### Nice Trace Traceroute

Todd Lammle

Implementing Cisco Networking Solutions Harpreet Singh, 2017-09-29 Learn the art of designing, implementing, and managing Cisco's networking solutions on datacenters, wirelessly, security and mobility to set up an Enterprise network. About This Book Implement Cisco's networking solutions on datacenters and wirelessly, Cloud, Security, and Mobility Leverage Cisco IOS to manage network infrastructures. A practical guide that will show how to troubleshoot common issues on the network. Who This Book Is For This book is targeted at network designers and IT engineers who are involved in designing, configuring, and operating enterprise networks, and are in taking decisions to make the necessary network changes to meet newer business needs such as evaluating new technology choices, enterprise growth, and adding new services on the network. The reader is expected to have a general understanding of the fundamentals of networking, including the OSI stack and IP addressing. What You Will Learn Understand the network lifecycle approach Get to know what makes a good network design Design components and technology choices at various places in the network (PINS) Work on sample configurations for network devices in the LAN/ WAN/ DC, and the wireless domain Get familiar with the configurations and best practices for securing the network Explore best practices for network operations In Detail Most enterprises use Cisco networking equipment to design and implement their networks. However, some networks outperform networks in other enterprises in terms of performance and meeting new business demands, because they were designed with a visionary approach. The book starts by describing the various stages in the network lifecycle and covers the plan, build, and operate phases. It covers topics that will help network engineers capture requirements, choose the right technology, design and implement the network, and finally manage and operate the network. It divides the overall network into its constituents depending upon functionality, and describe the technologies used and the design considerations for each functional area. The areas covered include the campus wired network, wireless access network, WAN choices, datacenter technologies, and security technologies. It also discusses the need to identify business-critical applications on the network, and how to prioritize these applications by deploying QoS on the network. Each topic provides the technology choices, and the scenario, involved in choosing each technology, and provides configuration guidelines for configuring and implementing solutions in enterprise networks. Style and approach A step-by-step practical guide that ensures you implement Cisco solutions such as enterprise networks, cloud, and data centers, on small-to-large organizations.

Mac OS X Panther in a Nutshell Chuck Toporek, Chris Stone, Jason McIntosh, 2004 Complete overview of Mac OS Jaguar (Mac OS X 10.2) including basic system and network administration features, hundreds of tips and tricks, with an overview of Mac OS X's Unix text editors and CVS.

**PfSense 2 Cookbook** Matt Williamson, 2011-03-23 Master Wicket by example by implementing real-life solutions to every day tasks.

Network Troubleshooting Tools Joseph D Sloan, 2001-08-09 Over the years, thousands of tools have been developed for debugging TCP/IP networks. They range from very specialized tools that do one particular task, to generalized

suites that do just about everything except replace bad Ethernet cables. Even better, many of them are absolutely free. There's only one problem: who has time to track them all down, sort through them for the best ones for a particular purpose, or figure out how to use them?Network Troubleshooting Tools does the work for you--by describing the best of the freely available tools for debugging and troubleshooting. You can start with a lesser-known version of ping that diagnoses connectivity problems, or take on a much more comprehensive program like MRTG for graphing traffic through network interfaces. There's tkined for mapping and automatically monitoring networks, and Ethereal for capturing packets and debugging low-level problems. This book isn't just about the tools available for troubleshooting common network problems. It also outlines a systematic approach to network troubleshooting: how to document your network so you know how it behaves under normal conditions, and how to think about problems when they arise, so you can solve them more effectively. The topics covered in this book include: Understanding your network Connectivity testing Evaluating the path between two network nodes Tools for capturing packets Tools for network discovery and mapping Tools for working with SNMP Performance monitoring Testing application layer protocols Software sources If you're involved with network operations, this book will save you time, money, and needless experimentation.

Sixth International Conference on Intelligent Computing and Applications Subhransu Sekhar Dash, Bijaya Ketan Panigrahi, Swagatam Das, 2021-07-27 This book presents the peer-reviewed proceedings of the Sixth International Conference on Intelligent Computing and Applications (ICICA 2020), held at Government College of Engineering, Keonjhar, Odisha, India, during December 22–24, 2020. The book includes the latest research on advanced computational methodologies such as neural networks, fuzzy systems, evolutionary algorithms, hybrid intelligent systems, uncertain reasoning techniques, and other machine learning methods and their applications to decision-making and problem-solving in mobile and wireless communication networks.

