# Project 4: Static Website Deployment on AWS

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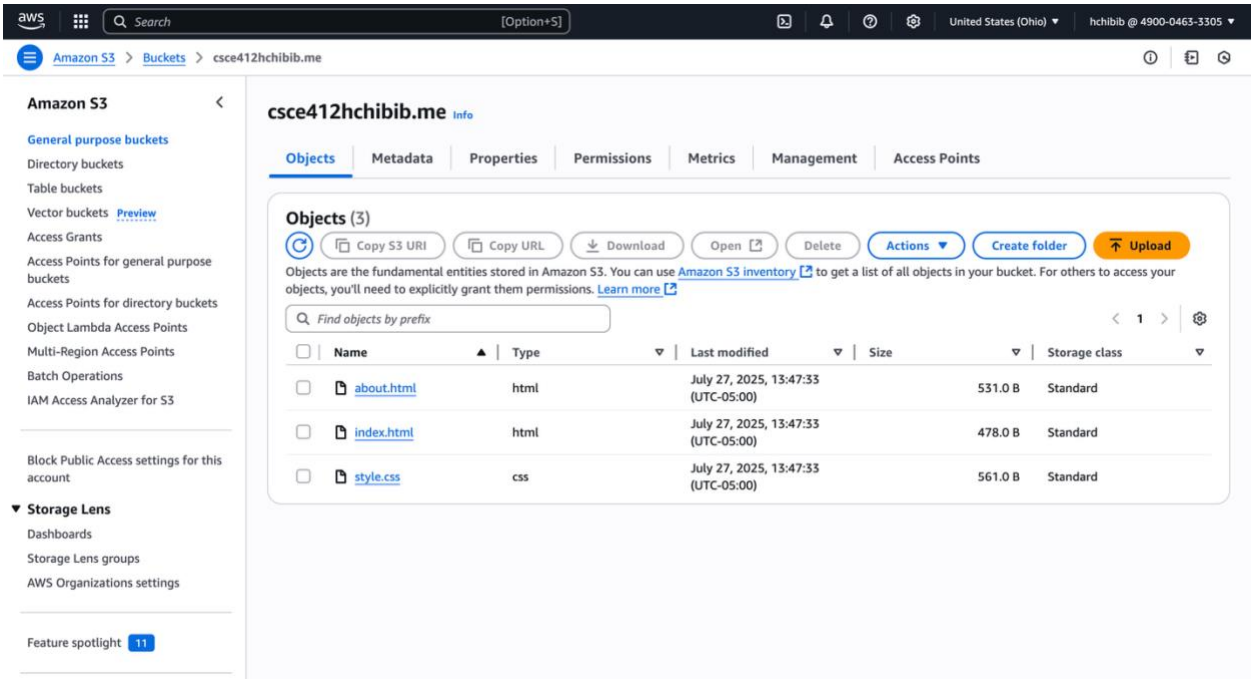
This project involved building and deploying a secure, multi-page static website using Amazon Web Services (AWS). The goal was to demonstrate real-world cloud deployment skills by registering a custom domain, configuring a public S3 bucket, linking the domain via Route 53, securing the website with an SSL certificate, and delivering content through AWS CloudFront.

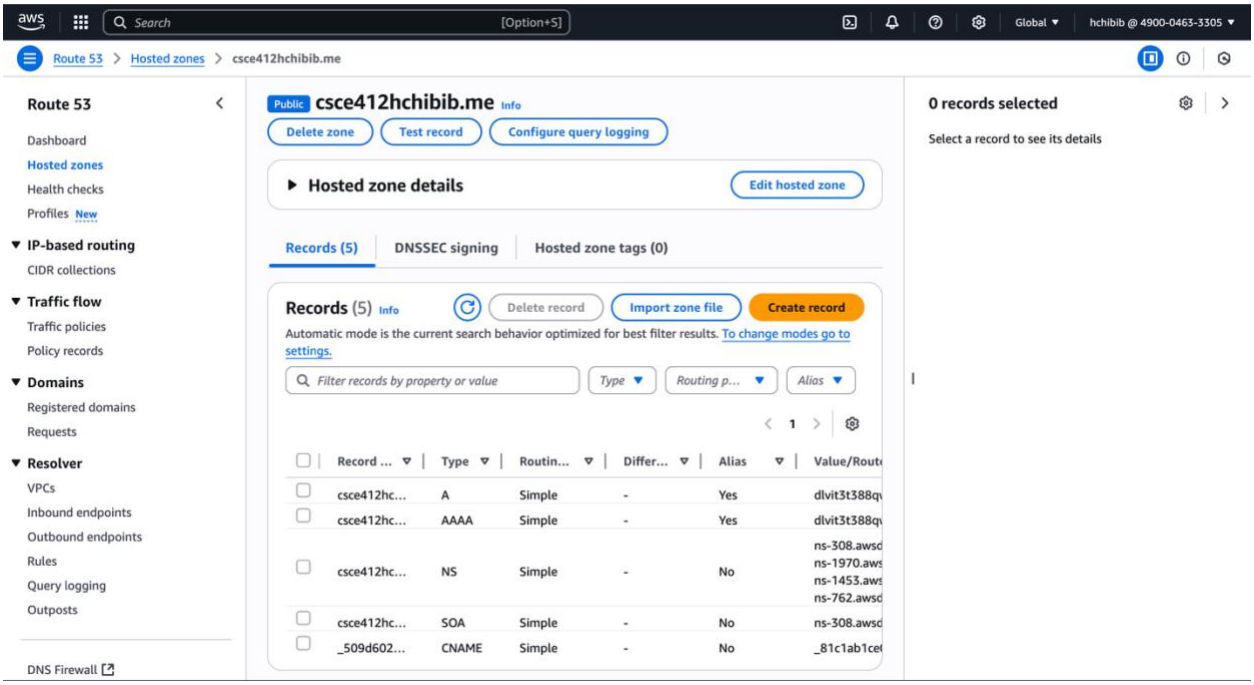
My website is accessible at:
**https://csce412hchibib.me**

