



CISCO NETWORKING ACADEMY PROGRAM



# **CCNA 4:**

## **WAN Technologies v3.1**

### **Instructor Lab Manual**

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# Cisco Ccna Exploration Instructor Lab Manual

**RD Boyd**



## **Cisco Ccna Exploration Instructor Lab Manual:**

**CCNA Voice Lab Manual** Brent Sieling, 2013 The CCNA R Voice certification expands your CCNA level skill set to prepare for a career in voice networking This lab manual helps to prepare you for the Introducing Cisco Voice and Unified Communications Administration ICOMM v8 0 certification exam 640 461 CCNA Voice Lab Manual gives you extensive hands on practice for developing an in depth understanding of voice networking principles tools skills configurations integration challenges and troubleshooting techniques Using this manual you can practice a wide spectrum of tasks involving Cisco Unified Communications Manager Unity Connection Unified Communications Manager Express and Unified Presence CCNA Voice Lab Manual addresses all exam topics and offers additional guidance for successfully implementing IP voice solutions in small to medium sized businesses CCNA Voice 640 461 Official Exam Certification Guide Second Edition ISBN 13 978 1 58720 417 3 ISBN 10 1 58720 417 7 CCNA Voice Portable Command Guide ISBN 13 978 1 58720 442 5 ISBN 10 1 58720 442 8 Configuring Cisco Unified Communications Manager and Unity Connection A Step by Step Guide Second Edition ISBN 13 978 1 58714 226 0 ISBN 10 1 58714 226 0 CCNA Voice Quick Reference ISBN 13 978 1 58705 767 0 ISBN 10 1 58705 767 0 *Network Fundamentals, CCNA Exploration Companion Guide* Mark Dye, Richard McDonald, Antoon Ruff, 2007-10-29 Network Fundamentals CCNA Exploration Companion Guide is the official supplemental textbook for the Network Fundamentals course in the Cisco Networking Academy CCNA Exploration curriculum version 4 The course the first of four in the new curriculum is based on a top down approach to networking The Companion Guide written and edited by Networking Academy instructors 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 focus questions listed at the beginning of each chapter Key terms Refer to the updated lists of networking vocabulary introduced and highlighted in context in each chapter Glossary Consult the comprehensive glossary with more than 250 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 How To Look for this icon to study the steps 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 Network Fundamentals Course Network Fundamentals CCNA Exploration Labs and Study Guide ISBN 10 1 58713 203 6 ISBN 13 978 1 58713 203 2 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 v4 1 VLSM Subnetting Chart Structured Cabling Exploration Supplement Taking Notes a txt file of the chapter objectives A Guide to Using a Networker s Journal booklet IT Career Information Tips on Lifelong Learning in Networking This book is part of the Cisco Networking Academy Series from Cisco Press The products in this series support and complement the Cisco Networking Academy online curriculum

**Accessing the WAN, CCNA Exploration Companion Guide** Bob Vachon, Rick Graziani, 2008-04-28

Accessing the WAN CCNA Exploration Companion Guide Bob Vachon Rick Graziani Accessing the WAN CCNA Exploration Companion Guide is the official supplemental textbook for the Accessing the WAN course in the Cisco Networking Academy CCNA Exploration curriculum version 4 This course discusses the WAN technologies and network services required by converged applications in enterprise networks The Companion Guide written and edited by Networking Academy instructors 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 focus 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 250 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 Bob Vachon is the coordinator of the Computer Systems Technology program and teaches networking infrastructure courses at Cambrian College in Sudbury Ontario Canada Bob has worked and taught in the computer networking and information technology field for 25 years and is a scholar graduate of Cambrian College Rick Graziani teaches computer science and computer networking courses at Cabrillo College in Aptos California Rick has worked and taught in the computer networking and information technology field for 30 years

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 Accessing the WAN Course Accessing the WAN CCNA Exploration Labs and Study Guide ISBN 10 1 58713 201 X ISBN 13 978 1 58713 201 8 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 The products in this series support and complement the Cisco Networking Academy online curriculum      **Routing Protocols and Concepts, CCNA Exploration Companion Guide** Rick Graziani, Allan Johnson, 2007-12-06 Routing Protocols and Concepts CCNA Exploration Companion Guide Routing Protocols and Concepts CCNA Exploration Companion Guide is the official supplemental textbook for the Routing Protocols and Concepts course in the Cisco Networking Academy CCNA Exploration curriculum version 4 This course describes the architecture components and operation of routers and explains the principles of routing and the primary routing protocols The Companion Guide written and edited by Networking Academy instructors 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 focus 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 comprehensive glossary with more than 150 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 Rick Graziani has been a computer science and networking instructor at Cabrillo College since 1994 Allan Johnson works full time developing curriculum for Cisco Networking Academy Allan also is a part time instructor at Del Mar College in Corpus Christi Texas How To Look for this icon to study the steps 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 Routing Protocols and Concepts Course Routing Protocols and Concepts CCNA Exploration Labs and Study Guide ISBN 10 1 58713 204 4 ISBN 13 978 1 58713 204 9 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 v4 1 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 The products in this series support and complement the Cisco Networking Academy online curriculum      LAN Switching and Wireless, CCNA Exploration Companion Guide Wayne Lewis, 2008-04-28 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

