



Advanced Cloud Security Architecture Course: Frameworks, Compliance & Best Practices

26 - 30 Oct 2026
Jakarta



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Course Overview:

This Cloud Security Architecture training course is designed to provide professionals with a complete, practical framework for building, managing, and future-proofing secure cloud environments. Leveraging industry methodologies such as the five phases of secure cloud architecture Foundation, Perimeter, Data Protection, Visibility, and Cloud Solutions, combined with modern practices from leading industry frameworks, the course delivers a step-by-step guide for designing secure cloud solutions across AWS, Azure, and Google Cloud.

Participants will explore secure cloud architecture design strategies, implement Zero Trust cloud security frameworks, and adopt NIST cloud security guidelines alongside CSA Cloud Controls Matrix training. Through case studies, labs, and architecture workshops, the course emphasizes multi-cloud security architecture, cloud data protection, and compliance-driven design.

By the end of this Cloud Security Architecture course, attendees will gain mastery in enterprise cloud security training, understanding how to mitigate risks, enforce governance, and build resilient architectures that protect sensitive applications and data across diverse cloud environments.

Target Audience:

- Cloud Security Architects
- Cybersecurity Consultants
- IT Infrastructure Managers
- DevOps & Cloud Engineers
- Compliance & Risk Managers
- Security Auditors

Targeted Organizational Departments:

- Information Security & Cybersecurity Divisions
- Cloud Infrastructure & Operations Teams
- Risk & Compliance Management Units
- DevOps & Application Development Departments
- IT Governance Committees
- Enterprise Architecture Offices

Departments benefit from Cloud Security Architecture training, NIST cloud security guidelines, and CSA Cloud Controls Matrix training to strengthen secure cloud architecture design.

Targeted Industries:

- Banking & Financial Services cloud data protection and compliance course
- Healthcare & Pharmaceuticals HIPAA & GDPR secure cloud architecture design
- Energy & Utilities secure critical infrastructure with multi-cloud security architecture
- Government & Public Sector NIST cloud security guidelines and Zero Trust adoption
- Telecommunications & Technology enterprise cloud security training for scalability

Course Offerings:

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

- Design secure cloud architecture aligned with Zero Trust cloud security frameworks.
- Apply NIST cloud security guidelines and CSA Cloud Controls Matrix training for compliance.
- Build multi-cloud security architecture across AWS, Azure, and Google Cloud.
- Protect sensitive workloads with cloud data protection and encryption strategies.
- Implement secure identity, network, and access control models.
- Enable enterprise cloud security training that supports scalability and resilience.
- Establish visibility, monitoring, and incident response strategies in cloud environments.
- Align secure cloud architecture design with business objectives and regulatory mandates.

Training Methodology:

This Cloud Security Architecture training uses an interactive methodology designed for corporate learning. The program blends theory with practical applications, ensuring participants gain measurable outcomes in secure cloud architecture design.

The methodology includes:

- **Case Studies** drawn from real-world multi-cloud deployments and Zero Trust implementations.
- **Workshops & Group Work** where participants design secure cloud architecture frameworks using NIST cloud security guidelines.
- **Interactive Sessions** exploring CSA Cloud Controls Matrix training and best practices in AWS, Azure, and GCP.
- **Threat Modeling Exercises** to apply Zero Trust cloud security framework principles in enterprise scenarios.
- **Feedback Sessions** to reflect on secure design decisions and identify architecture improvements.
- **Hands-On Labs** correcting “anti-patterns” and implementing proper designs across AWS, Azure, and Google Cloud.

This blended methodology ensures learners don’t just understand cloud security best practices, but can confidently apply them in enterprise cloud security training contexts.

Course Toolbox:

- Cloud Security Alliance CSA Cloud Controls Matrix CCM
- NIST Cloud Security Guidelines & Frameworks
- CIS Benchmarks for AWS, Azure, and GCP
- Zero Trust cloud security framework reference models
- Secure architecture templates for multi-cloud security architecture
- Checklists for cloud data protection and compliance course alignment
- Architecture diagrams and policy guardrails examples

Note: Tools are not provided physically; rather, participants receive insights and examples of tools relevant to Cloud Security Architecture training.

