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## Check Point Security Expert R77 [CCSE]

### Validate your skills on the GAIa operating system

Check Point Security Engineering is an advanced course that teaches how to effectively build, modify, deploy and troubleshoot Check Point Security systems on the Gaia OS. We will study firewall processes and take a close look at user and kernel processing and Stateful Inspection. Labs include configuring security gateways, implementing VPNs, and performing advanced troubleshooting tasks on the firewall.

### WHO SHOULD ATTEND?

This course is designed for expert users and resellers who need to perform advanced deployment configurations of a security gateway. This could include the following:

- System Administrators
- Support Analysts
- Network Engineers
- Anyone seeking CCSE certification

### Contents

#### COURSE OBJECTIVES INCLUDE

- 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 ManagementServer 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 certificatebased 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 debugfile information