

# Check Point Security Administration R77

## Introduction

This course prepares the participants to appear for the **CCSA** certification exam

Check Point Security Administration R77 – This course provides an understanding of basic concepts and skills necessary to configure Check Point Security Gateway and Management Software. During this course, you will configure a Security Policy, and learn about managing and monitoring a secure network. In addition, you will configure user authentication, identity awareness and implement site-to-site virtual private networks.

## Duration

3 Days

## Prerequisites

Persons attending this course should have general knowledge of TCP/IP, and working knowledge of Windows, Linux/Unix, network technology and the internet. Knowing basics of VPN will help in VPN configuration.

## Who Should Attend?

System administrators, security managers, and network engineers who manage Check Point Software Blades, and individuals seeking the CCSA certification

## Platform and Version

This course is based on the Check Point Security Management Server R77 and Security Gateway R77 deployed on GAIa operating system

## Course Objectives

- **Check Point Technology Overview**
  - Describe Check Point's unified approach to network management, and the key elements of this architecture.
  - Design a distributed environment using the network detailed in the course topology.
  - Install the Security Gateway in a distributed environment using the network detailed in the course topology.
- **Deployment Platforms**
  - Given network specifications, perform a backup and restore the current Gateway installation from the command line.
  - Identify critical files needed to purge or backup, import and export users and groups and add or delete administrators from the command line.
  - Deploy Gateways using web interface.
- **Introduction to the Security Policy**
  - Given the network topology, create and configure network, host and gateway objects.
  - Verify SIC establishment between the Security Management Server and the Gateway using SmartDashboard.
  - Create a basic Rule Base in SmartDashboard that includes permissions for administrative users, external services, and LAN outbound use.
  - Evaluate existing policies and optimize the rules based on current corporate requirements.

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- Maintain the Security Management Server with scheduled backups and policy versions to ensure seamless upgrades and minimal downtime.
- **Monitoring Traffic and Connections**
  - Use queries in SmartView Tracker to monitor common network traffic and troubleshoot network and security issues
  - Using SmartView Monitor, configure alerts and traffic counters, view a Gateway's status, monitor suspicious activity rules, analyze tunnel activity and monitor remote user access based on corporate requirements.
- **Network Address Translation (NAT)**
  - Understand differences between Hide NAT and Static NAT, Automatic and Manual configuration
  - Configure Hide NAT for local network
  - Configure NAT rules on Web and Gateway servers.
- **Using SmartUpdate**
  - Monitor remote Gateways using SmartUpdate to evaluate the need for upgrades, new installations, and license modifications.
  - Upgrade and attach product licenses using SmartUpdate.
- **User Management and Authentication**
  - Centrally manage users to ensure only authenticated users securely access the corporate network either locally or remotely.
  - Manage users to access to the corporate LAN by using external databases.
  - Configure User Directory to integrate with Active Directory Server
- **Identity Awareness**
  - Use Identity Awareness to provide granular level access to network resources
  - Acquire user information used by the Security Gateway to control access
  - Define Access Roles for use in an Identity Awareness rule
  - Implement Identity Awareness in the Firewall Rule Base
- **Introduction to Check Point VPNs**
  - Configure a pre-shared secret site-to-site VPN with partner sites
  - Configure permanent tunnels for remote access to corporate resources
  - Configure VPN tunnel sharing, given the difference between host-based, subnet-based and gateway-based tunnels.

## Lab Exercises Include

- Distributed Installations
- Branch Office Security Gateway Installations
- CLI Tools
- Building a Security Policy
- Configure the DMZ
- Monitor with SmartView Tracker
- Configure NAT
- Configure User Directory
- Configure Identity Awareness
- Site-to-Site VPN between corporate and branch office