

# Ccna Routing And Switching Virtual Lab

Cisco Press is the Official publisher for New CCNA Routing and Switching Certification. The New Edition of this Best-Selling Official Cert Guide includes Updated Content, and 60 Minutes of Video Training -- PLUS the CCNA Network Simulator Lite Edition with lab exercises. Cisco CCNA Routing and Switching ICND2 200-101 Official Cert Guide from Cisco Press enables you to succeed on the exam the first time. 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 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 personal video mentoring and simulator lite software is available through product registration at Cisco Press; or see instructions in back pages of your eBook. 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 free copy of the CCNA ICND2 200-101 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 60 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 The official study guide helps you master all the topics on the CCNA exam, including Spanning Tree Protocol (STP) Troubleshooting LAN switching IPv4 routing VPNs OSPF and EIGRP configuration and troubleshooting Wide area networks and Frame Relay IPv6 implementation and troubleshooting Network management 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. Wendell Odom, CCIE® No. 1624, is the most respected author of Cisco networking books in the world. His past titles include books on the entry-level Cisco certifications (CCENT and CCNA), the more advanced CCNP, and the industry-renowned CCIE. His books are known for their technical depth and accuracy. Wendell has worked as a network engineer, consultant, instructor, course developer, and book author, and he has produced videos, software, and blogs related to Cisco certifications. CCENT ICND1 Network Simulator Lite minimum system requirements: Microsoft Windows XP (SP3), Windows Vista (32-bit/64-bit) with SP1, Windows 7 (32-bit/64-bit) or Windows 8 (32-bit/64-bit, x86 processors), Mac OS X 10.6, 10.7, or 10.8 Intel Pentium III 1GHz or faster processor 512 MB RAM (1GB recommended) 1 GB hard disk space 32-bit color depth at 1024x768 resolution Adobe Acrobat Reader version 8 and above Other applications installed during installation: Adobe AIR 3.6.0 Captive JRE 6 This volume is part of the Official Cert Guide series from Cisco Press. Books in this series provide officially developed exam preparation materials that offer assessment, review, and practice to help Cisco Career Certification candidates identify weaknesses, concentrate their study efforts, and enhance their confidence as exam day nears.

Cisco Certified Network Associate (CCNA) Routing and Switching is one of the most important certificates in order to stay up-to-date with networking skills. This Certification Guide covers everything you need to know in order to pass the CCNA Routing and Switching 200-125. 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

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of today's Cisco certification candidates. In addition to the engaging and accessible instructional approach that has earned author Todd Lammler 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

Are you preparing to take the Cisco 200-120 CCNA certification exam? You've studied the concepts, and now you want to review and practice to assess your knowledge, guarantee retention and easy recall of the key exam topics, and ensure your success on the actual exam. Cisco CCNA Routing and Switching 200-120 Flash Cards and Exam Practice Pack gives you two methods of review in a single package proven to enhance your exam preparation. Note that this eBook version of the print book does not contain access to the Cert Flash Cards Online application nor to the Practice Test application that come with the print product. Flash Cards Review all exam topics with more than 750 flash cards in traditional print format in the eBook. Quick Reference Guide Study with more than 190 graphical quick reference sheets that offer you a quick refresher of the key concepts for all exam objectives.

Here are all the CCNA-level Routing and Switching commands you need in one condensed, portable resource. CCNA Routing and Switching Portable Command Guide is filled with valuable, easy-to-access information—and it's portable enough to use whether you're in the server room or the equipment closet. The guide summarizes all CCNA certification-level Cisco IOS Software commands, keywords, command arguments, and associated prompts, providing you with tips and examples of how to apply the commands to real-world scenarios. Throughout, configuration examples give you a better understanding of how these commands are used in simple network designs. This book has been completely updated to cover all topics in the new ICND1 100-105, ICND2 200-105, and CCNA 200-125 exams. Use this quick reference resource to help you memorize commands and concepts as you work to pass the CCNA Routing and Switching certification exam. Coverage includes Network Fundamentals: Subnetting, VLSM, route summarization, cables/connections, CLI LAN Switching: Switch configuration, VLANs, VLAN trunking protocol, inter-VLAN communication, STP, EtherChannel Routing (IPv4/IPv6): Router configuration, static routing, RIPng, EIGRP/EIGRPv6, OSPFv2/OSPFv3 WAN: Point-to-point protocols, eBGP, GRE tunnels, QoS Infrastructure Services: DHCP, FHRP, HSRP, NAT Infrastructure Security: Switch port security, ACL traffic management, device hardening Infrastructure Management: Backup/restore, password recovery, CDP, LLDP, IOS tools, device monitoring, IOS licensing, troubleshooting Quick, offline access to all CCNA Routing and Switching commands for research and solutions --Logical how-to topic groupings for a one-stop resource --Great for review before CCNA Routing and Switching certification exams --Compact size makes it easy to carry with you wherever you go --"Create Your Own Journal" section with blank, lined pages enables you to personalize the book for your needs --"What Do You Want to Do?" chart inside the back cover helps you to quickly reference specific tasks This book is part of the Cisco Press Certification Self-Study Product Family, which offers readers a self-paced study routine for Cisco® certification exams. Titles in the Cisco Press Certification Self-Study Product Family are part of a recommended learning program from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press.

