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EC-Council Cloud Security Essentials

9 – 13 May 2027
Online

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PARTNER



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Introduction

The EC-Council Cloud Security Essentials course provides a comprehensive introduction to cloud security concepts and best practices. This program is designed to equip participants with the critical knowledge and skills required to secure cloud environments, identify and manage cloud security risks, and implement effective cloud security solutions. Covering topics such as cloud security basics, architecture, governance, compliance, and incident response, this course ensures participants can address modern cloud security challenges while protecting their organizations from cloud-based threats.

By completing this course, participants will be prepared to pursue the EC-Council Certified Cloud Security Engineer certification and excel in the field of cloud security. Whether you're new to the field or seeking to enhance your expertise, this course is a stepping stone to building a secure, compliant, and resilient cloud infrastructure.

Course Objectives

By the end of this course, participants will:

- Understand the cloud security definition and fundamental principles, including cloud security basics and key management practices.
- Identify and evaluate cloud security risks effectively.
- Implement cutting-edge cloud security solutions to safeguard cloud infrastructure and data.
- Ensure compliance with legal and regulatory requirements, addressing cloud security and compliance standards.
- Develop and execute robust incident response plans tailored for cloud security monitoring and disaster recovery.



Course Outlines

Day 1: Cloud Computing Fundamentals and Security Overview

- Introduction to Cloud Computing: What is cloud security? An overview of cloud computing models like IaaS, PaaS, and SaaS.
- Deployment Models: Public, private, hybrid, and community cloud models with a focus on cloud security benefits.
- Cloud Security Concepts: Overview of the shared responsibility model and cloud security statistics highlighting current challenges.
- Cloud Architecture and Security: Understanding cloud infrastructure components and strategies for securing them.
- Cloud Service Provider Selection: Evaluating the security capabilities of providers and managing vendor risks.
- Legal and Compliance Issues: Addressing standards like GDPR, HIPAA, and other cloud security certifications.

Day 2: Cloud Security Threats and Risk Management

- Common Cloud Security Threats: Exploring risks such as data breaches, account hijacking, and insider threats.
- Risk Management in the Cloud: Effective methodologies for assessing and managing cloud security risks.
- Cloud Security Posture Management CSPM: Continuous cloud security monitoring and security assessments.
- Data Security in the Cloud: Encryption best practices and key management strategies.
- Identity and Access Management IAM: Implementing MFA and other IAM best practices for certified cloud security professional readiness.

Day 3: Cloud Security Controls and Technologies

- Network Security in the Cloud: Utilizing VPNs, firewalls, and intrusion detection/prevention systems IDPS.
- Application Security in the Cloud: Implementing secure SDLC and web application firewalls WAFs.
- Endpoint Security in the Cloud: Leveraging endpoint detection and response EDR and device management tools.
- Cloud Security Automation: Integrating SOAR tools and automated compliance checks for ec council cloud security certification success.
- Securing Cloud Storage: Employing data lifecycle management techniques and storage encryption.



Day 4: Cloud Security Governance and Compliance

- Cloud Governance Frameworks: Establishing policies and defining roles for effective cloud security management.
- Compliance Management: Navigating legal and regulatory standards for cloud security and compliance.
- Security Policies and Procedures: Developing policies aligned with cloud security solutions and incident response.
- Third-Party Risk Management: Vendor assessments, monitoring, and handling contractual obligations.
- Continuous Improvement in Cloud Security: Using feedback loops and training to enhance the security posture.

Day 5: Incident Response and Disaster Recovery in the Cloud

- Cloud Incident Response Planning: Developing structured plans for incident detection and response.
- Incident Detection and Analysis: Employing root cause analysis and monitoring tools for real-time threat detection.
- Containment, Eradication, and Recovery: Practical strategies for limiting damage and recovering critical assets.
- Post-Incident Activities: Reporting findings and applying lessons learned to strengthen the cloud environment.
- Disaster Recovery Planning: Building business continuity and disaster recovery strategies with cloud-specific tools.

Why Attend this Course: Wins & Losses!

- Career Advancement: Obtain the EC-Council Certified Cloud Security Engineer credential, a globally recognized cloud security certification that validates your expertise.
- Comprehensive Skills: Master cloud security basics, gain practical experience in cloud security solutions, and learn about cloud security risks and mitigation strategies.
- Industry Recognition: Gain a competitive edge with certifications like ec council cloud security certification, which is highly valued among cloud security professional organizations.
- Future-Ready Training: Learn the latest in cloud security monitoring, automation, and compliance to stay ahead of evolving challenges.
- Proven Benefits: Understand the cloud security benefits of building a secure, compliant, and resilient infrastructure for your organization.

Conclusion

The EC-Council Cloud Security Essentials course is the ideal foundation for professionals seeking to excel in cloud security training and obtain the EC-Council Certified Cloud Security Engineer certification. This course provides you with actionable knowledge, addressing cloud security risks while showcasing the cloud security benefits of implementing robust security measures.



Earning cloud security certifications from EC-Council equips you with advanced skills to secure cloud environments and align with industry standards.

Whether you're aiming to enhance your career or strengthen your organization’s security posture, this course is an essential step towards becoming a certified cloud security professional and a leader in the dynamic field of cloud security.

