

Cloud Security (CCPE)

Course Duration : 24 Hours

Course code : CCPE-CLOUD

1. Course Overview

The **Cloud Security (CCPE)** course provides advanced knowledge of securing cloud infrastructures and workloads. This course focuses on identifying cloud security risks, implementing strong security controls, and performing cloud penetration testing using ethical hacking methodologies aligned with Check Point security practices.

2. What you'll learn?

- Cloud security architecture and shared responsibility model
- Securing cloud networks and workloads
- Identity and access management in the cloud
- Cloud threat detection and prevention
- Cloud penetration testing techniques
- Cloud security best practices and compliance

3. Target Audience

- Cloud security engineers
- Penetration testers
- Cybersecurity professionals
- Cloud architects
- IT security consultants

4. Pre-Requisites

- Knowledge of cloud platforms (AWS, Azure, GCP)
- Understanding of networking and security concepts
- Familiarity with ethical hacking fundamentals

5. Course Content (Modules)

Module 1: Cloud Security Fundamentals

- Cloud models and services
- Shared responsibility model

Module 2: Cloud Infrastructure Security

- Network segmentation
- Securing virtual machines and workloads

Module 3: Identity and Access Management (IAM)

- Access controls
- Privilege management

Module 4: Cloud Threats and Attacks

- Common cloud attack techniques
- Misconfigurations and exploits

Module 5: Cloud Penetration Testing

- Cloud-specific testing methodologies
- Ethical testing tools

Module 6: Monitoring, Compliance, and Defense

- Logging and monitoring
- Compliance and best practices