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# Cisco Self Study Building Cisco Metro Optical Networks Metro

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CCDA Self-study  
Advanced Wireless LAN  
Cisco Networks  
Implementing Cisco IOS Network Security (IINS)  
Implementing Cisco Unified Communications Manager, Part 1 (CIPT1) (Authorized Self-Study Guide)  
CCNA Wireless 640-722 Official Cert Guide  
Cisco Self-Study - Building Cisco Metro Optical Networks (METRO)  
Ccnp Self-Study: Building Cisco Multilayer Switched Networks (Bcmsn), 4/E  
CCNP Self-Study  
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CCNA: Cisco Certified Network Associate  
CCNA Certification  
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Cisco Internet Architecture Essentials Self-study Guide  
Cisco Self-study  
Software Defined Wide Area Networks  
Building Cisco Multilayer Switched Networks  
Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide  
CCNP Practical Studies  
CCNA Practical Studies  
CCNP and CCIE Data Center Core DCCOR 350-601 Official Cert Guide

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### **CCDA Self-study** Cisco Press

Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide is a Cisco® authorized learning tool for CCNP®/CCDP®/CCIP® preparation. As part of the Cisco Press Foundation Learning Series, this book teaches you how to plan, configure, maintain, and scale a routed network. It focuses on using Cisco routers connected in LANs and WANs typically found at medium-to-large network sites. After completing this book, you will be able to select and implement the appropriate Cisco IOS services required to build a scalable, routed network. Each chapter opens with the list of topics covered to clearly identify the focus of that chapter. At the end of each chapter, a summary of key concepts for quick study and review questions provide you with an opportunity to assess and reinforce your understanding of the material. Throughout the book there are many configuration examples and sample verification outputs demonstrating troubleshooting techniques and illustrating critical issues surrounding network operation. Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide is ideal for certification candidates who are seeking a tool to learn all the topics covered in the ROUTE 642-902 exam. Serves as the official book for the Cisco Networking Academy CCNP ROUTE course Includes all the content from the e-Learning portion of the Learning@ Cisco ROUTE course Provides a thorough presentation of complex enterprise network frameworks, architectures, and models, and the process of creating, documenting, and executing an implementation plan Details Internet Protocol (IP) routing protocol principles Explores Enhanced Interior Gateway Routing Protocol (EIGRP), Open Shortest Path First (OSPF), and Border Gateway Protocol (BGP) Examines how to manipulate routing updates and control the information passed between them Covers routing facilities for branch offices and mobile workers Investigates IP Version 6 (IPv6) in detail Presents self-assessment review questions, chapter objectives, and summaries to facilitate effective studying This book is in the Foundation Learning Guide Series. These guides are developed together with Cisco® as the only authorized, self-paced learning tools that help networking professionals build their understanding of networking concepts and prepare for Cisco certification exams.

### **Advanced Wireless LAN** Cisco Press

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](http://www.cisco.com/go/authorizedtraining). 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 firewall features including ACLs and Cisco IOS zone-based policy firewalls 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 This volume is in the Certification Self-Study Series offered by Cisco Press®. Books in this series provide officially developed self-study solutions to help networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations.

### **Cisco Networks** Cisco Press

Prepare for the new CCNP BSCI routing exam with the only Cisco Systems authorized self-study preparation book!

#### Implementing Cisco IOS Network Security (IINS) Cisco Press

- Learn exam topics for all four CCNP areas of study, including those from the new BSCi exam - Use these four books as study guides, course supplements or self-paced training manuals - Follow guidance from authors that are trainers and developers of Cisco courses - Learn with the only Cisco Systems authorised self-study books

#### Implementing Cisco Unified Communications Manager, Part 1 (CIPT1) (Authorized Self-Study Guide) Cisco Press

Plan, design, and configure high-speed fiber-optic networks Coverage includes: Configuring ONS 15454 and ONS 15327 platforms Architecture for building Metropolitan Ethernet Transparent LAN Services (TLS) Packet over SONET (PoS) network design, configuration, and verification Inner workings of dense wavelength division multiplexing (DWDM), including operability with the ONS 15216 product family Principles of Dynamic Packet Transport (DPT) SONET background, including structures, components, and network design Bonus case studies, which challenge you to select equipment and design a metro optical network Fiber-optic networking has several significant advantages over traditional wired and wireless networks: optical signals can travel much farther than electrical signals, are more secure, are resistant to electromagnetic interference, and have the

