

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:

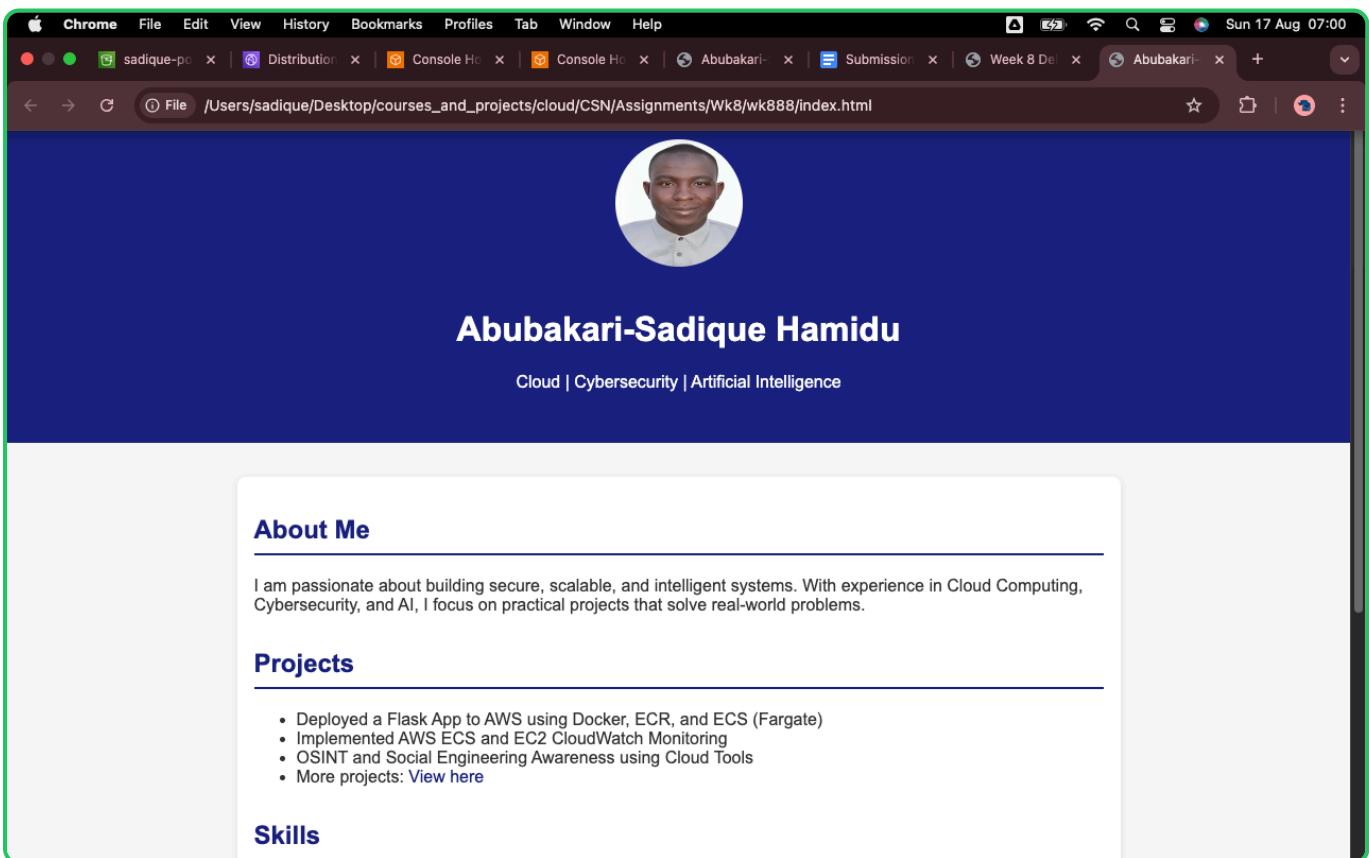
- Highly durable and scalable object storage for static websites.
- Cost-effective for hosting static content.
- Easy integration with other AWS services.
- Supports static website hosting directly with a website endpoint.

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.