CCNA 1 Routing and Switching Introduction to Networks v5.0 Answers to Exams and Assessments

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

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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. Hands-on 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.

Welcome to CCNA Routing and Switching ICND2 200-105 Network Simulator, Academic Edition Pearson uCertify Labs CCNA Routing and Switching ICND2 200-105 Network Simulator, Academic Edition Pearson uCertify Labs is an online, hands-on skills enhancement tool that helps students gain the real-world configuration and troubleshooting skills they need to succeed on the Cisco CCNA ICND2 exam and to land a job as a network engineer. The 190 labs in this product cover the full range of Cisco CCNA ICND2 200-105 exam configuration and troubleshooting topics. These best-selling labs help bridge the gap between conceptual knowledge and real-world application by providing competency-based, interactive, online, 24x7 training. The labs simulate real-world networking hardware that you configure and troubleshoot using the Cisco Command Line Interface (CLI). Working through the labs, you will quickly become proficient with all the common Cisco IOS version 15 router and switch commands on the CCNA ICND2 exam. The open command environment allows you to explore configurations beyond the lab steps. uCertify Labs build upon the same great platform benefits and flexibility that have become synonymous with the uCertify Courses. Students can feel safe working in this virtual environment resolving real-world networking problems. You can plan your studies using Study Planner and view detailed performance reports to verify your work.

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.

Cisco CCNA Routing and Switching 200-120 Flash Cards and Exam Practice Pack Are you preparing to take the Cisco 200-120 CCNA certification exam? You've studied the concepts, and now you want to review and practice to assess your knowledge, guarantee retention and easy recall of the key exam topics, and ensure your success on the actual exam. Cisco CCNA Routing and Switching 200-120 Flash Cards and Exam Practice Pack gives you three methods of review in a single package proven to enhance your exam preparation. Flash Cards Review all exam topics with more than 750 flash cards in traditional print format in the book or in the Pearson IT Certification Cert Flash Card Online application that you can access via the Internet on your desktop or any tablet or smartphone. Select cards at random, or focus on individual topics. Build your own custom sets of cards to target topics of interest or difficulty. Enter notes on questions to help expand your knowledge. Grade questions correct or incorrect, and analyze performance reports to help understand your strengths and weaknesses. Practice Test Practice with the powerful Pearson IT Certification Practice Test engine, complete with three full exams of realistic test questions. Take exams in study mode, which enables you to select question topics, check answers, review explanations, bookmark questions, and take notes; or take random, timed exams that simulate the actual exam experience. This assessment software 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. Quick Reference Guide Study with more than 190 graphical quick reference sheets that offer you a quick refresher of the key concepts for all exam objectives.

