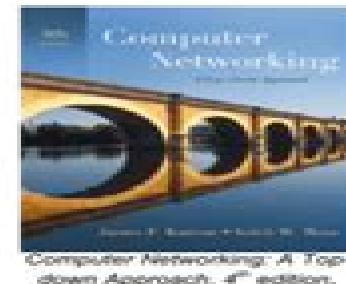


Wireshark Lab: IP



Version: 2.0

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In this lab, we'll investigate the IP protocol, focusing on the IP datagram. We'll do so by analyzing a trace of IP datagrams sent and received by an execution of the `traceroute` program (the `traceroute` program itself is explored in more detail in the Wireshark ICMP lab). We'll investigate the various fields in the IP datagram, and study IP fragmentation in detail.

Before beginning this lab, you'll probably want to review sections 1.4.3 in the text and section 3.4 of RFC 2151 [<http://ftp.rfc-editor.org/in-notes/rfc2151.txt>] to update yourself on the operation of the `traceroute` program. You'll also want to read Section 4.4 in the text, and probably also have RFC 791 [<http://ftp.rfc-editor.org/in-notes/rfc791.txt>] on hand as well, for a discussion of the IP protocol.¹

1. Capturing packets from an execution of `traceroute`

In order to generate a trace of IP datagrams for this lab, we'll use the `traceroute` program to send datagrams of different sizes towards some destination, X . Recall that `traceroute` operates by first sending one or more datagrams with the time-to-live (TTL) field in the IP header set to 1; it then sends a series of one or more datagrams towards the same destination with a TTL value of 2; it then sends a series of datagrams towards the same destination with a TTL value of 3; and so on. Recall that a router must decrement the TTL in each received datagram by 1 (actually, RFC 791 says that the router must decrement the TTL by *at least* one). If the TTL reaches 0, the router returns an ICMP message (type 11 – TTL-exceeded) to the sending host. As a result of this behavior, a datagram with a TTL of 1 (sent by the host executing `traceroute`) will cause the router one hop away from the sender to send an ICMP TTL-exceeded message back to the sender; the datagram sent with a TTL of 2 will cause the router two hops away to send an ICMP message back to the sender; the datagram sent with a TTL of 3

¹ All references to the text in this lab are to *Computer Networking: A Top-down Approach*, 4th edition.

Wireshark Lab Manual

James Pyles



Wireshark Lab Manual:

CCNA Voice Lab Manual Brent Sieling, 2013-01-11 The CCNA 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

CompTIA Network+ Lab Manual Toby Skandier, 2012-01-31 Gain street smart skills in network administration Think of the most common and challenging tasks that network administrators face then read this book and find out how to perform those tasks step by step CompTIA Network Lab Manual provides an inside look into the field of network administration as though you were actually on the job You ll find a variety of scenarios and potential roadblocks as well as clearly mapped sections to help you prepare for the CompTIA Network Exam N10 005 Learn how to design implement configure maintain secure and troubleshoot a network with this street smart guide Provides step by step instructions for many of the tasks network administrators perform on a day to day basis such as configuring wireless components placing routers and servers configuring hubs switches and routers configuring a Windows client and troubleshooting a network Addresses the CompTIA Network Exam N10 005 objectives and also includes a variety of practice labs giving you plenty of opportunities for hands on skill building Organized by the phases of network administration designing a network implementing and configuring it maintenance and security and troubleshooting Study practice and review for the new CompTIA Network N10 005 Exam or a networking career with this practical thorough lab manual

MySQL Lab Manual Manish Soni, 2024-11-13 This book MySQL Lab Manual is your companion on a journey through the intricate and dynamic world of MySQL an open source relational database management system that has captivated the hearts of developers database administrators and businesses worldwide In a data driven era where information is the lifeblood of organizations mastering a robust and versatile database system like MySQL is of paramount importance This book is tailored to meet the diverse needs of readers whether you re taking your first steps into the realm of databases or you re an experienced database professional looking to deepen your MySQL expertise As you navigate through these pages you ll find the collective wisdom

of experienced database professionals developers and MySQL enthusiasts who have contributed to this comprehensive resource We d like to express our gratitude to the MySQL community whose passion and dedication have played an instrumental role in shaping this book We d also like to thank our families friends and colleagues for their unwavering support throughout this endeavour We believe that this book will be a valuable resource on your journey to becoming a MySQL master Whether you re a student a professional or an enthusiast we hope this book equips you with the knowledge and skills you need to harness the full potential of MySQL

