

Lab Manual

# CCNP TSHOOT

# Ccnp Troubleshooting Lab Manual

**Donna L. Harrington**



## **Ccnp Troubleshooting Lab Manual:**

**CCNP TSHOOT Lab Manual** Cisco Networking Academy, 2015-06-05 The only authorized Lab Manual for the Cisco Networking Academy CCNP Version 7 TSHOOT course A CCNP certification equips students with the knowledge and skills needed to plan implement secure maintain and troubleshoot converged enterprise networks The CCNP certification requires candidates to pass three 120 minute exams ROUTE 300 101 SWITCH 300 115 TSHOOT 300 135 that validate the key competencies of network engineers The Cisco Networking Academy curriculum consists of three experience oriented courses that employ industry relevant instructional approaches to prepare students for professional level jobs CCNP ROUTE Implementing IP Routing CCNP SWITCH Implementing IP Switching and CCNP TSHOOT Troubleshooting and Maintaining IP Networks CCNP TSHOOT Troubleshooting and Maintaining Cisco IP Networks This course teaches students how to monitor and maintain complex enterprise routed and switched IP networks Skills learned include the planning and execution of regular network maintenance as well as support and troubleshooting using technology based processes and best practices based on systematic and industry recognized approaches Extensive labs emphasize hands on learning and practice to reinforce troubleshooting techniques CCNP ROUTE and CCNP SWITCH are both prerequisites for this course The 12 comprehensive labs in this manual emphasize hands on learning and practice to reinforce configuration skills **CCNP**

**TSHOOT** Cisco Networking Academy, 2010-10-15 A CCNP certification equips students with the knowledge and skills needed to plan implement secure maintain and troubleshoot converged enterprise networks The CCNP certification requires candidates to pass three 120 minute exams ROUTE 642 902 SWITCH 642 813 and TSHOOT 642 832 that validate the key competencies of network engineers The Cisco Networking Academy curriculum consists of three experience oriented courses that employ industry relevant instructional approaches to prepare students for professional level jobs CCNP ROUTE Implementing IP Routing CCNP SWITCH Implementing IP Switching and CCNP TSHOOT Troubleshooting and Maintaining IP Networks This course teaches students how to monitor and maintain complex enterprise routed and switched IP networks Skills learned include the planning and execution of regular network maintenance as well as support and troubleshooting using technology based processes and best practices based on systematic and industry recognized approaches Extensive labs emphasize hands on learning and practice to reinforce troubleshooting techniques CCNP ROUTE and CCNP SWITCH are both prerequisites for this course **CCNP ROUTE Lab Manual** Cisco Networking Academy, 2015-05-22

The only authorized Lab Manual for the Cisco Networking Academy CCNP Version 7 ROUTE course A CCNP certification equips students with the knowledge and skills needed to plan implement secure maintain and troubleshoot converged enterprise networks The CCNP certification requires candidates to pass three 120 minute exams ROUTE 300 101 SWITCH 300 115 TSHOOT 300 135 that validate the key competencies of network engineers The Cisco Networking Academy curriculum consists of three experience oriented courses that employ industry relevant instructional approaches to prepare

students for professional level jobs CCNP ROUTE Implementing IP Routing CCNP SWITCH Implementing IP Switching and CCNP TSHOOT Maintaining and Troubleshooting IP Networks This course teaches students how to implement monitor and maintain routing services in an enterprise network Students will learn how to plan configure and verify the implementation of complex enterprise LAN and WAN routing solutions using a range of routing protocols in IPv4 and IPv6 environments The course also covers the configuration of secure routing solutions to support branch offices and mobile workers The 21 comprehensive labs in this manual emphasize hands on learning and practice to reinforce configuration skills *CCNP SWITCH Lab Manual*, 2011 The only authorized Lab Manual for Cisco Networking Academy's new course CCNP SWITCH Implementing IP Switched Networks V 6 Exam 642 813 A portable bound copy of all 19 CCNP V 6 x SWITCH Labs convenient lightweight and friendly Allows students to review or walk through hands on labs without a huge textbook or live Web connection Contains additional pages between labs for in class note taking Separate answer key available at Cisco Academy Connection and the PearsonHigherEd.com Instructor Resource site This hands on switching Lab Manual is the perfect companion for all Cisco Networking Academy students who are taking the new course CCNP SWITCH Implementing IP Switched Networks V 6 as part of their CCNP preparation It offers a portable bound copy of all 19 CCNP V 6 x SWITCH network switching labs in a convenient lightweight format that allows students to walk through key procedures and easily take notes without a large textbook or a live Internet connection Working with these conveniently formatted labs students will gain practical experience and skills for planning configuring and verifying the implementation of complex enterprise switching solutions using Cisco's Campus Enterprise Architecture and for securely integrating VLANs WLANs voice and video into campus networks *CCNP Practical Studies* Donna L. Harrington, 2003 Gain hands on experience of CCNP Support topics with lab scenarios aligned to the CIT course Real world practice labs for each topic included in the CCNP Support exam complement theoretical study materials Guides how to set up a test lab or walk through the screen shots to solve real world situations Lab scenarios enable readers to test their ability to independently complete a lab Comprehensive appendix lists Cisco equipment resellers CCNP Practical Studies Support prepares readers for the CCNP Support exam and real world application of LAN and WAN technologies through a series of lab scenarios A guide to gaining hands on experience this title can serve as a valuable self study element in a CCNP candidate's preparation Each chapter includes a review of the applicable technology along with one or more real world trouble tickets that are delivered through screen shots of relevant troubleshooting commands Screen shots emphasize important concepts and trouble spots as required Chapters suggest additional references such as utilities web sites and or supplemental reading All of the topics in the CCNP Support exam are covered in this book Each chapter addresses a section of the CCNP Support exam including IP IPX Ethernet Frame Relay ISDN Dial Cat and vLANs For those lacking the lab equipment to practice on this title highlights the steps needed to accomplish various crucial tasks providing concrete examples for the challenges faced in real world configuration Donna L

