

Check Point Security Engineering

Code:	CCSE R77.30
Length:	3 days
URL:	View Online

Check Point Security Engineering (R77.30 GAIa) is an advanced course that provides you training on how to effectively build, modify, deploy, and troubleshoot Check Point Security systems on the GAIa OS. You will learn about firewall processes, user and kernel processing, and Stateful Inspection. Labs include configuring security gateways, implementing VPNs, and performing advanced troubleshooting tasks on the firewall.

Skills Gained

- Check Point firewall technology
- Troubleshooting Check Point firewall technology
- Advanced upgrading concepts and practices
- Clustering firewall, management concepts, and practices
- Software acceleration features
- Advanced VPN concepts and implementations
- Reporting tools, deployment options, and features

Who Can Benefit

This course is recommended for Systems Administrators, Network Engineers, Support Analysts and any other IT professional seeking CCSE certification.

Prerequisites

- Knowledge of network security
- An understanding of UNIX and Windows operating systems, certificate management, system administration, networking (TCP/IP)
- A Check Point Security Administration course or CCSA certification

Course Details

Course Outline

- Perform a backup of a Security Gateway and Management Server using your understanding of the differences between backups, snapshots and update-exports
- Upgrade and troubleshoot a Management Server using a database migration

- Upgrade and troubleshoot a clustered Security Gateway deployment
- Use knowledge of Security Gateway infrastructures, chain modules, packet flow and kernel tables to perform debugs on firewall processes
- Build, test, and troubleshoot a ClusterXL Load Sharing deployment on an enterprise network
- Build, test, and troubleshoot a ClusterXL High Availability deployment on an enterprise network
- Build, test, and troubleshoot a management HA deployment on an enterprise network
- Configure, maintain, and troubleshoot SecureXL and CoreXL
- acceleration solutions on the corporate network traffic to ensure noted performance enhancement
- Using an external user database (such as LDAP), configure User Directory to incorporate user information for authentication services on the network
- Manage internal and external user access to resources for remote access or across a VPN
- Troubleshoot user access issues found when implementing Identity Awareness
- Troubleshoot a site-to-site or certificate-based VPN on a corporate gateway using IKE View, VPN log files, and command-line debug tools
- Optimize VPN performance and availability by using link selection and multiple entry point solutions
- Manage and test corporate VPN tunnels to allow for greater monitoring and scalability with multiple tunnels defined in a community, including other VPN providers
- Create events (or use existing event definitions) to generate reports on specific network traffic using SmartReporter and SmartEvent to provide industry-compliance information to management
- Troubleshoot report generation given command-line tools and debug-file information

Hands On Labs

- Lab 1: Upgrade to Check Point R77
- Lab 2: Core CLI elements of firewall administration Lab 3: Migrate to a clustering solution
- Lab 4: Configure SmartDashboard to interface with Active Directory Lab 5: Configure site-to-site VPNS with third-party certificates
- Lab 6: Remote access with Endpoint Security VPN Lab 7: SmartEvent and SmartReporter
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