The services I used include:

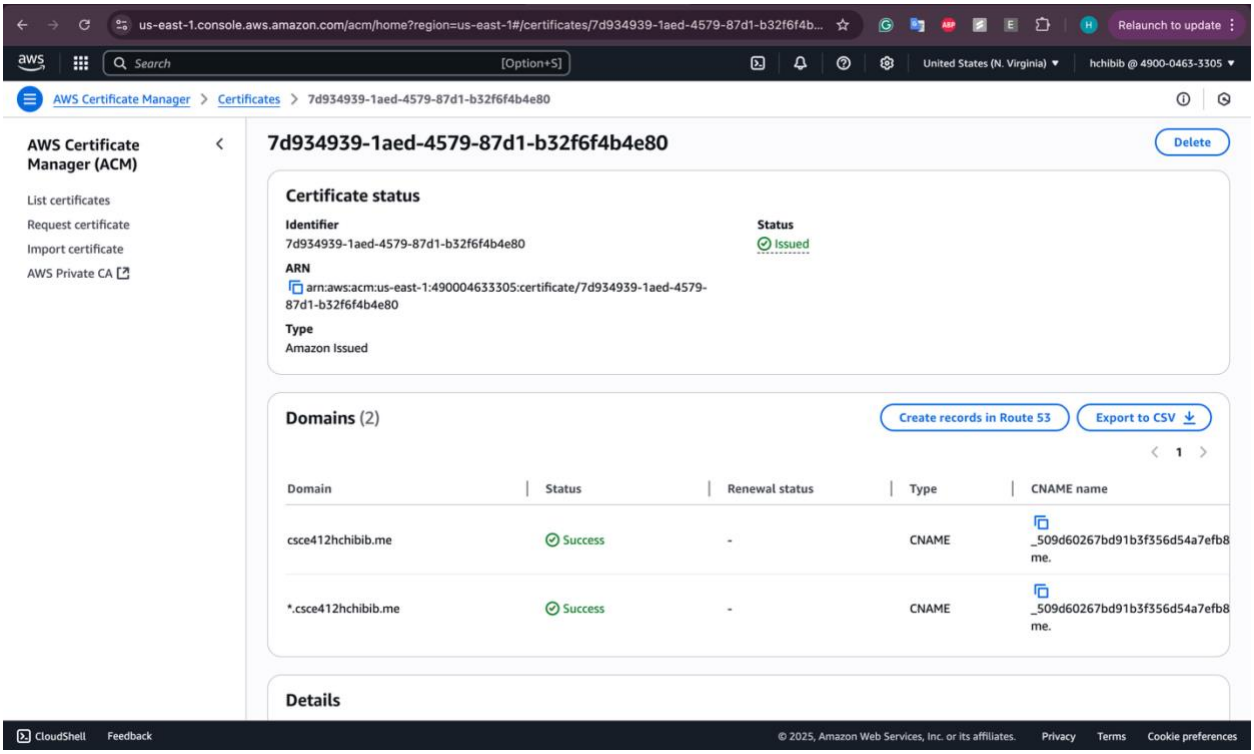
- Amazon S3
- AWS Route 53
- AWS Certificate Manager (ACM)
- AWS CloudFront
- Namecheap for domain registration