potential to provide bandwidth in the terabits per second range (1000 Gbps). Service providers must satisfy the always-increasing networking demands of customers while keeping costs to a minimum. Optical networks must meet the challenge of supporting multiple types of transmissions including voice, video, and data traffic. Although time-division multiplexing (TDM) has provided a growth path for services, it is more constrained than IP + Optical strategies like the Cisco Dynamic Packet Transport (Resilient Packet Ring). The Cisco Systems® end-to-end IP + Optical networking strategy provides an intelligent converged network in which optical infrastructures can be used to their fullest potential. While most reference books focus on the theory involved in SONET and optical infrastructures, Cisco Self-Study: Building Cisco Metro Optical Networks (METRO) focuses on the practical application of planning and configuring optical networks that involve SONET, DWDM, Metropolitan Ethernet, Packet over SONET, and Dynamic Packet Transport (Resilient Packet Ring). Cisco Self-Study: Building Cisco Metro Optical Networks (METRO) is part of a recommended learning path from Cisco Systems that can include 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](http://www.cisco.com/go/authorizedtraining). This volume is in the Certification Self-Study Series offered by Cisco Press. Books in this series provide officially deve...

#### **CCNA Wireless 640-722 Official Cert Guide** Cisco Press

& Master network design skills with this second edition of the best-selling CCDA self-study guide & Learn fundamentals network design skills in the format of the Global Network Business approach designed by Cisco Systems & Prepare for the new CCDA exam, 640-861 DESGN, while learning how to build a scalable, robust, accessible, and secure network architecture

#### **Cisco Self-Study - Building Cisco Metro Optical Networks (METRO)** Cisco Press

The definitive study guide for the new CCNA and CCNP certifications CCNA Certification Practice Test: Exam 200-301 is the definitive practice guide for professionals preparing for the new CCNA or CCNP certifications, and for those looking to master the latest technologies in Cisco networking fundamentals. The practice exams, written by 17-year industry professional Jon Buhagiar, explore a broad range of exam objectives essential for passing the certification exam. The CCNA exam provides the certification needed to grow your IT career. Each practice exam in this book is designed to prepare you to pass the CCNA by imparting the skills, knowledge, and practical coursework needed to master all exam topics. This book includes access to six practice tests featuring 1,200 exam questions, as well as two full practice exams. Most importantly, the six practice tests featured in Certification Practice Tests Exam 200-301 cover a variety of topics, including: ● Security fundamentals ● Automation and programmability ● IP services ● IP connectivity ● Network success ● Network fundamentals In addition to a plethora of exam topics and plenty of sample questions to prepare you for the CCNA exam, readers will also have access to online test tools featuring additional practice questions and study tools to assist in reinforcing the knowledge you've gained with the book. Learn the foundational knowledge you need to pass the CCNA or CCNP and take your career to the next level by preparing with CCNA Certification Practice Tests.

#### **Ccnp Self-Study: Building Cisco Multilayer Switched Networks (Bcmsn), 4/E** John Wiley & Sons

Cisco authorized self-study book for CCNP, CCDP(R), and CCIP(TM) learning.- Master the topics of the

BSCI curriculum.- Use as a study guide, course supplement, or self-paced training manual for implementation of Cisco networking devices in medium to large networks.- Learn with the only Cisco authorized self-study material for the BSCI routing exam, #640-+2.

#### **CCNP Self-Study** Cisco Press

AMAZON BESTSELLER Version 3 - Completely revised and updated for the new Cisco exams:

