

Check Point Certified Security Expert R82 (CCSE)

Varighed: 3 Days Kursus Kode: CCSE Version: R82 Leveringsmetode: Virtuel deltagelse

Beskrivelse:

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.

Virtuel deltagelse

Et V&C Select kursus indholder nøjagtig det samme som et almindeligt kursus. Før kursusstart modtager man kursusmaterialet. Dernæst logger man på kurset via internettet og ser via sin pc den selvsamme præsentation som de øvrige deltagere, man kommunikerer via chat med underviseren og de øvrige deltagere på kurset. Denne uddannelsesmodel er både tids-og omkostningsbesparende og kan være et oplagt alternativ til almindelig klasseundervisning, hvis man f.eks. har et begrænset rejsebudget.

Målgruppe:

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

Agenda:

- 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.

Forudsætninger:

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

Test og certificering

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Check Point Courses

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

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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- Demonstrate Regulatory Requirements Compliance Scores
- Deploy an ElasticXL Security Gateway Cluste

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.

Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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