**LAN Switching and Wireless** Allan Johnson, 2008 LAN Switching and Wireless CCNA Exploration Labs and Study Guide Allan Johnson LAN Switching and Wireless CCNA Exploration Labs and Study Guide is designed to help you learn about and apply your knowledge of the LAN switching and wireless topics from Version 4 of the Cisco Networking Academy CCNA Exploration curriculum Each chapter contains a Study Guide section and a Labs and Activities section Study Guide The dozens of exercises in this book help you learn the concepts and configurations crucial to your success as a CCNA exam candidate Each chapter is slightly different and includes matching multiple choice fill in the blank and open ended questions designed to help you Review vocabulary Strengthen troubleshooting skills Boost configuration skills Reinforce concepts Research topics Packet Tracer Activities This icon identifies exercises interspersed throughout the Study Guide section where you can practice or visualize a specific task using Packet Tracer a powerful network simulation program developed by Cisco Labs and Activities The Labs and Activities sections begin with a Command Reference table and include all the online

curriculum labs to ensure that you have mastered the practical skills needed to succeed in this course Hands On Labs This icon identifies the hands on labs created for each chapter Work through all the Basic Challenge and Troubleshooting labs as provided to gain a deep understanding of CCNA knowledge and skills to ultimately succeed on the CCNA Certification Exam Packet Tracer Companion This icon identifies the companion activities that correspond to each hands on lab You use Packet Tracer to complete a simulation of the hands on lab Packet Tracer Skills Integration Challenge Each chapter concludes with a culminating activity called the Packet Tracer Skills Integration Challenge These challenging activities require you to pull together several skills learned from the chapter as well as previous chapters and courses to successfully complete one comprehensive exercise Allan Johnson works full time developing curriculum for Cisco Networking Academy Allan also is a part time instructor at Del Mar College in Corpus Christi Texas Use this book with LAN Switching and Wireless CCNA Exploration Companion Guide ISBN 10 1 58713 207 9 ISBN 13 978 158713 207 0 Companion CD ROM The CD ROM provides all the Packet Tracer Activity Packet Tracer Companion and Packet Tracer Challenge files that are referenced throughout the book as indicated by the icons These files work with Packet Tracer v4 1 software which is available through the Academy Connection website Ask your instructor for access to the Packet Tracer software 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

**Accessing the WAN** John Rullan, 2008 The completely revised and only authorized Labs and Study Guide for the Cisco Networking Academy CCNA Accessing the WAN course A portable classroom resource that supports the topics in the CCNA Accessing the WAN curriculum aligning 1 1 with course modules Includes all the labs in the online curriculum as well as additional instructor created challenge labs and exercises for extended learning and classroom exercises Accessing the WAN CCNA Exploration Labs and Study Guide is a complete collection of the lab exercises specifically written for the CCNA Accessing the WAN course from the Cisco Networking Academy designed to give students hands on experience in a particular concept or technology Each lab contains an introductory overview a preparation tools required section explanations of commands and step by step instructions to reinforce the concepts introduced in the online course and covered in the Companion Guide Also included are challenge labs written by Academy instructors tested in their classrooms will be included as additional or alternative labs The Study Guide section is designed to provide additional exercises and activities to reinforce students understanding of the course topics preparing them for the course assessments As a study guide it also continues to provide ample writing opportunities to guide students into the habit of keeping notes on networking topics

**LAN Switching and Wireless** Wayne Lewis, 2008 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 R 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 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 R Books in this series support and complement the Cisco Networking online curriculum Cisco CCNA Routing and Switching 200-120 Official Cert Guide Library Wendell Odom, 2013 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 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



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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

Designing and Supporting Computer Networks Kenneth D. Stewart,Aubrey Adams,E. Aubrey Adams,2008 This authorized textbook for the final course of the Cisco Networking Academy CCNA Discovery curriculum is a portable reference that aligns 1 1 with the online course modules It also has numerous features to enhance learning and assist in concept retention

