

Ccna Routing And Switching Instructor Lab

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Adding an Instructor to Your Cisco Networking Academy When studying for the Cisco CCNA 200-301 | DON'T DO THIS! The BEST way to study // CCNA - Linux+ What You Need To Know To Pass The Cisco CCNA 200-301 New CCNA Exam (200-301) - Watch This BEFORE Taking Cisco: CCNA Routing And Switching (ICND2 200-105) 12 Books Every Cisco Student Should Own **How to become a Certified Cisco Systems Instructor (CCSI) Ccna Routing And Switching Inetructor**
CCNA Routing and Switching: Switched Networks Instructor Lab Manual This document is exclusive property of Cisco Systems, Inc. Permission is granted to print and copy this document for non-commercial distribution and exclusive use by instructors in the CCNA 5RXWLQJ DQG 6ZLWFKLQJ 6ZLWFKHG 1HWZRUNV course

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1.2 | Routing Decisions 1.2.1 | Switching Packets Between Networks 1.2.1.1 | Router Switching Function. The primary function of a router is to forward packets toward their destination. Uses a switching function which is a process that accepts a packet on one interface and forwards it out of another interface.

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iv CCNA Routing and Switching Practice and Study Guide About the Author Allan Johnson entered the academic world in 1999 after 10 years as a business owner/opera-tor to dedicate his efforts to his passion for teaching. He holds both an MBA and an M.Ed in Occupational Training and Development. He is an information technology instructor at Del

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A CCNA 200-301 certified professional can install, operate and configure LANs and WANs for small to medium-sized networks. The CCNA course covers the course Implementing and Administering Cisco Solutions (CCNA). In the CCNA certification, we cover the content for the new exam 200-301. Our CCNA training course covers the cost of the ...

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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.

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long-time instructor and courseware developer of Cisco courses that include CCNA Routing & Switching, CCDA, CCNA Security, CCNP Routing & Switching, and CCDP. He has been privileged to be part of several Cisco Press/published materials. He enjoys sharing his knowledge and 17 years of experience in the information tech-nology field.

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CCNA Routing and Switching teaches comprehensive networking concepts and skills, from network applications to the protocols and services provided to those applications by the lower layers of the network. Students will progress from basic networking to more complex enterprise and theoretical networking models later in the curriculum.

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CCNA® Routing and Switching training adds value to the networking professionals career and helps them to advance their careers. A CCNA® Routing and Switching certified professional will have an opportunity to increase their job prospects. CCNA® R&S is the first level of Cisco certification program, it validates the competency levels of network professionals in various networking streams such as Routing, Switching, and Connectivity.

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At The Academy's CCNA Boot Camp, we guide you through configuring, troubleshooting, and administering Cisco routers and switches. We focus on what you need to know to pass the CCNA exam. This seven-day program allows you to obtain a vital Cisco certification in a week.

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The CCNA Routing and Switching certification covers skills necessary to administer devices on small or medium-sized networks. This certification requires the ICND1 100-105 and ICND2 200-105 exams. Examinees may take the exams separately or the composite 200-125 CCNA exam. It exists generally as a prerequisite to more advanced certifications, such as the CCNP exams and Cisco Design ...

[Cisco certifications - Wikipedia](#)
CCNA Routing and Switching: Routing and Switching Essentials . Instructor Lab Manual (2) (3) Initializing and Reloading a Router and Switch . Step 2: Power on all the devices in the topology. Wait for all devices to finish the software load process before moving to Part 2.

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CCNA Routing and Switching: Scaling Networks Instructor Lab Manual This document is exclusive property of Cisco Systems, Inc. Permission is granted to print and copy this document for non-commercial distribution and exclusive use by instructors in the CCNA 5RXWLQJ DQG 6ZLWFKLQJ 6FDOLQJ 1HWZRUNV course

[CCNA Routing and Switching: Scaling Networks](#)
You'll start with an in-depth deep dive into every objective on the exam from Kevin Wallace, best-selling author, expert instructor, and double CCIE. He walks you through the full range of topics on the CCNA Routing and Switching 200-125 exam including fundamentals of networking, LAN switching, IP routing, Wide Area Networks (WANs), network services, securing network devices, and network management.

