

Step 3: Configure routing on the routers.

Static and dynamic routing protocols are used in different chapter labs. Please refer to the chapter instructions to determine which routing protocol is used in each chapter lab.

Step 4: Configure PC host IP settings.

Configure a static IP address, subnet mask, and default gateway for PC-A and PC-C, as shown in the IP addressing table.

Step 5: Verify connectivity between PC-A and R3.

- a. Ping from R1 to R3.

If the pings are not successful, troubleshoot the basic device configurations before continuing.

- b. Ping from PC-A on the R1 LAN to PC-C on the R3 LAN.

If the pings are not successful, troubleshoot the basic device configurations before continuing.

Note: If you can ping from PC-A to PC-C, you have demonstrated that static routing is configured and functioning correctly. If you cannot ping but the device interfaces are up and IP addresses are correct, use the `show run` and `show ip route` commands to help identify routing protocol-related problems.

Part 3: Router Access for CCP

In Part 3 of this lab, you will set up a router for use with CCP by enabling a secure HTTP server, creating a privileged user account, and configuring a SSH and Telnet access.

Step 1: Connect to your router through Telnet or SSH or the console.

Enter the global configuration mode using the command:

```
Router> enable
Router# configure terminal
```

Step 2: Enable the router as a HTTP server.

- a. Enable HTTP server.

```
Router(config)# ip http server
```

- b. For a secure connection, enable the secure HTTP server.

```
Router(config)# ip http secure-server
* Generating 1024 bit RSA keys, keys will be non-exportable...
[OK] (elapsed time was 3 seconds)
```

```
R1(config)#
*Jan 1 17:23:44.103: %SSH-5-ENABLED: SSH 1.99 has been enabled
*Jan 1 17:23:44.218: %PKI-6-NOWTOSAVE: Configuration was modified. Issue
"write memory" to save new certificate
```

Note: A secure HTTP server can only be enabled for cryptography-enabled Cisco IOS Software images. It is also possible to connect using an unsecure connection if the command `ip http server` is configured; however, this is an unsecure connection and not recommended for production environments.

- c. Configure authentication for HTTP access using the local authentication.

```
Router(config)# ip http authentication local
```

Ccna Security Instructor Manual

Michael G. Solomon, Mike Chapple



Ccna Security Instructor Manual:

CCNA Security Lab Manual Version 1.2 Cisco Networking Academy, 2014-09-25 CCNA Security Lab Manual Version 1 2 The only authorized Lab Manual for the Cisco Networking Academy CCNA Security course The Cisco Networking Academy course on CCNA Security provides a next step for students who want to expand their CCNA level skill set to prepare for a career in network security The CCNA Security course also prepares students for the Implementing Cisco IOS Network Security IINS certification exam 640 554 which leads to the CCNA Security certification The CCNA Security Lab Manual provides you with all 16 labs from the course designed as hands on practice to master the knowledge and skills needed to prepare for entry level security specialist careers All the hands on labs in the course can be completed on actual physical equipment or in conjunction with the NDG NETLAB solution For current information on labs compatible with NETLAB go to <http://www.netdevgroup.com/content/cnap> Through procedural skills integration challenges troubleshooting and 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 CCNA Security Course Booklet Version 1 2 Third Edition ISBN 13 978 1 58713 346 6 ISBN 10 1 58713 346 6 CCNA Security 640 554 Portable Command Guide ISBN 13 978 1 58720 448 7 ISBN 10 1 58720 448 7 Implementing Cisco IOS Network Security IINS 640 554 Foundation Learning Guide Second Edition ISBN 13 978 1 58714 272 7 ISBN 10 1 58714 272 4 CCNA Security 640 554 Official Cert Guide ISBN 13 978 1 58720 446 3 ISBN 10 1 58720 446 0

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Tim Boyles, 2010-06-29 A complete study guide for the new CCNA Security certification exam In keeping with its status as the leading publisher of CCNA study guides 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 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 Certified Internetworking Engineer Security Describes security threats facing modern network infrastructures and how to mitigate threats to Cisco routers and networks using ACLs Explores implementing AAA on Cisco routers and secure network management and reporting Shows how to implement Cisco IOS firewall and IPS feature sets plus site to site VPNs using SDM CD includes the Sybex Test Engine flashcards and the book in PDF format With hands 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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Jonathan S. Weissman, 2021-08-27 Practice the Skills Essential for a Successful Career in Cybersecurity This hands on guide contains more than 90 labs that challenge you to solve real world problems and help you to master key cybersecurity concepts Clear measurable lab results map to exam objectives offering direct correlation to Principles of Computer Security CompTIA Security TM and Beyond Sixth Edition Exam SY0 601 For each lab you will get a complete materials list step by step instructions and scenarios that require you to think critically Each chapter concludes with Lab Analysis questions and a Key Term quiz Beyond helping you prepare for the challenging exam this book teaches and reinforces the hands on real world skills that employers are looking for In this lab manual you ll gain knowledge and hands on experience with Linux systems administration and security Reconnaissance social engineering

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Information Security Illuminated Michael G. Solomon, Mike Chapple, 2005 A comprehensive textbook that introduces students to current information security practices and prepares them for various related certifications

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you'll delve into the concepts of IPS and endpoint security to secure your organization's network infrastructure. By the end of this book, you'll be ready to take the CCNA Security Exam 210-260. What you will learn:

- Grasp the fundamentals of network security
- Configure routing protocols to secure network devices
- Mitigate different styles of security attacks using Cisco devices
- Explore the different types of firewall technologies
- Discover the Cisco ASA functionality and gain insights into some advanced ASA configurations
- Implement IPS on a Cisco device and understand the concept of endpoint security

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Computer Forensics JumpStart Micah Solomon, Diane Barrett, Neil Broom, 2015-03-24

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Implementing Cisco IOS Network Security (IINS) Catherine Paquet, 2009-04-14

Implementing Cisco IOS Network Security IINS is a Cisco authorized self-paced learning tool for CCNA Security foundation learning. This book provides you with the knowledge needed to secure Cisco routers and switches and their associated networks. By reading this book, you will gain a thorough understanding of how to troubleshoot and monitor network devices to maintain integrity, confidentiality, and availability of data and devices, as well as the technologies that Cisco uses in its security infrastructure. This book focuses on the necessity of a comprehensive security policy and how it affects the posture of the network. You will learn how to perform basic tasks to secure a small branch-type office network using Cisco IOS security features available through the Cisco Router and Security Device Manager (SDM) web-based graphical user interface (GUI) and through the command-line interface (CLI) on Cisco routers and switches. The author also provides when appropriate parallels with Cisco ASA appliances. Whether you are preparing for CCNA Security certification or simply want to gain a better understanding of Cisco IOS security fundamentals, you will benefit from the information provided in this book.

Implementing Cisco IOS Network Security IINS is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit www.cisco.com/go/authorizedtraining.

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