200-125 CCNA 100-105 ICND1 200-105 ICND2 This book has been used by thousands of Cisco students to study for their CCNA exams. Written by a CCNP and three CCIEs it's all you need to pass the new style exams. FREE SUPPORT The book is supported for free so just come over and register your copy to get free access to over \$400 worth of videos, exams, cram guides - [in60days.com/free/ccnain60days/](http://in60days.com/free/ccnain60days/) ABOUT THE BOOK Do any of the following problems sound familiar to you? "I just don't know where to start studying. I feel overwhelmed by the information." "I've bought all the CBT-style videos and books, and have even been on a course, but I don't feel ready to take the exam and I don't know if I ever will." "I've been studying for a long time now, but I haven't booked the exam yet because I just don't feel ready." For every ten students who start out towards the CCNA qualification, nine quit. They don't quit because of laziness but because they became overwhelmed with information and didn't even know where to start. They sat down to study from one of the 'big name' manuals and half an hour later found themselves staring blankly at the same page. Can you imagine how frustrating that feels? You see, most authors throw you in at the deep end and expect you to get on with it. They forget that you have a full-time job, a long journey back home, family commitments and any number of challenges going on in your life. The last thing you have time for is to write out a detailed study plan with plenty of review sessions. If only somebody could tell you what to study each day, every day. If only you could open your study guide and see which bit of theory to read, which lab to do and which exam to take. You could then get on with the task of studying and getting that exam nailed. This is where Cisco CCNA in 60 Days comes in. Written in response to feedback from thousands of students using my online CCNA in 60 days program, my classroom courses and my other online Cisco training websites this book is the final piece in the studying puzzle. HOW IT WORKS Every day you read your theory module, you review yesterdays lesson, do a lab and then answer some review questions. The next day you do the same until you reach the review sessions where you cement all your knowledge with more labs and review as well as some practice exams. If that wasn't enough, you have a cram guide to read daily and an online Subnetting review site to really hone your subnetting skills. At the 30 day mark you can take your CCENT exam and move into your ICND2 study sessions or just take your CCNA exam at the end of 60 days. If you fall behind no problem, just pick up where you left off. WHAT'S COVERED? Every subject Cisco want you to know for your exams is covered with labs, theory, exams, reviews and crams. From RIP to OSPF, from VLSM to CIDR, IPv4 to IPv6, STP to CDP. Every exam topic is covered in detail many times over. Just when you think you are ready you are hit with challenge labs and more exams to ensure you are more than ready for the tricky Cisco exams. There are over 60 hand-on labs in total to help you build your configuration skills and confidence. ABOUT THE AUTHORS Paul Browning used to work at Cisco TAC but left in 2002 to start his own Cisco training company. He has authored several Cisco manuals as well as created one of the biggest online Cisco training websites used by many thousands of students. Farai Tafa is a dual CCIE who consults for large blue chip



companies in the USA. Daniel Gheorghe is a CCIE in Routing and Switching.

*CCNP Self-Study Cisco Systems*

This prep guide provides an introduction to the basics of networking, covers every CCNA exam objective with classroom-tested materials, and walks readers through setting up small routed networks with connections to the Internet. Real-world lab exercises and sample exam questions are located at the end of every chapter. The CD-ROM has freeware for monitoring Cisco routers.

*Cisco CCNA in 60 Days Prentice Hall*

Prepare for the new CCNP/CCDP Switching Exam #640-504 with the official Cisco coursebook. Webb comprehensively covers key exam topics in a tutorial format to help students prepare for certification while mastering Layer 2 switching technologies and Layer 3 routing services.

*CCNP Self-study Cisco Press*

Trust the best-selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. Master Cisco CCNA Wireless 640-722 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of the CCNA Wireless 640-722 Official Certification Guide. This eBook does not include the companion CD-ROM with practice exam that comes with the print edition. CCNA Wireless 640-722 Official Certification Guide presents you with an organized test preparation routine through the use of proven series elements and techniques. "Do I Know This Already?" quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. CCNA Wireless 640-722 Official Certification Guide focuses specifically on the objectives for the Cisco CCNA Wireless 640-722 exam. Expert network architect David Hucaby (CCIE No. 4594) shares 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 concise manner, focusing on increasing your understanding and retention of exam topics. Well regarded for its level of detail, assessment features, comprehensive design scenarios, and challenging review questions and exercises, this official study guide helps you master 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 CCNA Wireless 640-722 exam, including the following: RF signals, modulation, and standards Antennas WLAN topologies, configuration, and troubleshooting Wireless APs CUWN architecture Controller configuration, discovery, and maintenance Roaming Client configuration RRM Wireless security Guest networks WCS network management Interference CCNA Wireless 640-722 Official Certification Guide 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](http://www.cisco.com/go/authorizedtraining).

*CCNP Preparation Library Cisco Press*

Having led the market in deploying e-commerce, customer care, supply chain management, workforce optimization, e-learning, and e-publishing solutions, Cisco has developed frameworks

around strategies and tactics for successfully conducting business online. This Internet systems architecture provides a complete end-to-end solution, taking into account a variety of critical technology aspects such as availability, security, quality of service, and network management. CISS Architecture Essentials is based on the Cisco-developed training course of the same name and gives network engineers an introduction to building an Internet architecture to support new world applications. This book focuses on giving readers the knowledge needed to ensure consistent and scalable network specifications for e-business implementation. Important design considerations such as capacity, connectivity, availability, security, QoS, and network systems management are all discussed in terms of specific customer requirements.

**CCNA Self-study Apress**

The only early stage book authorized by Cisco Systems, this second edition is a self-study learning resource for CCNP and CCDP certification candidates preparing for the BCMSN 642-811 exam. Includes sample questions and answers and lab exercises in each chapter.

