AWS Ramp-Up Guide: Security, Identity and Compliance

For AWS Cloud security, identity, and compliance professionals

This guide will help you learn about cloud security fundamentals and specialized aspects of security in the AWS Cloud. This guide also provides a learning path to obtaining the AWS Certified Security - Specialist certification. To provide suggestions on Ramp-Up Guides, please contact rampupguides@amazon.com.

Learn the fundamentals of the AWS Cloud

Learning Resource	Duration	Type
AWS Cloud Practitioner Essentials *or...*	6 hours	Digital Training
AWS Technical Essentials	4 hours	Digital Training
AWS Compute Services Overview	40 minutes	Digital Training
Building Your First Amazon Virtual Private Cloud (VPC)	1 hour 30 minutes	Lab
Introduction to AWS Lambda	45 minutes	Lab
Introduction to Amazon Simple Storage Service (S3)	1 hour 30 minutes	Lab

AWS Cloud Security Fundamentals

Learning Resource	Duration	Type
AWS Security Essentials	1 Day	Classroom Training
AWS Security Fundamentals (Second Edition)	2 hours	Digital Training

Identity and Access Management (IAM)

Learning Resource	Duration	Type
Introduction to AWS Identity and Access Management (IAM)	7 minutes	Digital Training
AWS Identity and Access Management - Architecture and Terminology	15 minutes	Digital Training
Introduction to AWS Organizations	6 minutes	Digital Training
Getting Started with AWS Control Tower	1 hour	Digital Training
Introduction to Amazon Cloud Directory	10 minutes	Digital Training
Introduction to AWS Security Token Services (STS)	20 minutes	Digital Training
Troubleshooting: AWS Identity and Access Management	1 hours	Digital Training
Introduction to AWS Identity and Access Management (IAM)	45 minutes	Lab
Rogue Permissions Challenge	2 hours	Lab

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Threat Detection and Incident Response

Learning Resource	Duration	Type
Getting Started with AWS Security Hub	1 hour	Digital Training
Getting Started with Amazon GuardDuty	1 hour	Digital Training
Introduction to Amazon Inspector	15 minutes	Digital Training
Getting Started with AWS CloudTrail	1 hour	Digital Training
Getting Started with Amazon Detective	1 hour	Digital Training
Threat Modeling the Right Way for Builders Workshop	3 hours	Digital Training
AWS Security Best Practices: Monitoring and Alerting	2 hours	Digital Training
Scale Your Security Vulnerability Testing with Amazon Inspector	2 hours 30 minutes	Lab

Data Protection

Learning Resource	Duration	Type
Introduction to Data Encryption	10 minutes	Digital Training
Introduction to Amazon Macie	10 minutes	Digital Training
Introduction to Amazon Certificate Manager Private Certificate Authority	15 minutes	Digital Training
Introduction to AWS Key Management Service	1 hour	Lab

Infrastructure Security

Learning Resource	Duration	Type
Protecting Your Instance with Security Groups	7 minutes	Digital Training
Differences Between Security Groups and NACLs	7 minutes	Digital Training
Getting Started with AWS Systems Manager	1 hour	Digital Training
AWS Networking Basics	2 hours	Digital Training
AWS Security Best Practices: Network Infrastructure	1 hour 30 minutes	Digital Training
AWS Security Best Practices: Computing	2 hours	Digital Training
Protect Your Web-facing Workloads with AWS Security Services	40 minutes	Digital Training
AWS Systems Manager	3 hours	Digital Training
Deep Dive on Container Security	30 minutes	Digital Training
Securing the Endpoint	1 hour 15 minutes	Lab
Controlling the Network	1 hour	Lab

Compliance

Learning Resource	Duration	Type
AWS Security Governance at Scale	1 Day	Classroom Training
Cloud Audit Academy - Cloud Agnostic	3 hours	Digital Training
Getting Started with AWS Config	1 hour 30 minutes	Digital Training
Getting Started with AWS Audit Manager	1 hour 30 minutes	Digital Training
Introduction to AWS Artifact	1 hour 10 minutes	Digital Training
Intro to Healthcare and Life Sciences Compliance on AWS	15 minutes	Digital Training
Security Governance at Scale – Technical	4 hours	Digital Training
Auditing Amazon Simple Storage Service (Amazon S3) Security	1 hour	Digital Training
Security Governance at Scale – Technical (Digital)	4 hours	Digital Training
Cloud Audit Academy FDW Interactive Modules	2 hours	Digital Training
Performing a Basic Audit of your AWS Environment	1 hour	Lab

Putting it all together

Learning Resource	Duration	Type
AWS Security Best Practices	1 Day	Classroom Training
AWS Security Engineering on AWS	3 Day	Classroom Training
AWS Cloud Quest: Security		Game-Based Learning
Exam Readiness: AWS Certified Security - Specialty	2 hours	Digital Training
AWS Certified Security - Specialty Official Practice Question Set (SCS-C02 - English)	1 hr	Digital Training

Explore additional resources

Learning Resource		Type
Threat Detection and Incident Response		
AWS Security Incident Response Guide		Technical Guide
Logging strategies for security incident response		Blog
Introducing Amazon Security Lake		Video
Threat Detection and Response with Amazon GuardDuty and Amazon Detective		Workshop

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Security Hub Workshop	Workshop
Unauthorized IAM Credential Use - Security Event Simulation and Detection	Workshop
Identity and Access Management (IAM)	
Become an IAM Policy Master in 60 Minutes or Less	Video
Simplify your existing workforce access with IAM Identity Center	Video
Using IAM Identity Center (successor to AWS Single Sign-On) to achieve strong identity management	Workshop
How and when to use different IAM policy types	Workshop
Data Protection	
Encryption On AWS - Tutorial	Workshop
Scaling your encryption at rest capabilities with AWS KMS	Workshop
AWS Secrets Manager Workshop	Workshop
Using Amazon Macie for data protection and governance	Video
Data Discovery and Classification with Amazon Macie	Workshop
AWS cryptographic services and tools	Documentation
Scaling your encryption at rest capabilities with AWS KMS	Workshop
Infrastructure Security	
AWS WAF Workshop	Workshop
Compliance	
Compliance Resources	Website
AWS Compliance Solutions Guide	Website
Amazon Web Services: Risk and compliance	Whitepaper
Management and Governance Cloud Environment Guide	Website
How to protect sensitive data for its entire lifecycle in AWS	Blog
Prepare for an Audit in AWS – AWS Audit Manager, AWS Config, and AWS Artifact	Blog
Additional Resources	
Top 10 security items to improve in your AWS account	Blog

For a training plan customized for your requirements,
contact your AWS Account Manager or contact us **here**

We would love to hear from you.
Provide your feedback on this AWS Ramp-Up Guide **here**

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