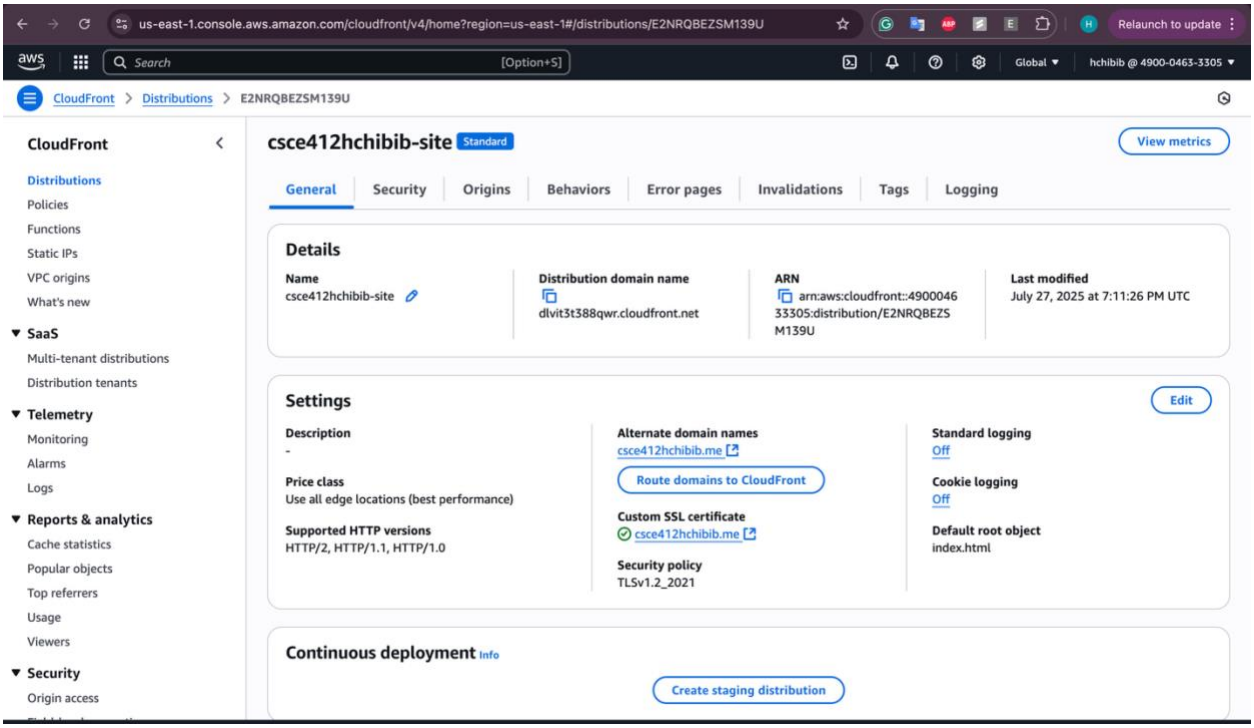

S3 bucket created with static website hosting enabled and public access configured.