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

Here are all the CCNA-level Routing and Switching commands you need in one condensed, portable resource. The CCNA Routing and Switching Portable Command Guide, Third Edition, is filled with valuable, easy-to-access information and is portable enough for use whether you're in the server room or the equipment closet. The guide summarizes all CCNA certification-level Cisco IOS® Software commands, keywords, command arguments, and associated prompts, providing you with tips and examples of how to apply the commands to real-world scenarios. Configuration examples throughout the book provide you with a better understanding of how these commands are used in simple network designs. This book has been completely updated to cover topics in the ICND1 100-101, ICND2 200-101, and CCNA 200-120 exams. Use this quick reference resource to help you memorize commands and concepts as you work to pass the CCNA Routing and Switching certification exam. The book is organized into these parts:

- Part I TCP/IP v4
- Part II

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Introduction to Cisco Devices • Part III Configuring a Router • Part IV Routing • Part V Switching • Part VI Layer 3 Redundancy • Part VII IPv6 • Part VIII Network Administration and Troubleshooting • Part IX Managing IP Services • Part X WANs • Part XI Network Security Quick, offline access to all CCNA Routing and Switching commands for research and solutions Logical how-to topic groupings for a one-stop resource Great for review before CCNA Routing and Switching certification exams Compact size makes it easy to carry with you, wherever you go “Create Your Own Journal” section with blank, lined pages allows you to personalize the book for your needs “What Do You Want to Do?” chart inside back cover helps you to quickly reference specific tasks

This virtual network simulator is ideal for candidates studying for the new CCNA exam (640-802) who cannot afford thousands of dollars to set up their own Cisco home lab. Offering hands-on practice with routers and switches is critical for success on the CCNA exam, and this simulator uses drag-and-drop technology to create a simulated lab using an unlimited number of routers and switches. Also included are lab exercises and guidance to help students experiment with hundreds of configuration commands built into the simulator. Plus, 250 hands-on labs zero in on skills that are critical for exam success and an extensive Help menu is available to guide you through complex tasks.

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 helps students 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.

CCNA Routing and Switching Practice and Study Guide is designed with dozens of exercises to help you learn the concepts and configurations crucial to your success with the Interconnecting Cisco Networking Devices Part 2 (ICND2 200-101) exam. The author has mapped the chapters of this book to the last two Cisco Networking Academy courses in the CCNA Routing and Switching curricula, Scaling Networks and Connecting Networks. These courses cover the objectives of the Cisco Certified Networking Associate (CCNA) Routing and Switching certification. Getting your CCNA Routing and Switching certification means that you have the knowledge and skills required to successfully install, configure, operate, and troubleshoot a medium-sized routed and switched networks. As a Cisco Networking Academy student or someone taking CCNA-related classes from professional training organizations, or college- and university-level networking courses, you will gain a detailed understanding of routing by successfully completing all the exercises in this book. Each chapter is designed with a variety of exercises, activities, and scenarios to help you: Review vocabulary Strengthen troubleshooting skills Boost configuration skills Reinforce concepts Research and analyze topics Go beyond layer 2 broadcast domains with this in-depth tour of advanced link and internetwork layer protocols, and learn how they enable you to expand to larger topologies. An ideal follow-up to Packet Guide to Core Network Protocols, this concise guide dissects several of these protocols to explain their structure and operation. This isn't a book on packet theory. Author Bruce Hartpence built topologies in a lab as he wrote this guide, and each chapter includes several packet

captures. You'll learn about protocol classification, static vs. dynamic topologies, and reasons for installing a particular route. This guide covers: Host routing—Process a routing table and learn how traffic starts out across a network Static routing—Build router routing tables and understand how forwarding decisions are made and processed Spanning Tree Protocol—Learn how this protocol is an integral part of every network containing switches Virtual Local Area Networks—Use VLANs to address the limitations of layer 2 networks Trunking—Get an indepth look at VLAN tagging and the 802.1Q protocol Routing Information Protocol—Understand how this distance vector protocol works in small, modern communication networks Open Shortest Path First—Discover why convergence times of OSPF and other link state protocols are improved over distance vectors

Get More with the Deluxe Edition This Deluxe Edition of our bestselling CCNA Study Guide features a ton of bonus materials including more than 1,000 practice questions, author videos, a network simulator that can be used to perform all of the hands-on exercises, and the e-book in multiple formats. The book contains 100% coverage the ICND1, ICND2, and CCNA Composite exams, and features detailed information and examples on crucial Cisco networking topics drawn from Todd Lammle's more than 30 years of real-world experience. This Deluxe Study Guide contains authoritative coverage of all exam topics, including: Operation of IP Data Networks LAN Switching Technologies IP Addressing (IPv4 / IPv6) IP Routing Technologies IP Services Network Device Security Troubleshooting LAN Switching Technologies WAN Technologies With all of the bonus materials, this Deluxe Edition of the Sybex CCNA Routing and Switching Study Guide gives you the tools you need to study, practice, and review so that you can approach the exam with confidence.

