

Check Point Certified Security Expert R82 (CCSE)

Duration: 3 Days Course Code: CCSE Version: R82

Overview:

This course provides students with the advanced knowledge, skills, and hands-on experience needed to deploy, manage, and monitor existing Quantum Security Environments. Students will learn how to deploy Management High Availability, provide advanced policy management, configure Site-to-Site VPN, provide advanced security monitoring, upgrade a Security Gateway, use Central Deployment tool to install hotfixes, perform an import of a Primary Security Management Server, and Deploy ElasticXL Cluster.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

- Security Engineers
- Security Analysts
- Security Consultants
- Security Architects

Objectives:

- By the end of this course, participants will be able to:
- Understand and implement high availability, clustering, and failover solutions for secure and resilient network environments.
- Configure and manage advanced security policies, including dynamic objects, NAT, and management behind NAT.
- Deploy, configure, and troubleshoot Site-to-Site VPN connections with secure authentication and tunnel management.
- Monitor, analyze, and report on security events, compliance, and threat patterns using advanced monitoring tools.
- Perform system upgrades, migrations, and database import/export procedures in distributed Check Point environments.
- Deploy and manage ElasticXL clusters to ensure scalable and high-performance gateway security.

Prerequisites:

Base Knowledge

- Unix-like and/or Windows OS
- Internet Fundamentals
- Networking Fundamentals
- Networking Security
- System Administration
- TCP/IP Networking
- Text Editors in Unix-like OS
- Minimum of 6-months of practical experience with the management of a Quantum Security Environment

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Testing and Certification

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- Check Point Certified Security Administrator (required)
 - Check Point Deployment Administrator (suggested)
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Content:

Module 1: Management High Availability

- Explain the purpose of Management High Availability.
- Identify the essential elements of Management High Availability.

Lab Tasks

- Deploy and configure Management High Availability
- Ensure the failover process functions as expected
- Use Updatable Objects
- Configure Network Address Translation for server and network objects
- Configure Management behind NAT for Branch Office connections
- Configure a SmartEvent Server to monitor relevant patterns and events
- Demonstrate how to configure Events and Alerts in SmartEvent
- Demonstrate how to run specific SmartEvent reports
- Activate the Compliance Blade
- Demonstrate Security Best Practice settings and alerts
- Demonstrate Regulatory Requirements Compliance Scores
- Deploy an ElasticXL Security Gateway Cluste

Module 2: Advanced Policy Management

- Identify ways to enhance the Security Policy with more object types.
- Create dynamic objects to make policy updatable from the Gateway.
- Manually define NAT rules.
- Configure Security Management behind NAT.

Lab Tasks

- Deploy and configure Management High Availability
- Ensure the failover process functions as expected
- Use Updatable Objects
- Configure Network Address Translation for server and network objects
- Configure Management behind NAT for Branch Office connections
- Configure a SmartEvent Server to monitor relevant patterns and events
- Demonstrate how to configure Events and Alerts in SmartEvent
- Demonstrate how to run specific SmartEvent reports
- Activate the Compliance Blade
- Demonstrate Security Best Practice settings and alerts
- Demonstrate Regulatory Requirements

Lab Task:

- Configure Site-to-Site VPN with internally managed Security Gateways

Module 4: Advanced Security Monitoring

- Describe the SmartEvent and Compliance Blade solutions, including their purpose and use.

Lab Tasks

- Deploy and configure Management High Availability
- Ensure the failover process functions as expected
- Use Updatable Objects
- Configure Network Address Translation for server and network objects
- Configure Management behind NAT for Branch Office connections
- Configure a SmartEvent Server to monitor relevant patterns and events
- Demonstrate how to configure Events and Alerts in SmartEvent
- Demonstrate how to run specific SmartEvent reports
- Activate the Compliance Blade
- Demonstrate Security Best Practice settings and alerts
- Demonstrate Regulatory Requirements Compliance Scores
- Deploy an ElasticXL Security Gateway Cluste

Module 5: Upgrades

- Identify supported upgrade options.

Lab Task

- Upgrade a Security Gateway
- Use Central Deployment tool to install Hotfixes
- Prepare to perform an Advanced Upgrade with Database Migration on the Primary Security Management Server in a distributed environment
- Perform an import of a Primary Security Management Server in a distributed Check Point environment

Module 6: Advanced Upgrades and Migrations

- Export/import a Management Database.
- Upgrade a Security Management Server by freshly deploying the new release or using a new appliance.

Lab Task

- Upgrade a Security Gateway
- Use Central Deployment tool to install Hotfixes
- Prepare to perform an Advanced Upgrade with Database Migration on the Primary Security Management Server in a distributed environment
- Perform an import of a Primary Security Management Server in a distributed Check Point environment

Module 7: ElasticXL Cluster

- Describe the ElasticXL Cluster solution, including its purpose and use.

Lab Tasks

- Deploy and configure Management High Availability
- Ensure the failover process functions as expected
- Use Updatable Objects
- Configure Network Address Translation for server and network objects
- Configure Management behind NAT for Branch Office connections
- Configure a SmartEvent Server to monitor relevant patterns and events
- Demonstrate how to configure Events and Alerts in SmartEvent
- Demonstrate how to run specific SmartEvent reports
- Activate the Compliance Blade
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Compliance Scores

- Deploy an ElasticXL Security Gateway Cluste

Module 3: Site-to-Site VPN

- Discuss site-to-site VPN basics, deployment, and communities.
- Describe how to analyze and interpret VPN tunnel traffic.
- Articulate how pre-shared keys and certificates can be configured to authenticate with third-party and externally managed VPN Gateways.
- Explain Link Selection and ISP Redundancy options.
- Explain tunnel management features.

Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

training@globalknowledge.qa

www.globalknowledge.com/en-qa/

Global Knowledge, Qatar Financial Center, Burj Doha,Level 21, P.O.Box 27110, West Bay, Doha, Qatar