Harrington is a Lead Engineer at General Dynamics and has over 20 years experience in the Information Systems telecommunications business management and electronics field She has taught Cisco Microsoft and Novell certified courses for several years Donna has developed and delivered courses for the Information and Telecommunication Systems for Business and the Police Executive Leadership Graduate Programs at John Hopkins University and provided consulting and training for numerous local businesses throughout her career

**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

**CCNP Routing and Switching SWITCH 300-115 Lab Workbook** Mohamed Ouamer, 2019-04-04 Do you want to pass the CCNP Routing and Switching SWITCH certification exam Do you want to master the subjects in the test blueprint Do you want to become a successful Cisco network engineer Then the CCNP SWITCH Lab workbook is your companion that will help you make your hands on skills perfect and pass the SWITCH 300 115 exam This lab manual was developed to help you Understand almost every subject and Cisco IOS command in the exam syllabus Develop and improve your hands on configuration and troubleshooting skills Pass the Cisco CCNP RS SWITCH 300 115 exam Finally this book is not that type of documents that teach you IOS commands However using this lab manual you will find yourself analyzing configuring testing and troubleshooting in almost every lab you do In this way you deepen your knowledge and build up the level of hands on experience to pass the 300 115 exam and success as a network engineer Develop and Improve Your Hands on Configuration and Troubleshooting Skills You do not need to invest thousands of dollars in a CCNP class to gain the same outstanding hands on experience and high quality knowledge provided in this lab manual Besides the workbook allows you to practice all networking commands related to the exam blueprint Moreover the current lab book teaches you how to analyze a problem configure the solution verify and test it Upon the completion of the 31 labs you ll be able to install configure operate and troubleshoot switched networks Comprehensive CCNP Lab Manual Thirty two labs divided into seven modules to help you study and practice all exam topics

The workbook includes more than 300 pages allowing you to build up a high level of network configuration and troubleshooting skills in identifying and solving Cisco Catalyst switch problems Each module contains dozens of tips and tricks that require only one commitment from you pay attention and practice You ll never get lost or wonder what you should be doing after It s all logically and intuitively laid out to maximize knowledge and minimize confusion What do you need to practice the labs You can practice almost all the labs using Cisco Catalyst 3560 series switches running at least the Cisco IOS 15 0 2 SE6 C3560 IP SERVICES K9 M image If you do not want to use real gear do not worry CCNP SWITCH lab guide is easy to use with GNS3 Most of the labs have been developed using GNS3 and a Cisco VIRL IOSvL2 image Moreover all you need to build your labs is a Cisco IOS image file Cisco IOSvL2 15 2 downloaded from the official website of VIRL and the latest version of GNS3 Graphical Network Simulator If you do not know how to build up a lab in GNS3 then you can search on Youtube and find many videos that teach how to do so Finally you can rent a couple of Cisco switches and routers online for about five dollars per hour to practice the technologies that are not supported by GNS3 Excellent Support By investing in this CCNP certification lab manual you will benefit from my great support Whenever you encounter issues contact me at the email address you will find inside the book and I will help you as fast as I can Your satisfaction is my goal Therefore by investing in this book you will receive a high quality product and excellent support Small Investment with High ROI This is a high quality lab workbook sold for a low price You will never gain the hands on experience that this CCNP lab workbook provides you even you spend thousands of dollars in CCNP training Finally let me help you succeed in your CCNP journey