Course Agenda

Day 1: Foundations of Cloud Security Architecture

- **Topic 1:** Understanding Cloud Security Architecture & Shared Responsibility
- **Topic 2:** Applying NIST Cloud Security Guidelines to Enterprise Environments
- **Topic 3:** Zero Trust Cloud Security Framework Fundamentals
- **Topic 4:** CSA Cloud Controls Matrix Training for Governance and Compliance
- **Topic 5:** Secure Cloud Architecture Design for IaaS, PaaS, and SaaS
- **Topic 6:** Building Multi-Cloud Security Architecture Baselines AWS, Azure, GCP
- **Reflection & Review:** Reviewing foundational principles and aligning them with enterprise objectives

Day 2: Identity, Access, and Perimeter Security

- **Topic 1:** Cloud Identity and Access Management IAM – Roles, Groups, Policies
- **Topic 2:** Implementing Zero Trust Authentication & Conditional Access Guardrails
- **Topic 3:** Designing Secure Network Perimeters in Multi-Cloud Environments
- **Topic 4:** Hub-and-Spoke Network Design, Firewalls & Micro-Segmentation
- **Topic 5:** Managing Privileged Access and Non-Human Identities NHI
- **Topic 6:** Enterprise Policy Guardrails for Secure Cloud Architecture Course Deployments
- **Reflection & Review:** Identity, perimeter, and access lessons for secure enterprise adoption

Day 3: Data Protection & Compliance in the Cloud

- **Topic 1:** Cloud Data Protection and Compliance Course Principles GDPR, HIPAA, PCI-DSS
- **Topic 2:** Encryption Models, Key Management Services, and Secrets Handling
- **Topic 3:** Securing Cloud Storage Services and Data Lake Perimeters AWS, Azure, GCP
- **Topic 4:** Attribute-Based Access Control ABAC, Data Masking & Data Loss Prevention
- **Topic 5:** CSA Cloud Controls Matrix Training for Data Governance & Compliance
- **Topic 6:** Multi-Cloud Data Protection Strategies and Third-Party Solutions
- **Reflection & Review:** Building resilient and compliant data protection strategies



Day 4: Monitoring, Visibility & Incident Response

- **Topic 1:** Logging & Monitoring Cloud Activity CloudTrail, Azure Monitor, GCP Logging
- **Topic 2:** Centralized Security Operations for Multi-Cloud Security Architecture
- **Topic 3:** Threat Detection and Incident Response in Cloud Environments
- **Topic 4:** Leveraging SIEM and Cloud Security Posture Management CSPM
- **Topic 5:** Forensics, Threat Hunting, and Investigations in Cloud Security Incidents
- **Topic 6:** Continuous Compliance Monitoring and Reporting for Cloud Governance
- **Reflection & Review:** Strengthening enterprise security through cloud visibility and response

Day 5: Future-Ready Cloud Solutions & Architecture Integration

- **Topic 1:** Secure Cloud Migration Strategies and Cloud-Native Applications
- **Topic 2:** Integrating AI/ML Workloads and Functions as a Service into Secure Designs
- **Topic 3:** Designing for Business Continuity and Disaster Recovery in Multi-Cloud
- **Topic 4:** Emerging Trends: Confidential Computing & Quantum-Safe Security Models
- **Topic 5:** Implementing Secure-by-Design Principles for Cloud Applications
- **Topic 6:** Final Group Project – Cloud Security Architecture Mastery Implementation
- **Reflection & Review:** Consolidating skills and future-proofing enterprise cloud security

FAQ

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

A basic understanding of cloud computing and IT security is recommended. Prior exposure to AWS, Azure, or GCP will help but is not mandatory, as the course is structured to guide both intermediate and experienced professionals.

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

Each day's session is generally structured to last around 4–5 hours, with breaks and interactive activities included. The total course duration spans five days, approximately 20–25 hours of instruction.

How does Zero Trust differ from traditional cloud perimeter security?

Traditional perimeter security assumes a trusted internal network. Zero Trust cloud security frameworks enforce continuous authentication, least privilege, and verification of every request, even inside the network, making them essential for secure cloud architecture design.



How This Course is Different from Other Cloud Security Architecture Courses:

Unlike generic security programs, this Cloud Security Architecture training uniquely blends the Five-Phase Cloud Security Model with hands-on corrections of design anti-patterns. It ensures participants not only learn secure cloud architecture design but also practice fixing real-world mistakes across AWS, Azure, and GCP.

This course integrates Zero Trust cloud security frameworks, CSA Cloud Controls Matrix training, and NIST cloud security guidelines, delivering a holistic, compliance-aligned approach. By emphasizing multi-cloud security architecture, cloud data protection and compliance course strategies, and enterprise cloud security training, it prepares participants to tackle evolving risks such as AI workloads, shadow IT, and compliance automation.

The course stands out by offering practical insights, compliance-driven frameworks, and future-ready design practices, ensuring participants walk away with actionable skills to architect resilient, secure, and business-aligned cloud environments.



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