



CISCO NETWORKING ACADEMY PROGRAM



**CCNA 2:**  
Routers and Routing Basics v3.1  
Instructor Guide

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# Ccna 2 Lab Manual

**Catherine Creary**

## Ccna 2 Lab Manual:

*Routers and Routing Basics* Allan Johnson,2007 The only authorized Labs and Study Guide for the Cisco Networking Academy Program Routers and Routing Basics CCNA 2 Labs and Study Guide supplements version 3 1 1 of the Cisco Networking Academy registered Program CCNA registered 2 course This Guide maximizes your understanding of configuring a router managing Cisco IOS registered Software selecting a routing protocol verifying and troubleshooting a network and implementing basic security with access control lists Each chapter contains a Study Guide section and a Lab Exercises section Keep all your completed work on hand in this book to study from later or take advantage of the perforated pages to tear out and hand in specific material for homework assignments Over 200 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 some or all the following types of exercises vocabulary matching and completion skill building activities and scenarios configuration scenarios concept questions journal entries and internet research you review all the commands covered in the chapter The book includes all 55 labs from the online course with an additional 15 labs in which you can apply your knowledge about the technologies and concepts introduced You will get ample opportunity for hands on practice in three different types of labs Curriculum Labs are step by step exercises designed to introduce you to new concepts Presenting you with detailed instructions and sometimes additional explanations for completing the lab Curriculum Labs come directly from the CCNA 2 online course Comprehensive Labs combine the concepts learned from the course and Curriculum Labs into new experiments These Exercises provide minimal guidance You are encouraged to complete the Curriculum Labs before moving on to a Comprehensive Lab and Challenge Labs are unique labs requiring a thorough understanding of the previously learned network concepts You should complete all Curriculum Labs and Comprehensive Labs before attempting a Challenge Lab Additionally the appendix includes a CCNA 2 Skills Based Assessment practice lab be well prepared to continue your networking education in the CCNA courses that follow Use this book with *Routers and Routing Basics CCNA 2 Companion Guide* ISBN 1 58713 166 8 Allan Johnson is an information technology instructor at Mary Carroll High School and Del Mar College in Corpus Christi Texas Since 2003 Allan has committed much of his time and energy to the CCNA Instructional Support team creating training materials and providing services for instructors worldwide He is a familiar voice on the Cisco Networking Academy Community forum Ask the Experts series This book is part of the Cisco Networking Academy Program series from Cisco Press registered The products in this series support and complement the Cisco Networking Academy Program online curriculum [CCNA Lab Manual for Cisco Networking Fundamentals](#) Kelly Cannon,Kurt Hudson,1999-10 CD ROM includes a limited version of MeasureUp's CCNA test prep software including 50 sample exam questions and a test engine Page xiii **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

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**CCNA**

**Security Lab Manual Version 2**, 2015 **CCNA 2.0 All-In-One Instructor's Pack** Robert Larson, 2001-10 **CCNA V3**

**Lab Guide** Shaun Hummel, 2017-02-27 CCNA v3 Lab Guide Routing and Switching 200-125 provides the configuration skills necessary to pass the CCNA v3 exam. The CCNA 200-125 candidate must answer technical questions and have the skills required to configure, verify and troubleshoot network connectivity. There are 44 labs that start from basic global configuration to more complex network troubleshooting of routers and switches. There is coverage of IPv6 addressing, WAN connectivity, ACLs and NAT that are all based on CCNA v3 exam guidelines. The troubleshooting questions are a key aspect of the CCNA exam. You will learn a standard troubleshooting methodology required for CCNA v3 style questions. The step by step format includes analysis and resolution of errors. In addition there is an extended lab with multiple routing and switching errors. The lab guide is based on the book CCNA v3 Routing and Switching 200-125 Official Cisco CCNA v3 Routing and Switching Download Packet Tracer and 44 Ready Labs Initial Global Configuration System Management Device Security VLANs Access Ports Port Security Static Trunking EtherChannel Rapid STP PortFast IPv4 Addressing Subnetting Static and Default Routes Multi Area OSPF EIGRP for IPv4 RIPv2 ACLs NAT Inter VLAN Routing Default Gateway DHCP eBGP IPv6 Addressing Link Local SLAAC Global Unicast Network Troubleshooting Traceroute Ping IOS Tools

