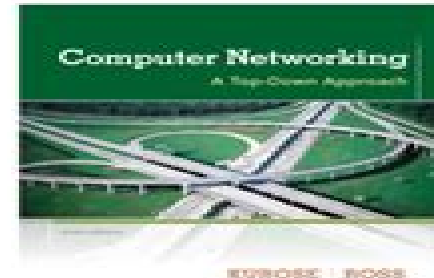


Wireshark Lab: TCP v6.0

Supplement to *Computer Networking: A Top-Down Approach*, 6th ed., J.F. Kurose and K.W. Ross

"Tell me and I forget. Show me and I remember. Involve me and I understand." Chinese proverb

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In this lab, we'll investigate the behavior of the celebrated TCP protocol in detail. We'll do so by analyzing a trace of the TCP segments sent and received in transferring a 150KB file (containing the text of Lewis Carroll's *Alice's Adventures in Wonderland*) from your computer to a remote server. We'll study TCP's use of sequence and acknowledgement numbers for providing reliable data transfer; we'll see TCP's congestion control algorithm – slow start and congestion avoidance – in action; and we'll look at TCP's receiver-advertised flow control mechanism. We'll also briefly consider TCP connection setup and we'll investigate the performance (throughput and round-trip time) of the TCP connection between your computer and the server.

Before beginning this lab, you'll probably want to review sections 3.5 and 3.7 in the text¹.

1. Capturing a bulk TCP transfer from your computer to a remote server

Before beginning our exploration of TCP, we'll need to use Wireshark to obtain a packet trace of the TCP transfer of a file from your computer to a remote server. You'll do so by accessing a Web page that will allow you to enter the name of a file stored on your computer (which contains the ASCII text of *Alice in Wonderland*), and then transfer the file to a Web server using the HTTP POST method (see section 2.2.3 in the text). We're using the POST method rather than the GET method as we'd like to transfer a large amount of data *from* your computer to another computer. Of course, we'll be running Wireshark during this time to obtain the trace of the TCP segments sent and received from your computer.

Do the following:

¹ References to figures and sections are for the 6th edition of our text, *Computer Networks, A Top-down Approach*, 6th ed., J.F. Kurose and K.W. Ross, Addison-Wesley-Pearson, 2012.

Wireshark Lab Manual For Tcp

Jessey Bullock, Jeff T. Parker



Wireshark Lab Manual For Tcp:

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 **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 devices Network operations Protecting your network Network monitoring Network troubleshooting [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 **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

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monitoring and troubleshooting *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:

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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

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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

Wireshark Workbook 1 Laura Chappell, 2019-11-11 Wireshark is the world s most popular network analyzer solution Used for network troubleshooting forensics optimization and more Wireshark is considered one of the most successful open source projects of all time Laura Chappell has been involved in the Wireshark project since its infancy when it was called Ethereal and is considered the foremost authority on network protocol analysis and forensics using Wireshark This book consists of 16 labs and is based on the format Laura introduced to trade show audiences over ten years ago through her highly acclaimed Packet Challenges This book gives you a chance to test your knowledge of Wireshark and TCP IP communications analysis by posing a series of questions related to a trace file and then providing Laura s highly detailed step by step instructions showing how Laura arrived at the answers to the labs Book trace files and blank Answer Sheets can be downloaded from this book s supplement page see <https://www.chappelluniversity.com/books> Lab 1 Wireshark Warm Up Objective Get Comfortable with the Lab Process Completion of this lab requires many of the skills you will use throughout this lab book If you are a bit shaky on any answer take time when reviewing the answers to this lab to ensure you have mastered the necessary skill s Lab 2 Proxy Problem Objective Examine issues that relate to a web proxy connection problem Lab 3 HTTP vs HTTPS Objective Analyze and compare HTTP and HTTPS communications and errors using inclusion and field existence filters Lab 4 TCP SYN Analysis Objective Filter on and analyze TCP SYN and SYN ACK packets to determine the capabilities of TCP peers and their connections Lab 5 TCP SEQ ACK Analysis Objective Examine and analyze TCP sequence and acknowledgment numbering and Wireshark s interpretation of non sequential numbering patterns Lab 6 You re Out of Order Objective Examine Wireshark s process of distinguishing between out of order packets and retransmissions and identify mis identifications Lab 7 Sky High Objective Examine and analyze traffic captured as a host was redirected to a malicious site Lab 8 DNS Warm Up Objective Examine and analyze DNS name resolution traffic that contains canonical name and multiple IP address responses Lab 9 Hacker Watch Objective Analyze TCP connections and FTP command and data channels between hosts Lab 10 Timing is Everything Objective Analyze and compare path latency name resolution and server response times Lab 11 The News

