



NOKIA SECURITY ADMINISTRATION: HIGH AVAILABILITY (NSA-002) (NSA: HA) – 1 DAY

Overview

NSA: High Availability is a one-day instructor-led course, covering resilient implementation of Firewall-1 on the Nokia IPSO security system.

The course provides theory and practice of High Availability in a complete Check Point Nokia IPSO security system.

The course is designed to be hands-on, and students will implement a security system with minimal – known and quantified – single points of failure during lab exercises.

Pre-Requisites

- Persons attending this course must have attended NSA: Foundation or the seceded NSA I class, and they should have passed NSA certification.

Target Audience

- Technical persons tasked with the design, installation and operation of Nokia security solutions with high uptime targets or where systems cannot be easily taken down for scheduled maintenance and upgrade. This includes operation of any system where pairing IPSO systems in a cluster or a resilient pair mitigates a single point of failure.

Course Objectives

- Understand the theory of resilient design
- Understand the IPSO alternatives of clustering and VRRP
- Understand how to combine these mechanisms with power provision, appropriate switching technology and other related technologies to remove all single points failure

Note: NSA: High Availability does not cover the use of dynamic routing as a resilience mechanism. Dynamic routing and routing over Check Point VPN are covered in NSA: Connectivity which is highly recommended if you need to understand all of your options in implementing a highly available system.

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NOKIA SECURITY ADMINISTRATION: CONNECTIVITY (NSA-003) (NSA: CONNECTIVITY) – 1 DAY

Overview

NSA: Connectivity is a one-day instructor-led course, covering Nokia IPSO dynamic routing over the LAN and over Check Point VPN-1.

The course is designed to be hands-on, and during the lab exercises, students will implement a dynamically routed network with routing security, firewall security, and routing over VPN.

Pre-Requisites

- Persons attending this course must have attended NSA: Foundation or the seceded NSA I class, and they should have passed NSA certification. They should have CCSA certification or equivalent Check Point knowledge.
- In addition, a basic knowledge of routing and IP is important:
 - IP addressing and subnetting
 - Static Routing
 - DNS
 - Some knowledge of the TCP protocol.

Target Audience

- Technical persons tasked with the design, installation, and operation of Nokia security solutions with complex topologies, multiple entry points or other distribution across the Internet should attend. This would include operation of any system with close integration with other routing products such as Cisco IOS routers

Course Objectives

- Understand the theory of dynamic routing
- Understand concepts of and implement RIPv2
- Understand concepts of and implement OSPF
- Understand issues of securing a dynamically routed environment
- Understand and implement OSPF over a Check Point VPN

Note: While dynamic routing can be used for resilience purposes, this class concentrates on managing and simplifying topology and connectivity. If you intend to design your network so that dynamic routing implements fail-over to other firewalls, you will also want to attend the NSA: High Availability class.

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