Cisco IOS in a Nutshell James Boney,2005-08-22 Cisco routers are everywhere that networks are. They come in all sizes, from inexpensive units for homes and small offices to equipment costing well over \$100,000 and capable of routing at gigabit speeds. A fixture in today's networks, Cisco claims roughly 70% of the router market, producing high-end switches, hubs, and other network hardware. One unifying thread runs through the product line: virtually all of Cisco's products run the Internetwork Operating System, or IOS. If you work with Cisco routers, it's likely that you deal with Cisco's IOS software--an extremely powerful and complex operating system, with an equally complex configuration language. With a cryptic command-line interface and thousands of commands--some of which mean different things in different situations--it doesn't have a reputation for being user-friendly. Fortunately, there's help. This second edition of Cisco IOS in a Nutshell consolidates the most important commands and features of IOS into a single, well-organized volume that you'll find refreshingly user-friendly. This handy, two-part reference covers IOS configuration for the TCP/IP protocol family. The first section includes chapters on the user interface, configuring lines and interfaces, access lists, routing protocols, and dial-on-demand routing and security. A brief, example-filled tutorial shows you how to accomplish common tasks. The second part is a classic

O'Reilly quick reference to all the commands for working with TCP/IP and the lower-level protocols on which it relies. Brief descriptions and lists of options help you zero in on the commands you for the task at hand. Updated to cover Cisco IOS Software Major Release 12.3, this second edition includes lots of examples of the most common configuration steps for the routers themselves. It's a timely guide that any network administrator will come to rely on.

ASP.NET Core 2 High Performance James Singleton, 2017-10-11 Learn how to develop web applications that deploy cross-platform and are optimized for high performance using ASP.NET Core 2 About This Book Master high-level web app performance improvement techniques using ASP.NET Core 2.0 Find the right balance between premature optimization and inefficient code Design workflows that run asynchronously and are resilient to transient performance issues Who This Book Is For This book is aimed for readers who can build a web application and have some experience with ASP.NET or some other web application framework (such as Ruby on Rails or Django). They can be people who are happy learning details independently but who struggle to discover the topics that they should be researching. The reader should be interested in improving the performance of their web app and in learning about ASP.NET Core and modern C#. What You Will Learn Understand ASP.NET Core 2 and how it differs from its predecessor Address performance issues at the early stages of development Set up development environments on Windows, Mac, and Linux Measure, profile and find the most significant problems Identify the differences between development workstations and production infrastructures, and how these can exacerbate problems Boost the performance of your application but with an eye to how it affects complexity and maintenance Explore a few cutting-edge techniques such as advanced hashing and custom transports In Detail The ASP.NET Core 2 framework is used to develop highperformance and cross-platform web applications. It is built on .NET Core 2 and includes significantly more framework APIs than version 1. This book addresses high-level performance improvement techniques. It starts by showing you how to locate and measure problems and then shows you how to solve some of the most common ones. Next, it shows you how to get started with ASP.NET Core 2 on Windows, Mac, Linux, and with Docker containers. The book illustrates what problems can occur as latency increases when deploying to a cloud infrastructure. It also shows you how to optimize C# code and choose the best data structures for the job. It covers new features in C# 6 and 7, along with parallel programming and distributed architectures. By the end of this book, you will be fixing latency issues and optimizing performance problems, but you will also know how this affects the complexity and maintenance of your application. Finally, we will explore a few highly advanced techniques for further optimization. Style and approach A step-by-step practical quide filled with real-world use cases and examples

Nmap Network Exploration and Security Auditing Cookbook Paulino Calderon, 2021-09-13 A complete reference guide to mastering Nmap and its scripting engine, covering practical tasks for IT personnel, security engineers, system administrators, and application security enthusiasts Key FeaturesLearn how to use Nmap and other tools from the Nmap family with the help of practical recipesDiscover the latest and most powerful features of Nmap and the Nmap Scripting EngineExplore common security checks for applications, Microsoft Windows environments, SCADA, and