*CCNA Certification Practice Tests John Wiley & Sons*

Trust the best-selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. · Master Cisco CCNA 200-301 exam topics · Assess your knowledge with chapter-opening quizzes · Review key concepts with exam preparation tasks · Practice with realistic exam questions in the practice test software This is the eBook edition of the CCNA 200-301 Official Cert Guide, Volume 1. This eBook, combined with the CCNA 200-301 Official Cert Guide Volume 2, cover all of exam topics on the CCNA 200-301 exam. This eBook does not include the practice exams that comes with the print edition. CCNA 200-301 Official Cert Guide , Volume 1 presents you with an organized test-preparation routine using proven series elements and techniques. "Do I Know This Already?" quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. CCNA 200-301 Official Cert Guide, Volume 1 from Cisco Press enables you to succeed on the exam the first time and is the only self-study resource approved by Cisco. Best-selling author and expert instructor Wendell Odom shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. This complete study package includes · A test-preparation routine proven to help you pass the exams · Do I Know This Already? quizzes, which enable you to decide how much time you need to spend on each section · Chapter-ending and part-ending exercises, which help you drill on key concepts you must know thoroughly · The powerful Pearson Test Prep Practice Test software, complete with hundreds of well-reviewed, exam-realistic questions, customization options, and detailed performance reports · A free copy of the CCNA 200-301 Volume 1 Network Simulator Lite software, complete with meaningful lab exercises that help you hone your hands-on skills with the command-line interface for routers and switches · Links to a series of hands-on config labs developed by the author · Online, interactive practice exercises that help you hone your knowledge · More than 90 minutes of video mentoring from the author · A final preparation chapter, which guides you through tools and resources to help you craft your review and test-taking strategies · Study plan

suggestions and templates to help you organize and optimize your study time Well regarded for its level of detail, study plans, assessment features, challenging review questions and exercises, video instruction, and hands-on labs, this official study guide helps you master the concepts and techniques that ensure your exam success. The CCNA 200-301 Official Cert Guide, Volume 1, combined with CCNA 200-301 Official Cert Guide, Volume 2, walk you through all the exam topics found in the Cisco 200-301 exam. Topics covered in Volume 1 include: · Networking fundamentals · Implementing Ethernet LANs · Implementing VLANs and STP · IPv4 addressing · IPv4 routing · OSPF · IPv6 · Wireless LANs Companion Website: The companion website contains the CCNA Network Simulator Lite software, online practice exercises, study resources, and 90 minutes of video training. In addition to the wealth of updated content, this new edition includes a series of free hands-on exercises to help you master several real-world configuration and troubleshooting activities. These exercises can be performed on the CCNA 200-301 Network Simulator Lite, Volume 1 software included for free on the companion website that accompanies this book. This software, which simulates the experience of working on actual Cisco routers and switches, contains the following 21 free lab exercises, covering topics in Part II and Part III, the first hands-on configuration sections of the book: 1. Configuring Local Usernames 2. Configuring Hostnames 3. Interface Status I 4. Interface Status II 5. Interface Status III 6. Interface Status IV 7. Configuring Switch IP Settings 8. Switch IP Address 9. Switch IP Connectivity I 10. Switch CLI Configuration Process I 11. Switch CLI Configuration Process II 12. Switch CLI Exec Mode 13. Setting Switch Passwords 14. Interface Settings I 15. Interface Settings II 16. Interface Settings III 17. Switch Forwarding I 18. Switch Security I 19. Switch Interfaces and Forwarding Configuration Scenario 20. Configuring VLANs Configuration Scenario 21. VLAN Troubleshooting Pearson Test Prep online system requirements: Browsers: Chrome version 73 and above; Safari version 12 and above; Microsoft Edge 44 and above Devices: Desktop and laptop computers, tablets running on Android v8.0 and iOS v13, smartphones with a minimum screen size of 4.7". Internet access required Pearson Test Prep offline system requirements: Windows 10, Windows 8.1; Microsoft .NET Framework 4.5 Client; Pentium-class 1 GHz processor (or equivalent); 512 MB RAM; 650 MB disk space plus 50 MB for each downloaded practice exam; access to the Internet to register and download exam databases

[CCNP Routing and Switching ROUTE 300-101 Official Cert Guide](#) Pearson Education

Learn introductory networking concepts and technologies with the CCNA self-study guide. This foundation knowledge is essential for success on the CCNA exam, and contains an introduction to the most popular networking concepts, technologies, and devices.

