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Ccnp Security Firewall Instructor Lab Manual

**A complete study guide for the new
CCNA Security certification exam In
keeping with its status as the leading
publisher of CCNA study guides,**

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Sybex introduces the complete guide to the new CCNA security exam. The CCNA Security certification is the first step towards Cisco's new Cisco Certified Security Professional (CCSP) and Cisco Certified Internetworking Engineer-Security.

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CCNA Security Study Guide fully covers every exam objective. The companion CD includes the Sybex Test Engine, flashcards, and a PDF of the book. The CCNA Security certification is the first step toward Cisco's new CCSP and Cisco

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**Certified Internetworking Engineer-
Security Describes security threats
facing modern network
infrastructures and how to mitigate
threats to Cisco routers and
networks using ACLs Explores
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on labs and end-of-chapter reviews, CCNA Security Study Guide thoroughly prepares you for certification. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

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network integration, AAA configuration, and ASA HA. This fact-filled Quick Reference allows you to get all-important information at a glance, helping you to focus your study on areas of weakness and to enhance memory retention of

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**One of the primary components of
any organization's security policy is
the implementation and maintenance
of firewalls. Firewalls are network**

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devices residing at the perimeter of corporate networks that protect internal networks from intrusion by the outside world. The integrated hardware/software PIX Firewall series delivers high security without impacting network performance

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the Cisco IOS Firewall feature set. The appendixes provide helpful references, including configuring PIX intrusion detection features, SNMP management support, DHCP client and server, Secure Shell Protocol (SSH) connection, and

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official CSPFA self-study guide
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**characteristics of PIX models 506,
515, 520, 525, and 535, including
LED information and port and slot
numbering Upgrade PIX OS code,
perform password recovery, and
install feature licenses Configure
IPSec Phase I and Phase II Security**

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Associations Configure Cisco routers to perform Context Based Access Control (CBAC) Examine the many operating features of the PIX, such as Cut-Through Proxy, Advanced Protocol Handling, Attack Guards, and the Adaptive Security Algorithm

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**(ASA) Learn the ins and outs of
address translation and access
control Install the Cisco Secure ACS
server and configure corresponding
services on the PIX to authenticate
and authorize users and services
Understand attack guards such as**

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**Syn Flood, Fragmentation, AAA,
DNS, and Mail Examine the
workings of the PIX failover
mechanism and learn the difference
between failover, stateful failover,
interface testing, and the failover
poll David W. Chapman Jr.,**

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CCNP(r), CCDP(r), CSS-1, is a Cisco Security Instructor with Global Knowledge. As Course Director for the Cisco Secure PIX Firewall course, David is charged with maintaining the integrity and quality of the course offering and

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mentoring instructors new to the course. Andy Fox, CCSI(tm), CCNA(r), CCDA(r), CSS-1 is a Certified Cisco Systems Instructor with Global Knowledge. Andy has been teaching Cisco Certified Classes for more than five years and is the

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organized test preparation routine
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elements and techniques. “Do I
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concepts with exam preparation
tasks CCNP Security SECURE
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specifically on the objectives for the
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Senior networking consultants Sean Wilkins and Trey Smith share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a

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concise manner, focusing on increasing your understanding and retention of exam topics. Well-regarded for its level of detail, assessment features, and challenging review questions and exercises, this official study guide helps you master

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the concepts and techniques that will enable you to succeed on the exam the first time. The official study guide helps you master all the topics on the CCNP Security SECURE exam, including: Network security threats and foundation protection

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**Switched data plane security 802.1X
and identity-based networking
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security Cisco IOS management
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with Cisco IOS® IPS Protect switch**

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**infrastructures Secure endpoint
devices, storage area networks
(SANs), and voice networks**