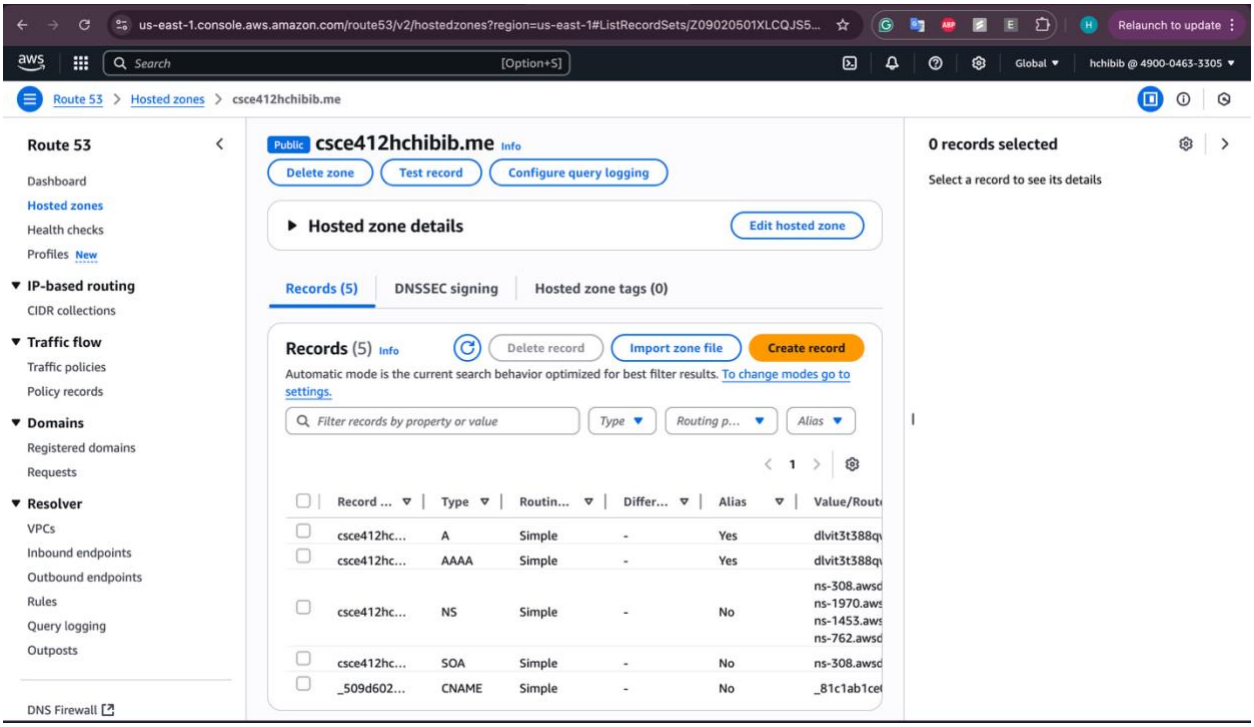

Route 53 hosted zone created for csce412hchibib.me and linked via custom Namecheap nameservers.



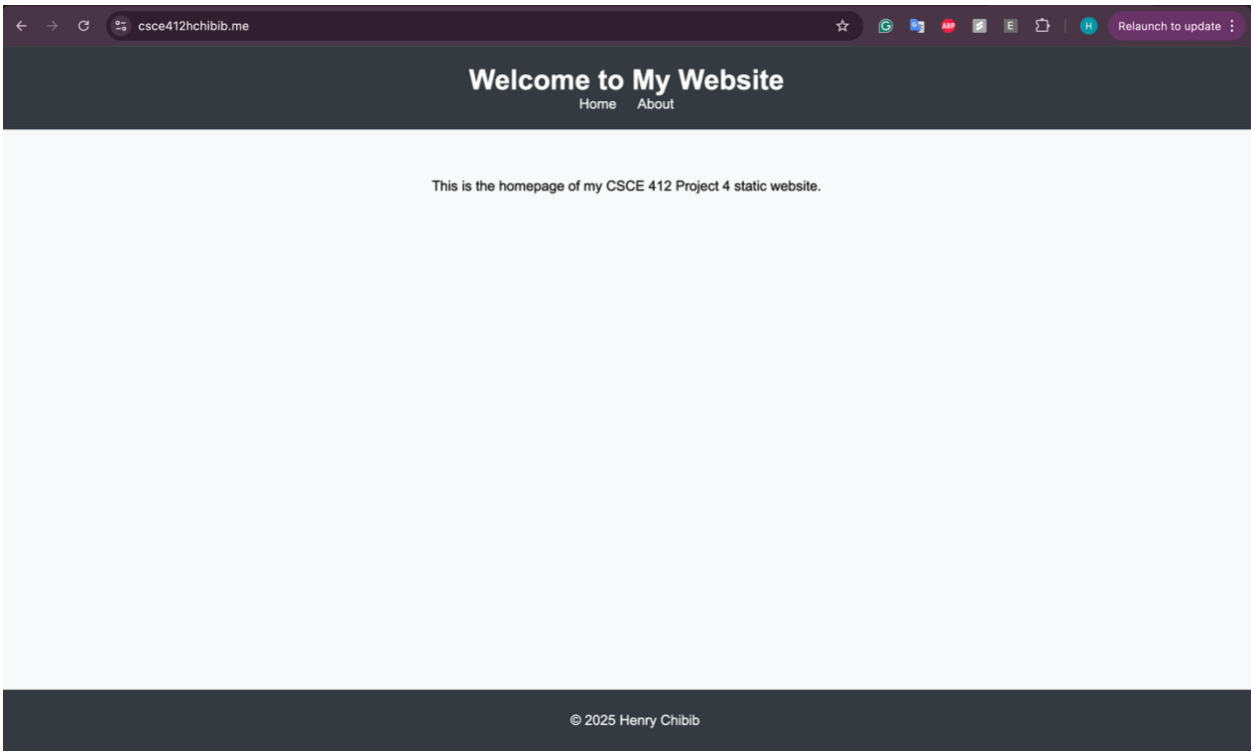
SSL/TLS certificate for csce412hchibib.me issued through DNS validation.



CloudFront distribution created using the S3 static site as origin and custom domain with HTTPS.




Route 53 routing set to direct traffic from csce412hchibib.me to the CloudFront distribution.



Live secure website with custom domain and visible HTTPS lock icon.

This project gave me hands-on experience deploying cloud-hosted content through AWS. I learned how to configure S3 buckets for static website hosting, link a custom domain through Route 53, validate and apply SSL certificates with ACM, and deliver secure content via CloudFront.

The most challenging part was configuring DNS routing and ensuring HTTPS worked end-to-end. Once I understood how each service depended on the others, the process became logical and repeatable.

This exercise mirrored real DevOps and cloud deployment workflows I could see myself using in professional settings.

# Project Workflow Flowchart