

AWS Certified Security Specialty



Online Course



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Course Modules

Threat Detection and Incident Response

1. Design and implement an incident response plan

- AWS best practices for incident response
- Cloud incidents
- Roles and responsibilities in the incident response plan
- AWS Security Finding Format (ASFF)

2. Detect security threats & anomalies by using AWS services

- AWS managed security services that detect threats
- Anomaly and correlation techniques to join data across services
- Visualizations to identify anomalies
- Strategies to centralize security findings

3. Respond to compromised resources and workloads

- AWS Security Incident Response Guide
- Resource isolation mechanisms
- Techniques for root cause analysis
- Data capture mechanisms
- Log analysis for event validation

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Security Logging and Monitoring

4.Design & implement monitor & alert to address security events

- AWS services that monitor events and provide alarms
- AWS services that automate alerting
- Tools that monitor metrics and baselines

5.Troubleshoot security monitoring and alerting

- Configuration of monitoring services (for example, Security etc.,)
- Relevant data that indicates security events

6.Design and implement a logging solution

- AWS services and features that provide logging capabilities
- Attributes of logging capabilities
- Log destinations and lifecycle management

7. Troubleshoot logging solutions

- Capabilities & use cases of AWS services provides data sources
- AWS services and features that provide logging capabilities
- Access permissions that are necessary for logging

8.Design a log analysis solution

- Services and tools to analyze captured logs
- Log analysis features of AWS services
- Log format and components (for example, CloudTrail logs)



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Infrastructure Security

9. Design and implement security controls for edge services

- Security features on edge services
- Common attacks, threats, and exploits
- Layered web application architecture

10. Design and implement network security controls

- VPC security mechanisms (security groups, network ACLs, etc.,)
- Inter-VPC connectivity (AWS Transit Gateway, VPC endpoints)
- Security telemetry sources (Traffic Mirroring, VPC Flow Logs)
- VPN technology, terminology, and usage
- On-premises connectivity options (AWS VPN, etc.)

11. Design & implement security ctrls for compute workloads

- Provisioning and maintenance of EC2 instances
- IAM instance roles and IAM service roles
- Services that scan for vulnerabilities in compute workloads
- Host-based security (for example, firewalls, hardening)

12. Troubleshoot network security

- How to analyze reachability
- Fundamental TCP/IP networking concepts
- How to read relevant log sources



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Identity and Access Management

13. Design, implement, and troubleshoot authentication

- Methods and services for creating and managing identities
- Long-term and temporary credentialing mechanisms
- How to troubleshoot authentication issues

14. Design, implement, and troubleshoot authorization

- Different IAM policies (managed policies, inline policies, etc)
- Components and impact of a policy (Principal, Action, etc.,)
- How to troubleshoot authorization issues Data Protection

15. Confidentiality and integrity for data in transit

- TLS concepts
- VPN concepts (for example, IPsec)
- Secure remote access methods (SSH, RDP)
- Systems Manager Session Manager concepts
- TLS cert work with various network services and resources

16. Confidentiality and integrity for data at rest

- Encryption technique selection (for example, client-side, etc.,)
- Integrity-checking techniques (hashing algorithms, etc.,)
- Resource policies (for DynamoDB, Amazon S3, etc.,)
- IAM roles and policies





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