WRITTEN BY A LEADING

**EXPERT: Eric Stewart is a self-
employed network security
contractor who finds his home in**

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Ottawa, Canada. Eric has more than 20 years of experience in the information technology field, the last 12 years focusing primarily on Cisco® routers, switches, VPN concentrators, and security appliances. The majority of Eric's

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consulting work has been in the implementation of major security infrastructure initiatives and architectural reviews with the Canadian Federal Government. Eric is a certified Cisco instructor teaching Cisco CCNA, CCNP®, and

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you with a quick reference for locating more in-depth treatment of a day's topics within the Primary and Supplemental resources. The features of the book empower you to fit exam preparation into a busy schedule:

- A visual calendar

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summarizing each day's study topic
**· A checklist providing advice for
preparation activities leading up to
the exam · A description of the
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organization and sign-up process ·
Strategies from the author to be**

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**mentally, organizationally, and
physically prepared for exam day · A
conversational tone, which makes
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**Management plane security AAA
security Layer 2 security threats
IPv6 security Threat mitigation and
containment Access Control Lists
(ACLs) Network Address
Translation (NAT) Cisco IOS zone-
based firewalls and ASA firewalls**

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**Intrusion prevention and detection
systems Public Key Infrastructure
(PKI) and cryptography Site-to-site
IPsec VPNs and SSL VPNs Pearson
IT Certification Practice Test
minimum system requirements:
Windows XP (SP3), Windows Vista**

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1GHz processor (or equivalent) 512
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share preparation hints and test-
taking tips, helping you identify
areas of weakness and improve both

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--Cisco IPS fundamentals
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model building labs, this CCNA Security course aims to develop your in-depth understanding of network security principles as well as the tools and configurations used.

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an associate-level Security Analyst working in a Security Operations Center (SOC). Upon completion of the CCNA Cybersecurity Operations 1.0 course, students will be able to perform the following tasks: Install virtual machines to

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create a safe environment for implementing and analyzing cybersecurity threat events. Explain the role of the Cybersecurity Operations Analyst in the enterprise. Explain the Windows Operating System features and

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characteristics needed to support cybersecurity analyses. Explain the features and characteristics of the Linux Operating System. Analyze the operation of network protocols and services. Explain the operation of the network infrastructure.

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Classify the various types of network attacks. Use network monitoring tools to identify attacks against network protocols and services. Use various methods to prevent malicious access to computer networks, hosts, and

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data. Explain the impacts of cryptography on network security monitoring. Explain how to investigate endpoint vulnerabilities and attacks. Analyze network intrusion data to verify potential exploits. Apply incident response

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**Security About the author:
Anthony Sequeira, CCIE No.
15626, completed the CCIE in
Routing and Switching in
January 2006. He is currently
pursuing the CCIE in Security.
For the past 15 years, he has**

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written and lectured to massive audiences about the latest in networking technologies. He is currently a senior technical instructor and certified Cisco Systems instructor for SkillSoft. He

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lives with his wife and daughter in Florida. When he is not reading about the latest Cisco innovations, he is exploring the Florida skies in a Cessna. About the Technical Editor: Ryan Lindfield is an

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instructor and network administrator with Boson. He has more than ten years of network administration experience. He has taught many courses designed for CCNA, CCNP, and CCSP

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preparation, among others. He has written many practice exams and study guides for various networking technologies. He also works as a consultant, where among his tasks are installing and

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testing success. Dmitry Bokotey, CCIE No. 4460 holds three CCIE certifications including Security. A senior solution consultant with Cisco Systems, Dmitry is responsible for the design and

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Mason, CCIE No. 7144 is the
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and Boxing Orange. Andrew is also the author of the Cisco Press titles Cisco Secure Virtual Private Networks and Cisco Secure Internet Security Solutions. Raymond Morrow, CCIE No. 4146 is a Solutions

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applied degree programs at the post-secondary level. He is also the program coordinator of the Cisco Networking Academy® Program at NAIT, a Regional Academy covering central and northern Alberta. He has earned three undergraduate degrees and currently holds several industry certifications,

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*Preparing for the latest CCNA Security
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valuable, easy-to-access information, the CCNA Security Portable Command Guide, is portable enough for you to use whether you're in the server room or the equipment closet. Completely updated to reflect the new CCNA Security 210-260 exam, this quick reference summarizes relevant Cisco IOS® Software commands,

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keywords, command arguments, and associated prompts, and offers tips and examples for applying these commands to real-world security challenges.

