



CCNP SWITCH 6.0

Instructor Lab Manual

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Ccnp Instructor Guide

Bob Larson, Matt Walker



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Cisco routers and switches contains the following 24 free lab exercises covering all the topics in Part II the first hands on configuration section of the book 1 Configuring Hostnames 2 Configuring Local Usernames 3 Configuring Switch IP Settings 4 Interface Settings I 5 Interface Settings II 6 Interface Settings III 7 Interface Status I 8 Interface Status II 9 Interface Status III 10 Interface Status IV 11 Setting Switch Passwords 12 Switch CLI Configuration Process I 13 Switch CLI Configuration Process II 14 Switch CLI Exec Mode 15 Switch Forwarding I 16 Switch IP Address 17 Switch IP Connectivity I 18 Switch Security I 19 Switch Security II 20 Switch Security III 21 Switch Security IV 22 Switch Security Configuration Scenario 23 Switch Interfaces and Forwarding Configuration Scenario 24 Port Security Troubleshooting Scenario If you are interested in exploring more hands on labs and practicing configuration and troubleshooting with more router and switch commands see the special 50% discount offer in the coupon code included in the sleeve in the back of this book

Windows system requirements minimum Windows 10 32 64 bit Windows 8 1 32 64 bit or Windows 7 32 64 bit 1 gigahertz GHz or faster 32 bit x86 or 64 bit x64 processor 1 GB RAM 32 bit or 2 GB RAM 64 bit 16 GB available hard disk space 32 bit or 20 GB 64 bit DirectX 9 graphics device with WDDM 1 0 or higher driver Adobe Acrobat Reader version 8 and above Mac system requirements minimum OS X 10 11 10 10 10 9 or 10 8 Intel core Duo 1 83 GHz 512 MB RAM 1 GB recommended 1 5 GB hard disk space 32 bit color depth at 1024x768 resolution Adobe Acrobat Reader version 8 and above

CCNP Routing and Switching Official Certification Library Wendell Odom, David Hucaby, Kevin Wallace, 2010-02-23 Master CCNP exam topics with the official study guides Assess your knowledge with chapter opening quizzes Review key concepts with exam preparation tasks Practice with realistic exam questions on the CD ROMs CCNP Routing and Switching Official Certification Library is a comprehensive review and practice package for the three CCNP Routing and Switching exams ROUTE SWITCH and TSHOOT The three books contained in this package CCNP ROUTE 642 902 Official Certification Guide CCNP SWITCH 642 813 Official Certification Guide and CCNP TSHOOT 642 832 Official Certification Guide present complete reviews and ample opportunity to test your knowledge of CCNP Routing and Switching exam topics These authorized CCNP Routing and Switching study guides are written by CCIE certified experts bringing years of teaching and consulting experience together in an ideal test preparation format CCNP ROUTE 642 902 Official Certification Guide teaches you how to use advanced IP addressing and routing to implement enterprise level router networks connected to LANs and WANs CCNP SWITCH 642 813 Official Certification Guide ensures that you have the skills necessary to implement scalable multilayer switched networks CCNP TSHOOT 642 832 Official Certification Guide helps you master the troubleshooting methodologies tools and tasks needed to effectively monitor and maintain large enterprise networks Each of these official study guides provides you with an organized test preparation routine through the use of proven series elements and techniques Do I Know This Already quizzes open each chapter and enable you to decide how much time you need to spend on each section Exam topic lists make referencing easy Chapter ending Exam Preparation Tasks sections help you drill on key concepts you must know thoroughly