Everything You Need to Prepare for the CCNA Routing and Switching Exams This value-priced bundle contains everything certification candidates need to prepare for CCNA exams ICND1 100-101, ICND2 200-101, and the CCNA Composite exam 200-120, well as build the foundation for a career as a networking administrator. Featuring the bestselling CCNA Study Guide from Cisco Networking Authority Todd Lammle, this kit is a complete prep package that will enable you to study, practice, and review so that you can approach the exam with confidence. The Certification Kit includes: CCNA Routing and Switching Study Guide – Provides in-depth coverage of every exam objective, access to over an hour of useful video and audio files, a network simulator to help you complete the hands-on labs without additional hardware, and a practice test environment with hundreds of questions, flashcards, and more CCNA Routing and Switching Virtual Lab, Titanium Edition 4.0 – Allows you to create simulated networks using an unlimited number of routers and switches. Exam candidates can either follow the prepared lab exercises or experiment with the hundreds of configuration commands built into the simulator CCNA Routing and Switching Review Guide – Organized by exam objectives, this focused, concise guide provides you with that last-minute prep to hammer home concepts. Content in this

book maps directly to the main exam objectives, so you can focus your study and make the most of your time The CCNA Routing and Switching Certification Kit is your one-stop, complete resource for CCNA Routing and Switching exam prep. 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, 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. This is the eBook version of the print title - 2 book library . Note that the eBooks do not provide access to the practice test software that accompanies the print books. Access to the personal video mentoring and simulator lite software is available through product registration at Cisco Press; or see instructions in back pages of your eBooks. 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 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. Wendell Odom, CCIE No. 1624, is the most respected author of Cisco networking books in the world. His past titles include books on the entry-level Cisco

certifications (CCENT and CCNA), the more advanced CCNP, and the industry-renowned CCIE. His books are known for their technical depth and accuracy. Wendell has worked as a network engineer, consultant, instructor, course developer, and book author, and he has produced videos, software, and blogs related to Cisco certifications. Includes 26 free CCNA Network Simulator labs: ICND1 1. Configuring IP Addresses I 2. Configuring IP Addresses II 3. Connected Routes 4. Static Routes I 5. Static Routes II 6. Subnet Zero 7. Loopback Interfaces 8. Subnet ID Calculation 9. IPv4 Address Rejection 10. IPv4 Route Selection 11. Subnetting and Addressing Configuration Scenario 12. Static Routing Configuration Scenario 13. Network Discovery Troubleshooting Scenario ICND2 1. EIGRP Serial Configuration I 2. EIGRP Serial Configuration II 3. EIGRP Serial Configuration III 4. EIGRP Frame Relay Configuration I 5. EIGRP Frame Relay Configuration II 6. EIGRP Route Tuning I 7. EIGRP Route Tuning II 8. EIGRP Neighbors II 9. EIGRP Neighbors III 10. EIGRP Configuration Scenario I 11. EIGRP Configuration Scenario II 12. EIGRP Metric Manipulation Configuration Scenario 13. Path Troubleshooting Scenario CCENT and CCNA Network Simulator Lite minimum system requirements: Microsoft Windows XP (SP2/SP3), Windows Vista (32-bit/64-bit) with SP1, Windows 7 (32-bit/64-bit) or Windows 8 (32-bit/64-bit), Mac OS X 10.6, 10.7, or 10.8 Intel® Pentium® III 1GHz or faster processor (Windows) or Intel Core™ Duo 1.83GHz or faster processor (Mac) 512 MB RAM (1 GB recommended) 1.5 GB hard disk space 32-bit color depth at 1024 x 768 resolution Adobe Acrobat Reader version 8.0 or higher Other applications installed during installation: Adobe AIR 3.6.0 Captive JRE 6

CCNA is a certificate intended for those who already have fundamental knowledge and expertise regarding LAN / WAN computer networks such as planning, building, and maintaining computer networks based on Cisco System devices. Meanwhile, CCNP is a certification for Network Engineer professionals who have the same level as those who have CCNA with the added ability to analyze and optimize computer networks based on Cisco devices.

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 specialty training; Tips to help you build a better foundation of knowled? 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 OSPFv2, OSPFv3, 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.

