



CHECK POINT CYBERSECURITY BOOT CAMP (CCSA & CCSE)



AUDIENCE

Technical professionals and experts who support, administer, or perform advanced deployment configurations of Check Point products.



GOALS

Learn basic and advanced concepts and develop skills necessary to administer IT security fundamental and intermediate tasks.



PREREQUISITES

One-year experience on Check Point products. Working knowledge of Windows, UNIX, networking technology, the Internet and TCP/IP is recommended.

TOPICS

Security Management	SmartConsole	Deployment	Object Management	Licenses and Contracts	Policy Rules and Rulebase
Policy Packages	Policy Layers	Traffic Inspection	Network Address Translation	Application Control	
URL Filtering	Logging	Snapshots	Backup and Restore	Gaia	Permissions
Advanced Deployments	Management High Availability	Advanced Gateway Deployment	Advanced Policy Configuration		
Advanced User Access Management	Custom Threat Protection	Advanced Site-to-Site VPN	Remote Access VPN	Mobile Access VPN	
Advanced Security Monitoring	Performance Tuning	Advanced Security Maintenance			

SECURITY ADMINISTRATOR

OBJECTIVES

- Describe the primary components of a Check Point Three-Tier Architecture and explain how they work together in the Check Point environment.
- Identify the basic workflow to install Security Management Server and Security Gateway for a single-domain solution.
- Create SmartConsole objects that correspond to the organization's topology for use in policies and rules.
- Identify the tools available to manage Check Point licenses and contracts, including their purpose and use.
- Identify features and capabilities that enhance the configuration and management of the Security Policy.
- Demonstrate an understanding of Application Control & URL Filtering and Autonomous Threat Prevention capabilities and how to configure these solutions to meet an organization's security requirements.
- Describe how to analyze and interpret VPN tunnel traffic.
- Identify how to monitor the health of supported Check Point hardware using the Gaia Portal and the command line.
- Describe the different methods for backing up Check Point system information and discuss best practices and recommendations for each method.

EXERCISES

- Deploy SmartConsole
- Install a Security Management Server
- Install a Security Gateway
- Configure Objects in SmartConsole
- Establish Secure Internal Communication
- Manage Administrator Access
- Manage Licenses
- Create a Security Policy
- Configure Order Layers
- Configure a Shared Inline Layer
- Configure NAT
- Integrate Security with a Unified Policy
- Elevate Security with Autonomous Threat Prevention
- Configure a Locally Managed Site-to-Site VPN
- Elevate Traffic View
- Monitor System States
- Maintain the Security Environment

SECURITY EXPERT

OBJECTIVES

- Identify the types of technologies that Check Point supports for automation.
- Explain the purpose of the Check Management High Availability (HA) deployment.
- Explain the basic concepts of Clustering and ClusterXL, including protocols, synchronization, and connection stickiness.
- Explain the purpose of dynamic objects, updatable objects, and network feeds.
- Describe the Identity Awareness components and configurations.
- Describe different Check Point Threat Prevention solutions.
- Articulate how the Intrusion Prevention System is configured.
- Explain the purpose of Domain-based VPNs.
- Describe situations where externally managed certificate authentication is used.
- Describe how client security can be provided by Remote Access.
- Discuss the Mobile Access Software Blade.
- Define performance tuning solutions and basic configuration workflow.
- Identify supported upgrade methods and procedures for Security Gateways.

EXERCISES

- Navigate the Environment and Use the Management API
- Deploy Secondary Security Management Server
- Configure a Dedicated Log Server
- Deploy SmartEvent
- Configure a High Availability Security Gateway Cluster
- Work with ClusterXL
- Configure Dynamic and Updateable Objects
- Verify Accelerated Policy Installation and Monitoring Status
- Elevate Security with HTTPS Inspection
- Deploy Identity Awareness
- Customize Threat Prevention
- Configure a Site-to-Site VPN with an Interoperable Device
- Deploy Remote Access VPN
- Configure Mobile Access VPN
- Monitor Policy Compliance
- Report SmartEvent Statistics
- Tune Security Gateway Performance