1 - Welcome To Course

- Course Prerequisites

Course prerequisites

- Completed the AWS Academy Cloud Foundations course or have equivalent experience
- Working knowledge of distributed systems
- Working knowledge of general networking concepts
- Working knowledge of multi-tier architectures
- Familiarity with cloud computing concepts

aws   4

- Course Objectives

Course objectives

After completing this course, you should be able to do the following:

- Identify security benefits and responsibilities of using the Amazon Web Services (AWS) Cloud.
- Use the identity and access management features of AWS.
- Describe how to secure network access to AWS resources.
- Explain the available methods for encrypting data at rest and data in transit.
- Determine which AWS services can be used for monitoring and incident response.

aws   5

After completing this course, you should be able to do the following:
- Identify security benefits and responsibilities of using the Amazon Web Services (AWS) Cloud.
- Use the identity and access management features of AWS.
- Describe how to secure network access to AWS resources.
- Explain the available methods for encrypting data at rest and data in transit.
- Determine which AWS services can be used for monitoring and incident response.

- Course Outline

Course outline

- Module 1: Welcome
- Module 2: Introduction to Security on AWS
- Module 3: Securing Access to Cloud Resources
- Module 4: Securing Your Infrastructure
- Module 5: Protecting Data in Your Application
- Module 6: Logging and Monitoring
- Module 7: Responding to and Managing an Incident
- Module 8: Bridging to Certification

To achieve the course objectives, the course consists of the modules that are listed on the slide.

- Course modalities

Course modalities

Slides	Labs
• All modules	• Module 3: Using Resource-Based Policies to Secure an S3 Bucket
Activities	• Module 4: Securing VPC Resources by Using Security Groups
• Module 1: AWS Documentation Scavenger Hunt	• Module 5: Encrypting Data at Rest by Using AWS KMS
• Module 2: Shared Responsibility Model	• Module 6: Monitoring and Alerting with CloudTrail and CloudWatch
• Module 6: Reading a Log File	• Module 7: Remediating an Incident by Using AWS Config and Lambda
Demonstrations	
• Module 3: Amazon S3 Cross-Account Resource-Based Policy	
• Module 6: Security Hub	

This course is presented by using a combination of slides, activities, demonstrations, and hands-on labs. Slides are the primary delivery method and are available for every module. The remaining modalities are distributed as shown on the slide.

- Recommended knowledge and experience:

Recommended knowledge and experience

- 5 years of IT security experience in designing and implementing security solutions
- 2 or more years of hands-on experience in securing AWS workloads
- Security-specific AWS knowledge

aws certified

Security

Specialty

12

Prior to attempting the AWS Certified Security – Specialty exam, we recommend that you have at least 5 years of IT security experience in designing and implementing security solutions, as well as 2 or more years of hands-on experience in securing AWS workloads.

- AWS documentation Scavenger Hunt:

AWS Documentation Scavenger Hunt

1. Where can you find a link to the *AWS CloudTrail User Guide*?
2. Where would you find information about managing accounts in the *AWS Security Hub User Guide*?
3. Which section of the website has quick start guides for security, identity, and compliance?
4. Where can you find links to learn how active AWS customers are using AWS within their organizations?
5. How might you navigate to the technical guide titled *AWS Security Incident Response Guide*?

https://docs.aws.amazon.com

15

Use the AWS documentation website at https://docs.aws.amazon.com to answer the following questions:
1. Where can you find a link to the *AWS CloudTrail User Guide*?
2. Where would you find information about managing accounts in the *AWS Security Hub User Guide*?
3. Which section of the website has quick start guides for security, identity, and compliance?
4. Where can you find links to learn how active AWS customers are using AWS within their organizations?
5. How might you navigate to the technical guide titled *AWS Security Incident Response Guide*?