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Home / Study Guides / CCNA Routing & Switching 200-125 CCNA Routing & Switching 200-125 freeccna 2019-03-06T16:10:32-06:00 Chapter 1 – Understanding Networks and their Building Blocks

CCNA Routing & Switching 200-125 - Free CCNA Study Guide

The CCNA Routing and Switching 200-125 Network Simulator is a single-user software package. It helps users develop and improve hands-on configuration and troubleshooting skills without the investment in expensive lab hardware.

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Welcome to this course: Cisco Certified Network Associate (200-301) - The Complete Course. This course covers the accelerated CCNA certification exam. It will help you stay up-to date with your networking skills, you'll find information here that will ensure your success as you pursue knowledge, experience, and certification.

Cisco Certified Network Associate (200-301): Complete ...

CCNA Routing & Switching ICND2 200-105 Official Cert Guide Academic Edition F3B. \$38.00. Free shipping . CCNA Routing and Switching Complete Certification Kit by Todd Lammle. \$19.95. shipping: - \$3.99 shipping . CCNA Collaboration CICO 210-060 Official Cert Guide, 1/e by Valentine. \$12.30.

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The exciting new Cisco CCNA Routing and Switching ICND2 200-101 Official Cert Guide, Premium Edition eBook and Practice Test is a digital-only certification preparation product combining an eBook with enhanced Pearson IT Certification Practice Test.

CCNA Routing and Switching ICND2 200-101 Official Cert ...

200-301 is a single exam, consisting of about 120 questions. It covers a wide range of topics, such as routing and switching, security, wireless networking, and even some programming concepts. As with other Cisco certifications, you can take it at any of the Pearson VUE certification centers. About the new curriculum

New CCNA exam - 200-301

viii Cisco CCNA Routing and Switching 200-120 Flash Cards and Exam Practice Pack. Introduction. Since the Cisco career certification programs were announced in 1998, they have been the most sought-after and prestigious certifications in the networking industry.

Cisco CCNA Routing and Switching - pearsoncmg.com

This exam tests a candidate's knowledge and skills related to network fundamentals, LAN switching technologies, IPv4 and IPv6 routing technologies.

200-125 CCNA - Cisco

Achieving CCNA certification is the first step in preparing for a career in IT technologies. To earn CCNA certification, you pass one exam that covers a broad range of fundamentals for IT careers, based on the latest networking technologies, software development skills, and job roles.

CCNA - Training & Certifications - Cisco

Description. Routing and Switching 200-125 Exam Prep LiveLessons Library provides more than 17 hours of video training detailing common exam traps, pitfalls, and difficulties on the Cisco CCENT ICND1 100-105, CCNA ICND2 200-105, and CCNA 200-125 exams. This product focuses on giving you the tools you need to pass these exams.

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2017/3/29 35 CCNA Routing and Switching Practice and Study Guide Exam 200-120 PAT ?? s0/1/0 ? IP ?? PC1 ?? ping ? Web Browser ????? Web Server ????? PAT ????????????? CCNA Routing and Switching Practice and Study Guide Exam 200-120 ?? 6. Refer to the exhibit.

2017329 34 CCNA Routing and Switching Practice and Study ...

The Cisco Certified Network Associate v1.0 (CCNA 200-301) exam is a 120-minute exam associated with the CCNA certification. This exam tests a candidate's knowledge and skills related to network fundamentals, network access, IP connectivity, IP services, security fundamentals, and automation and programmability.

CCNA Exam Topics - Cisco

Cisco Certified Network Associate (CCNA) Routing and Switching is one of the most important qualifications for keeping your networking skills up to date. CCNA Routing and Switching 200-125 Certification Guide covers topics included in the latest CCNA exam, along with review and practice questions. This guide introduces you to the structure of IPv4 and IPv6 addresses and examines in detail the creation of IP networks and sub-networks and how to assign addresses in the network.

CCNA Routing and Switching 200-125 Certification Guide

Welcome to CCNA Routing and Switching 200–125 Exam Cram! This book covers the accelerated CCNA certification exam. Whether this is your first or your fifteenth Exam Cram, you'll find information here that will ensure your success as you pursue knowledge, experience, and certification.