**Connecting**

**Networks Companion Guide** Cisco Networking Academy, Cisco Networking Academy Program, 2014 This course discusses

the WAN technologies and network services required by converged applications in a complex network The course allows you to understand the selection criteria of network devices and WAN technologies to meet network requirements You will learn how to configure and troubleshoot network devices and resolve common issues with data link protocols You will also develop the knowledge and skills needed to implement IPSec and virtual private network VPN operations in a complex network Back cover

*Mike Meyers CompTIA A+ Guide: Essentials Lab Manual, Third Edition (Exam 220-701)* Mike Meyers, 2010-07-22

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*Network Basics Companion Guide* Cisco Networking Academy Program, 2014 This is the only Cisco authorized companion guide to the official Cisco Networking Academy course in the new CCNA Routing and Switching curriculum An invaluable resource for hundreds of thousands of Cisco Networking Academy students worldwide this portable desk reference is ideal for anytime anywhere take home study and reference Fully aligned to the online course chapters it offers additional book based pedagogy to reinforce key concepts enhance student comprehension and promote retention Using it students can focus scarce study time organize review for quizzes and exams and get the day to day reference answers they're looking for The Companion Guide also offers instructors additional opportunities to assign take home reading or vocabulary homework helping students prepare more for in class lab work and discussions

*Routing and Switching Essentials Companion Guide* Cisco Networking Academy, Cisco Networking Academy Program, 2014 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

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**Mike Meyers' CompTIA A+ Guide: Practical Application Lab**

**Manual, Third Edition (Exam 220-702)** Mike Meyers, 2010-07-22 Practice the IT Skills Essential for Your Success. 45 lab exercises challenge you to solve problems based on realistic case studies. Step by step scenarios require you to think critically. Lab analysis tests measure your understanding of lab results. Key term quizzes help build your vocabulary. Practice working with CPUs and RAM. Motherboards, Power supplies, Hard drives, The Windows command line, Windows maintenance, troubleshooting and security. Input output ports, Video and multimedia, Portable computing, Printers, Local Area Networking, Wireless technologies, Internet Computer security.

**Network+ All-in-One Lab Manual** Catherine Creary, 2002-03-13 This

guide prepares readers for the real world by applying networking concepts to solve real networking problems. Contains step by step not click by click lab scenarios that require students to think critically.

[Mike Meyers' CompTIA A Guide to](#)

[Managing & Troubleshooting PCs Lab Manual, Third Edition \(Exams 220-701 & 220-702\)](#) Mike Meyers, 2010-04-22 Practice the IT Skills Essential for Your Success. 115 lab exercises challenge you to solve problems based on realistic case studies. Step by step scenarios require you to think critically. Lab analysis tests measure your understanding of lab results. Key term quizzes help build your vocabulary. In this lab manual you'll practice Working with CPUs, RAM, motherboards, power supplies and other PC components. Installing, partitioning and formatting hard drives. Installing, upgrading and troubleshooting Windows 2000, Windows XP and Windows Vista. Troubleshooting PCs and implementing security measures. Installing video and multimedia cards. Working with portable PCs, smartphones, PDAs and wireless technologies. Managing printers and connecting to networks and the Internet. Understanding safety and environmental issues. Establishing good communication skills and adhering to privacy policies.

Mike Meyers CompTIA A CompTIA Network MCP is the industry's leading authority on CompTIA A certification and training and the bestselling author of seven editions of CompTIA A All in One Exam Guide. He is the president and founder of Total Seminars LLC a major provider of PC and network repair seminars for thousands of organizations throughout the world and a member of CompTIA.

