Check Point Certified Security Expert (CCSE) R82

Kód kurzu: CCSER

Tento kurz poskytuje účastníkům pokročilé znalosti, dovednosti a praktické zkušenosti potřebné k nasazení, správě a monitorování stávajících prostředí Quantum Security.

Pro koho je kurz určen

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

Co Vás naučíme

Účastníci se naučí nasadit vysokou dostupnost správy (Management High Availability), pokročilou správu bezpečnostních politik, konfiguraci Site-to-Site VPN, pokročilé monitorování bezpečnosti, aktualizaci Security Gateway, použití nástroje Central Deployment pro instalaci hotfixů, import primárního Security Management Serveru, nasazení clusteru ElasticXL.

Požadované vstupní znalosti

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)

Studijní materiály

Studijní materiál Check Point.

Osnova kurzu

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

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

- Use Updatable Objects
- Configure Network Address Translation for server and network objects
- Configure Management behind NAT for Branch Office connections

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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.

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

- 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

Module 5: Upgrades

- Identify supported upgrade options.

Lab Task

- Upgrade a Security Gateway
- Use Central Deployment tool to install Hotfixes

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

- 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 an ElasticXL Security Gateway Cluster

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