[CCENT & CCNA Routing and Switching Resource Center -](#)
CCNA2 (v.5.0) - Chapter 1 Instructor PPT - Free download as Powerpoint Presentation (.ppt / .pptx), PDF File (.pdf), Text File (.txt) or view presentation slides online. CCNA 2 Routing and Switching: Routing and Switching Essentials (v.5.0) - Chapter 1 Instructor PPT

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(The CCNA 200-301 is the current CCNA exam and replacement for the CCNA 200-125 which was retired in February 2020.) This is the one course you need to get your CCNA. Full lab exercises are included so you'll get the hands-on practical skills you need to work on real world networks , and it's the only CCNA course online where all questions ...

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The only authorized Labs & Study Guide for the Cisco Networking Academy Switching, Routing, and Wireless Essentials v7.0 (SRWE) in the CCNA Routing and Switching curriculum. Each chapter of this book is divided into a Study Guide section followed by a Lab section.

Switched Networks Companion Guide is the official supplemental textbook for the Switched Networks course in the Cisco® Networking Academy® CCNA® Routing and Switching curriculum. This course describes the architecture, components, and operations of a converged switched network. You will learn about the hierarchical network design model and how to configure a switch for basic and advanced functionality. By the end of this course, you will be able to troubleshoot and resolve common issues with Virtual LANs and inter-VLAN routing in a converged network. You will also develop the knowledge and skills needed to implement a WLAN in a small-to-medium network. 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 more than 300 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: Switched Networks Lab Manual ISBN-10: 1-58713-327-X ISBN-13: 978-1-58713-327-5 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 with all the different 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 Class Activities that are included in the course and published in the separate Lab Manual.

Introduction to Networks Companion Guide is the official supplemental textbook for the Introduction to Networks course in the Cisco® Networking Academy® CCNA® Routing and Switching curriculum. The course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, you will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. 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 195 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: Introduction to Networks Lab Manual ISBN-10: 1-58713-312-1 ISBN-13: 978-1-58713-312-1 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 with more than 50 different 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 66 course labs and Class Activities that are included in the course and published in the separate Lab Manual. 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.

More Than 12 Hours of Video Instruction Overview CCNA Routing and Switching ICND2 200-105 Complete Video Course is a comprehensive training course that brings Cisco CCNA ICND2 exam topics to life through the use of real-world demonstrations, animations, live instruction, and configurations, making learning these foundational networking topics easy and fun. Description Best-selling author, expert instructor, and double CCIE Kevin Wallace walks you through the full range of topics on the CCNA Routing and Switching ICND2 200-105 exam, including LAN switching, IP routing, Wide Area Networks (WAN), network services, securing network devices, and network management. This unique product contains multiple types of video presentations, including live instructor whiteboarding, real-world demonstrations, animations of network activity, dynamic KeyNote presentations, doodle videos, and hands-on router and switch CLI configuration and troubleshooting in real lab environments, enabling you to learn both the concepts and the hands-on application. The 130+ videos contained in this product provide more than 12 hours of instruction. Modules are divided into easy-to-digest lessons and sublessons, and each lesson concludes with an interactive quiz to help assess your knowledge. The seven modules map to the exam objectives and also conclude with module and glossary review quizzes, challenging you to recall information across multiple topics. Eighteen interactive hands-on exercises are integrated throughout the course, challenging you to apply the knowledge you've learned in each lesson. The product concludes with a series of lessons that give you valuable advice to help prepare for the actual exam. Designed to take you inside CCNA networking concepts in a unique and interactive way, CCNA Routing and Switching ICND2 200-105 Complete Video Course is guaranteed to help you master the foundational networking topics that will help you succeed on the exam and on the job. About the Instructor Kevin Wallace , CCIE#2 (Collaboration and R/S) No. 7945, CCSI No. 20061 : With Cisco experience dating back to 1989, Kevin has been a network design specialist for the Walt Disney World Resort, an instructor of Cisco courses for Skillsoft, and a network manager for Eastern Kentucky University. Kevin currently produces video courses and writes books for Cisco Press/Pearson IT Certification (http://kwtrain.com/books), and he lives in central Kentucky with his wife (Vivian) a...

