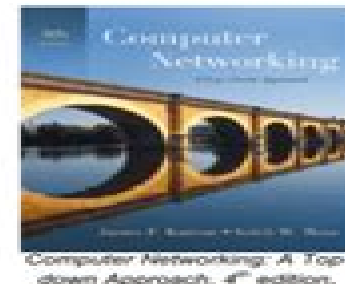


Wireshark Lab: IP



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.

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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

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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

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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 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 250 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 ofchapter 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 SeriesVisit 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 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, 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 challenge you to solve problems based on realistic case studies Lab analysis tests measure your understanding of

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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

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