CP-CAEFT

CHECK POINT CYBERSECURITY BOOT CAMP R81.20 (CCSA+CCSE)

DURATION	LEVEL	TECHNOLOGY	DELIVERY METHOD	TRAINING CREDITS
5 Days	Advanced	Check Point Security	ILT/VILT	CLCs

INTRODUCTION

A fast-paced five-day class. Participants will gain a comprehensive understanding of basic and advanced concepts to administer IT security fundamental and intermediate tasks.

AUDIENCE PROFILE

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

PREREQUISITES

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

COURSE OBJECTIVES

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

After completing this course, delegates will be able to:

- 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
- Policy Installation
- 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

MODULES

CCSA Topics

- 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

CCSE Topics

- 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 stickyness.
- 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

ASSOCIATED CERTIFICATIONS & EXAM

This course will prepare delegates to take the Check Point Certified Admin (CCSA) exam #156-215.81.20 and Check Point Certified Expert (CCSE) exam #156-315.81.20

You will have ninety minutes to answer up to 90 questions on each exam.