Check Point Security Engineering R81.10 (CCSE)

Check Point

Live Training (também disponível em presencial)

- **Localidade:** Lisboa
- **Data:** 18 Jul 2022
- **Preço:** 2030 € (Os valores apresentados não incluem IVA. Oferta de IVA a particulares e estudantes.)
- **Horário:** Laboral das das 9h00 às 17h00
- **Nível:** Avançado
- **Duração:** 21h

Sobre o curso

Learn advanced concepts and develop skills necessary to design, deploy, and upgrade Check Point Security environments.

Advanced three-day course teaches how to build, modify, deploy and troubleshoot the R81.10 Check Point Security Systems on the GAiA operating system. Hands-on lab exercises teach how to debug firewall processes, optimize VPN performance and upgrade Management Servers.

Learn How To:

- Backup your R81.1 Security Gateway and Management Server
- Build, test and troubleshoot a clustered Security Gateway
- Upgrade and troubleshoot a Management Server
- Configure and maintain security acceleration solutions
- Manage, test and optimize corporate VPN tunnels

How You Will Benefit:

- Build, test and troubleshoot numerous deployment scenarios
- Apply insider tips troubleshooting Check Point Security Systems
- Practice advanced upgrading techniques
- Migrate to a clustering security solution
- Create events for compliance reporting

- Manage internal and external access to corporate resources

Destinatários

Technical Professionals who architect, upgrade, maintain, and support Check Point products.

Objetivos

- Provide an overview of the upgrade service and options available.
- Explain how to perform management upgrade and migration.
- Articulate the process using CPUSE features.
- Articulate the purpose and function of Management HighAvailability.
- Explain Primary vs Secondary, Active vs Standby and Synchronization.
- Explain disaster recovery steps in case the primary management server becomes unavailable.
- Provide overview of Central Deployment in SmartConsole.
- Articulate an understanding of Security Gateway cluster upgrade methods.
- Explain about Multi Version Cluster (MVC) upgrades.
- Discuss Gaia Commands and how they are used.
- Explain the main processes on s and s.
- Describe how to work with scripts and SmartTasks to configure automatic actions.
- Explain the Management Data Plane Separation (MDPS)
- Explain kernel operations and traffic flow
- Articulate Dynamic and Updatable Objects in Security Gateways
- Explain the policy installation flow and files used.
- Describe the use of policy installation history.
- Explain concurrent and accelerated install policy.
- Describe an overview of APIs and ways to use and authenticate.
- Explain how to make changes in GAIA and management configuration.
- Explain how to install policy using API.
- Explain how the SecureXL acceleration technology enhances and optimizes Security Gateway performance.
- Describe how the CoreXL acceleration technology enhances and improves Security Gateway performance.
- Articulate how utilizing multiple traffic queues can make traffic handling more efficient.
- Discuss Site-to-Site VPN basics, deployment and communities.
- Describe how to analyze and interpret VPN tunnel traffic.
- Explain Link Selection and ISP Redundancy options.
- Explain tunnel management features.

- Discuss Check Point Remote Access solutions and how they differ from each other.
- Describe how client security can be provided by Remote Access .
- Explain authentication methods including machine authentication.
- Explain Multiple Entry Point (MEP).
- Discuss the Mobile Access Software Blade and how it secures communication and data exchange during remote connections.
- Describe Mobile Access deployment options.
- Discuss various features in Mobile Access like Portals, Link Translation, running Native Applications, Reverse Proxy and more.
- Explain basic concepts of Clustering and ClusterXL.
- Explain about Cluster Control Protocol (CCP) and synchronization.
- Describe advanced ClusterXL functions and modes like Load Sharing Active-Active, VMAC mode etc.
- Discuss Cluster Correction Layer (CCL) to provide connection stickyness.
- Advanced Logs and Monitoring
- Explain how to determine if the configuration is compliant with the best practices.
- Explain how to set action items to meet the compliance.
- Discuss how SmartEvent functions to identify critical security issues.
- Describe the components of SmartEvent and their deployment options.
- Discuss how SmartEvent can assist in reporting security threats.
- Explain how to customize event definitions and set an Event Policy

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Pré-requisitos

- CCSA Training or Certification, fundamental Unix and Windows knowledge, certificate management experience, system administration and networking knowledge.

Metodologia

- Sessões teóricas e práticas

Programa

COURSE TOPICS

- Management Upgrade and Migration
- Management High Availability
- Security Gateway Upgrades

- Advanced Check Point Maintenance
- Security Gateway Operations
- Policy Installation
- Gaia and Management APIs
- Acceleration
- Site-to-Site VPN
- Remote Access VPN
- Mobile Access VPN
- Clustering
- Advanced Logs and Monitoring

LAB EXERCISES

- Prepare for a Security Management Server Upgrade
- Upgrade the Security Management Server
- Deploy a Secondary Security Management Server
- Configure a Distributed Log Server
- Upgrade a Security Gateway from SmartConsole
- Work with the Command Line
- Use Scripts and SmartTasks
- Configure Dynamic Objects
- Monitor Traffic
- Verify Policy Installation and Status
- Work with Gaia and Management APIs
- Work with Acceleration Features
- Configure a Locally Managed Site to Site VPN
- Configure a Site to Site VPN with an Interoperable Device
- Configure Remote Access VPN
- Configure Mobile Access VPN
- Configure a High Availability Cluster
- Work with ClusterXL
- Configure Policy Compliance
- Deploy SmartEvent