mainframesBook Description Nmap is one of the most powerful tools for network discovery and security auditing used by millions of IT professionals, from system administrators to cybersecurity specialists. This third edition of the Nmap: Network Exploration and Security Auditing Cookbook introduces Nmap and its family - Ncat, Ncrack, Ndiff, Zenmap, and the Nmap Scripting Engine (NSE) - and guides you through numerous tasks that are relevant to security engineers in today's technology ecosystems. The book discusses some of the most common and useful tasks for scanning hosts, networks, applications, mainframes, Unix and Windows environments, and ICS/SCADA systems. Advanced Nmap users can benefit from this book by exploring the hidden functionalities within Nmap and its scripts as well as advanced workflows and configurations to fine-tune their scans. Seasoned users will find new applications and third-party tools that can help them manage scans and even start developing their own NSE scripts. Practical examples featured in a cookbook format make this book perfect for quickly remembering Nmap options, scripts and arguments, and more. By the end of this Nmap book, you will be able to successfully scan numerous hosts, exploit vulnerable areas, and gather valuable information. What you will learnScan systems and check for the most common vulnerabilitiesExplore the most popular network protocolsExtend existing scripts and write your own scripts and librariesIdentify and scan critical ICS/SCADA systemsDetect misconfigurations in web servers, databases, and mail serversUnderstand how to identify common weaknesses in Windows environmentsOptimize the performance and improve results of scansWho this book is for This Nmap cookbook is for IT personnel, security engineers, system administrators, application security enthusiasts, or anyone who wants to master Nmap and its scripting engine. This book is also recommended for anyone looking to learn about network security auditing, especially if they're interested in understanding common protocols and applications in modern systems. Advanced and seasoned Nmap users will also benefit by learning about new features, workflows, and tools. Basic knowledge of networking, Linux, and security concepts is required before taking up this book.

CCNA: Cisco Certified Network Associate Todd Lammle, 2008-02-11 Organized by exam objectives, this is a focused, concise review guide that works hand-in-hand with any learning tool, including the Sybex CCNA: Cisco Certified Network Associate Study Guide, 6th and Deluxe editions. The book will consist of four high-level chapters, each mapping to the four main Domains of the exam skill-set. The book will drill down into the specifics of the exam, covering the following: Designing Cisco internetworks Developing an access list Evaluating TCP/IP communication Configuring routers and switches Configuring IP addresses, subnet masks, and gateway addresses Performing LAN, VLAN, and WAN troubleshooting Understanding rules for packet control The interactive CD contains two bonus exams, handy flashcard guestions, and a searchable PDF of a Glossary of Terms.

Network+ Training Guide Drew Bird, Mike Harwood, 2002 Annotation The authoritative solution to passing the Network+ exam! Has CompTIAs Authorized Quality Curriculum (CAQC) stamp of approval. Features exam tips, study strategies, review exercises, case studies, practice exams, ExamGear testing software, and more. This exam certifies that candi20020822s know the layers of the OSI model, can describe the features and functions of network components and have the skills needed to install, configure, and troubleshoot basic networking hardware

peripherals and protocols. The Network+ exam, developed by CompTIA, is only two years old but already is held by 50,000 individuals. Readers preparing for this exam will find our Training Guide series to be an indispensiblenbsp;self-study tool. This book is their one-stop shop because of its teaching methodology, the accompanying ExamGear testing software, and Web site support at www.quepublishing.com/certification. Drew Bird(MCNI, MCNE, MCT, MCSE, MCP+I) has been working in the IT industry for over 12 years, instructing for the past five. Drew has completed technical training and consultancy assignments for a wide variety of organizations including the Bank of England, The London Stock Exchange, Iomega and the United Nations. Mike Harwood(MCT, MCSE, A+) has 6+ years experience in IT. As well as training and authoring technical courseware, he currently acts as a system manager for a multi site network and performs consultancy projects for a computer networking company. As a team, they have written Network+ Exam Cram(Coriolis) and Network+ Exam Prep(Coriolis).

<u>CCENT: Cisco Certified Entry Networking Technician Study Guide</u> Todd Lammle,2008-05-27 Start your preparation for Cisco's new CCENT entry-level networking certification, your entry point into Cisco's popular CCNA certification track. This comprehensive study guide from leading Cisco authority Todd Lammle thoroughly prepares you for the Interconnecting Cisco Networking Devices, Part 1 exam (640-822) and the start of a career, with pages of exam essentials, real-world scenarios, and hands-on exercises. Topics include the operation of data networks, how to implement both switched and routed networks, and much more. For Instructors: Teaching supplements are available for this title.