CCNA Routing and Switching - pearsoncmg.com

CCNA Routing and Switching 200-125 Exam Cram, Fifth Edition, is the perfect study guide to help you pass the Cisco 200-125 CCNA exam, providing coverage and practice questions for every exam topic. The book contains an extensive set of preparation tools, including topic overviews, ExamAlerts, CramSavers, CramQuizzes, chapter-ending review questions, author notes and tips, and an extensive glossary.

CCNA Routing and Switching 200-125 Exam Cram ...

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CCNA Routing and Switching 200-125 Official Cert Guide ...

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Note - this version is for instructor led classroom use only. If you are looking for the self study version the ISBN for that is 978-0-7897-5088-0. Cisco CCNA Routing and Switching 200-120 Network Simulatorhelps students in the classroom develop and improve hands-on configuration and troubleshooting skills without the investment in expensive lab hardware. This state-of-the-art, interactive simulation software enables you to practice your networking skills with almost 400 structured labs designed to help you learn by doing, the most effective method of learning. Topics covered include router and switch navigation and administration, Ethernet LAN switches, VLANs and trunking, Spanning Tree Protocol (STP), IPv4 and IPv6 addressing and subnetting, VLSM, route summarization, IPv4 Access Control Lists (ACL), Network Address Translation (NAT), DHCP, HSRP, GLBP, router on a stick (ROAS), operating Cisco routers, IPv4 and IPv6 routing, OSPF configuration and troubleshooting, EIGRP configuration and troubleshooting, Frame Relay, network management, SNMP, IOS licensing, and network troubleshooting. Experience realistic network device responses as you perform each lab, which include detailed instructions, topology diagrams, critical-thinking questions, hints, and answers. Working through the labs, you will quickly become proficient with all the common Cisco IOS version 15 router and switch commands on the CCNA Routing and Switching exam. Choose from almost 400 labs organized by lab type or by topic. Track your progress with the lab status indicator, and use the new search feature to search for commands and keywords. Review lab objectives and step-by-step instructions within each lab, opening hints and tips sections that help you when you get stuck. Record your observations on device performance in interactive tabs. Enter answers to critical thinking questions and get instant feedback to verify your work. Access performance reports in this easy-to-navigate graph history screen, which store all your attempts on each lab. View device configuration details, lab question performance, time to complete each lab, and CLI activity for each device in every lab. Export lab results to PDF files for easy sharing. Unlike other simulators on the market, the lab scenarios included in the Cisco CCNA Routing and Switching 200-120 Network Simulatorare far more complex, challenging you to learn how to perform real-world network configuration and troubleshooting tasks. Note - this version is for classroom use. The ISBN for the version for personal study is 978-0-7897-5088-0.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Cisco Press has the only self-study guides approved by Cisco for the new CCENT and CCNA Routing and Switching certifications. The new edition of the best-selling two-book value priced CCNA Official Cert Guide Library includes updated content, new online practice exercises, more than 600 practice exam questions, and more than 2 hours of video training, plus the CCENT and CCNA Network Simulator Lite Editions with 43 free Network Simulator labs. CCNA Routing and Switching 200-125 Official Cert Guide Library is a comprehensive review and practice package for the latest CCNA exams and is the only self-study resource approved by Cisco. The two books contained in this package, CCENT/CCNA ICND1 100-105 Official Cert Guide and CCNA Routing and Switching ICND2 200-105 Official Cert Guide, present complete reviews and more challenging and realistic preparation experiences. The books have been fully updated to refresh the content for the latest CCNA exam topics and to enhance certain key topics that are critical for exam success. 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 - Troubleshooting sections, which help you master the complex scenarios you will face on the exam - The powerful Pearson IT Certification Practice Test software, complete with hundreds of well-reviewed, exam-realistic questions, customization options, and detailed performance reports - A free copy of the CCNA ICND1 and ICND2 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 2 hours 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, these official study guides help you master the concepts and techniques that ensure your exam success. These official study guides help you master all the topics on the CCNA exams, including - Networking fundamentals - Implementing basic Ethernet LANs - Ethernet LANs: design, VLANs, and troubleshooting - IPv4 addressing and subnetting - Implementing IPv4 - IPv4 design and troubleshooting - IPv4 services: ACLs, NAT, and QoS - IPv4 routing protocols and routing - Wide area networks - IPv6 - Network management, SDN, and cloud computing