Principles of Computer Security Lab Manual, Fourth Edition Vincent J. Nestler, Keith Harrison, Matthew P. Hirsch, Wm. Arthur Conklin, 2014-10-31 Practice the Computer Security Skills You Need to Succeed 40 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 Labs can be performed on a Windows Linux or Mac platform with the use of virtual machines In this Lab Manual you ll practice Configuring workstation network connectivity Analyzing network communication Establishing secure network application communication using TCP IP protocols Penetration testing with Nmap metasploit password cracking Cobalt Strike and other tools Defending against network application attacks including SQL injection web browser exploits and email attacks Combatting Trojans man in the middle attacks and steganography Hardening a host computer using antivirus applications and configuring firewalls Securing network communications with encryption secure shell SSH secure copy SCP certificates SSL and IPsec Preparing for and detecting attacks Backing up and restoring data Handling digital forensics and incident response Instructor resources available This lab manual supplements the textbook Principles of Computer Security Fourth Edition which is available separately Virtual machine files Solutions to the labs are not included in the book and are only available to adopting instructors

CompTIA A+ Complete Lab Manual James Pyles, 2012-09-13 Boost your understanding of CompTIA A exam principles with practical real world exercises Designed to complement CompTIA A Complete Study Guide this hands on companion book takes you step by step through the tasks a PC technician is likely to face on any given day It supports the theory explained in the test prep guide with additional practical application increasing a new PC technician s confidence and marketability Various scenarios incorporate roadblocks that may occur on the job and explain ways to successfully complete the task at hand In addition each task is mapped to a specific A exam objective for exams 220 801 and 220 802 Tasks are divided into categories hardware and software installation hardware and software maintenance and installing and upgrading operating systems networks and security systems Designed to enhance factual study with practical application Explains step by step how to perform a variety of tasks that PC technicians commonly face on the job Tasks include installing or replacing a power supply or a laptop hard drive installing or upgrading to Windows 7 scanning for and removing viruses installing printer drivers and troubleshooting a network CompTIA A Complete Lab Manual gives you the hands on experience you need to succeed in the real world

CCNA Cybersecurity Operations

Companion Guide Allan Johnson, Cisco Networking Academy, 2018-06-17 CCNA Cybersecurity Operations Companion Guide is the official supplemental textbook for the Cisco Networking Academy CCNA Cybersecurity Operations course. The course emphasizes real world practical application while providing opportunities for you to gain the skills needed to successfully handle the tasks, duties, and responsibilities of an associate level security analyst working in a security operations center (SOC). 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:

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- 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 360 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.
- How To Look for this icon:** to study the steps you need to learn to perform certain tasks.
- Interactive Activities:** Reinforce your understanding of topics with dozens of exercises from the online course identified throughout the book with this icon.
- Packet Tracer Activities:** Explore and visualize networking concepts using Packet Tracer. There are exercises interspersed throughout the chapters and provided in the accompanying Lab Manual book.
- Videos:** Watch the videos embedded within the online course.
- Hands on Labs:** Develop critical thinking and complex problem solving skills by completing the labs and activities included in the course and published in the separate Lab Manual.

Introduction to Networks v6 Companion Guide Cisco Networking Academy, 2016-12-10. This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. *Introduction to Networks Companion Guide v6* is the official supplemental textbook for the *Introduction to Networks* course in the Cisco Networking Academy CCNA Routing and Switching curriculum. The course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, you will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. 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:

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of chapter questions that match the style of questions you see in the online course quizzes The answer key explains each answer

Lab Manual to Accompany Access Control, Authentication, and Public Key Infrastructure Bill Ballard, 2011 The Laboratory Manual to Accompany Access Control Authentication and Public Key Infrastructure is the lab companion to the Information Systems and Security Series title Auditing IT Infrastructure for Compliance It provides hands on exercises each with measurable learning outcomes About the Series Visit www.issaseries.com for a complete look at the series The Jones Bartlett Learning Information System Assurance Series delivers fundamental IT security principles packed with real world applications and examples for IT Security Cybersecurity Information Assurance and Information Systems Security programs Authored by Certified Information Systems Security Professionals CISSPs and reviewed by leading technical experts in the field these books are current forward thinking resources that enable readers to solve the cybersecurity challenges of today and tomorrow

