## # Lab: Encrypting AWS Resources with KMS

## ## Objective

Enable encryption at rest for S3 and RDS using AWS KMS.

## ## Part A: Console Steps

- 1. Create a customer-managed KMS key
- 2. Enable default encryption on an S3 bucket
- 3. Launch an RDS instance with encryption using the KMS key
- 4. Store and rotate a secret with Secrets Manager

# ## Part B: Terraform Steps

- 1. Create KMS key and alias
- 2. Encrypt an S3 bucket using the KMS key
- 3. Launch encrypted RDS instance

### ## Validation

- Upload a file to encrypted bucket
- Connect to RDS and verify key usage in console