Cisco Press is the official publisher for the New CCENT & CCNA Routing and Switching Certifications. The New Edition of the Best-Selling two-book value priced CCNA Official Cert Guide Library includes Updated Content, New Exercises, 8 Practice Exams, and 150 Minutes of Video Training -- PLUS the CCENT and CCNA Network Simulator Lite Editions with 26 Free Network Simulator Labs. CCNA 200-120 Official Cert Guide Library is a comprehensive review and package for the latest CCNA exams. The two books contained in this package, CCENT / CCNA ICND1 100-101 Official Cert Guide and CCNA ICND2 200-101 Official Cert Guide, present complete reviews and a more challenging and realistic preparation experience. The books have been fully updated to refresh the content for the latest CCNA exam topics and enhance certain key topics that are critical for exam success. 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 - Troubleshooting sections, which help you master the complex scenarios you will face on the exam The powerful Pearson IT Certification Practice Test software, complete with hundreds of well-reviewed, exam-realistic questions, customization options, and detailed performance reports A free copy of the CCNA ICND1 and ICND2 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 More than 150 minutes of personal video mentoring from the author Final preparation chapters, which guide 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 These official study guides help you master all the topics on the CCNA exams, including: Networking fundamentals Ethernet LANs and switches IPv4 addressing and subnetting Operating Cisco routers Configuring OSPF ACLs and NAT IPv6 fundamentals, implementation, and troubleshooting LAN switching IPv4 routing VPNs OSPF and EIGRP configuration and troubleshooting Wide area networks and Frame Relay Network management Well regarded for its level of detail, study plans, assessment features, challenging review questions and exercises, video instruction, and hands-on labs, these official study guides help you master the concepts and techniques that ensure your exam success. CCNA 200-120 Official Cert Guide Library 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. Companion DVDs The DVDs contain two ICND1 practice exams, two ICND2 practice exams, four full CCNA practice exams, CCENT and CCNA Network Simulator Lite software, and 150 minutes of video training.

Prepare for the new CCNA exams with this Todd Lammle study guide Cisco author, speaker, and trainer Todd Lammle is considered the authority on all things networking, and his books have sold almost a million copies worldwide. This all-purpose CCNA study guide methodically covers all the objectives of the ICND1 (100-101) and ICND2 (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 technologies. Valuable study tools such as a companion test engine that includes hundreds of sample questions, a pre-assessment test, and multiple practice exams. Plus, you'll also get access to hundreds of electronic flashcards, author files, and a network simulator. CCNA candidates may choose to take either the ICND1(100-101) and ICND2 (200-101) exams or the CCNA Composite exam (200-120); this study guide covers the full objectives of all three Written by bestselling Sybex study guide author Todd Lammle, an acknowledged authority on all things Cisco Covers essential Cisco networking topics such as operating an IP data network, IP addressing, switching, and a routing technologies, troubleshooting, network device security, and much more Includes a comprehensive set of study tools including practice exams, electronic flashcards, comprehensive glossary of key terms, videos, and a network simulator that can be used with the book's hands-on labs Bonus Content: Access to over 40 MicroNugget videos from CBT Nuggets CCNA Routing and Switching Study Guide prepares you for CCNA certification success.

