**Project Title:** *Static Website Hosting on AWS with Terraform*

**Objective:**

To design, build, and deploy a globally accessible, static web page hosted on AWS using infrastructure as code (IaC) with Terraform.

**Solution Overview:**

This project leverages AWS S3 for website hosting, CloudFront for global content delivery, and Terraform to automate infrastructure creation. The site contains documentation about the project itself, demonstrating a practical application of AWS cloud services and DevOps principles.

**Technologies Used:**

* **AWS S3** – for object storage and website hosting.
* **AWS CloudFront** – for CDN and HTTPS delivery.
* **Terraform** – for infrastructure provisioning.
* **AWS IAM** – for access and security policy management.

**Best Practices Applied:**

* Infrastructure as Code (IaC) for reproducibility and automation.
* Public read-only policy for the HTML file only (no bucket listing).
* Global edge distribution using CloudFront for performance.
* Cleanly separated variables and outputs in Terraform.

**Enhancements Possible:**

* Add Route 53 for custom domain.
* Integrate CI/CD (GitHub Actions or CodePipeline).
* Enable versioning or logging for S3.