Wireshark for Security Professionals Jessey Bullock, Jeff T. Parker, 2017-02-28 Master Wireshark to solve real world security problems If you don't already use Wireshark for a wide range of information security tasks you will after this book Mature and powerful Wireshark is commonly used to find root cause of challenging network issues This book extends that power to information security professionals complete with a downloadable virtual lab environment Wireshark for Security Professionals covers both offensive and defensive concepts that can be applied to essentially any InfoSec role Whether into network security malware analysis intrusion detection or penetration testing this book demonstrates Wireshark through relevant and useful examples Master Wireshark through both lab scenarios and exercises Early in the book a virtual lab environment is provided for the purpose of getting hands on experience with Wireshark Wireshark is combined with two popular platforms Kali the security focused Linux distribution and the Metasploit Framework the open source framework for security testing Lab based virtual systems generate network traffic for analysis investigation and demonstration In addition to following along with the labs you will be challenged with end of chapter exercises to expand on covered material Lastly this book explores Wireshark with Lua the light weight programming language Lua allows you to extend and customize Wireshark's features for your needs as a security professional Lua source code is available both in the book and online Lua code and lab source code are available online through GitHub which the book also introduces The book's final two chapters greatly draw on Lua and TShark the command line interface of Wireshark By the end of the book you will gain the following Master the basics of Wireshark Explore the virtual w4sp lab environment that mimics a real world network Gain experience using the Debian based Kali OS among other systems Understand the technical details behind network attacks Execute exploitation and grasp offensive and defensive activities exploring them through Wireshark Employ Lua to extend Wireshark features and create useful scripts To sum up the book content labs and online material coupled with many referenced sources of PCAP traces together present a dynamic and robust manual for information security professionals seeking to leverage Wireshark

Introduction to Networks Companion Guide v5.1 Cisco Networking Academy, 2016-06-01 Introduction to

Networks Companion Guide v5 1 is the official supplemental textbook for the Introduction to Networks course in the Cisco Networking Academy CCNA Routing and Switching curriculum. The course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, you will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. 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:

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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 that 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:

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- 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 are 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.

CASP CompTIA Advanced Security Practitioner Study Guide Michael Gregg, 2014-10-27

NOTE: The exam this book covered, CASP CompTIA Advanced Security Practitioner Exam CAS 002, was retired by CompTIA in 2019 and is no longer offered. For coverage of the current exam, CASP CompTIA Advanced Security Practitioner Exam CAS 003 Third Edition, please look for the latest edition of this guide: *CASP CompTIA Advanced Security Practitioner Study Guide Exam CAS 003 Third Edition* 9781119477648. CASP CompTIA Advanced Security Practitioner Study Guide CAS 002 is the updated edition of the bestselling book covering the CASP certification exam. CompTIA approved this guide; it covers all of the CASP exam objectives with clear, concise, thorough information on crucial security topics. With practical examples and insights drawn from real

