

## 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.

### 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

#### Check Point Courses

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

### Testing and Certification

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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.

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#### Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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