The companion CD ROMs contains a powerful testing engine that enables you to focus on individual topic areas or take complete timed exams The assessment engine also tracks your performance and provides feedback on a module by module basis laying out a complete study plan for review Well regarded for their level of detail assessment features and challenging review questions and exercises these official study guides helps you master the concepts and techniques that will enable you to succeed on the exams the first time CCNP Routing and Switching Certification 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 To find out more about instructor led training e learning and hands on instruction offered by authorized Cisco Learning Partners worldwide please visit www.cisco.com/go/authorizedtraining These official certification guides help you master all the topics on the three CCNP Routing and Switching exams ROUTE EIGRP and OSPF IGP Redistribution and BGP Policy based routing and IP service level agreement IP SLA IPv6 and IPv4 IPv6 coexistence Routing over branch Internet connections SWITCH VLANs trunks VTP and STP Aggregating switch links Multilayer switching Router and supervisor redundancy IP telephony wireless LANs and security TSHOOT Troubleshooting models tools and tasks Cisco IOS troubleshooting commands and features Troubleshooting Cisco Catalyst Switches and STP Troubleshooting OSPF EIGRP BGP and route redistribution Security IP Services IP communications and IPv6 troubleshooting Large enterprise network troubleshooting Companion CD ROMS The three companion CD ROMs contain 300 practice questions developed by Cisco Press for the CCNP Routing and Switching exams and delivered by the Boson Exam Environment BEE Boson s ExSim Max premium practice exams available at www.boson.com This library is part of the Certification Guide Series from Cisco Press Books in this series provide officially developed exam preparation materials that offer assessment review and practice to help Cisco Career Certification candidates identify weaknesses concentrate their study efforts and enhance their confidence as exam day nears Covers ROUTE exam 642 902 SWITCH exam 642 813 TSHOOT exam 642 832 *CCNP Guide to Advanced Cisco Routing* Michael Grice,2001 Designed as certification preparation material for individuals taking the Cisco Certified Networking Academy Exam this guide maps semesters 5 and 6 of the curriculum and includes hands on exercises to reinforce skills needed for certification and success The CD ROM includes 50 course prep questions *Designing for Cisco Internetwork Solutions (DESGN) (Authorized CCDA Self-Study Guide) (Exam 640-863)* Diane Teare,2007-10-12 Authorized Self Study Guide Designing for Cisco Internetwork Solutions DESGN Second Edition Foundation learning for CCDA exam 640 863 Designing for Cisco Internetwork Solutions DESGN Second Edition is a Cisco authorized self paced learning tool for CCDA foundation learning This book provides you with the knowledge needed to design enterprise networks By reading this book you will gain a thorough understanding of designing routed and switched network infrastructures and services within a modular architecture In Designing for Cisco Internetwork Solutions DESGN Second Edition you will study a broad range of network design principles and guidelines You will learn about network design in the context of the Cisco Service Oriented

Network Architecture SONA framework and the Cisco Enterprise Architecture Specific topics include campus and data center infrastructure remote connectivity IP addressing design routing protocol selection voice network design wireless network design and including security in your designs An ongoing case study plus chapter ending review questions illustrate and help solidify the concepts presented in the book Whether you are preparing for CCDA certification or simply want to gain a better understanding of network design principles you will benefit from the foundation information presented in this book

Designing for Cisco Internetwork Solutions DESGN Second Edition is part of a recommended learning path from Cisco that includes simulation and hands on training from authorized Cisco Learning Partners and self study products from Cisco Press To find out more about instructor led training e learning and hands on instruction offered by authorized Cisco Learning Partners worldwide please visit www.cisco.com/go/authorizedtraining Diane Teare is a professional in the networking training and e learning fields She has more than 20 years of experience in designing implementing and troubleshooting network hardware and software and has also been involved in teaching course design and project management She has extensive knowledge of network design and routing technologies and is an instructor with one of the largest authorized Cisco Learning Partners

Understand the Cisco vision of intelligent networks and the SONA framework Learn how to structure and modularize network designs within the Cisco Enterprise Architecture Design basic campus and data center networks Build designs for remote connectivity with WAN technologies Create IPv4 addressing schemes Understand IPv6 design Select the appropriate routing protocol for various modules in the Cisco Enterprise Architecture Design basic VoIP and IP telephony networks Understand wireless design principles Build security into your network designs This volume is in the Certification Self Study Series offered by Cisco Press Books in this series provide officially developed self study solutions to help networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations Category Cisco Press Network Design Covers CCDA Exam 640 863 [CCENT Cisco Certified Entry Networking Technician Study Guide \(Exam 640-822\)](#) Matt Walker,Angela Walker,2008-06-18 The Boson Network Simulator has a retail price of more than 179 Cisco s certification program has been consistently listed in the Top 10 Most Valuable IT Certifications by ComputerWorld and Certification Magazine [CCENT Cisco Certified Entry Networking Technician ICND1 Study Guide \(Exam 100-101\) with Boson NetSim Limited Edition](#) Bob Larson,Matt Walker,2014-09-12 After purchasing this product Amazon will e mail you an Access Code and redemption instructions for the online content Please consult the e mail for additional details on redeeming your code and accessing the online content The best fully integrated study system available for ICND1 Exam 100 101 With hundreds of practice questions and hands on exercises CCENT Cisco Certified Entry Networking Technician ICND1 Study Guide with Boson NetSim Limited Edition covers what you need to know and shows you how to prepare for this challenging exam 100% complete coverage of all official exam objectives Exam Readiness checklist you re ready for the exam when all objectives on the list are checked off Inside the Exam sections in every chapter highlight

