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▼ Welcome and Overview

**Pre-Course Survey****Trends in Cloud Computing****Course Support****How to complete lab exercises****[Connect with AWS Academy and Educators](https://www.awsacademy.com/forums/s/)** [\(https://www.awsacademy.com/forums/s/\)](https://www.awsacademy.com/forums/s/)

▼ Module 1: Welcome to AWS Academy Cloud Security Foundations

**Student Guide****Course prerequisites and objectives****Course overview****AWS Certified Security – Specialty certification****Activity: AWS Documentation Scavenger Hunt**

▼ Module 2: Introduction to Security on AWS

**Student Guide****Security in the AWS Cloud****Security design principles**

	Shared responsibility model
	Activity: Shared Responsibility Model
	Module 2 Wrap-up Video
	Module 2 Knowledge Check 100 pts

▼ Module 3: Securing Access to Cloud Resources	
	Student Guide
	Introduction to Securing Access to Cloud Resources
	IAM fundamentals
	Authenticating with IAM
	Authorizing with IAM
	Examples of authorizing with IAM
	Demo: Amazon S3 Cross-Account Resource-Based Policy
	Additional authentication and access management services
	Using AWS Organizations
	Module 3 Wrap-up video
	Lab 3.1: Using Resource-Based Policies to Secure an S3 Bucket 100 pts
	Module 3 Knowledge Check 100 pts

▼ Module 4: Securing Your Infrastructure**Student Guide****Introduction to Securing Your Infrastructure****Structure of a three-tier web application****Using a VPC****Setting up public and private subnets and internet protocols****Using AWS security groups****Using AWS network ACLs****Using AWS load balancers****Pulling it all together****Protecting your compute resources****Module 4 Wrap-up video****Lab 4.1: Securing VPC Resources by Using Security Groups**

100 pts

**Module 4 Knowledge Check**

100 pts

▼ Module 5: Protecting Data in Your Application**Student Guide****Introduction to Protecting Data in Your Application****Protect data at rest**

	Amazon S3 protection features
	Protection through encryption
	Protect data in transit
	Best practices for protecting data in Amazon S3
	Additional data protection services
	Module 5 Wrap-up video
	Lab 5.1: Encrypting Data at Rest by Using AWS KMS 100 pts
	Module 5 Knowledge Check 100 pts

▼ Module 6: Logging and Monitoring	
	Student Guide
	Introduction to Logging and Monitoring
	Importance of logging and monitoring
	Capture and collect
	AWS services with built-in logs
	Monitor and report
	Best practices for logging and monitoring
	Additional AWS services for logging and monitoring
	Demo: Security Hub
	Module 6 Wrap-up video

**Lab 6.1: Monitoring and Alerting with CloudTrail and CloudWatch**

100 pts

**Module 6 Knowledge Check**

100 pts

▼ Module 7: Responding to and Managing an Incident**Student Guide****Introduction to Responding to and Managing an Incident****Identifying an incident****AWS services that support the discovery and recognition phase****AWS services that support the resolution and recovery phase****Best practices for handling an incident****Module 7 Wrap-up video****Lab 7.1: Remediating an Incident by Using AWS Config and Lambda**

100 pts

**Module 7 Knowledge Check**

100 pts

▼ Module 8: Bridging to Certification**Student Guide****Introduction to Bridging to Certification****Continuing on the AWS Academy Security learning path****AWS Documentation and frameworks**

**Module 8 Wrap-up video****▼ End of Course Assessment**

Complete all items

**Course Assessment**

100 pts Score at least 70.0

**▼ Feedback****End of Course Feedback Survey****▼ Course Resources****Course Resources****▼ Badges and Completion Certificates**

Prerequisites: End of Course Assessment



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