

# **Enterprise Computing Solutions - Education Services**

# **TRAINING OFFERING**

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# Check Point Certified Security Expert (CCSE) & Troubleshooting Expert (CCTE) Bundle R81.20 (includes 180 days lab access)

CODE: LENGTH: PRICE:

CKT CCSECCTE R81.20 40 Hours (5 days) CHf3,300.00

# **Description**

This bundle course covers the following two Check Point training courses:

- Check Point Certified Security Expert (CCSE) R81.20 (3 days)
- Check Point Certified Troubleshooting Expert (CCTE) R81.20 (2 days)

The CCSE R81.20 part of the course covers the fundamentals needed to deploy, configure, and manage daily operations of Check Point Security Gateways and Management Software Blades that run on the Gaia operating system.

The CCTE R81.20 part of the course provides advanced troubleshooting skills to investigate and resolve more complex issues that may occur while managing your Check Point security environment.

# **Objectives**

#### **CCSE R81.20**

- Identify basic interfaces used to manage the Check Point environment.
- Identify the types of technologies that Check Point supports for automation.
- Explain the purpose of the Check Management High Availability (HA) deployment.
- Identify the workflow followed to deploy a Primary and solution Secondary servers.
- Explain the basic concepts of Clustering and ClusterXL, including protocols, synchronization, connection stickyness.
- Identify how to exclude services from synchronizing or delaying synchronization.
- Explain the policy installation flow.
- Explain the purpose of dynamic objects, updatable objects, and network feeds.
- Understand how to manage user access for internal and external users.
- Describe the Identity Awareness components and configurations.
- Describe different Check Point Threat Prevention solutions.
- Articulate how the Intrusion Prevention System is configured.
- Obtain knowledge about Check Point's IoT Protect.
- Explain the purpose of Domain-based VPNs.
- Describe situations where externally managed certificate authentication is used.
- Describe how client security can be provided by Remote Access.
- Discuss the Mobile Access Software Blade.
- Explain how to determine if the configuration is compliant with the best practices.
- Define performance tuning solutions and basic configuration workflow.
- Identify supported upgrade and migration methods and procedures for Security Management Servers and dedicated Log and SmartEvent Servers.
- Identify supported upgrade methods and procedures for Security Gateways.

## **CCTE R81.20**

- Identify and use Linux-based and Check Point commands and tools for system monitoring, file editing, and file viewing.
- Identify and use the appropriate troubleshooting and debug commands/tools to resolve advanced Management Server and API Server issues.
- Investigate and troubleshoot traffic or security-related issues using logs and events monitoring tools.
- Identify and use the appropriate troubleshooting and debug commands/tools to resolve advanced Security Gateway issues.
- Demonstrate an understanding of advanced troubleshooting tools and techniques for kernel debugging.
- Identify and use the appropriate troubleshooting and debug commands/tools to resolve advanced Access Control issues.
- Identify and use the appropriate troubleshooting and debug commands/tools to resolve advanced Identity Awareness issues.

- Identify and use the appropriate troubleshooting and debug commands/tools to resolve advanced Site-to-Site VPN Troubleshooting issues.
- Identify and use the appropriate troubleshooting and debug commands/tools to resolve advanced Client-to-Site VPN
  Troubleshooting issues.

#### **Audience**

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

# **Prerequisites**

- Working knowledge of UNIX and/or Windows operating systems,
- · Working knowledge of Networking,
- TCP/IP, z,
- · CCSE training/certification,
- Advanced knowledge of Check Point Security Products.

# **Programme**

#### Topics:

#### **CCSE R81.20**

- · Advanced Deployments
- Management High Availability
- Advanced Gateway Deployment
- Advanced Policy Configuration
- Advanced User Access Management
- Custom Threat Protection
- Advanced Site-to-Site VPN
- Remote Access VPN
- Mobile Access VPN
- Advanced Security Monitoring
- Performance Tuning
- · Advanced Security Maintenance

## **CCTE R81.20**

- Introduction to Advanced Troubleshooting
- Advanced Management Server Troubleshooting
- Advanced Troubleshooting with Logs and Events
- · Advanced Gateway Troubleshooting
- Advanced Firewall Kernel Debugging
- Advanced Access Control Troubleshooting
- Advanced Identity Awareness Troubleshooting
- Advanced Site-to-Site VPN Troubleshooting
- Advanced Client-to-Site VPN Troubleshooting

#### Exercises:

#### **CCSE R81.20**

- Navigating the Environment and Using the Management API
- Deploying Secondary Security Management Server
- · Configuring a Dedicated Log Server
- Deploying SmartEvent
- · Configuring a High Availability Security Gateway Cluster
- · Working with ClusterXL
- Configuring Dynamic and Updateable Objects
- Verifying Accelerated Policy Installation and Monitoring Status
- Elevating Security with HTTPS Inspection
- Deploying Identity Awareness

- Customizing Threat Prevention
- Configuring a Site-to-Site VPN with an Interoperable Device
- Deploying Remote Access VPN
- Configuring Mobile Access VPN
- Monitoring Policy Compliance
- Reporting SmartEvent Statistics
- Tuning Security Gateway Performance

#### **CCTE R81.20**

- Collect and read live and historical CPView data.
- Troubleshoot CPM and SmartConsole login issues.
- Restore a Management High Availability environment from a temporary Primary Down condition.
- Troubleshoot SmartLog processes.
- Collect and interpret user mode debugs.
- Collect and interpret kernel debugs.
- Debug Unified Policy Inspection in kernel to understand match process.
- Debug the Identity Awareness user mode processes.
- Collect and interpret Site-to-Site VPN Debugs.
- Collect and interpret Remote Access VPN Debugs.

#### Follow on courses

Follow on training:

Attend two Infinity Specialization courses and pass their exams to automatically become a Check Point Certified Security Master (CCSM).

Attend four Infinity Specialization courses and pass their exams to automatically become a Check Point Certified Security Master Elite (CCSM Elite).

- Check Point Certified Endpoint Specialist (CCES)
- Check Point Certified Troubleshooting Administrator (CCTA)
- Check Point Certified Automation Specialist (CCAS)
- Check Point Certified Cloud Specialist (CCCS)
- Check Point Certified MDSM Specialist (CCMS)
- Check Point Certified VSX Specialist (CCVS)
- Check Point Certified Maestro Expert (CCME)
- Check Point Certified Cloud Network Security Expert for AWS (CNSE-AWS)
- Check Point Certified Cloud Network Security Expert for Azure (CNSE-AZURE)

#### **Test and Certification**

Prepare for exams #156-315.81.20 (CCSE R81.20) and #156.587 (CCTE R81.20) at <a href="https://www.VUE.com/checkpoint">www.VUE.com/checkpoint</a>

#### **Session Dates**

Auf Anfrage. Bitte kontaktieren Sie uns

#### Zusätzliche Information

Diese Schulung ist auch als Vor-Ort-Schulung verfügbar. Bitte kontaktieren Sie uns, um mehr zu erfahren.