

# SCS-C01: AWS Certified Security Specialist, Part 5 of 6: Data Protection

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**Meet the expert:** Zeal works primarily as a Cloud Security Consultant guiding organizations to re-build their infrastructure with security in mind. Zeal also holds more than 13+ certifications ranging from RedHat Certified Architect to AWS Security.

**Prerequisites:** two years of hands-on experience securing AWS and 5 years or more in IT security experience designing and implementing security solutions.

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**Course description:** Amazon Web Services Certified Security Specialty is an exam intended to validate an individual's experience in a security role. This course covers Domain 5 Incident Response which counts for 22% of the exam.

## Course outline:

### Cryptography

- Introduction
- Cryptography
- Protocols
- Plain Text vs Encrypted Text Protocols -
- Disk Level Encryption
- Summary

### CloudHSM

- Introduction
- CloudHSM
- CloudHSM Pointers
- AWS KMS
- Demo: KMS
- KMS Architecture
- Summary

### Schedule Key Deletion

- Introduction
- Schedule Key Deletion
- Asymmetric Key Encryption
- Asymmetric Key with KMS
- Digital Signing with KMS
- Summary

### Data Key caching

- Introduction
- Data Key Caching
- AWS KMS - Key Deletion EBS Use-Case
- Unmanageable CMK
- KMS - Authentication and Access Control
- Summary

### KMS Policy Evaluation Logic

- Introduction
- KMS Policy Evaluation Logic - Use Case 01
- KMS Policy Evaluation Logic - Use Case Answer 01

- KMS Policy Evaluation Logic - Use Case 02
- KMS Policy Evaluation Logic - Use Case Answer 02
- KMS Policy Evaluation Logic - Use Case 03
- KMS Policy Evaluation Logic - Use Case Answer 03
- KMS Grants
- KMS Imported Key Material
- Summary

### S3 Encryption

- Introduction
- S3 Encryption
- Migrating KMS Encrypted Data Across Regions
- Multi-Region KMS
- Summary

### Benefits of CloudHSM over KMS

- Introduction
- Benefits of CloudHSM over KMS
- S3 Encryption
- Classic Load Balancer
- Load Balancer Types NE
- Summary

### Overview of Application Load Balancer

- Introduction
- Overview of ALB
- ALB - Path Based Routing
- ELB Access Logs
- Summary

### Understanding HTTPS connections

- Introduction
- HTTPS
- AWS Certificate Manager
- Demo: AWS Certificate Manager
- Summary

### Glacier Vault

- Introduction

- Glacier Vault
- DynamoDB Encryption Client
- AWS Secrets Manager
- Encrypted Context
- Summary

### DNS Cache Poisoning

- Introduction
- DNS Cache Poisoning
- DNS SEC Overview
- Demo: DNS SEC
- Summary