Trust the best-selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for exam success. This series is built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. \* Master Cisco CCNA Data Center DCICN 640-911 exam topics \* Assess your knowledge with chapter-opening quizzes \* Review key concepts with exam preparation tasks This is the eBook edition of the CCNA Data Center DCICN 640-911 Official Cert Guide. This eBook does not include the companion CD-ROM with

practice exam that comes with the print edition. CCNA Data Center DCICN 640-911 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. Expert instructors and engineers Wendell Odom and Chad Hintz share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. This complete, official study package includes

- \* A test-preparation routine proven to help you pass the exam
- \* "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
- \* A final preparation chapter that guides you through tools and resources to help you craft your review and test-taking strategies
- \* A Nexus lab guide appendix, with advice for building hands-on Nexus labs
- \* 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, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that ensure your exam success. CCNA Data Center DCICN 640-911 Official Cert 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](http://www.cisco.com). The official study guide helps you master topics on the CCNA Data Center DCICN 640-911 exam, including

- \* Networking fundamentals
- \* Installing, operating, and configuring Nexus switches
- \* VLANs and trunking concepts and configuration
- \* Spanning Tree Protocol (STP) concepts and configuration
- \* IP addressing and subnetting
- \* IPv6 fundamentals
- \* Cisco Nexus IPv4 routing configuration and routing protocol implementation
- \* IPv4 access control lists (ACL) on Nexus switches

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.

31 Days Before Your CCNA Routing & Switching Exam offers a friendly, practical way to understand the CCNA Routing & Switching certification process, commit to taking the ICND1 (100-105) and ICND2 (200-105) exams or the CCNA (200-125) exam, and finish your preparation using a variety of Primary and Supplemental study resources. These fully updated CCNA exams test knowledge and skills needed to successfully deploy LAN switching, IPv4 and IPv6 routing, WANs, and infrastructure services; and to secure and manage modern network infrastructure. Sign up for your exam(s) and use this book's day-by-day guide and checklist to organize, prepare, and review. Each day in this guide breaks down an exam topic into a manageable bit of information to review using short summaries. Daily Study Resources sections provide quick references for locating more in-depth treatment within Primary and Supplemental resources. This book's features help you fit exam preparation into a busy schedule:

- Visual tear-card calendar summarizing each day's study topic
- Checklist providing advice on preparation activities leading up to the exam
- Descriptions of ICND1 (100-105), ICND2 (200-105), and CCNA (200-125) exam organization and sign-up processes
- Strategies to prepare mentally, organizationally, and physically for exam day
- Conversational tone to make study more enjoyable

The only Cisco authorized textbook and portable desk reference for the CCNA 1 and 2 course in the Networking Academy

Prepare for the new CCNA exams with this Todd Lammler study guide Cisco author, speaker, and trainer Todd Lammler 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

## Online Library Ccna Routing And Switching Virtual Lab

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 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.

Routing and Switching Essentials Companion Guide is the official supplemental textbook for the Routing and Switching Essentials course in the Cisco® Networking Academy® CCNA® Routing and Switching curriculum. This course describes the architecture, components, and operations of routers and switches in a small network. You learn how to configure a router and a switch for basic functionality. By the end of this course, you will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. The Companion Guide is designed as a portable desk reference to use anytime, anywhere to reinforce the material from the course and organize your time. The book's features help you focus on important concepts to succeed in this course: Chapter objectives—Review core concepts by answering the focus questions listed at the beginning of each chapter. Key terms—Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter. Glossary—Consult the comprehensive Glossary with more than 200 terms. Summary of Activities and Labs—Maximize your study time with this complete list of all associated practice exercises at the end of each chapter. Check Your Understanding—Evaluate your readiness with the end-of-chapter questions that match the style of questions you see in the online course quizzes. The answer key explains each answer. Related Title: Routing and Switching Essentials Lab Manual How To—Look for this icon to study the steps you need to learn to perform certain tasks. Interactive Activities—Reinforce your understanding of topics by doing all the exercises from the online course identified throughout the book with this icon. Videos—Watch the videos embedded within the online course. Packet Tracer Activities—Explore and visualize networking concepts using Packet Tracer exercises interspersed throughout the chapters. Hands-on Labs—Work through all the course labs and additional Class Activities that are included in the course and published in the separate Lab Manual.