[Routing Protocols Companion Guide](#) Cisco Networking Academy, Cisco Networking Academy Program, 2014 This course describes the architecture, components and operations of routers and explains the principles of routing and routing protocols. You learn how to configure a router for basic and advanced functionality. By the end of this course you will be able to configure and troubleshoot routers and resolve common

issues with RIPv1 RIPv2 EIGRP and OSPF 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 organise 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 150 terms Summary of Activities and Labs Maximise 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 How To Look for this icon to study the steps you need to learn to perform certain tasks

**Cisco Networking Academy Program** Cisco Systems, Inc

Staff,2003 bull Maps to revised 3.0 Web based curriculum bull Additional chapters on difficult topics for further hands on practice bull More coverage of Cabling and VLSM than previous edition

**Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks Lab Manual, Fourth Edition (Exam N10-006)** Mike Meyers, Jonathan S.

Weissman,2015-06-05 Practice the Skills Essential for a Successful IT Career Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Lab Manual Fourth Edition features 80 lab exercises challenge you to solve problems based on realistic case studies Lab analysis tests measure your understanding of lab results Step by step scenarios require you to think critically Key term quizzes help build your vocabulary Get complete coverage of key skills and concepts including Network architectures Cabling and topology Ethernet basics Network installation TCP IP applications and network protocols Routing Network naming Advanced networking devices IPv6 Remote connectivity Wireless networking Virtualization and cloud computing Network operations Managing risk Network security Network monitoring and troubleshooting Instructor resources available This lab manual supplements the textbook Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Fourth Edition Exam N10-006 which is available separately Solutions to the labs are not printed in the book and are only available to adopting instructors

[Scaling Networks Companion Guide](#)

Cisco Networking Academy,2014-03-06 Scaling Networks Companion Guide is the official supplemental textbook for the Scaling Networks course in the Cisco CCNA Academy This course describes the architecture components and operations of routers and switches in a large and complex network You will learn how to configure routers and switches for advanced functionality By the end of this course you will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF EIGRP STP and VTP in both IPv4 and IPv6 networks You will also develop the knowledge and skills needed to implement DHCP and DNS operations in a 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 with over 180 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 Scaling Networks Lab Manual ISBN 13 978 1 58713 325 1 ISBN 10 1 58713 325 3 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

**Principles of Computer Security: CompTIA Security+ and Beyond Lab Manual (Exam SY0-601)** Jonathan S. Weissman, 2021-08-27

Practice the Skills Essential for a Successful Career in Cybersecurity This hands on guide contains more than 90 labs that challenge you to solve real world problems and help you to master key cybersecurity concepts Clear measurable lab results map to exam objectives offering direct correlation to Principles of Computer Security CompTIA Security TM and Beyond Sixth Edition Exam SY0 601 For each lab you will get a complete materials list step by step instructions and scenarios that require you to think critically Each chapter concludes with Lab Analysis questions and a Key Term quiz Beyond helping you prepare for the challenging exam this book teaches and reinforces the hands on real world skills that employers are looking for In this lab manual you ll gain knowledge and hands on experience with Linux systems administration and security Reconnaissance social engineering phishing Encryption hashing OpenPGP DNSSEC TLS SSH Hacking into systems routers and switches Routing and switching Port security ACLs Password cracking Cracking WPA2 deauthentication attacks intercepting wireless traffic Snort IDS Active Directory file servers GPOs Malware reverse engineering Port scanning Packet sniffing packet crafting packet spoofing SPF DKIM and DMARC Microsoft Azure AWS SQL injection attacks Fileless malware with PowerShell Hacking with Metasploit and Armitage Computer forensics Shodan Google hacking Policies ethics and much more

[Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks Lab Manual, Sixth Edition \(Exam N10-008\)](#) Jonathan S. Weissman, 2022-01-28

Practice the Skills Essential for a Successful IT Career 80 lab exercises challenge you to solve problems based on realistic case studies Step by step scenarios require you to think critically Lab Analysis tests measure your understanding of lab results Key Term Quizzes help build your vocabulary Mike Meyers CompTIA Network TM Guide to Managing and Troubleshooting Networks Lab Manual Sixth Edition covers Network models Cabling and topology Ethernet basics Ethernet standards Installing a physical network TCP IP basics Routing TCP IP applications Network naming Securing TCP IP Switch features IPv6 WAN connectivity Wireless networking Virtualization and cloud computing Data centers Integrating network

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