The screenshot shows a Chrome browser window with multiple tabs open. The active tab displays a local file from the user's desktop. The website has a dark blue header with a circular profile picture of a man. Below the header, the name "Abubakari-Sadique Hamidu" is displayed in white text, followed by "Cloud | Cybersecurity | Artificial Intelligence". The main content area is white and contains three sections: "About Me", "Projects", and "Skills". The "About Me" section includes a short bio about building secure systems. The "Projects" section lists four items, with the last one being a link to "View here". The "Skills" section is currently empty.

About Me

I am passionate about building secure, scalable, and intelligent systems. With experience in Cloud Computing, Cybersecurity, and AI, I focus on practical projects that solve real-world problems.

Projects

- Deployed a Flask App to AWS using Docker, ECR, and ECS (Fargate)
- Implemented AWS ECS and EC2 CloudWatch Monitoring
- OSINT and Social Engineering Awareness using Cloud Tools
- More projects: [View here](#)

Skills

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.

The screenshot shows the AWS S3 console interface for configuring static website hosting. The URL in the browser is `eu-north-1.console.aws.amazon.com/s3/bucket/sadique-portfolio/property/website/edit?region=eu-north-1&bucketType=general`. The page title is "Edit static website hosting". The main section is titled "Static website hosting" with the sub-instruction "Use this bucket to host a website or redirect requests." A link to "Learn more" is provided. Under "Static website hosting", the "Enable" radio button is selected. In the "Hosting type" section, the "Host a static website" radio button is selected, with a note: "Use the bucket endpoint as the web address." Another option, "Redirect requests for an object", is also listed with its own note: "Redirect requests to another bucket or domain." A callout box highlights a note: "For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#)". Below this, there are fields for "Index document" (set to "index.html") and "Error document - optional" (set to "error.html"). At the bottom, there are links for "CloudShell", "Feedback", "© 2025, Amazon Web Services, Inc. or its affiliates.", "Privacy", "Terms", and "Cookie preferences".

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

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "PublicReadGetObject",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::sadique-portfolio/*"
    }
  ]
}
```

[Edit](#) [Delete](#)

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

[Edit Block Public A](#) Distributions | CloudWatch Metrics | Console Home | CloudWatch Metrics | Console Home | CloudWatch Metrics | Abubakari-Sadique | Week 8 Deliverable | +

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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.

The screenshot shows the AWS CloudFront Distributions page. At the top, there is a search bar and a navigation bar with tabs for CloudFront, Distributions, Console Home, and Abubakari-Sadique Hamidu. The main content area displays a table titled "Distributions (1) Info". The table has columns for ID, Status, Description, Type, Domain name, Alternate domain, Origins, and Last modified. One distribution is listed: E213U6NGED5JI, which is Enabled, hosting sites, Standard type, with domain d230c0x... and origins sadique-portfolio.s3-website.eu-north-1.amazonaws.com last modified on August 17, 2025.

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

The screenshot shows the AWS CloudFront Distribution details page for E213U6NGED5JI. The top navigation bar includes CloudShell, Feedback, and links to other AWS services like Lambda, CloudWatch, and S3. The main content area has tabs for General, Security, Origins (which is selected), Behaviors, Error pages, Invalidations, Tags, and Logging. Under the Origins tab, there is a section titled "Origins (1)". It shows a table with columns for Origin name, Origin domain, Origin path, and S3 static website. One origin is listed: sadique-portfolio.s3.eu-north-1.amazonaws.com-mefatxcmp9r with the domain sadique-portfolio.s3-website.eu-north-1.amazonaws.com. Below this is a section titled "Origin groups (0)" with a table for managing origin groups.

The screenshot shows the AWS CloudFront Behaviors configuration page for a distribution named "sadique-portfolio-hosting". The "Behaviors" tab is selected. A single behavior is listed:

Preced...	Path pattern	Origin or origin group	Viewer protocol policy	Cache policy name
0	Default (*)	sadique-portfolio.s3.eu-north-1.amazonaws.com-mefatxcmp9r	Redirect HTTP to HTTPS	Managed-CachingOpti

At the top right, there are buttons for "Save", "Move up", "Move down", "Edit", "Delete", and "Create behavior". A search bar at the top left contains the placeholder "Filter behaviors by property or value". The AWS navigation bar at the top includes tabs for General, Security, Origins, Behaviors, Error pages, Invalidations, Tags, and Logging.

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.

Abubakari-Sadique Hamidu

Cloud | Cybersecurity | Artificial Intelligence

About Me

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Skills

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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