DVD INCLUDES: · 6+ hours of video instruction · Multiple types of video presentations in 64 lessons · A special upgrade offer to the CCNA Complete Video Course For anyone interested in learning the key networking topics for the Cisco CCNA Routing and Switching exam, CCNA Routing and Switching 200-120 LiveLessons brings Cisco CCNA exam topics to life through the use of animations, live instructor whiteboarding sessions, slide annotations, direct-to-camera discussions, and command line interface (CLI) demonstrations, making learning these foundational networking topics easy and fun. Best-selling author, expert instructor, and double CCIE Kevin Wallace walks you through the most challenging topics on the CCNA Routing and Switching 200-120 exam, including coverage of the OSI model, switch theory and configuration, IPv4 and IPv6 addressing, routing concepts, OSPF, and EIGRP. This unique product contains multiple types of video presentations and hands-on router and switch CLI configuration and troubleshooting in real lab environments, allowing you to both learn the concepts and the hands-on application. The 64 video lessons contained in this product provide you more than 6 hours of instruction. Designed to take you inside CCNA networking concepts in a unique way, CCNA Routing and Switching 200-120 LiveLessons is guaranteed to help you master the foundational networking topics that will help you succeed on the exam and on the job. This instructive DVD product presents you with a selection of lessons from the 26-hour Cisco CCNA Routing and Switching 200-120 Complete Video Course. As an added bonus, this product contains a one-time use coupon code for 70% off the full training course, a \$280 value! If you like the lessons on the DVD, be sure to check out the Complete Video Course, which includes 20 more hours of training, module and glossary quizzes to test your understanding, interactive exercises to help reinforce key concepts, and an exam preparation section full of practical test-taking advice. Looking for a better way to master today's rapidly changing technologies? Want expert help, but don't have the time or energy to read a book? Can't find classroom training worth the money? Discover LiveLessons: self-paced, personal video instruction from the world's leading experts. LiveLessons are DVD video courses organized into bite-sized, self-contained sessions! You'll learn key skills in as little as five minutes! Section 1: The OSI Model Section 2: Ethernet Switches/Configuration Section 3: IPv4 and IPv6 Addressing Section 4: Routing/Introduction Section 5: Routing/OSPF Section 6: Routing/EIGRP

LAN Switching and Wireless CCNA Exploration Companion Guide Wayne Lewis, Ph.D. LAN Switching and Wireless, CCNA Exploration Companion Guide is the official supplemental textbook for the LAN Switching and Wireless course in the Cisco Networking Academy CCNA® Exploration curriculum version 4. This course provides a comprehensive approach to learning the technologies and protocols needed to design and implement a converged switched network. The Companion Guide, written and edited by a Networking Academy instructor, is designed as a portable desk reference to use anytime, anywhere. The book's features reinforce the material in the course to help you focus on important concepts and organize your study time for exams. New and improved features help you study and succeed in this course: Chapter objectives: Review core concepts by answering the questions listed at the beginning of each chapter. Key terms: Refer to the updated lists of networking vocabulary introduced and turn to the highlighted terms in context in each chapter. Glossary: Consult the all-new comprehensive glossary with more than 190 terms. Check Your Understanding questions and answer key: Evaluate your readiness with the updated end-of-chapter questions that match the style of questions you see on the online course quizzes. The answer key explains each answer. Challenge questions and activities: Strive to ace more challenging review questions and activities designed to prepare you for the complex styles of questions you might see on the CCNA exam. The answer key explains each answer. Wayne Lewis is the Cisco Academy Manager for the Pacific Center for Advanced Technology Training (PCATT), based at Honolulu Community College. How To: Look for this icon to study the steps that you need to learn to perform certain tasks. Packet Tracer Activities: Explore networking concepts in activities interspersed throughout some chapters using Packet Tracer v4.1 developed by Cisco. The files for these activities are on the accompanying CD-ROM. Also available for the LAN Switching and Wireless course: LAN Switching and Wireless, CCNA Exploration Labs and Study Guide ISBN-10: 1-58713-202-8 ISBN-13: 978-1-58713-202-5 Companion CD-ROM **See instructions within the ebook on how to get access to the files from the CD-ROM that accompanies this print book.** The CD-ROM provides many useful tools and information to support your education: Packet Tracer Activity exercise files A Guide to Using a Networker's Journal booklet Taking Notes: A .txt file of the chapter objectives More IT Career Information Tips on Lifelong Learning in Networking This book is part of the Cisco Networking Academy Series from Cisco Press®. Books in this series support and complement the Cisco Networking online curriculum.