Objective Analyze capture location path latency response times and keepalive intervals between an HTTP client and server
Lab 12 Selective ACKs Objective Analyze the process of establishing Selective acknowledgment SACK and using SACK during packet loss recovery
Lab 13 Just DNS Objective Analyze compare and contrast various DNS queries and responses to identify errors cache times and CNAME alias information
Lab 14 Movie Time Objective Use various display filter types including regular expressions regex to analyze HTTP redirections end of field values object download times errors response times and more
Lab 15 Crafty Objective Practice your display filter skills using contains operators ASCII filters and inclusion exclusion filters while analyzing TCP and HTTP performance parameters
Lab 16 Pattern Recognition Objective Focus on TCP conversations and endpoints while analyzing TCP sequence numbers Window Scaling keep alive and Selective Acknowledgment capabilities

GCIH GIAC Certified Incident Handler All-in-One Exam Guide Nick Mitropoulos, 2020-08-21 This self study guide delivers complete coverage of every topic on the GIAC Certified Incident Handler exam Prepare for the challenging GIAC Certified Incident Handler exam using the detailed information contained in this effective exam preparation guide Written by a recognized cybersecurity expert and seasoned author GCIH GIAC Certified Incident Handler All in One Exam Guide clearly explains all of the advanced security incident handling skills covered on the test Detailed examples and chapter summaries throughout demonstrate real world threats and aid in retention You will get online access to 300 practice questions that match those on the live test in style format and tone Designed to help you prepare for the exam this resource also serves as an ideal on the job reference Covers all exam topics including Intrusion analysis and incident handling Information gathering Scanning enumeration and vulnerability identification Vulnerability exploitation Infrastructure and endpoint attacks Network DoS and Web application attacks Maintaining access Evading detection and covering tracks Worms bots and botnets Online content includes 300 practice exam questions Test engine that provides full length practice exams and customizable quizzes

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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

TCP/IP Essentials Shivendra S. Panwar,2004 A hands on textbook on TCP IP technologies showing how the protocols are implemented in practice **TCP/IP Essentials** Shivendra S. Panwar,Jeong-Dong Ryoo,Shiwen Mao,Yihan Li,2014-05-14 A hands on textbook on TCP IP technologies showing how the protocols are implemented in practice *Microsoft Education and Certification* , CompTIA Network+ Lab Manual Toby Skandier,2012-02-28 A guide to preparing for CompTIA s Network Exam N10 005 that includes step by step exercises with real world scenarios **Wireshark® Workbook 1** Laura A. Chappell,2020 **Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks Lab Manual, 3rd Edition (Exam N10-005)** Mike Meyers,Dennis Haley,2012-02-04 Updated for the 2011 CompTIA Network exam and featuring more than 40 labs Supplements Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Third Edition Includes materials lists and lab set up instructions Provides students with the real world hands on practice they need to pass the exam and succeed on the job **Computer Networks** Ata Elahi,Alex Cushman,2023-10-16 The hands on textbook covers both the theory and applications of data communications the Internet and network security technology following the ACM guideline for courses in networking The content is geared towards upper undergraduate and graduate students in information technology communications engineering and computer science The book is divided into three sections Data Communications Internet Architecture and Network Security Topics covered include flow control and reliable transmission modulation DSL cable modem and FTTH Ethernet and Fast Ethernet gigabit and 10 gigabit Ethernet and LAN interconnection devices among others The book also covers emerging topics such as IPv6 and software defined networks The book is accompanied with a lab manual which uses Wireshark Cisco Packet Tracer and virtual machines to lead students through simulated labs

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