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Course Name

Cloud Security Engineer Course

Sector Name

Information Technology

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Cloud Security Engineer Course

Course Introduction

The Cloud Security Engineer Course is a hands-on program designed to provide cybersecurity professionals with the tools, frameworks, and technical expertise needed to design and secure cloud environments.

As organizations shift to hybrid and multi-cloud infrastructures, understanding cloud-specific risks, shared responsibility models, and security architectures is critical.

This course equips learners to confidently assess cloud vulnerabilities, implement strong security controls, and ensure compliance across major cloud platforms such as AWS, Microsoft Azure, and Google Cloud.

Participants will gain in-depth exposure to identity and access management, cloud architecture best practices, data protection, incident response, and compliance within cloud ecosystems—all through practical labs and real-world scenarios.

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Cloud Security Engineer Course

Target Audience

✓ Cloud Security Engineers

✓ Cloud Architects and Solution Designers

✓ IT Security Professionals and Analysts

✓ DevSecOps and Infrastructure Engineers

✓ Network Security Engineers

✓ Professionals transitioning to cloud-based roles

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Learning Objectives

- ✓ Understand cloud computing concepts, deployment models, and the shared responsibility model
- ✓ Design secure cloud architectures for IaaS, PaaS, and SaaS environments
- ✓ Implement robust identity and access management strategies in the cloud
- ✓ Secure cloud storage, databases, and workloads against internal and external threats
- ✓ Detect, respond to, and recover from cloud-specific incidents and breaches
- ✓ Apply compliance and governance best practices across multi-cloud environments
- ✓ Utilize security tools and dashboards native to AWS, Azure, and GCP

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Cloud Security Engineer Course

Course Outline

✓ DAY 01

Cloud Fundamentals and Architecture Security

- ✓ Cloud service and deployment models (IaaS, PaaS, SaaS, Public, Private, Hybrid)
- ✓ Shared responsibility model across platforms
- ✓ Understanding cloud attack surfaces and threats
- ✓ Cloud reference architectures
- ✓ Secure cloud design principles

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Course Outline

✓ Day 02

Identity, Access, and Infrastructure Security

- ✓ Identity and Access Management (IAM) fundamentals
- ✓ Role-based access control (RBAC) and policy enforcement
- ✓ Network segmentation and security groups
- ✓ Hardening virtual machines and containers
- ✓ Secure CI/CD pipelines and DevSecOps integration

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Course Outline

✓ Day 03

Cloud Data Security and Application Security

- ✓ Data lifecycle in the cloud and encryption mechanisms
- ✓ Key Management Services (KMS) across cloud providers
- ✓ Cloud database security best practices
- ✓ API security and web application firewalls (WAFs)
- ✓ Secure software development in the cloud

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Course Outline

✓ Day 04

Cloud Threat Detection, Response, and Incident Handling

- ✓ Monitoring and logging cloud activities (CloudTrail, CloudWatch, Azure Monitor)
- ✓ Security Information and Event Management (SIEM) integration
- ✓ Cloud incident response planning and playbooks
- ✓ Common cloud attacks and containment techniques
- ✓ Recovery and business continuity in the cloud

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Course Outline

✓ Day 05

Compliance, Risk Management, and Hands-On Labs

- ✓ Compliance standards (ISO 27017/27018, CSA, NIST, GDPR, HIPAA)
- ✓ Cloud Governance, Risk, and Compliance (GRC)
- ✓ Third-party and vendor risk in cloud environments
- ✓ Hands-on labs: Secure configuration, access policies, and encryption setup

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
July 26, 2027	July 30, 2027	5 days	4250.00 $	UAE , Dubai
Dec. 13, 2026	Dec. 17, 2026	5 days	4250.00 $	KSA , Riyadh
April 4, 2027	April 8, 2027	5 days	4250.00 $	KSA , Jeddah
June 7, 2027	June 11, 2027	5 days	4250.00 $	UAE , Dubai

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