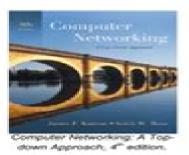
# Wireshark Lab: IP



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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 [ftp://ftp.rfc-editor.org/in-notes/rfc2151.txt] to update yourself on the operation of the tracerouse program. You'll also want to read Section 4.4 in the text, and probably also have RFC 791 [ftp://ftp.rfc-editor.org/in-notes/rfc791.txt] on hand as well, for a discussion of the IP protocol.

#### 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

All references to the text in this lab are to Computer Networking: A Top-down Approach, 4<sup>th</sup> edition.

# **Wireshark Lab Manual**

**Michael Gregg** 

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of experienced database professionals developers and MySOL 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 guizzes 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** 

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