[CCNA 200-301 Official Cert Guide, Volume 2](#) Pearson Education

Describes the objectives of the CCNA INTRO exam and provides information on such topics as network types, switching fundamentals, TCP/IP, WAN technologies, IOS devices, and managing network environments.

**CCNP Practical Studies** Cisco Press

The official BCRAN courseware from Cisco Systems!

*CCNA Self-study* Cisco Press

Interconnecting Cisco Network Devices, Part 1 (ICND1), Second Edition, is a Cisco®-authorized, self-paced learning tool for CCENT™ and CCNA® foundation learning. This book provides you with the

knowledge needed to configure Cisco switches and routers to operate in corporate internetworks. By reading this book, you will gain a thorough understanding of concepts and configuration procedures required to build a multiswitch, multirouter, and multigroup internetwork that uses LAN and WAN interfaces for the most commonly used routing and routed protocols. In Interconnecting Cisco Network Devices, Part 1 (ICND1), you will study installation and configuration information that network administrators need to install and configure Cisco products. Specific topics include building a simple network, Ethernet LANs, wireless LANs (WLANs), LAN and WAN connections, and network management. Chapter-ending review questions illustrate and help solidify the concepts presented in the book. Whether you are preparing for CCENT or CCNA certification or simply want to gain a better understanding of how to build small Cisco networks, you will benefit from the foundation information presented in this book. Interconnecting Cisco Network Devices, Part 1 (ICND1), 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](http://www.cisco.com/go/authorizedtraining). Steve McQuerry, CCIE® No. 6108, is a consulting systems engineer with Cisco. He focuses on data center architecture. Steve works with enterprise customers in the Midwestern United States to help them plan their data center architectures. Steve has been an active member of the internetworking community since 1991 and has held multiple certifications from Novell, Microsoft, and Cisco. Prior to joining Cisco, Steve worked as an independent contractor with Global Knowledge where he taught and developed coursework around Cisco technologies and certifications. Understand the principles on which basic networks operate Explore the operation and configuration of LANs Extend the boundaries of the network by implementing and securing wireless connectivity Configure routers to provide connectivity between different networks Learn about IP addressing number conversion Establish WAN interconnectivity using point-to-point links, DSL, and cable services Configure Network Address Translation (NAT) Use Cisco IOS® commands to determine the layout of a Cisco network topology Manage the router startup and work with IOS configuration files and Cisco IOS images This volume is in the Certification Self-Study Series offered by Cisco Press®. Books in this series provide officially developed self-study solutions to help networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations. Category: Cisco Press–Cisco Certification Covers: ICND1 Exam 640-822

**Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide** Cisco Press

This book is a concise one-stop desk reference and synopsis of basic knowledge and skills for Cisco certification prep. For beginning and experienced network engineers tasked with building LAN, WAN, and data center connections, this book lays out clear directions for installing, configuring, and troubleshooting networks with Cisco devices. The full range of certification topics is covered, including all aspects of IOS, NX-OS, and ASA software. The emphasis throughout is on solving the real-world challenges engineers face in configuring network devices, rather than on exhaustive descriptions of hardware features. This practical desk companion doubles as a comprehensive overview of the basic knowledge and skills needed by CCENT, CCNA, and CCNP exam takers. It distills a comprehensive library of cheat sheets, lab configurations, and advanced commands that

the authors assembled as senior network engineers for the benefit of junior engineers they train, mentor on the job, and prepare for Cisco certification exams. Prior familiarity with Cisco routing and switching is desirable but not necessary, as Chris Carthern, Dr. Will Wilson, Noel Rivera, and Richard Bedwell start their book with a review of the basics of configuring routers and switches. All the more advanced chapters have labs and exercises to reinforce the concepts learned. This book differentiates itself from other Cisco books on the market by approaching network security from a hacker's perspective. Not only does it provide network security recommendations but it teaches you how to use black-hat tools such as oclHashcat, Loki, Burp Suite, Scapy, Metasploit, and Kali to

actually test the security concepts learned. Readers of Cisco Networks will learn How to configure Cisco switches, routers, and data center devices in typical corporate network architectures The skills and knowledge needed to pass Cisco CCENT, CCNA, and CCNP certification exams How to set up and configure at-home labs using virtual machines and lab exercises in the book to practice advanced Cisco commands How to implement networks of Cisco devices supporting WAN, LAN, and data center configurations How to implement secure network configurations and configure the Cisco ASA firewall How to use black-hat tools and network penetration techniques to test the security of your network