Routing Protocols and Concepts Rick Graziani,Allan Johnson,2012 Each new purchase of an Exploration Companion guide comes with an exclusive coupon code that can be used to Save 65% on these two additional study resources 1 CCNA Portable Command Guide 2nd Ed eBook [www.ciscopress.com](http://www.ciscopress.com) title 0132965739 2 Routing Protocols and Concepts Companion Guide eBook [www.ciscopress.com](http://www.ciscopress.com) title 0132877538 Routing Protocols and Concepts CCNA Exploration Companion Guide is the official supplemental textbook for the Routing Protocols and Concepts course in the Cisco Networking Academy CCNA Exploration curriculum version 4 This course describes the architecture components and operation of routers and explains

the principles of routing and the primary routing protocols The Companion Guide written and edited by Networking Academy instructors 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 focus 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 comprehensive glossary with more than 150 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 Rick Graziani has been a computer science and networking instructor at Cabrillo College since 1994 Allan Johnson works full time developing curriculum for Cisco Networking Academy Allan also is a part time instructor at Del Mar College in Corpus Christi Texas How To Look for this icon to study the steps 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 Routing Protocols and Concepts Course Routing Protocols and Concepts CCNA Exploration Labs and Study Guide ISBN 10 1 58713 204 4 ISBN 13 978 1 58713 204 9 Companion CD ROM The CD ROM provides many useful tools and information to support your education Packet Tracer Activity exercise files v4 1 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 The products in this series support and complement the Cisco Networking Academy online curriculum

**Routing Protocols and Concepts** Allan Johnson,2008-01 The completely revised and only authorized Labs and Study Guide for the Cisco Networking Academy Program CCNA 2 Exploration curriculum *CCNA Exploration* ,2010 **The Software Encyclopedia** ,1988 *CCNA Exploration 4.0* ,2009 *CCNA Security Lab Manual Version 1.2* Cisco Networking Academy,2014-09-25 CCNA Security Lab Manual Version 1 2 The only authorized Lab Manual for the Cisco Networking Academy CCNA Security course The Cisco Networking Academy course on CCNA Security provides a next step for students who want to expand their CCNA level skill set to prepare for a career in network security The CCNA Security course also prepares students for the Implementing Cisco IOS Network Security IINS certification exam 640 554 which leads to the CCNA Security certification The CCNA Security Lab Manual provides you with all 16 labs from the course designed as hands on practice to master the knowledge and skills needed to prepare for entry level security specialist careers All the hands on labs in the course can be completed on actual physical equipment or in conjunction with the NDG NETLAB solution For

current information on labs compatible with NETLAB go to <http://www.netdevgroup.com/content/cnap> Through procedural skills integration challenges troubleshooting and model building labs this CCNA Security course aims to develop your in depth understanding of network security principles as well as the tools and configurations used CCNA Security Course Booklet Version 1.2 Third Edition ISBN 13 978 1 58713 346 6 ISBN 10 1 58713 346 6 CCNA Security 640 554 Portable Command Guide ISBN 13 978 1 58720 448 7 ISBN 10 1 58720 448 7 Implementing Cisco IOS Network Security IINS 640 554 Foundation Learning Guide Second Edition ISBN 13 978 1 58714 272 7 ISBN 10 1 58714 272 4 CCNA Security 640 554 Official Cert Guide ISBN 13 978 1 58720 446 3 ISBN 10 1 58720 446 0     CCNA Security Lab Manual ,2009 The only authorized Lab Portfolio for the new Cisco Networking Academy CCNA Security Course Gives CCNA Security students a comprehensive printed and bound lab resource containing all of the course s labs for use whenever Internet access isn t available Handy printed format lets students easily highlight and make notes Page correlations link to the online curriculum Covers the latest CCNA Security Course from threats to firewalls cryptography to VPNs The Cisco CCNA Security curriculum provides foundational network security knowledge practical experience opportunities for career exploration and soft skills development to help students prepare for careers with network security responsibilities CCNA Security includes a comprehensive set of hands on online laboratories To complement these many students and instructors have requested a printed resource that can be used to study in places where Internet access may not be available CCNA Security Lab Portfolio is that resource Drawn directly from the online curriculum it covers every lab presented in this course addressing all these areas of network security Modern network security threats Securing network devices Authentication authorization and accounting Implementing firewall technologies Implementing intrusion prevention Securing LANs Cryptography Implementing VPNs Putting it all together CCNA Security Lab Portfolio gives students new flexibility to study these hands on labs offline highlight key points and take handwritten notes All topics are correlated directly to online web pages helping you easily switch between offline and online content Additional notes pages will be included between each lab for use as a notebook in class A separate Answer Key is available in the Cisco Academy Connection area of Cisco s web site

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