key exam topics covered Two Minute Drills for quick review at the end of every chapter Simulated exam questions match the format tone topics and difficulty of the real exam Covers all the exam topics including Network Fundamentals and Terminology Networking Models OSI and TCP IP IPv4 Addressing and Subnet Masks Preparing to Configure Cisco Devices Configuring Cisco Switches VLANs and Port Security Routing Essentials and Routing Protocols Cisco Router Configuration Open Shortest Path First OSPF Single Area IP Service Access Control Lists ACLs IPv6 Addressing Online content includes Boson NetSim Limited Edition with 15 simulated lab exercises Boson Exam Engine with CCENT practice exam Video training System requirements for the Boson NetSim LE and the Boson Exam Engine Supported Operating Systems Windows 8 Windows 7 Windows Vista Windows XP .NET Framework Microsoft .NET Framework Version 4.0 Processor 1 GHz Pentium processor or equivalent Minimum 3 GHz Pentium processor or equivalent Recommended RAM 512MB Minimum 2GB Recommended Hard Disk Up to 100MB of available space Display 1024 768 256 colors Minimum 1024 768 high color 32 bit Recommended Active Internet connection

CCNP: Building Cisco Remote Access Networks Study Guide (Exam 642-821) Robert Padjen, 2003-12-26 Here's the book you need to prepare the latest Building Cisco Remote Access Networks BCRAN exam 642 821 This Study Guide provides In depth coverage of key exam topics Practical information on planning configuring and troubleshooting Cisco remote access networks Hundreds of challenging review questions Leading edge exam preparation software including a test engine sample simulation questions and electronic flashcards Authoritative coverage of all exam objectives including Providing remote access to a network with asynchronous dial in Frame Relay ISDN cable modem and DSL Managing traffic flow on WAN links Using PPP as an access and encapsulation method Configuring access control to manage and limit remote access Configuring VPN operation using Cisco IOS Configuring Network Address Translation NAT Planning a Cisco ISDN solution for remote access or primary link back up Design a Cisco frame relay infrastructure Troubleshooting non functional remote access systems Troubleshooting traffic control problems on a WAN link

CCNA Cisco Certified Network Associate Study Guide (Exam 640-802) Richard Deal, 2008-04-24 The Best Fully Integrated Study System Available With hundreds of practice questions and hands on exercises CCNA Cisco Certified Network Associate Study Guide covers what you need to know and shows you how to prepare for this challenging exam 100% complete coverage of all official objectives for exam 640 802 Exam Readiness Checklist at the front and back of the book you're ready for the exam when all objectives on the list are checked off Inside the Exam sections in every chapter highlight key exam topics covered Simulated exam questions match the format tone topics and difficulty of the real exam Covers all CCNA exam topics including Network Topologies OSI Reference Model Layer 2 LAN Technologies Bridges and Switches WLAN IP Addressing and Subnetting VLSM TCP IP and the Transport Layer Cisco IOS Software Switch and Router Configuration VLANs and Trunks Switches and Redundancy IOS Device Management OSPF and EIGRP Routing Access Control Lists IPv6 WAN Frame Relay CD ROM includes Practice test engine powered by Boson featuring Practice exam questions Detailed

