



DATA SHEET

SECURING CISCO NETWORK DEVICES

This five-day, entry-level network security course (SND) is offered as a prerequisite to the Cisco® Qualified Specialist curriculum. SND provides an opportunity to learn about a broad range of the components embedded in the SAFE blueprint from Cisco Systems®. Students will recognize threats and vulnerabilities to networks and learn how to implement basic mitigation measures. The course provides an introduction to the Cisco products and solutions that form the basis of the Cisco security portfolio. Students will be able to perform basic tasks to secure network devices at Layers 2 and 3 using a command-line interface (CLI) and Web-based GUIs. Devices include routers, switches, access control servers, intrusion prevention system (IPS) sensors, and VPN concentrators.

DURATION

Five Days

OBJECTIVES

Upon completion of this course, students will be able to perform the following tasks:

- Identify components and functions of the following Cisco PIX® models: Cisco PIX 501, 525, and 535 security appliances
- Describe the SAFE blueprint, Cisco security portfolio, and Cisco VPN management suite
- Configure Layer 2 and 3 devices on the network perimeter with the Cisco Catalyst® OS and Cisco IOS® Software security features
- Secure a network with the Cisco PIX Security Appliance
- Provide security connectivity to a network with IP Security (IPSec) VPN technology
- Secure networks with host-based and network-based IPSs
- Complete basic network security configuration and administrative tasks using Cisco Secure Access Control Server (ACS) for Windows Server
- Manage network security with CiscoWorks VPN/Security Management Solution (VMS)

TARGET AUDIENCE

Network professionals who require the basic knowledge and skills needed to deploy Cisco security solutions, including VPN, intrusion detection system (IDS) sensors, and Cisco PIX firewalls.

PREREQUISITES

CCNA® equivalent experience as taught in the Interconnecting Cisco Network Devices (ICND) course. Skills include the following:

- From the CLI, configure a Cisco IOS Software router and switch, to include navigating, interfaces, VLANs, routing, and so forth
- Configure and enable static and dynamic routing, including Routing Information Protocol (RIP) and Enhanced Interior Gateway Routing Protocol (EIGRP) on a Cisco IOS Software router
- Troubleshoot a Cisco IOS Software device using the appropriate show and debug commands
- Configure standard and extended access lists to manage traffic access

COURSE OUTLINE

- Securing a Network with the SAFE Blueprint
- Securing the Perimeter

- Cisco Security Appliances
- Building IPSec VPNs
- Securing Networks with Host-Based and Network-Based IPSs
- Securing Access with Cisco Secure ACS
- Managing Network Security

LAB OUTLINE

- Lab 1-1: Discovering Network Vulnerabilities and Threats
- Lab 2-1: Configuring Basic Cisco Router Security with Passwords
- Lab 2-2: Disabling Unused Cisco Router Network Services and Interfaces
- Lab 2-3: Securing a Cisco Peripheral Router with Access Lists
- Lab 2-4: Securing Cisco Routers Using Syslog and Autosecure
- Lab 2-5: Configuring Basic Cisco Router Authentication
- Lab 3-1: Configuring a Cisco PIX Security Appliance from the Command-Line Interface
- Lab 3-2: Configuring the Cisco PIX Security Appliance with the Cisco PIX Device Manager
- Lab 4-1: Configuring a Cisco VPN 3000 Series Concentrator for Remote Access
- Lab 4-2: Configuring the Cisco VPN 3000 Series Concentrator Using the Cisco VPN Software Client for Windows
- Lab 5-1: Configuring the Cisco IPS Sensor on the Network
- Lab 5-2: Configuring Basic Sensor Settings with the IDS Device Manager
- Lab 5-3: Deploying HIPS with the Cisco Security Agent
- Lab 6-1: Configuring the ACS

REGISTRATION INFORMATION

For more information about schedules and registration for this course, please contact aeskt_registration@cisco.com.

For more information on Advanced Services Education course offerings, as well as Curriculum Planning Services and custom training options, refer to the AS Education Website at www.cisco.com/go/ndm.

**Corporate Headquarters**

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

European Headquarters

Cisco Systems International
BV
Haarlerbergpark
Haarlerbergweg 13-19
1101 CH Amsterdam
The Netherlands
www-europe.cisco.com
Tel: 31 0 20 357 1000
Fax: 31 0 20 357 1100

Americas Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-7660
Fax: 408 527-0883

Asia Pacific Headquarters

Cisco Systems, Inc.
168 Robinson Road
#28-01 Capital Tower
Singapore 068912
www.cisco.com
Tel: +65 6317 7777
Fax: +65 6317 7799

Cisco Systems has more than 200 offices in the following countries and regions. Addresses, phone numbers, and fax numbers are listed on **the Cisco Web site at www.cisco.com/go/offices.**

Argentina • Australia • Austria • Belgium • Brazil • Bulgaria • Canada • Chile • China PRC • Colombia • Costa Rica • Croatia • Cyprus
Czech Republic • Denmark • Dubai, UAE • Finland • France • Germany • Greece • Hong Kong SAR • Hungary • India • Indonesia • Ireland
Israel • Italy • Japan • Korea • Luxembourg • Malaysia • Mexico • The Netherlands • New Zealand • Norway • Peru • Philippines • Poland
Portugal • Puerto Rico • Romania • Russia • Saudi Arabia • Scotland • Singapore • Slovakia • Slovenia • South Africa • Spain • Sweden
Switzerland • Taiwan • Thailand • Turkey • Ukraine • United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

Copyright © 2005 Cisco Systems, Inc. All rights reserved. CCIP, CCSP, the Cisco *Powered* Network mark, Cisco Unity, Follow Me Browsing, FormShare, and StackWise are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn, and iQuick Study are service marks of Cisco Systems, Inc.; and Aironet, ASIST, BPX, Catalyst, CCDA, CCDP, CCIE, CCNA, CCNP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, the Cisco IOS logo, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Empowering the Internet Generation, Enterprise/Solver, EtherChannel, EtherSwitch, Fast Step, GigaStack, Internet Quotient, IOS, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, LightStream, Linksys, MGX, MICA, the Networkers logo, Networking Academy, Network Registrar, *Packet*, PIX, Post-Routing, Pre-Routing, RateMUX, Registrar, ScriptShare, SlideCast, SMARTnet, StrataView Plus, Stratum, SwitchProbe, TeleRouter, The Fastest Way to Increase Your Internet Quotient, TransPath, and VCO are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Web site are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0402R)