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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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6.0 Instructor Materials ...~~

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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/operato-r 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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long-time instructor and courseware developer of Cisco courses that include CCNA Routing & Switching, CCDA, CCNA

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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:
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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exam from Kevin Wallace, best-
selling author, expert instructor,
and double CCIE. He walks you
through the full range of topics on

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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.

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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

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book is divided into a Study Guide section followed by a Lab section.

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

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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

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concepts Research and analyze topics

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

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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

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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

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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.

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

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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

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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

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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

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lives in central Kentucky with his wife (Vivian) a...

LAN Switching and Wireless
CCNA Exploration Companion
Guide Wayne Lewis, Ph.D. LAN
Switching and Wireless, CCNA
Exploration Companion Guide is
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Wireless course in the Cisco
Networking Academy CCNA®
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This course provides a
comprehensive approach to
learning the technologies and
protocols needed to design and
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network. The Companion Guide,
written and edited by a
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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

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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

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Instructor 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 online curriculum.

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- 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-

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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

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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.

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glossary of terms and acronyms.

The book also contains the extremely useful Cram Sheet that represents a collection of the most difficult-to-remember facts and numbers you should memorize before taking the test. Covers the critical information you 'll need to know to score higher on your CCNA exam!

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- 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

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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

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

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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.

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and more challenging and realistic preparation experiences. The books have been fully updated to refresh the content for the latest CCNA exam topics and to enhance certain key topics that are critical for exam success. Best-selling author and expert instructor Wendell Odom shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. This complete study package includes

- A test-preparation routine proven to help you pass the exams
- "Do I Know This Already?" quizzes, which enable you to decide how much time you need to spend on each section
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key concepts you must know thoroughly · Troubleshooting sections, which help you master the complex scenarios you will face on the exam · The powerful Pearson IT Certification Practice Test software, complete with hundreds of well-reviewed, exam-realistic questions, customization options, and detailed performance reports · A free copy of the CCNA ICND1 and ICND2 Network Simulator Lite software, complete with meaningful lab exercises that help you hone your hands-on skills with the command-line interface for routers and switches · Links to a series of hands-on config labs developed by the author · Online interactive practice exercises that help you hone your knowledge · More than 2 hours of video

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mentoring from the author. A final preparation chapter, which guides you through tools and resources to help you craft your review and test-taking strategies

- Study plan suggestions and templates to help you organize and optimize your study time

Well regarded for its level of detail, study plans, assessment features, challenging review questions and exercises, video instruction, and hands-on labs, these official study guides help you master the concepts and techniques that ensure your exam success. These official study guides help you master all the topics on the CCNA exams, including

- Networking fundamentals
- Implementing basic Ethernet LANs
- Ethernet LANs: design, VLANs, and

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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

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