

## EC-Council Cloud Security Essentials

*Amsterdam (Netherlands)*

*18 - 22 November 2024*

UK Training

# PARTNER



# EC-Council Cloud Security Essentials

Code: IT28 From: 18 - 22 November 2024 City: Amsterdam (Netherlands) Fees: 4700 Pound

## 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.

## Course Objectives

- Understand the fundamental concepts of cloud computing and cloud security.
- Identify and assess security risks associated with cloud environments.
- Implement effective security controls to protect cloud infrastructure and data.
- Ensure compliance with relevant standards and regulations in a cloud environment.
- Develop and execute incident response plans for cloud security incidents.

## Course Outlines

### Day 1

#### Cloud Computing Fundamentals and Security Overview

- Introduction to Cloud Computing
  - Cloud service models IaaS, PaaS, SaaS
  - Deployment models public, private, hybrid, community
- Cloud Security Concepts
  - Shared responsibility model
  - Key security principles
- Cloud Architecture and Security
  - Cloud infrastructure components
  - Securing cloud architecture
- Cloud Service Provider Selection
  - Evaluating security capabilities
  - Vendor risk management
- Legal and Compliance Issues



- Data privacy laws
- Compliance standards GDPR, HIPAA, etc.

## Day 2

### Cloud Security Threats and Risk Management

- Common Cloud Security Threats
  - Data breaches
  - Account hijacking
  - Insider threats
- Risk Management in the Cloud
  - Risk assessment methodologies
  - Threat modeling for cloud environments
- Cloud Security Posture Management
  - Continuous monitoring
  - Security assessments and audits
- Data Security in the Cloud
  - Data encryption techniques
  - Key management practices
- Identity and Access Management IAM
  - IAM best practices
  - Implementing multi-factor authentication MFA

## Day 3

### Cloud Security Controls and Technologies

- Network Security in the Cloud
  - Virtual private networks VPNs
  - Firewalls and intrusion detection/prevention systems IDPS
- Application Security in the Cloud
  - Secure software development lifecycle SDLC
  - Web application firewalls WAFs
- Endpoint Security in the Cloud
  - Endpoint detection and response EDR
  - Device management strategies
- Cloud Security Automation
  - Security orchestration, automation, and response SOAR
  - Automated compliance checks
- Securing Cloud Storage
  - Data lifecycle management
  - Storage Encryption

## Day 4

### Cloud Security Governance and Compliance

- Cloud Governance Frameworks



- Establishing governance policies
- Roles and responsibilities in cloud security
- Compliance Management in the Cloud
  - Regulatory requirements for cloud services
  - Maintaining audit trails and logs
- Security Policies and Procedures
  - Developing security policies
  - Incident response planning
- Third-Party Risk Management
  - Vendor assessment and monitoring
  - Contractual considerations
- Continuous Improvement in Cloud Security
  - Implementing feedback loops
  - Regular security training and awareness

## Day 5

### Incident Response and Disaster Recovery in the Cloud

- Cloud Incident Response Planning
  - Developing an incident response plan
  - Incident response team roles and responsibilities
- Incident Detection and Analysis
  - Identifying and triaging incidents
  - Root cause analysis
- Containment, Eradication, and Recovery
  - Containment strategies
  - Data recovery processes
- Post-Incident Activities
  - Lessons learned and reporting
  - Improving security posture
- Disaster Recovery Planning for the Cloud
  - Business continuity planning
  - Disaster recovery strategies and tools



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