

## Weekly Tasks

	Description	Deliverable
Week 9	Register a free or paid domain and connect it to AWS Route 53 by updating the nameservers with those from your hosted zone. Create a CloudFront distribution that serves your S3 static website, then request and validate a free SSL certificate using ACM with DNS validation in Route 53. Attach the certificate to CloudFront and confirm your site loads over HTTPS using your custom domain. If you cannot use a domain, follow the same steps and explain what you would have done.	<p>Provide screenshots of your Route 53 hosted zone, the validated SSL certificate in AWS Certificate Manager, CloudFront settings with your custom domain, and your website loading over HTTPS.</p> <p>If you simulated the steps, briefly describe your approach.</p>

## WEEK 9

### STEP 1: Set up my domain on deSEC (dedyn.io)

- Created a **deSEC account** and registered the subdomain **ayoi.dedyn.io**.
- Managed all DNS records for this domain in deSEC (dedyn.io).

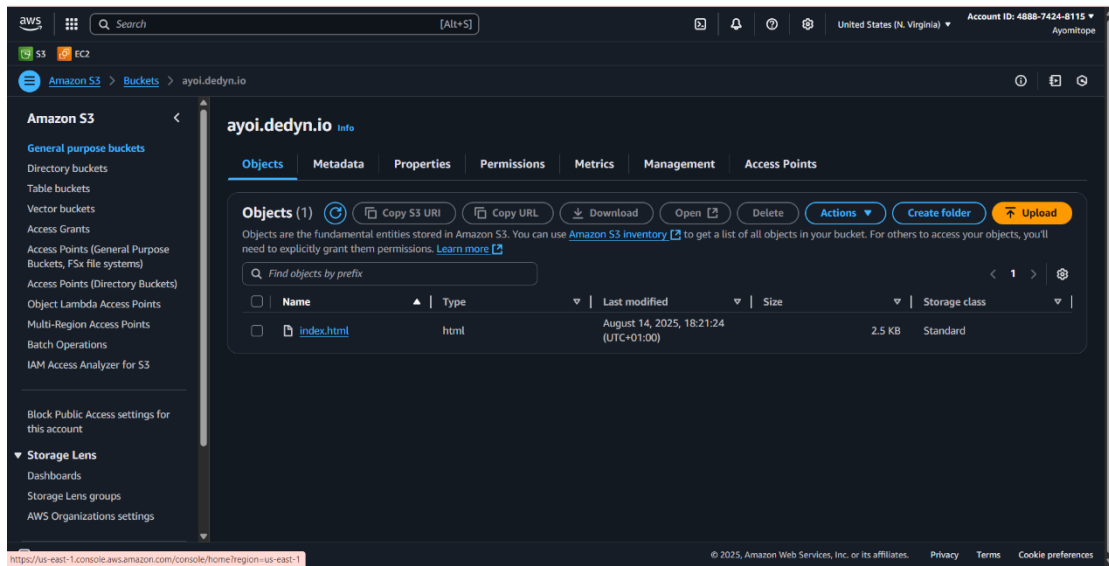
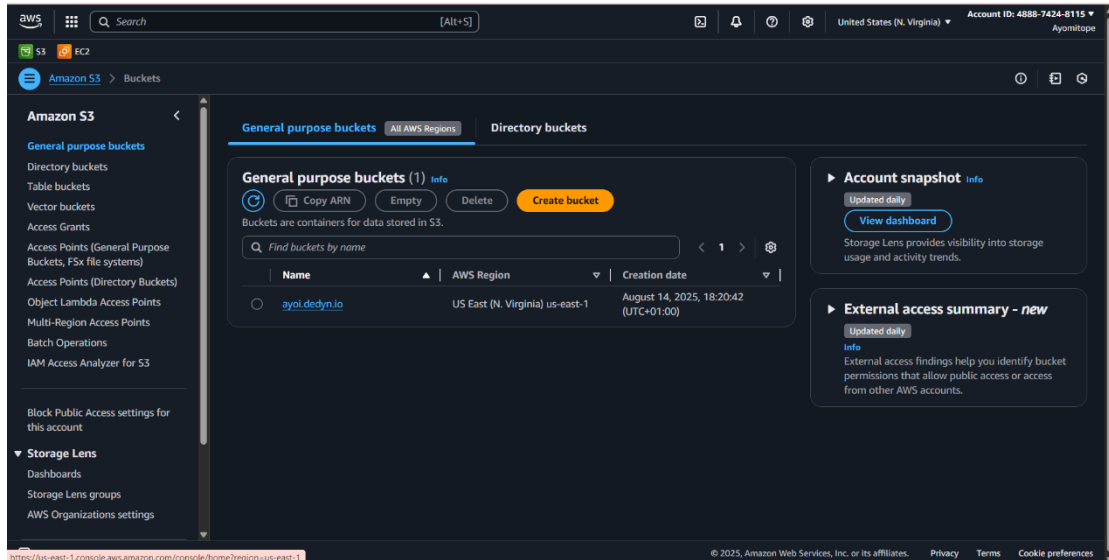
The screenshot shows the deSEC web interface. At the top, there's a navigation bar with links: Home, Docs, Roadmap, Talk, Donate, About, and a LOG OUT button. Below this is a header with "DOMAIN MANAGEMENT" and "TOKEN MANAGEMENT" tabs, and a "MORE" dropdown. The main content area is titled "Record Sets ayoi.dedyn.io" and includes a search bar. A message states: "You can edit your DNS records here. If you have questions, feel free to post in our forum, or shoot us an email." Below this is a table of DNS records:

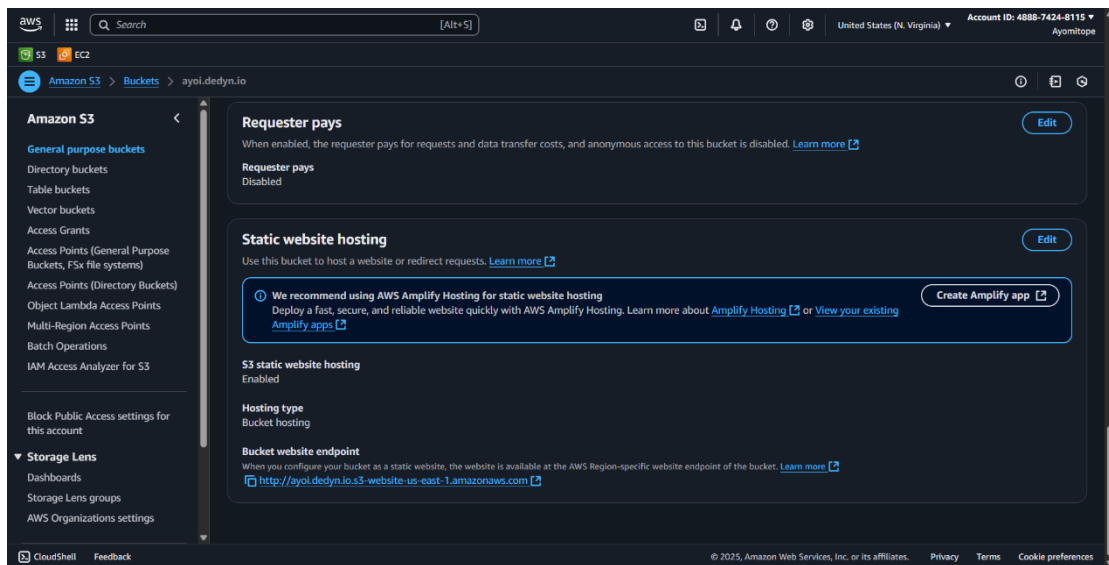
Type	Subname	Content	TTL (seconds)	Last touched	Actions
NS	(optional)	Hostnames: ns1.desec.io, ns2.desec.org. (with add another value link)	3600	6 days ago	Copy, Delete
CNAME	_72f3f8946ba2eefa4caac55c074	Target hostname: _22e876f04548d7b5c20f16983da05ad3.xlfgmrvlj.acm-validations.aws. (with add another value link)	3600	less than a minute ago	Copy, Delete
CNAME	www	Target hostname: d2e4un2e48gp4j.cloudfront.net. (with add another value link)	3600	less than a minute ago	Copy, Delete

At the bottom, there's a footer with "deSEC e.V." and links for Service Status, Source Code, Terms of Use, Privacy Policy (Datenschutzerklärung), and Legal Notice (Impressum). The bottom right corner shows "Rows per page: 30" and "1-3 of 3".

