



## Check Point Certified Security Expert (CCSE) R77 :

The Check Point Security Engineering course provides an understanding of upgrading and advanced configuration of Check Point software blades, installing and managing VPNs (on both internal and external networks), gaining the maximum security from Security Gateways, and resolving Gateway performance issues.

### The Check Point Certified Security Expert #156-315.77 exam covers the following topics:

- The process for backup of a Security Gateway and Management Server using your understanding of the differences between backups, snapshots, and upgrade-exports.
- The process for upgrade of Management Server using a database migration.
- How to perform debugs on firewall processes.
- Building, testing and troubleshooting a ClusterXL Load Sharing deployment on an enterprise network.
- Building, testing and troubleshooting a ClusterXL High Availability deployment on an enterprise network.
- Building, testing and troubleshooting a management HA deployment on an enterprise network.
- Configuring, maintaining and troubleshooting SecureXL and CoreXL acceleration solutions on the corporate network traffic to ensure noted performance enhancement on the firewall.
- Building, testing and troubleshooting a VRRP deployment on an enterprise network.
- Using an external user database such as LDAP, to configure User Directory to incorporate user information for authentication services on the network.
- Managing internal and external user access to resources for Remote Access or across a VPN.
- Troubleshooting a site-to-site or certificate-based VPN on a corporate gateway using IKEView, VPN log files and command-line debug tools.
- Optimizing VPN performance and availability using Link Selection and Multiple Entry Point solutions.
- Managing and testing corporate VPN tunnels to allow for greater monitoring and scalability with multiple tunnels defined in a community including other VPN providers.
- Creating Events and using existing event definitions to generate reports on specific network traffic using SmartReporter and SmartEvent in order to provide industry compliance information to management.
- Troubleshoot report generation given command-line tools and debug-file information.