answers with explanations Chapter quizzes and real exam environment simulations Score Report performance assessment tool Interactive network simulation software powered by Boson with 20 simulated lab exercises 100 instructional video clips Electronic book for studying on the go CCNP Remote Access Study Guide Robert Padjen,Todd Lammle,Sean Odom,2000 Candidates for Cisco Certified Network Professional Cisco Certified Design Professional and Cisco Certified Internetwork Expert certifications can turn to this book for the latest version of Remote Access exam with maps to official Cisco exam objectives The CD has an advanced test engine with a bonus exam electronic flash cards for PC and Palm devices evaluation version of Visio software and demo of Router Simulation software **ACRC Exam Certification Guide** Clare Gough,Kevin Downes,1999 The Advanced Cisco Router Configuration ACRC exam is one of the tests required for certification as a Cisco Certified Network Professional or Cisco Certified Design Professional As with any Cisco Career Certification exam the ACRC exam requires plenty of study and confidence in your networking and router configuration knowledge When you re ready to test your knowledge of the objectives and prepare for exam day you need the preparation tools found in ACRC Exam Certification Guide from Cisco Press ACRC Exam Certification Guice is a comprehensive study tool for ACRC Exam 640 403 Written by a CCIE and Certified Cisco Systems Instructor and reviewed by Cisco technical experts ACRC Exam Certification will help you understand and master the exam objectives Quizzes help you discover how far you need to go to achieve objective mastery section by section objective lists keep you focused on the exam material you need to study **CCSP: Secure PIX and Secure VPN Study Guide** Wade Edwards,Tom Lancaster,Eric Quinn,Jason Rohm,Bryant G. Tow,2004-01-13 Here s the book you need to prepare for Cisco s Secure PIX Firewall CSPFA and Secure VPN CSVPN exams This two in one Study Guide provides In depth coverage of all exam topics Practical information on implementing Cisco s Secure PIX and Secure VPN technologies Hundreds of challenging review questions Leading edge exam preparation software including a test engine and electronic flashcards Authoritative coverage of all exam objectives including Secure PIX Firewall Translations and Connections Access Control Lists and Content Filtering Object Grouping Advanced Protocol Handling Attack Guards Intrusion Detection and Shunning Authentication Authorization and Accounting Failover Cisco PIX Device Manager Enterprise PIX Firewall Management and Maintenance Firewall Services Module Secure VPN VPN and IPSec Technology Overview VPN 3000 Concentrator Series Hardware Remote Access with Pre shared Keys and Digital Certificates IPSec Software Client Firewalls Software Client Auto Initiation Hardware Client Configuration Network Client Backup and Load Balancing Software Auto Update Configuring for the IPSec Over UDP and IPSec Over TCP LAN to LAN with Pre Shared Keys NAT and Digital Certificates Note CD ROM DVD and other supplementary materials are not included as part of eBook file *Guide to TCP/IP* Laura A. Chappell,Ed Tittel,2004 This text provides a comprehensive hands on look at TCP IP It includes coverage of the latest TCP IP stack implementations in Windows XP 2003 and 2000 as well as coverage of Ipv6 and SMTP Practice skills as they are learned with extensive hands on projects in depth case projects and review questions in each

chapter Accompanying CD ROM contains a trial version of EtherPeek protocol analyzer software and sample protocol traces giving users direct hands on practice diagnosing protocol traces CCNP ONT Portable Command Guide Scott Empson,Hans Roth,2008 Everything a network professional needs to prepare for the CCNP ONT 642 845 exam is contained in this portable resource Filled with easy to access information this book helps professionals gain a better understanding of how commands are used in simple network designs CLSC Exam Certification Guide Kevin Downes,Tim Boyles,1999 The Cisco LAN Switch Configuration CLSC exam is one of the tests required for certification as a Cisco Certified Network Professional CCNP or Cisco Certified Design Professional CCDP When you re ready to test your skills complete your knowledge of the objectives and prepare for exam day you need the preparation tools found in CLSC Exam Certification Guide from Cisco Press All-in-one CCIE Lab Study Guide Stephen Hutnik,Michael Satterlee,1999 Only 33% of the CCIE candidates pass the test the first time an exam consisting of a 100 question written test and a grueling two day hands on exam This guide contains all the information candidates need to pass with flying colors with detailed hands on practice labs The CD ROM includes over 100 configurations that can be easily manipulated for use along with an evaluation program

CCNP 3 Wayne Lewis (Cisco Certified Academy Instructor),2005 *CCNP* Todd Lammle,2001 Covers all the major areas to pass the CCNP exams Covers all the Cisco objectives highlights all key terms topics necessary procedures plus includes sample questions Covers Exams 640 503 604 504 640 505 640 506 **Cisco? Router Troubleshooting Handbook** Peter Rybaczyk,2000-03-09 Your organization wants the e mail system back up and running immediately Sound familiar The Cisco Router Troubleshooting Handbook is the book that will bail you out a one stop nuts and bolts reference that puts real world solutions at your fingertips Superbly organized and packed with crystal clear action steps it s the one book you ll carry around and consult every day Your One Step Guide for Misconfiguration problems The Physical Layer The Data Link Layer IP IGRP and EIGRP OSPF RIP BGP Route redistribution pitfalls

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