CCNA Certification All-In-One For Dummies Silviu Angelescu,2010-03-16 A complete preparation guide for the entry-level networking CCNA certification If you're planning to advance your career by taking the all-important Cisco Certified Network Associate (CCNA), this is the study guide you need! Seven minibooks cover all the concepts and topics on which you'll be tested, covering the latest version of the exam. Each part of the exam is covered thoroughly in its own section, so you can readily find the information you want to study. Plenty of review questions help you prepare, and the companion CD-ROM includes the highly rated Dummies Test Engine so you can test your progress with questions based on exam content. The Cisco Certified Network Associate (CCNA) is the entry-level certification for network professionals Seven minibooks in this guide cover Secure Device Manager, Virtual Private Networks, IPv6, 2960 Switches, Cisco Network Assistant, Advanced EIGRP and OSPF, and Introduction to Wireless Networks Covers the latest version of the exam, including the new voice, security and wireless components added in 2008 Packed with review questions to help you prepare Includes more security and troubleshooting information CD-ROM includes the popular Dummies Test Engine, an exclusive, fully customizable test-prep software package that features twice as many sample questions as the previous version CCNA Certification All-In-One For Dummies is the preparation guide you need to earn your CCNA certification. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

CompTIA Network+ N10-005 Exam Cram Emmett A. Dulaney, Michael Harwood, 2011-11-30 Prepare for CompTIA Network+ N10-005 exam success with this CompTIA Authorized Exam Cram from Pearson IT Certification, a leader in IT

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<u>Passive and Active Measurement</u> David Choffnes, Marinho Barcellos, 2019-03-12 This book constitutes the proceedings of the 20th International Conference on Passive and Active Measurement, PAM 2019, held in Puerto Varas, Chile, in March 2019. The 20 full papers presented were carefully reviewed and selected from 75 submissions. The papers cover a wide range of important networking measurement and analysis topics from low layers of the network stack up to applications, using measurements at scales large and small, and covering important aspects of the network ecosystem such as routing, DNS, privacy, security, and performance. They are organized in the following topical sections: mobile networks; measurement at Internet scale; measuremen at other scales; domain names; failures; security and privacy; and Web.

CCNA Routing and Switching Complete Study Guide Todd Lammle, 2016-10-18 Cisco has announced big changes to its certification program. As of February 24, 2020, all current certifications will be retired, and Cisco will begin offering new certification programs. The good news is if you're working toward any current CCNA certification, keep going. You have until February 24, 2020 to complete your current CCNA. If you already have CCENT/ICND1 certification and would like to earn CCNA, you have until February 23, 2020 to complete your CCNA certification in the current program. Likewise, if you're thinking of completing the current CCENT/ICND1, ICND2, or CCNA Routing and Switching certification, you can still complete them between now and February 23, 2020. Networking's leading authority joins Sybex for the ultimate CCNA prep guide CCNA Routing and Switching Complete Study Guide, 2nd Edition is your comprehensive review for the CCNA exams. Written by the leading authority on networking technology, this guide covers 100% of all objectives for the latest ICND1, ICND2, and CCNA Composite exams. Handson labs help you gain experience in critical procedures and practices. Gain access to the Sybex online learning environment, featuring a robust set of study tools including: practice questions, flashcards, video instruction, and an extensive glossary of terms to help you better prepare for exam day. The pre-assessment test helps you prioritize your study time, and bonus practice exams allow you to test your understanding. The CCNA certification is essential to a career in networking, and the exam can be taken in two parts or as a composite. Whichever you choose, this book is your essential guide for complete review. Master IP data network operation Troubleshoot issues and keep the network secure Understand switching and routing technologies Work with IPv4 and IPv6 addressing Full coverage and expert insight makes CCNA Routing and Switching Complete Study Guide your ultimate companion for CCNA prep.

