



Complete Cloud Security Professional Training Course

22 - 26 Feb 2027
London



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Overview

Enterprise adoption of multi-cloud environments introduces intricate operational demands across identity architectures, distributed storage, and containerized workloads. The Complete Cloud Security Professional Training Course equips practitioners with the competencies required to design, govern, and secure cloud platforms against modern threat vectors. Participants analyze the six core domains of cloud security architecture, data protection lifecycle management, platform infrastructure hardening, and regulatory alignment. This programme is delivered by Agile Leaders Training Center.

Who Should Attend

- Cloud Security Specialists managing multi-tenant infrastructure and governance policies.
- IT Security Managers overseeing technical configurations and risk mitigation strategies.
- Information Security Officers responsible for enterprise cloud data security architectures.
- Systems Architects evaluating virtualization security and container orchestration platforms.
- Cloud Computing Specialists preparing for technical validation and industry leadership roles.

Departments and Industries

This programme serves technical and governance teams responsible for safeguarding distributed cloud workloads across regulated sectors.

- IT Security and Governance Units in Financial Services
- Cloud Infrastructure and Operations Divisions in Technology and SaaS
- Information Assurance Teams in Healthcare Systems
- Risk Management and Compliance Divisions in Retail and E-Commerce
- Technical Operations Units in Public Sector Organisations

Learning Objectives

By the end of this course, participants will be able to:

- Apply architectural patterns across multi-cloud service models and shared responsibility frameworks.
- Implement cryptographic controls and key management routines across the cloud data lifecycle.
- Secure virtualized environments, microservices, and container clusters using industry standards.
- Integrate security testing and vulnerability assessment into continuous software development workflows.
- Evaluate cloud service agreements, compliance frameworks, and independent audit reports.
- Manage cloud operational incident response, business continuity, and disaster recovery plans.

Course Agenda

Day 1: Cloud Architecture and Design Principles

- Cloud Service Models and Architectural Requirements across IaaS, PaaS, and SaaS
- Multi-Tenancy Architectures and Resource Sharing Isolation Techniques
- Shared Responsibility Matrix Assessment for Enterprise Cloud Deployment
- Infrastructure as Code Principles and Automated Baseline Configuration
- Cloud Security Concept Validation and Risk Boundary Definition
- Review of Cloud Architectural Foundations and Workload Design

Day 2: Cloud Data Security and Cryptographic Controls

- Cloud Data Lifecycle Phases from Creation to Secure Sanitization
- Symmetric and Asymmetric Encryption Application across Distributed Storage
- Data Access Controls and Role Assignment Protocols for Custodians and Users
- Data Loss Prevention Implementation and Cloud Storage Threat Mitigation
- Key Management Architecture and Hardware Security Module Integration
- Review of Cloud Data Protection Policies and Key Handling Methods

Day 3: Platform and Infrastructure Hardening

- Virtualization Security Controls and Hypervisor Hardening Protocols
- Container and Kubernetes Cluster Security Baseline Configuration
- Serverless Workload Protection and Microservices Defense Strategies
- Software-Defined Networking, Firewalls, and Dynamic Network Segmentation
- Cloud Infrastructure Security Monitoring and Log Telemetry Capture
- Review of Platform Defense and Incident Response Readiness



Day 4: Cloud Application Security and Lifecycle Integration

- Secure Software Development Practices for Cloud-Native Workloads
- OWASP Application Vulnerability Mitigation in Cloud Environments
- DevOps Security Automation and Pipeline Vulnerability Scanning
- Cloud Penetration Testing Methodologies and Scoping Boundaries
- Third-Party Software Assessment and Open-Source Risk Mitigation
- Review of Secure Application Lifecycle and Vulnerability Verification

Day 5: Risk Governance, Compliance, and Cloud Operations

- Data Privacy Standards, PII Protection, and Cross-Border Transfer Controls
- Risk Management Frameworks and Threat Modelling using ISO 31000 Principles
- Cloud Security Alliance and Industry Baseline Control Verification
- Cloud Audit Protocols, Independent Attestations, and Evidence Collection
- Vendor Contract Management, Service Level Agreements, and Disaster Recovery
- Review of Governance Policies, Regulatory Alignment, and Final Course Synthesis

Practical Exercises

Participants complete applied exercises to examine technical scenarios and build robust operational blueprints.

- Suggested activity: Construct a shared responsibility mapping matrix for enterprise SaaS and IaaS adoption.
- Suggested activity: Design an encryption key lifecycle management diagram for sensitive data storage.
- Suggested activity: Formulate an audit checklist for container runtime configurations and network policies.
- Suggested activity: Create a vendor assessment framework evaluating service level agreements and audit reports.

FAQs

What background knowledge is recommended before enrolling?

Participants benefit from practical familiarity with networking fundamentals, general IT security concepts, and basic cloud operations.

How does this training support technical preparation for industry credentials?

The curriculum reviews the six technical domains associated with cloud security architecture, data governance, and operational resilience, aligning directly with professional certification knowledge areas.



Does the agenda cover container and microservices security?

Yes, dedicated modules examine container cluster hardening, Kubernetes deployment configurations, and serverless application security techniques.

Conclusion

Completing this course provides technology professionals with practical capabilities to safeguard enterprise assets across modern cloud platforms. Participants leave ready to implement rigorous technical controls, manage shared operational responsibilities, and align distributed architectures with international security standards.



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