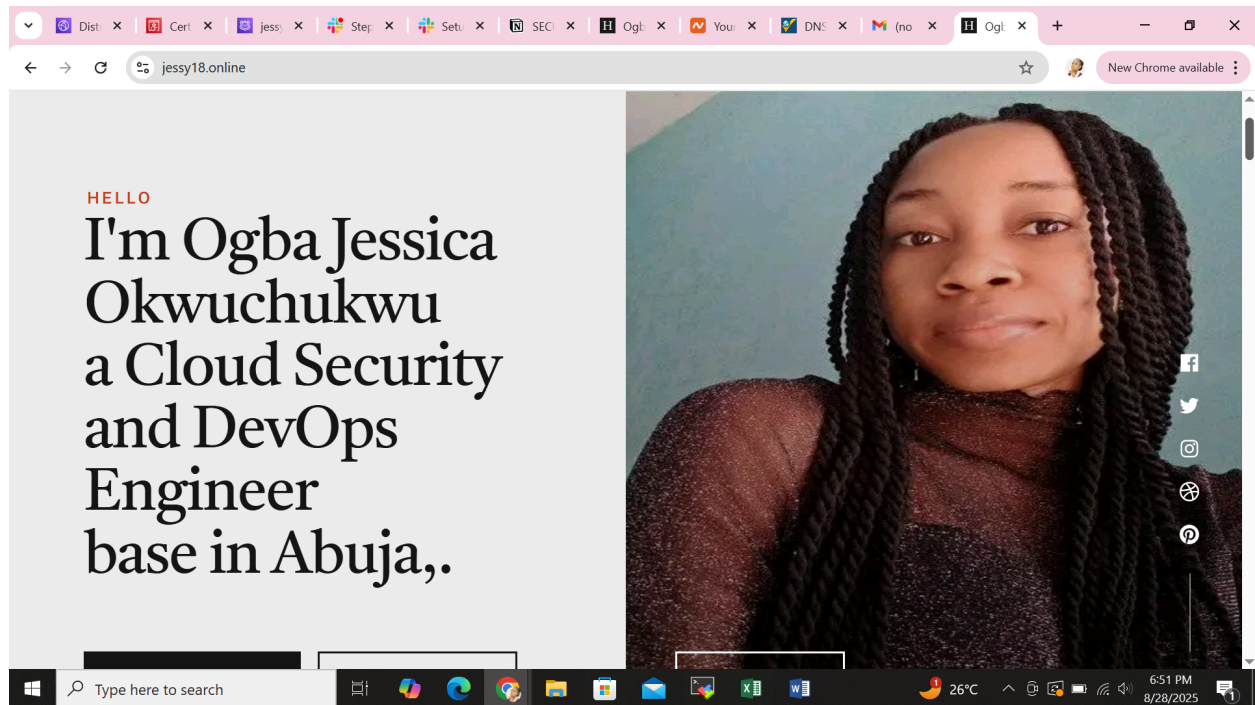
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- **Enhanced website performance by leveraging Amazon CloudFront CDN for faster content delivery worldwide.**

The screenshot shows the AWS CloudFront console for a distribution named 'E3HTUIRWJDKTAA'. The 'Details' section provides key information: Name, Distribution domain name 'd3c58zvijt788o.cloudfront.net', ARN 'arn:aws:cloudfront::5035159960:10:distribution/E3HTUIRWJDKTAA', and Last modified date. The 'Settings' section includes Description, Price class, Supported HTTP versions, Alternate domain names (with a 'Route domains to CloudFront' button), Custom SSL certificate, Standard logging (set to 'Off'), Cookie logging (set to 'Off'), and Default root object.

Details			
Name	Distribution domain name	ARN	Last modified
-	d3c58zvijt788o.cloudfront.net	arn:aws:cloudfront::5035159960:10:distribution/E3HTUIRWJDKTAA	August 28, 2025 at 4:23:23 PM UTC

Settings		
Description	Alternate domain names	Standard logging
-	jessy18.online	Off
Price class	Custom SSL certificate	Cookie logging
Use all edge locations (best performance)	jessy18.online	Off
Supported HTTP versions	Default root object	

- **Successfully deployed the static website on AWS; the site is live and fully accessible via the custom domain (<https://jessy18.online>)**



• OVERVIEW

The project successfully delivered a fully live and secure static website, demonstrating end-to-end proficiency in AWS services, domain management, and website deployment. With Route 53, S3, CloudFront, and ACM SSL/TLS properly configured, the site is now accessible globally via HTTPS, optimized for performance, and ready for real-world use. This experience reinforced my ability to manage cloud infrastructure and deploy professional web solutions independently.