## STEP 2: Create the S3 Bucket for Website Hosting

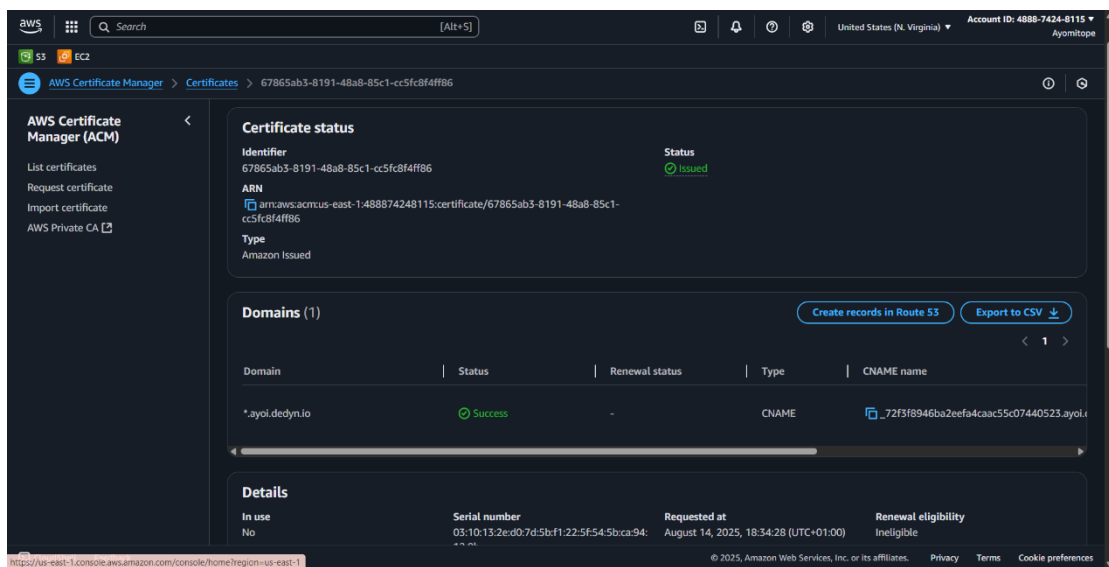
- In **S3 Console**, created a bucket named exactly as the domain: `ayoi.dedyn.io`.
- Disabled **Block Public Access** (if serving directly from S3).
- Uploaded the website files (`index.html`, `style.css`, etc.).
- Enabled **Static website hosting** in **Properties**, setting `index.html` as the root document.





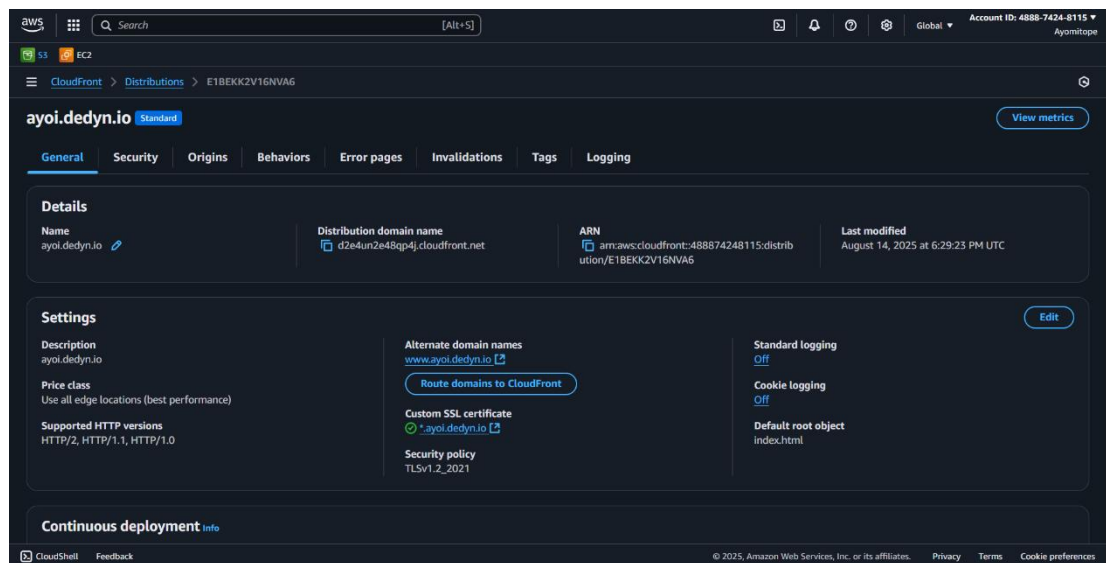
### STEP 3: Request an SSL/TLS Certificate in AWS Certificate Manager

- Opened **AWS Certificate Manager (ACM)** in the **us-east-1** region (required for CloudFront).
- Requested a public certificate for:
  - \*.ayoi.dedyn.io (wildcard for subdomains)
- Chose **DNS validation** and added the provided CNAME record in **Route 53**.
- Waited for the status to change to **Issued**.