Mohamed Ouamer      CCNP 4 Wayne Lewis, 2005 The only Cisco authorized Lab Companion for the CCNP Network Troubleshooting course within the Cisco Networking Academy Program Lab Companion contains all labs within the course and can be used as a convenient resource to utilize outside the classroom Written by the course developers information straight from the source Can easily be used in conjunction with the Companion Guide for a full package of learning resources This is the first edition of the Network Troubleshooting Lab Companion for students in the CCNP 4 Network Troubleshooting Cisco Networking Academy Program course The book is specifically designed to supplement the CCNP 4 online course version 3 0 and to prepare students for the updated CIT exam This lab manual provides detailed practice scenarios with troubleshooting basics to complex issues associated with LANs and WANs built with Cisco devices      *CCNP ROUTE Lab Manual* Cisco Networking Academy, 2010 The only authorized Lab Manual for Cisco Networking Academy s newly updated course CCNP ROUTE Implementing IP Routing V 6 Exam 642 902 A portable bound copy of all 32 CCNP V 6 x ROUTE Labs convenient lightweight and friendly Allows students to review or walk through hands on labs without a huge textbook or live Web connection Contains additional pages between labs for in class note taking Separate answer key available at Cisco Academy Connection and the PearsonHigherEd com Instructor Resource site This hands on routing Lab Manual is the perfect companion for all Cisco Networking Academy students who are taking the new course CCNP ROUTE Implementing IP

Routing V 6 as part of their CCNP preparation It offers a portable bound copy of all 32 CCNP V 6 x ROUTE network routing labs in a convenient lightweight format that allows students to walk through key procedures and easily take notes without a large textbook or a live Internet connection Working with these conveniently formatted labs students will gain practical experience and skills for using advanced IP addressing and routing in implementing scalable and secure Cisco ISR routers connected to LANs and WANs and for configuring secure routing solutions to support branch offices and mobile workers

*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

*Mike Meyers' A+ Guide to Managing and Troubleshooting PCs Lab Manual* Michael Meyers, Lloyd Jeffries, 2003-12 Features 40 labs that challenge readers to solve problems by applying the concepts taught *Mike Meyers' A+ Guide: Essentials Lab Manual (Exam 220-601)* Mike Meyers, 2007-04-22 There are currently more than 500 000 A technicians all of them will have to take the new exams to keep their certifications current CompTIA is revising the A exam into two new sections the A Essentials Exam and the A Technician Exam More than 100 companies including CompUSA and IBM have made A certification mandatory for their service technicians *CCNP Practical Studies* Justin Menga, 2003 Gain necessary hands on experience implementing CCNP Switching concepts with this practical lab guide Prepare for the CCNP Switching exam through hands on application of concepts These lab configurations are complete with explanations of equipment setup and execution

**Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks Lab Manual, Fifth Edition (Exam N10-007)** Mike Meyers, Jonathan S. Weissman, 2018-07-13 Practice the Skills Essential for a Successful IT Career 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 Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Lab Manual Fifth

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**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

**CCIE Wireless v3 Study Guide** Carlos Alcantara,Nicolas Darchis,Jerome Henry,Jeal Jimenez,Federico Ziliotto,2018-11-27 Thoroughly prepare for the revised Cisco CCIE Wireless v3 x certification exams Earning Cisco CCIE Wireless certification demonstrates your broad theoretical knowledge of wireless networking your strong understanding of Cisco WLAN technologies and the skills and technical knowledge required of an expert level wireless network professional This guide will help you efficiently master the knowledge and skills you ll need to succeed on both the CCIE Wireless v3 x written and lab exams Designed to help you efficiently focus your study achieve mastery and build confidence it focuses on conceptual insight not mere memorization Authored by five of the leading Cisco wireless network experts it covers all areas of the CCIE Wireless exam blueprint offering complete foundational knowledge for configuring and troubleshooting virtually any Cisco wireless deployment Plan and design enterprise class WLANs addressing issues ranging from RF boundaries to AP positioning power levels and density Prepare and set up wireless network infrastructure including Layer 2 3 and key network services Optimize existing wired networks to support wireless infrastructure Deploy configure and troubleshoot Cisco IOS Autonomous WLAN devices for wireless bridging Implement configure and manage AireOS Appliance Virtual and Mobility Express Controllers Secure wireless networks with Cisco Identity Services Engine protocols concepts use cases and configuration Set up and optimize management operations with Prime Infrastructure and MSE CMX Design configure operate and troubleshoot WLANs with real time applications

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