



Cloud Security Essentials Course: Building Resilient Cloud Infrastructure

19 – 23 October 2026
Jakarta

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Overview

Modern organizations migrating workloads to distributed platforms require robust defensive controls to counter misconfigurations, unauthorized access, and operational outages. The Cloud Security Essentials course establishes practical competencies across cloud computing security fundamentals, examining core architectural risks, system isolation, and defensive baselines. Participants analyse the shared responsibility model across infrastructure, platform, and software services to identify security ownership boundaries. Instruction addresses practical configuration management, network perimeter controls, and threat monitoring across hybrid and multi-cloud environments. This cloud security essentials training is delivered by Agile Leaders Training Center.

Who Should Attend

- IT security engineers defending cloud workloads and virtualized platforms.
- Cloud security analysts monitoring telemetry and incident alerts.
- System and network administrators managing access permissions and virtual networks.
- Compliance and risk professionals evaluating third-party service provider controls.
- IT managers overseeing technical migrations and infrastructure security operations.

Departments and Industries

This course supports technical infrastructure and defensive operations teams across diverse business sectors.

- IT and Cloud Infrastructure Teams in Banking and Financial Services
- Cybersecurity Operations Units in Healthcare and Pharmaceuticals
- Risk and Governance Teams in Telecommunications and Media
- Cloud Operations and Engineering Teams in Technology and Software Organizations
- Internal Audit and Security Divisions in Energy and Utilities

Learning Objectives

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

- Evaluate cloud computing security fundamentals and govern technical risk exposure.
- Apply identity and access management controls to enforce least privilege principles.
- Implement data protection and encryption across storage, transit, and runtime states.
- Assess cloud service provider architectures against international baseline standards.
- Conduct systematic threat assessments across network, host, and application layers.
- Establish cloud logging, monitoring, and automated cloud incident response workflows.

Course Agenda

Day 1: Foundations of Cloud Security

- Service Model Boundaries across Infrastructure, Platform, and Software Tiers
- Public, Private, Hybrid, and Multi-Cloud Architecture Considerations
- Shared Responsibility Model Mapping and Security Governance
- Threat Landscape Analysis and Common Cloud Vulnerability Classes
- Evaluating Cloud Adoption Trade-Offs and Architectural Dependencies
- Foundational Risk Assessment for Multi-Cloud Environments

Day 2: Identity, Access, and Infrastructure Security

- Identity and Access Management Architecture and Role-Based Permissions
- Federated Identity, Trust Boundaries, and Multi-Factor Enforcement
- Virtual Network Segmentation, Security Groups, and Traffic Filtering
- Host Hardening, Container Isolation, and Application Layer Defense
- Cloud Storage Protection and Secrets Management Lifecycle
- Endpoint Configuration and Device Posture Verification

Day 3: Data Protection and Governance Controls

- Data Classification Frameworks and Cloud Lifecycle Governance
- Cryptographic Techniques for Data at Rest, in Transit, and in Use
- Key Management Architectures and Hardware Security Modules
- Auditing Cloud Environments using Cloud Security Alliance Cloud Controls Matrix
- Information Privacy Controls Aligned with ISO/IEC 27017 Guidelines
- Continuous Compliance Monitoring and Automated Audit Telemetry

Day 4: Cloud Networking, Monitoring, and Incident Response

- Software-Defined Network Defense and Cloud Firewall Topologies
- Centralized Cloud Logging, Aggregation, and Security Analytics
- Threat Detection Engineering and Automated Event Triage
- Cloud Incident Response Workflows and Digital Forensics Procedures
- Vulnerability Scanning and Controlled Penetration Testing Methods
- Resilience Engineering, Snapshot Backup, and Disaster Recovery Procedures

Day 5: Cloud Security Strategy and Architecture Operations

- Security Management Framework Integration and Risk Registers
- Automated Infrastructure as Code Security and Pipeline Guardrails
- Multi-Cloud Security Orchestration and Policy Harmonization
- Mitigation Tactics for Emerging Cloud Attack Vectors
- Cloud Defense Roadmaps and Security Capability Maturity Measurement
- Operational Knowledge Integration and Technical Review

Practical Exercises

Participants apply technical concepts through structured analysis scenarios and operational checklists.

- Analyze a shared responsibility matrix across multi-cloud provider deployments.
- Construct least-privilege identity and access management permission policies.
- Formulate cryptographic key management workflows for sensitive data buckets.
- Develop an automated cloud incident response triage playbook for suspicious access events.

FAQs

What specific qualifications or prerequisites are needed for participants before enrolling in the course?

Participants do not need prior certifications, but a practical grounding in basic networking, operating systems, and foundational information security concepts will help maximize course benefits.

How long is each day's session, and is there a total number of hours required for the entire course?

Each daily session runs between four and five hours, incorporating technical instruction, case analysis, and practical review exercises. Total instructional time covers 20 to 25 hours across five days.

How does the Cloud Security Essentials course prepare participants for certification?

The curriculum aligns with recognized vendor-neutral bodies of knowledge such as the GIAC Cloud Security Essentials GCLD objectives and industry security frameworks, providing structured study concepts and technical analysis exercises to support independent exam readiness.

Conclusion

Organizations rely on secure architectural patterns to maintain operational resilience and data integrity in the cloud. By completing this program, participants gain the technical capabilities required to enforce strict access controls, protect data assets, monitor telemetry, and remediate security events across cloud environments.