CCNA Routing and Switching Complete Review Guide Todd Lammle,2016-12-13 Cisco has announced big changes to its certification program. As of February 24, 2020, all current certifications will be retired, and Cisco will begin offering new certification programs. The good news is if you're working toward any current CCNA certification, keep going. You have until February 24, 2020 to complete your current CCNA. This means if you already have CCENT/ICND1 certification and would like to earn CCNA, you have until February 23, 2020 to complete your CCNA certification in the current program. Likewise, if you're thinking of completing the current CCENT/ICND1, ICND2, or CCNA Routing and Switching certification, you can still complete them between now and February 23, 2020. Tight, focused CCNA review covering all three exams The CCNA Routing and Switching Complete Review Guide offers clear, concise review for Exams 100-105, 200-105, and 200-125. Written by best-selling certification author and Cisco guru Todd Lammle, this guide is your ideal resource for quick review and reinforcement of key topic areas. This second edition has been updated to align with the latest versions of the exams, and works alongside the Sybex CCNA Routing and Switching Complete Study Guide, 2nd Edition. Coverage includes LAN switching technologies, IP routing, IP services, IPv4 and IPv6 addressing, network device security, WAN technologies, and troubleshooting—providing 100% coverage of all objectives for the CCNA ICND1, ICND2, and Composite exams. The Sybex online learning environment gives you access to additional study tools, including practice exams and flashcards to give you

additional review before exam day. Prepare thoroughly for the ICND1, ICND2, and the CCNA Composite exams Master all objective domains, mapped directly to the exams Clarify complex topics with guidance from the leading Cisco expert Access practice exams, electronic flashcards, and more Each chapter focuses on a specific exam domain, so you can read from beginning to end or just skip what you know and get right to the information you need. This Review Guide is designed to work hand-in-hand with any learning tool, or use it as a stand-alone review to gauge your level of understanding. The CCNA Routing and Switching Complete Review Guide, 2nd Edition gives you the confidence you need to succeed on exam day.

CCNA Routing and Switching Review Guide Todd Lammle, 2013-12-18 Todd Lammle's focused, concise review guide, updated for the latest CCNA exams CCNA is one of the most sought after certifications for IT professionals. If you're preparing for the CCNA Routing and Switching certification, this Sybex review guide offers the best quick review available. Organized by exam objective, it's the perfect supplement to other learning tools, including the Sybex CCNA Routing and Switching Study Guide (ISBN: 9781118749616). All exam topics from exams 100-101, 200-101, and 200-120 are thoroughly covered, and additional study materials including bonus exams, electronic flashcards, and a searchable glossary of terms are also available. Organized by exam objectives, this Sybex review guide provides a thorough and intensive review of all topics required for the CCNA Routing and Switching certification exams Lead author Todd Lammle is a Cisco networking authority and the bestselling author of numerous Cisco examprep books Covers exams 100-101, 200-101, and 200-120, and is a perfect companion to Sybex's CCNA Routing and Switching Study Guide Additional study materials are available, including bonus practice exams, electronic flashcard questions, and a glossary of terms in searchable PDF form Using the CCNA Routing and Switching Review Guide will boost your confidence as you approach exams 100-101, 200-101, and 200-120.

CCENT ICND1 Study Guide Todd Lammle, 2016-07-05 Cisco has announced big changes to its certification program. As of February 24, 2020, all current certifications will be retired, and Cisco will begin offering new certification programs. The good news is if you're working toward any current CCNA certification, keep going. You have until February 24, 2020 to complete your current CCNA. If you already have CCENT/ICND1 certification and would like to earn CCNA, you have until February 23, 2020 to complete your CCNA certification in the current program. Likewise, if you're thinking of completing the current CCENT/ICND1, ICND2, or CCNA Routing and Switching certification, you can still complete them between now and February 23, 2020. Complete CCENT preparation with hands-on practice and robust study aids The CCENT Study Guide, 3rd Edition offers complete conceptual and practical study tools for the Cisco Certified Entry Networking Technician exam. Written by networking expert Todd Lammle, this study guide provides everything you need to pass the CCENT with flying colors. 100% coverage of the all exam objectives includes detailed discussion on IP data networks, IPv4 and IPv6 addressing, switching and routing, network security, and much more. Todd draws on 30 years of experience to give you practical examples and real-world insights that go way beyond exam prep, and plenty of hands-on labs help you gain experience with important tasks. The Sybex interactive online learning tools include a pre-assessment test to show you how much you already know,

two bonus ICND-1 practice exams to test your understanding, and hundreds of sample questions and over 100 flashcards provide quick review. The CCENT is the entry-level certification for those looking to break into the networking field. As a part of the CCNA certification process, the exam is comprehensive—and a comprehensive study guide is essential. This study guide helps you develop the skills and knowledge you need to be confident on exam day. Review all CCENT exam objectives Access online study tools and practice ICND1 exams Get hands-on experience with dozens of labs Master switching and routing, troubleshooting, security, and more Don't bother parsing technical references or trying to figure it out yourself. This book allows you to learn and review with networking's leading authority, with clear explanations, practical instruction, and real-world insight. When you're ready for the next step in your career, the CCENT Study Guide, 3rd Edition gets you on track to succeed on the CCENT exam.