Prepare yourself for the next generation networking skills and acquire the knowledge needed to secure the routers. Key Features Build foundational Cisco networking skills and prepare yourself for next-generation network transformation Take practice questions and mock tests to check how prepared you are for the CCNA exam Gain a strong understanding of network communication with the help of practical examples Book Description Cisco Certified Network Associate (CCNA) Routing and Switching is one of the most important qualifications for keeping your networking skills up to date. CCNA Routing and Switching 200-125 Certification Guide covers topics included in the latest CCNA exam, along with review and practice questions. This guide introduces you to the structure of IPv4 and IPv6 addresses and examines in detail the creation of IP networks and sub-networks and how to assign addresses in the network. You will then move on to understanding how to configure, verify, and troubleshoot layer 2 and layer 3 protocols. In addition to this, you will discover the functionality, configuration, and troubleshooting of DHCPv4. Combined with router and router simulation practice, this certification guide will help you cover everything you need to know in order to pass the CCNA Routing and Switching 200-125 exam. By the end of this book, you will explore security best practices, as well as get familiar with the protocols that a network administrator can use to monitor the network. What you will learn Gain an in-depth understanding of networking using routers and switches Understand layer 2 technology and its various configurations and connections Configure default, static, and dynamic routing Design and implement subnetted IPv4 and IPv6 addressing schemes Troubleshoot issues and keep your network secure Study the importance of VLANs for security and optimizing the bandwidth Who this book is for This book is for you if you are a network administrator, network technician, or anyone who wants to prepare for CCNA Routing and Switching certification. Basic understanding of networking will help you get the best out of this guide, although sufficient information is provided to those new in this field.

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 ICND2 200-105 exam topics - Assess your knowledge with chapter-opening quizzes - Review key concepts with exam-preparation tasks This is the eBook edition of CCNA Routing and Switching ICND2 200-105 Official Cert Guide. This eBook does not include the companion CD-ROM with practice exam that comes with the print edition. CCNA Routing and Switching ICND2 200-105 Official Cert 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 Routing and Switching ICND2 200-105 Official Cert Guide 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 - Troubleshooting sections, which help you master the complex scenarios you will face on the exam - 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. This official study guide helps you master all the topics on the CCNA ICND2 exam, including - Ethernet LANs - IPv4 routing protocols - Wide area networks - IPv4 services: ACLs and QoS - IPv4 routing and troubleshooting - IPv6 - Network management, SDN, and cloud computing

Here's the book you need to prepare for Cisco's CCNA exam, 640-801. This Study Guide was developed to meet the exacting requirements of today's Cisco certification candidates. In addition to the engaging and accessible instructional approach that has earned author Todd Lammle the "Best Study Guide Author" award in CertCities Readers' Choice Awards for two consecutive years, this updated fifth edition provides: In-depth coverage of every CCNA exam objective Expanded IP addressing and subnetting coverage More detailed information on EIGRP and OSPF Leading-edge exam preparation software Authoritative coverage of all exam objectives, including: Network planning & designing Implementation & operation LAN and WAN troubleshooting Communications technology

Prepare for Cisco CCNA Routing and Switching 200-120 exam success with this Cisco Exam Cram from Pearson IT Certification, a leader in IT. Cisco CCNA Routing and Switching 200-120 Exam Cram is the perfect study guide to help you pass the Cisco CCNA 200-120 exam, providing coverage and practice questions for every exam topic. The book contains an extensive set of preparation tools such as exam objective mapping; a self-assessment section that helps you evaluate your motivations and exam readiness; concise, easy-to-read exam topic overviews; Exam Alerts that highlight key concepts; bullet lists and summaries for easy review; Cram Savers, Cram Quizzes, and chapter-ending practice questions that help you assess your knowledge and test your understanding; Notes that indicate areas of concern or specially training; Tips to help you build a better foundation of knowledge? and an extensive glossary of terms and acronyms. The book also contains the extremely useful Cram Sheet tear-out that represents a collection of the most difficult-to-remember facts and numbers you should memorize before taking the test. Complementing all these study tools is the powerful Pearson IT Certification Practice Test software, complete with hundreds of exam-realistic practice questions. This assessment software offers you a wealth of customization option and reporting features, allowing you to test your knowledge in study mode, practice exam mode, or flash card mode. Covers the critical information you'll need to know to score higher on your CCNA exam! Identify the protocols that operate at specific OSI layers Learn the details of custom subnetting with IPv4 Understand and implement IPv6 Connect, configure, and manage Cisco routers and switches Set up security for routers and switches Create VLANs and set up switch-to-switch trunk linksFilter traffic from one network to another with access control lists (ACLs) Deploy Network Address Translation (NAT) and IOS router DHCP services Learn to predict and verify Spanning Tree Protocol (STP) Configure and verify OSPF-2, OSPF-3, and EIGRP Leverage redundancy protocols including HSRP and GLBP Implement WAN technologies including PPP, HDLC, and Frame Relay Troubleshoot switches and routers, including routing protocols Companion CD The companion CD contains a digital edition of the Cram Sheet and the powerful Pearson IT Certification Practice Test engine, complete with hundreds of exam-realistic questions. The assessment engine offers you a wealth of customization options and reporting features, laying out a complete assessment of your knowledge to help you focus your study where it is needed most. Pearson IT Certification Practice Test minimum system requirements: Windows XP (SP3), Windows Vista (SP2), Windows 7, or Windows 8; Microsoft .NET Framework 4.0 Client; Pentium-class 1GHz processor (or equivalent); 512MB RAM; 650MB disk space plus 50MB for each downloaded practice exam; access to the Internet to register and download your practice exams Mike Valentine has been in the IT field for 16 years, focusing on network design and implementation. He is a Cisco Certified Systems Instructor (#31461) and specializes in Cisco Unified Communications instruction as well as CCNA and CCNP courses. His accessible, humorous, and effective teaching style has demystified Cisco for hundreds of students since he began teaching in 2002. Keith Barker, CCIE No. 6783 R/S & Security, is a 27-year veteran of the networking industry. He currently works at CBT Nuggets. His past experience includes EDS, Blue Cross, Paramount Pictures, and KnowledgeNET, and he has delivered CCIE-level training for several years.