Configuration examples, throughout, provide an even deeper understanding of how to use IOS to protect networks. Topics covered include Networking security

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fundamentals: concepts, policies, strategy

Protecting network infrastructure:

network foundations, security

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control/containment: protecting endpoints

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*connectivity: VPNs, cryptology,
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“What Do You Want to Do?” chart inside the front cover helps you to quickly reference specific tasks

"While Nokia is perhaps most recognized for its leadership in the mobile phone market, they have successfully demonstrated their knowledge of the Internet security appliance market and its

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customers requirements." --Chris Christiansen, Vice President, Internet Infrastructure and Security Software, IDC. Syngress has a long history of publishing market-leading books for system administrators and security professionals on commercial security products, particularly Firewall and

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Virtual Private Network (VPN) appliances from Cisco, Check Point, Juniper, SonicWall, and Nokia (see related titles for sales histories). The Nokia Firewall, VPN, and IPSO Configuration Guide will be the only book on the market covering the all-new Nokia Firewall/VPN Appliance suite. Nokia

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Firewall/VPN appliances are designed to protect and extend the network perimeter. According to IDC research, Nokia Firewall/VPN Appliances hold the #3 worldwide market-share position in this space behind Cisco and Juniper/NetScreen. IDC estimated the total Firewall/VPN market at \$6 billion

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in 2007, and Nokia owns 6.6% of this market. Nokia's primary customers for security appliances are Mid-size to Large enterprises who need site-to-site connectivity and Mid-size to Large enterprises who need remote access connectivity through enterprise-deployed mobile devices. Nokia appliances for this

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market are priced form \$1,000 for the simplest devices (Nokia IP60) up to \$60,0000 for large enterprise- and service-provider class devices (like the Nokia IP2450 released in Q4 2007). While the feature set of such a broad product range obviously varies greatly, all of the appliances run on the same operating

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system: Nokia IPSO (IPSO refers to Ipsilon Networks, a company specializing in IP switching acquired by Nokia in 1997. The definition of the acronym has little to no meaning for customers.) As a result of this common operating system across the product line, The Nokia Firewall, VPN, and IPSO Configuration

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Guide will be an essential reference to users of any of these products. Users manage the Nokia IPSO (which is a Linux variant, specifically designed for these appliances) through a Web interface called Nokia Network Voyager or via a powerful Command Line Interface (CLI). Coverage within the book

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becomes increasingly complex relative to the product line. The Nokia Firewall, VPN, and IPSO Configuration Guide and companion Web site will provide seasoned network administrators and security professionals with the in-depth coverage and step-by-step walkthroughs they require to properly secure their network

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perimeters and ensure safe connectivity for remote users. The book contains special chapters devoted to mastering the complex Nokia IPSO command line, as well as tips and tricks for taking advantage of the new "ease of use" features in the Nokia Network Voyager Web interface. In addition, the

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*companion Web site offers downloadable video walkthroughs on various installation and troubleshooting tips from the authors. * Only book on the market covering Nokia Firewall/VPN appliances, which hold 6.6% of a \$6 billion market * Companion website offers video walkthroughs on various installation and*

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*troubleshooting tips from the authors **
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(200-101) exams as well as providing additional insight for those taking CCNA Composite (200-120) exam. It thoroughly examines operation of IP data networks, LAN switching technologies, IP addressing (IPv4/IPv6), IP routing technologies, IP services, network device security, troubleshooting, and WAN

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