



## Check Point Security Engineering and Troubleshooting Expert R81.10 (CCSE+CCTE)

Check Point

- **Nível:**
  - **Duração:** 35h
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### Sobre o curso

This 5-day course combines the [Check Point Security Engineering \(CCSE\)](#) and the [Check Point Troubleshooting Expert \(CCTE\)](#) courses.

This course :

- teaches how to build, modify, deploy and troubleshoot Check Point Security Systems on the GAIa operating system. The Hands-on lab exercises teach how to debug firewall processes, optimize VPN performance and upgrade Management Servers.
  - provides advanced troubleshooting skills to investigate and resolve more complex issues that may occur while managing your Check Point security environment.
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### Destinatários

- Expert users and resellers who need to perform advanced deployment configurations of Check Point Software Blades.
  - Security experts and Check Point resellers who desire to obtain the necessary knowledge required to perform more advanced troubleshooting skills while managing their security environments.
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### Pré-requisitos

- CCSA training/certification
- Working knowledge of Windows, UNIX, networking, TCP/IP, and the Internet

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## Metodologia

- Sessões teóricas e práticas.
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## Programa

### **COURSE TOPICS ENGINEERING**

- 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

### **COURSE TOPICS ADVANCED TROUBLESHOOTING**

- Advanced Troubleshooting Techniques
- Advanced Logs and and Monitoring
- Management Database and Processes
- Advanced Kernel Debugging
- User Mode Troubleshooting
- Advanced Identity Awareness Troubleshooting
- Advanced Access Control
- Site-to-Site VPN Troubleshooting
- Client-to-Site VPN Troubleshooting

### **LAB EXERCISES ENGINEERING**

- 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

## **LAB EXERCICES – ADVANCED TROUBLESHOOTING**

- Collecting and Reading CPInfo
- Collecting and Reading CPView Data
- Troubleshooting SmartLog
- Troubleshooting SmartEvent
- Troubleshooting Database Issues
- Debugging Security Gateway Kernel
- Debugging User Mode Processes
- Debugging Identity Awareness
- Debugging Unified Policy Inspection
- Troubleshooting Site-to-Site VPN
- Debugging Remote Access VPN