CCNA ICND2 200-101 Official Cert Guide, Academic Edition, is a comprehensive textbook and study package for an intermediate-level networking course. This book has been completely revised to align to Cisco's new CCNA 200-101 ICND2 exam. Material is presented in a concise manner, focusing on increasing student's retention and recall of exam topics. The book is printed in four color, allowing students to benefit from carefully crafted figures that utilize color to convey concepts. Students will organize their study through the use of the consistent features in these chapters, including: Foundation Topics -- These sections make up the majority of the page count, explaining concepts, configurations, with emphasis on the theory and concepts, and with linking the theory to the meaning of the configuration commands. Key Topics -- Inside the Foundation Topics sections, every figure, table, or list that should absolutely be understood and remembered for the exam is noted with the words "Key Topic" in the margin. This tool allows the reader to quickly review the most important details in each chapter. Chapter-ending Summaries -- These bulleted lists provide a quick and concise review of the key topics covered in each chapter. Chapter-ending Review Questions -- Each chapter provides a set of multiple choice questions that help student's test their knowledge of the chapter concepts, including answers and full explanations. Chapter-ending Exercises -- Each chapter concludes with a series of exercises designed to help students increase their retention of the chapter content including key term reviews, key topic tables, command review exercises, and memory table exercises. Part Reviews -- This new edition includes a new part review feature that helps students consolidate their knowledge of concepts presented across multiple chapters. A new mind mapping exercise helps students build strong mental maps of concepts. A new exam bank of part review questions test themselves with scenario-based questions that span multiple topics. In addition to these powerful chapter learning, review, and practice features, this book also contains several other features that make it a truly effective and comprehensive study package, including: A Getting Started chapter at the beginning of the book offer terrific advice for how to use the book features and build an effective study plan. The DVD contains over 60 minutes of video mentoring from the author on challenging topics such as OSPF, EIGRP, EIGRP Metrics, PPP, and CHAP. The book comes complete with the CCNA ICND2 Network Simulator Lite software, providing students with the opportunity to practice their hands-on command line interface skills with Cisco routers and switches. The 13 labs included for free with this product cover a range of EIGRP configuration and troubleshooting exercises. The Pearson IT Certification Practice Test software that comes with the book includes 4 full ICND2 exams and 4 full CCNA exams, providing tons of opportunities to assess and practice. Including the book review questions and part review questions, the exam bank includes more than 500 unique practice questions. A Final Preparation Chapter helps students review for final exams and prepare to take the official Cisco CCNA exams, if they want to achieve that certification. A Study Plan Template is included on the DVD to help students organize their study time.

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.