Welcome to CCNA Routing and Switching 200-125 Network Simulator Academic Edition Pearson uCertify Labs CCNA Routing and Switching 200-125 Network Simulator, Academic Edition Pearson uCertify Labs is an online, hands-on skills enhancement tool that helps students gain the real-world configuration and troubleshooting skills they need to succeed on the Cisco CCNA exam and to land a job as a network engineer. The 480+ labs in this product cover the full range of Cisco CCNA 200-125 exam configuration and trouble- shooting topics. These best-selling labs help bridge the gap between conceptual knowledge and real- world application by providing competency-based, interactive, online, 24x7 training. The labs simulate real-world networking hardware that you configure and trouble- shoot using the Cisco Command Line Interface (CLI). Working through the labs, you will quickly become proficient with all the common Cisco IOS version 15 router and switch commands on the CCNA exam. The open command environment allows you to explore configurations beyond the lab steps. uCertify Labs build upon the same great platform benefits and flexibility that have become synonymous with the uCertify Courses. Students can feel safe working in this virtual environment resolving real-world networking problems. You can plan your stud- ies using Study Planner and view detailed performance reports to verify your work.

A helpful guide on all things Cisco Do you wish that the complex topics of routers, switches, and networking could be presented in a simple,

understandable presentation? With Cisco Networking All-in-One For Dummies, they are! This expansive reference is packed with all the information you need to learn to use Cisco routers and switches to develop and manage secure Cisco networks. This straightforward-by-fun guide offers expansive coverage of Cisco and breaks down intricate subjects such as networking, virtualization, and database technologies into easily digestible pieces. Drills down complex subjects concerning Cisco networking into easy-to-understand, straightforward coverage. Shares best practices for utilizing Cisco switches and routers to implement, secure, and optimize Cisco networks. Reviews Cisco networking solutions and products, securing Cisco networks, and optimizing Cisco networks. Details how to design and implement Cisco networks. Whether you're new to Cisco networking products and services or an experienced professional looking to refresh your knowledge about Cisco, this For Dummies guide provides you with the coverage, solutions, and best practices you need.

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 exam-prep 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.

Rev. ed. of: 31 days before your CCNA exam / Allan Johnson, 2009.

Fully aligned with the latest versions of the exams, this book contains 1500 questions tailored to the exam domains and helps you focus your study time and remove uncertainties so you can face the exam with confidence. --

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. CCNA Routing and Switching 200-125 Exam Cram, 5/e 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. The book also contains the extremely useful CramSheet tear-out: a collection of essential facts in an easy-to-review format.

Complementing all these great study tools is the powerful Pearson Test Prep practice test software, complete with hundreds of exam-realistic practice questions. This assessment software offers you a wealth of customization options and reporting features, allowing you to test your knowledge in study mode should be. Covers the critical information you'll need to know to score higher on your CCNA exam! Compare and contrast networking models including OSI and

TCP/IP Master subnetting in IPv4 u Understand important details of IPv6 Configure Layer 2 switches, including VLANs, trunks, STP, and Port Security Deploy EtherChannel and switch stacking Configure and verify Inter-VLAN routing Configure, verify, and troubleshoot static and dynamic routing using OSPF, EIGRP, and RIPv2 Describe basic QoS concepts Learn WAN topology and connectivity options and configure PPP, MLPPP, PPPoE, and GRE tunnel connectivity Configure and verify single-homed branch connectivity using eBGP IPv4 Configure and verify key infrastructure services including DNS, DHCP, NTP, HSRP, and NAT Configure Cisco device hardening and deploy access layer security, AAA, and ACLs Learn how to manage Cisco infrastructure Troubleshoot networks using key IOS tools Understand network programmability concepts

CCNA Routing and Switching Virtual Lab, Titanium Edition 4.0, Download Edition Sybex 31 Days Before Your CCNA Routing & Switching Exam A Day-By-Day Review Guide for the ICND1/CCENT (100-105), ICND2 (200-105), and CCNA (200-125) Certification Exams Cisco Press

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.