### STEP 4: Create a CloudFront Distribution

- In **CloudFront Console**, created a new distribution.
- **Origin domain**: Selected the S3 bucket's static website endpoint (or bucket name if using OAI/OAC for private content).
- **Viewer protocol policy**: Redirect HTTP to HTTPS.
- **Custom SSL certificate**: Selected the ACM certificate for \*.ayoi.dedyn.io
- **Alternate domain names (CNAMEs)**: Added www.ayoi.dedyn.io
- Created the distribution and waited for deployment.



## STEP 5: Create a Route 53 Hosted Zone and DNS Records

- In **Route 53**, created a hosted zone for dedyn.io if not already existing (or used existing if managed externally).
- Created an **A record (Alias)** pointing ayoi.dedyn.io to the CloudFront distribution.
- This ensures that when users type ayoi.dedyn.io, they are routed through CloudFront to the S3 bucket.

Route 53

Hosted zones

ayoi.dedyn.io

Public

ayoi.dedyn.io

Info

Delete zone

Test record

Configure query logging

Hosted zone details

Edit hosted zone

Records (4)

DNSSEC signing

Hosted zone tags (0)

Records (1/4)

Info

Delete record

Import zone file

Create record

Automatic mode is the current search behavior optimized for best filter results. To change modes go to settings.

Filter records by property or value

Type

Routing p...

Alias

Record ...

Type

Routin...

Differ...

Alias

Value/Route traffic to

ayoi.dedy...

NS

Simple

-

No

ns-862.awsdns-43.net.  
ns-478.awsdns-59.com.  
ns-1161.awsdns-17.org.  
ns-1948.awsdns-51.co.uk

ayoi.dedy...

SOA

Simple

-

No

ns-862.awsdns-43.net. au

☒

www.ayoi...

A

Simple

-

Yes

d2e4un2e48qp4j.cloudfrn

☐

www.ayoi...

AAAA

Simple

-

Yes

d2e4un2e48qp4j.cloudfrn

Record details

Edit record

Record name

www.ayoi.dedyn.io

Record type

A

Value

d2e4un2e48qp4j.cloudfront.net.

Alias

Yes

TTL (seconds)

-

Routing policy

Simple

Route 53

Dashboard

Hosted zones

Health checks

Profiles

New

IP-based routing

CIDR collections

Traffic flow

Traffic policies

Policy records

Domains

Registered domains

Requests

Resolver

VPCs

Inbound endpoints

Outbound endpoints

Rules

Query logging

Outposts

CloudShell

Feedback

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Privacy

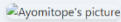
Terms

Cookie preferences

← → ↻ 🔍 https://www.ayoi.dedyn.io

🔍 Google Lens ☆ 📄 🗨️ 🌐

## About Me



Hello! My name is **Ayomitope Olufemi**, and this is my very first website. I'm learning something new every day as I build this.

My background was in History and International Studies, which I studied at the Federal University Oye Ekiti, Ekiti State. Transitioning from a non-tech background into the tech world has been both challenging and rewarding. This journey has fueled my determination to succeed and has shown me that with consistency, curiosity, and the right resources, anyone can break into tech and thrive.

I have a strong passion for **cloud security** and have been actively researching and practicing with various cloud tools and services using **Amazon Web Service (AWS)**. My goal is to become a skilled cloud security engineer, and I'm excited about the learning journey ahead. Through continuous learning and hands-on experience, I hope to not only grow in my career but also support others who are navigating the world of **cloud security**. I'm committed to sharing my knowledge and helping build a safer and more secure cloud environment for everyone.

Connect with me on [LinkedIn](#).

Here are three certifications I've achieved:

- IBM Cybersecurity Analyst Professional Certificate
- Introduction to Cloud Computing - Coursera
- AWS Cloud Practitioner Essentials