

IINS

Implementing Cisco IOS Network Security



Implementing Cisco IOS Network Security (IINS) focuses on the necessity of a comprehensive security policy and how it affects the posture of the network. Learners will be able to perform basic tasks to secure a small branch type office network using Cisco IOS security features available through web-based GUIs (Cisco Router and Security Device Manager (SDM)) and the command-line interface (CLI) on the Cisco routers and switches. After this course learners can take the Exam 640-553 and thus obtain the CCNA Security certification.

Course Contents

- Module 1: Introduction to Network Security Principles
- Module 2: Perimeter Security
- Module 3: Network Security Using Cisco IOS Firewalls
- Module 4: Site-to-Site VPNs
- Module 5: Network Security Using Cisco IOS IPS
- Module 6: LAN, SAN, Voice, and Endpoint Security Overview

Knowledge Prerequisites

The knowledge and skills that a learner must have before attending this course are as follows:

- Skills and knowledge equivalent to those learned in ICND 1 - Interconnecting Cisco Network Devices Part 1
- Working knowledge of the Windows operating system.

Course Objectives

- Develop a comprehensive network security policy to counter threats against information security.
- Configure routers on the network perimeter with Cisco IOS Software security features.
- Configure a Cisco IOS zone-based firewall to perform basic security operations on a network.
- Configure site-to-site VPNs using Cisco IOS features.
- Configure IPS on Cisco network routers.
- Configure LAN devices to control access, resist attacks, shield other network devices and systems, and protect the integrity and confidentiality of network traffic.



Reservation and Registration

We will be glad to make a free and non-binding course reservation for you for the duration of two weeks. On www.experteach-benelux.com under *Registration*, you can conveniently make course reservations, registrations, and hotel reservations. Alternatively, call us under +31 (0)76 52 32 950.

For closed groups of participants, we can modify the course contents according to your requirements. Do not hesitate to contact us!



IINS

5 days €2,350 exclusive of V.A.T.

Course date (dd.mm.yy)/Location

06.02.-10.02.12	Brussels	16.04.-20.04.12	Breda
12.03.-16.03.12	Utrecht	11.06.-15.06.12	Brussels

Up-to-date information: www.experteach-benelux.com IINS



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- 1. Introduction to Network Security Principles**
 - 1.1. Examining Network Security Fundamentals
 - 1.2. Examining Network Attack Methodologies
 - 1.3. Examining Operations Security
 - 1.4. Understanding and Developing a Comprehensive Network Security Policy
 - 1.5. Building Cisco Self-Defending Networks

- 2. Perimeter Security**
 - 2.1. Securing Administrative Access to Cisco Routers
 - 2.2. Introducing Cisco SDM
 - 2.3. Configuring AAA on a Cisco Router Using the Local Database
 - 2.4. Configuring AAA on a Cisco Router to Use Cisco Secure ACS
 - 2.5. Implementing Secure Management and Reporting
 - 2.6. Locking Down the Router

- 3. Network Security Using Cisco IOS Firewalls**
 - 3.1. Introducing Firewall Technologies
 - 3.2. Creating Static Packet Filters Using ACLs
 - 3.3. Configuring Cisco IOS Zone-Based Policy Firewall

- 4. Site-to-Site VPNs**
 - 4.1. Examining Cryptographic Services
 - 4.2. Examining Symmetric Encryption
 - 4.3. Examining Cryptographic Hashes and Digital Signatures
 - 4.4. Examining Asymmetric Encryption and PKI
 - 4.5. Examining IPsec Fundamentals
 - 4.6. Building a Site-to-Site IPsec VPN
 - 4.7. Configuring IPsec on a Site-to-Site VPN Using Cisco SDM

- 5. Network Security Using Cisco IOS IPS**
 - 5.1. Introducing IPS Technologies
 - 5.2. Configuring Cisco IOS IPS Using Cisco SDM

- 6. LAN, SAN, Voice, and Endpoint Security Overview**
 - 6.1. Examining Endpoint Security
 - 6.2. Examining SAN Security
 - 6.3. Examining Voice Security
 - 6.4. Mitigating Layer 2 Attacks



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