CompTIA Network+ N10-006 Exam Cram Emmett Dulaney, 2015-05-15 Prepare for CompTIA Network+ N10-006 exam success with this CompTIA authorized Exam Cram from Pearson IT Certification, a leader in IT Certification learning and a CompTIA Authorized Platinum Partner. This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Access to the digital edition of the Cram Sheet is available through product registration at Pearson IT Certification, or see instructions in the back pages of your eBook. CompTIA® Network+ N10-006 Exam Cram, Fifth Edition is the perfect study guide to help you pass the CompTIA Network+ N10-006 exam. It provides coverage and practice questions for every exam topic, including substantial new coverage of security, cloud networking, IPv6, and wireless technologies. The book presents you with an organized test preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Exam Alerts, sidebars, and Notes interspersed throughout the text keep you focused on what you need to know. Cram Quizzes help you assess your knowledge, and the Cram Sheet tear card is the perfect last-minute review. Covers the critical information you'll need to know to score higher on your CompTIA Network+ (N10-006) exam! --Understand modern network topologies, protocols, and infrastructure --Implement networks based on specific requirements --Install and configure DNS and DHCP --Monitor and analyze network traffic --Understand IPv6 and IPv4 addressing, routing, and switching --Perform basic router/switch installation and configuration -- Explain network device functions in cloud environments -- Efficiently implement and troubleshoot WANs --Install, configure, secure, and troubleshoot wireless networks --Apply patches/updates, and support change/configuration management --Describe unified communication technologies --Segment and optimize networks --Identify risks/threats, enforce policies and physical security, configure firewalls, and control access --Understand essential network forensics concepts -- Troubleshoot routers, switches, wiring, connectivity, and security

CCNA Routing and Switching Complete Deluxe Study Guide Todd Lammle, 2016-10-03 Cisco has announced big changes to its certification program. As of February 24, 2020, all current certifications will be retired, and Cisco will begin offering new certification programs. The good news is if you're working toward any current CCNA

certification, keep going. You have until February 24, 2020 to complete your current CCNA. If you already have CCENT/ICND1 certification and would like to earn CCNA, you have until February 23, 2020 to complete your CCNA certification in the current program. Likewise, if you're thinking of completing the current CCENT/ICND1, ICND2, or CCNA Routing and Switching certification, you can still complete them between now and February 23, 2020. The bestselling CCNA prep guide with the field's leading Cisco authority CCNA Routing and Switching Complete Deluxe Study Guide, 2nd Edition is a leading resource for those taking the Cisco Certified Network Associate exams. Whether you're taking the CCNA Composite exam or the ICND-1 and ICND-2, this Deluxe Study Guide has you covered with clear, expert guidance and plenty of hands-on labs. Networking expert Todd Lammle guides you through 100% of the exam objectives with detailed discussion and real-world insight on routing and switching, IP data networks, troubleshooting, security, and more. Examples and exercises help you gain practical experience in critical skills. The Sybex interactive online learning environment includes hundreds of sample questions, over 100 electronic flashcards, a pre-assessment test, and bonus practice exams to help you test your understanding and gauge your readiness along the way. As 80% of the Internet's routers are Cisco, the CCNA certification is an important start for any networking career. Make sure you're fully prepared for the exam with this comprehensive Deluxe Study Guide. Master 100% of the objectives for all three exams Gain practical experience with dozens of hands-on labs Test your knowledge with bonus practice exams When it comes to networking technologies, there's no substitute for hands-on experience. Reading best practices is one thing, but it's not enough to pass the exam—or do the job. CCNA Routing and Switching Complete Deluxe Study Guide, 2nd Edition gives you everything you need to understand networking concepts, and demonstrate those skills on exam day and beyond.

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