CodTech Internship Report

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Internship Task: 4 - Cloud Security Implementation

Date: 12 July 2025

Overview:

This task involved implementing security in cloud storage using IAM policies and encryption techniques.

Steps Performed:

1. IAM Policies:

   - Granted 'Storage Admin' role to the project member.

   - Ensured role-based access control using Google Cloud IAM.

2. Secure Storage:

   - Created a bucket with public access prevention.

   - Configured the access settings to be uniform and restricted.

3. Data Encryption:

   - Enabled Google Cloud KMS API.

   - Created a key ring and an encryption key using Cloud Shell.

   - Attempted to attach the encryption key to the storage bucket.

Screenshots have been attached in GitHub to show these implementations.

Conclusion:

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I successfully configured IAM roles, bucket security settings, and encryption keys to meet the task requirements.

This ensures confidentiality and controlled access to cloud-stored data.