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.

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

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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 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 links
- Filter 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.

Cisco LAN Switching Configuration Handbook Second Edition A concise reference for implementing the most frequently used features of the Cisco Catalyst family of switches

Steve McQuerry, CCIE® No. 6108 David Jansen, CCIE No. 5952 David Hucaby, CCIE No. 4594

Cisco LAN Switching Configuration Handbook, Second Edition, is a quick and portable reference guide to the most commonly used features that can be configured on Cisco® Catalyst® switches. Written to be used across all Catalyst IOS platforms, the book covers general use of Cisco IOS®, followed by a series of chapters that provide design and configuration guidelines. Each chapter starts with common design overviews and then describes the configuration of management features. Coverage includes Layer 2, Layer 3, multicast, high availability, and traffic management configurations. This book is organized by groups of common features, with sections marked by shaded tabs for quick reference. Information on each feature is presented in a concise format, with background, configuration, and example components. The format is organized for easy accessibility to commands and their proper usage, saving you hours of research time. From the first page, the authors zero in on quick facts, configuration steps, and explanations of configuration options in each Cisco Catalyst switch feature. The quick reference format allows you to easily locate just the information you need without having to search through thousands of pages of documentation, helping you get your switches up and running quickly and smoothly. Whether you are looking for a handy, portable reference to more easily configure Cisco Catalyst switches in the field, or you are preparing for CCNA®, CCNP®, or CCIE® certification, you will find Cisco LAN Switching Configuration Handbook, Second Edition, to be an essential resource.

Steve McQuerry, CCIE No. 6108, is a technical solutions architect with Cisco focused on data center solutions. Steve works with enterprise customers in the midwestern United States to help them plan their data center architectures. David Jansen, CCIE No. 5952, is a technical solutions architect (TSA) with Cisco focused on Data Center Architectures at Cisco. David has more than 20 years of experience in the IT industry. David Hucaby, CCIE No. 4594, is a lead network engineer for the University of Kentucky, where he works with healthcare networks based on the Cisco Catalyst, ASA/PIX/FWSM security, and VPN product lines. Implement switched campus network designs

- Configure switch prompts, IP addresses, passwords, switch modules, file management, and administrative protocols
- Understand how Layer 3 interfaces are used in a switch
- Configure Ethernet, Fast Ethernet, Gigabit Ethernet, and EtherChannel interfaces
- Implement VLANs, trunking, and VTP
- Operate, configure, and tune Spanning Tree Protocol (STP)
- Handle multicast traffic and interact with multicast routers
- Streamline access to server and firewall farms with accelerated server load balancing
- Deploy broadcast suppression, user authentication, port security, and VLAN access lists
- Configure switch management features
- Implement QoS and high availability features
- Transport voice traffic with specialized voice gateway modules, inline power, and QoS features

This book is part of the Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.