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. CCNA Routing and Switching ICND2 200-105 Official Cert Guide, Academic Edition is a comprehensive textbook and study package that provides you with a detailed overview of network configuration and troubleshooting. Best-selling author and expert instructor Wendell Odom shares study 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
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- Troubleshooting sections, which help you master the complex scenarios you will face on the exam
- A free copy of the eBook version of the text, available in PDF, EPUB, and Mobi (Kindle) formats
- 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 ICND2 200-105 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 50 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 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 Companion DVD The DVD contains more than 500 unique practice exam questions, ICND2 Network Simulator Lite software, online practice exercises, and 50+ minutes of video training. Includes Exclusive Offers For Up to 70% Off Video Training and Network Simulator Software Pearson IT Certification Practice Test minimum system requirements: Windows 10, Windows 8.1, Windows 7, or Vista (SP2), 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 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 ICND2 200-105 Network Simulator Lite software included for free on the DVD or companion web page that accompanies this book. This software, which simulates the experience of working on actual Cisco routers and switches, contains the following 19 free lab exercises, covering all of the topics in Part II, the first hands-on configuration section of the book: 1. EIGRP Serial Configuration I 2. EIGRP Serial Configuration II 3. EIGRP Serial Configuration III 4. EIGRP Serial Configuration IV 5. EIGRP Serial Configuration V 6. EIGRP Serial Configuration VI 7. EIGRP Route Tuning I 8. EIGRP Route Tuning II 9. EIGRP Route Tuning III 10. EIGRP Route Tuning IV 11. EIGRP Neighbors I 12. EIGRP Neighbors II 13. EIGRP Neighbors III 14. EIGRP Auto-Summary Configuration Scenario 15. EIGRP Configuration I Configuration Scenario 16. EIGRP Metric Manipulation Configuration Scenario 17. EIGRP Variance and Maximum Paths Configuration Scenario 18. EIGRP Troubleshooting Scenario 19. Path Troubleshooting Scenario IV If you are interested in exploring more hands-on labs and practicing configuration and troubleshooting with more router and switch commands, check out our full simulator product offerings at <http://www.pearsonitcertification.com/networksimulator>. CCNA ICND2 Network Simulator Lite minimum system requirements: Windows (Minimum) · Windows 10 (32/64-bit), Windows 8.1 (32/64-bit), or Windows 7 (32/64-bit) · 1 gigahertz (GHz) or faster 32-bit (x86) or 64-bit (x64) processor · 1 gigabyte (GB) RAM (32-bit) or 2 GB RAM (64-bit) · 16 GB available hard disk space (32-bit) or 20 GB (64-bit) · DirectX 9 graphics device with WDDM 1.0 or higher driver · Adobe Acrobat Reader version 8 and above Mac (Minimum) · OS X 10.11, 10.10, 10.9, or 10.8 · Intel core Duo 1.83 GHz · 512 MB RAM (1 GB recommended) · 1.5 GB hard disk space · 32-bit color depth at 1024x768 resolution · Adobe Acrobat Reader version 8 and above 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. Introducing Routing and Switching in the Enterprise, CCNA Discovery Learning Guide is the official supplemental textbook for the Introducing Routing and Switching in the Enterprise course in the Cisco® Networking Academy® CCNA® Discovery curriculum version 4. The course, the third of four in the new curriculum, familiarizes you with the equipment applications and protocols installed in enterprise networks, with a focus on switched networks, IP Telephony requirements, and security. It also introduces advanced routing protocols such as Enhanced Interior Gateway Routing Protocol (EIGRP) and Open Shortest Path First (OSPF) Protocol. Hands-on exercises include configuration, installation, and troubleshooting. The Learning Guide's features help you focus on important concepts to succeed in this course: Chapter Objectives—Review core concepts by answering the focus questions listed at the beginning of each chapter. Key Terms—Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter. The Glossary defines each key term. Summary of Activities and Labs—Maximize your study time with this complete list of all associated exercises at the end of each chapter. Check Your Understanding—Evaluate your readiness with the end-of-chapter questions that match the style of questions you see in the online course quizzes. The answer key explains each answer. Challenge Questions and Activities—Apply a deeper understanding of the concepts with these challenging end-of-chapter questions and activities. The answer key explains each answer. Hands-on Labs— Master the practical, hands-on skills of the course by performing all the tasks in the course labs and additional challenge labs included in Part II of the Learning Guide. This book is part of the Cisco Networking Academy Series from Cisco Press®. Books in this series support and complement the Cisco Networking Academy curriculum.

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

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- 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

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