EC-Council Cloud Security Essentials

Amsterdam (Netherlands)

17 - 21 November 2025

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EC-Council Cloud Security Essentials

Introduction

The EC-Council Cloud Security Essentials course provides a comprehensive understanding of cloud security concepts and practices. This training is designed to equip participants with the necessary knowledge and skills to secure cloud environments, identify and manage risks, and implement robust security measures. It covers various aspects of cloud security, including cloud architecture, governance, compliance, and incident response. By the end of the course, participants will be prepared to address cloud security challenges and protect their organizations from cloud-based threats, making this course an excellent step towards obtaining the EC-Council Certified Cloud Security Engineer certification and excelling in the field of cloud security.

Course Objectives

- Understand the fundamental concepts of cloud security, including key definitions and the basics of cloud security management.
- Identify and assess cloud security risks effectively.
- Implement cloud security solutions to protect cloud infrastructure and data.
- Ensure compliance with relevant standards and regulations in a cloud environment.
- Develop and execute incident response plans for enhanced cloud security.

Course Outlines

Day 1: Cloud Computing Fundamentals and Security Overview

- Introduction to Cloud Computing: Understanding what cloud computing is and its benefits, along with an overview of cloud service models such as IaaS, PaaS, and SaaS.
- Deployment Models: Differences between public, private, hybrid, and community cloud models.
- Cloud Security Concepts: Essential principles of cloud security, including the shared responsibility model and cloud security definition.
- Cloud Architecture and Security: Infrastructure components of the cloud and strategies for securing them.
- Cloud Service Provider Selection: Assessing the security capabilities of service providers and vendor risk management.
- Legal and Compliance Issues: Data privacy laws and regulatory standards like GDPR and HIPAA.

Day 2: Cloud Security Threats and Risk Management

- Common Cloud Security Threats: Data breaches, account hijacking, insider threats, and other potential vulnerabilities.
- Risk Management in the Cloud: Risk assessment methodologies and threat modeling for cloud

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environments.
- Cloud Security Posture Management CSPM: Continuous cloud security monitoring and security assessments.
- Data Security in the Cloud: Encryption techniques and best practices for key management.
- Identity and Access Management IAM: IAM best practices, including multi-factor authentication MFA.

Day 3: Cloud Security Controls and Technologies

- Network Security in the Cloud: VPNs, firewalls, and intrusion detection/prevention systems IDPS.
- Application Security in the Cloud: Secure software development lifecycle SDLC and web application firewalls WAFs.
- Endpoint Security in the Cloud: Endpoint detection and response EDR and device management strategies.
- Cloud Security Automation: Using security orchestration, automation, and response SOAR tools and automated compliance checks.
- Securing Cloud Storage: Data lifecycle management and storage encryption.

Day 4: Cloud Security Governance and Compliance

- Cloud Governance Frameworks: Establishing governance policies and defining roles and responsibilities in cloud security.
- Compliance Management in the Cloud: Regulatory requirements for cloud services and maintaining audit trails.
- Security Policies and Procedures: Developing security policies and incident response planning.
- Third-Party Risk Management: Vendor assessment, monitoring, and contractual considerations.
- Continuous Improvement in Cloud Security: Implementing feedback loops and regular security training.

Day 5: Incident Response and Disaster Recovery in the Cloud

- Cloud Incident Response Planning: Developing effective incident response plans and defining team roles.
- Incident Detection and Analysis: Techniques for detecting incidents and performing root cause analysis.
- Containment, Eradication, and Recovery: Strategies for containing and recovering from incidents, including data recovery processes.
- Post-Incident Activities: Conducting lessons learned sessions and reporting to improve security posture.
- Disaster Recovery Planning for the Cloud: Business continuity planning and disaster recovery strategies and tools.

Conclusion

The EC-Council Cloud Security Essentials course is an ideal starting point for obtaining the EC-Council Certified Cloud Security Professional certification. With its comprehensive training on both foundational and advanced cloud security concepts, this course provides you with the skills needed to implement cloud security solutions effectively and address cloud security risks. Earning cloud security certifications from EC-Council equips you with valuable knowledge, enabling you to protect cloud environments and take advantage of the cloud security benefits offered by a secure and compliant infrastructure. Whether you're looking to strengthen your organization's cloud security posture or enhance your career as a certified cloud security expert, this course is a critical step toward achieving your goals.

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