

## **Cloud Programming**

### **TASK 1: Host a simple webpage on AWS**

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## Conception Phase – Cloud Architecture

The goal is to design and launch a highly available and globally accessible website on AWS. It should have low latency for better user experience and autoscaling for higher availability and handling traffic.

For Storage Services, Amazon S3 will act as a simple storage service as:

- It is ideal for storing static website files (HTML, JavaScript etc),
- It is highly available, scalable and durable.

For content transmission, Amazon CloudFront is favorable as:

- It delivers both static and dynamic content,
- It reduces latency by caching data at edge locations worldwide there by speeding up access.

To access the Amazon S3 bucket, Origin Access Identity (OAI) is used as:

- It enables efficient caching,
- It has controlled access.

Also, with Terraform we can automate the deployment of the AWS infrastructure, making it easy to create, update or reproduce the CloudFront and S3 setup reliably.