world experience the book is a comprehensive study resource with authoritative coverage of key concepts Exam highlights end of chapter reviews and a searchable glossary help with information retention and cutting edge exam prep software offers electronic flashcards and hundreds of bonus practice questions Additional hands on lab exercises mimic the exam s focus on practical application providing extra opportunities for readers to test their skills CASP is a DoD 8570 1 recognized security certification that validates the skillset of advanced level IT security professionals The exam measures the technical knowledge and skills required to conceptualize design and engineer secure solutions across complex enterprise environments as well as the ability to think critically and apply good judgment across a broad spectrum of security disciplines This study guide helps CASP candidates thoroughly prepare for the exam providing the opportunity to Master risk management and incident response Sharpen research and analysis skills Integrate computing with communications and business Review enterprise management and technical component integration Experts predict a 45 fold increase in digital data by 2020 with one third of all information passing through the cloud Data has never been so vulnerable and the demand for certified security professionals is increasing quickly The CASP proves an IT professional s skills but getting that certification requires thorough preparation This CASP study guide provides the information and practice that eliminate surprises on exam day Also available as a set Security Practitioner Cryptography Set 9781119071549 with Applied Cryptography Protocols Algorithms and Source Code in C 2nd Edition *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 [Introduction to Networks](#) Cisco Networking Academy Program,2014 Introduction to Networks Companion Guide is the official supplemental textbook for the Introduction to Networks course in the Cisco Networking Academy CCNA Routing and Switching curriculum The course introduces the architecture structure functions components and models of the Internet and computer networks The principles of IP addressing and fundamentals of Ethernet concepts media and operations are introduced to provide a foundation for the curriculum By the end of the course you will be able to build simple LANs perform basic configurations for routers and switches and implement IP addressing schemes 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 195 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 Introduction to Networks Lab Manual ISBN 10 1 58713 312 1 ISBN 13 978 1 58713 312 1 How To Look for this icon to study the steps you need to learn to perform certain tasks Interactive Activities Reinforce your understanding of topics with more than 50 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 66 course labs and Class Activities that are included in the course and published in the separate Lab Manual This book is part of the Cisco Networking Academy Series from Cisco Press Books in this series support and complement the Cisco Networking Academy curriculum CASP: CompTIA Advanced Security Practitioner Study Guide Authorized Courseware Michael Gregg, Billy Haines, 2012-02-16 Get Prepared for CompTIA Advanced Security Practitioner CASP Exam Targeting security professionals who either have their CompTIA Security certification or are looking to achieve a more advanced security certification this CompTIA Authorized study guide is focused on the new CompTIA Advanced Security Practitioner CASP Exam CAS 001 Veteran IT security expert and author Michael Gregg details the technical knowledge and skills you need to conceptualize design and engineer secure solutions across complex enterprise environments He prepares you for aspects of the certification test that assess how well you apply critical thinking and judgment across a broad spectrum of security disciplines Featuring clear and concise information on crucial security topics this study guide includes examples and insights drawn from real world experience to help you not only prepare for the exam but also your career You will get complete coverage of exam objectives for all topic areas including Securing Enterprise level Infrastructures Conducting Risk Management Assessment Implementing Security Policies and Procedures Researching and Analyzing Industry Trends Integrating Computing Communications and Business Disciplines Additionally you can download a suite of study tools to help you prepare including an assessment test two practice exams electronic flashcards and a glossary of key terms Go to www.sybex.com/go/casp and download the full set of electronic test prep tools **Wireshark Essentials** James H. Baxter, 2014-10-28 This book is aimed at IT professionals who want to develop or enhance their packet analysis skills Basic familiarity with common network and application services terms and technologies is assumed however expertise in advanced networking topics or protocols is not required Readers in any IT field can develop the analysis skills specifically needed to complement and support their respective areas of responsibility and interest **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 Edition covers Network models Cabling and topology Ethernet basics and modern Ethernet Installing a physical network TCP/IP Routing Network naming Advanced networking devices IPv6 Remote connectivity Wireless networking Virtualization and cloud computing Mobile networking Building a real world network Managing risk Protecting your network Network monitoring and troubleshooting **CASP+ CompTIA Advanced Security Practitioner Study Guide** Jeff T. Parker, Michael Gregg, 2019-01-23 Comprehensive coverage of the new CASP exam with hands on practice and interactive study tools The CASP CompTIA Advanced Security Practitioner Study Guide Exam CAS 003 Third Edition offers invaluable preparation for exam CAS 003 Covering 100 percent of the exam objectives this book provides expert walk through of essential security concepts and processes to help you tackle this challenging exam with full confidence Practical examples and real world insights illustrate critical topics and show what essential practices look like on the ground while detailed explanations of technical and business concepts give you the background you need to apply identify and implement appropriate security solutions End of chapter reviews help solidify your understanding of each objective and cutting edge exam prep software features electronic flashcards hands on lab exercises and hundreds of practice questions to help you test your knowledge in advance of the exam The next few years will bring a 45 fold increase in digital data and at least one third of that data will pass through the cloud The level of risk to data everywhere is growing in parallel and organizations are in need of qualified data security professionals the CASP certification validates this in demand skill set and this book is your ideal resource for passing the exam Master cryptography controls vulnerability analysis and network security Identify risks and execute mitigation planning strategies and controls Analyze security trends and their impact on your organization Integrate business and technical components to achieve a secure enterprise architecture CASP meets the ISO 17024 standard and is approved by U S Department of Defense to fulfill Directive 8570 01 M requirements It is also compliant with government regulations under the Federal Information Security Management Act FISMA As such this career building credential makes you in demand in the marketplace and shows that you are qualified to address enterprise level security concerns The CASP CompTIA Advanced Security Practitioner Study Guide Exam CAS 003 Third Edition is the preparation resource you need to take the next big step for your career and pass with flying colors *Security Strategies in Web Applications and Social Networking* Llc Jones & Bartlett Learning, vLab Solutions Staff, Marcus Goncalves, Mike Harwood, Matthew Pemble, 2012-01-12 Networking Security **Network Security, Firewalls, and VPNs** vLab Solutions Staff, 2012-01-12 PART OF THE NEW JONES BARTLETT LEARNING INFORMATION SYSTEMS SECURITY ASSURANCE

SERIES Network Security Firewalls and VPNs provides a unique in depth look at the major business challenges and threats that are introduced when an organization s network is connected to the public Internet Written by an industry expert this book provides a comprehensive explanation of network security basics including how hackers access online networks and the use of Firewalls and VPNs to provide security countermeasures Using examples and exercises this book incorporates hands on activities to prepare the reader to disarm threats and prepare for emerging technologies and future attacks

The Enigmatic Realm of **Wireshark Lab Manual**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Wireshark Lab Manual** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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