

# Lab 5: Packet Capture & Traffic Analysis with Wireshark

Rich Macfarlane

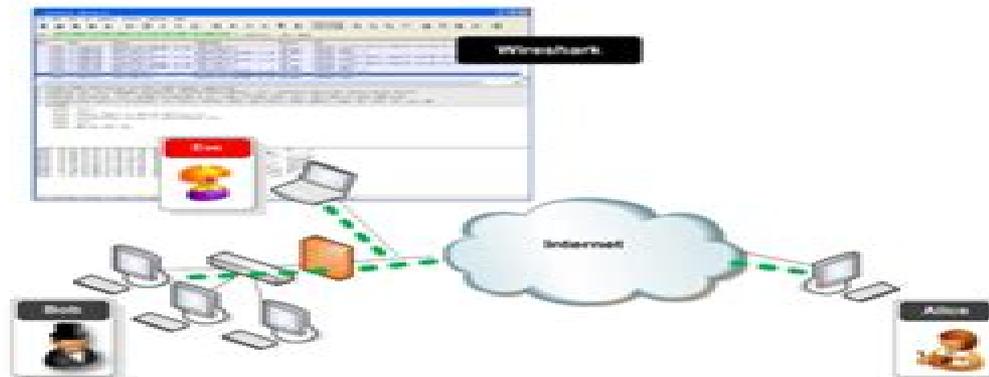
## 5.1 Details

**Aim:** This lab introduces packet capture (packet sniffing) and network traffic analysis with the **Wireshark** tool, and basic network scanning using **Nmap**.



### Packet Capture (Packet Sniffing)

A **packet sniffer** is an application which can capture and analyse network traffic which is passing through a system's Network Interface Card (NIC). The sniffer sets the card to **promiscuous mode** which means all traffic is read, whether it is addressed to that machine or not. The figure below shows an attacker sniffing packets from the network, and the **Wireshark** packet sniffer/analyser (formerly known as ethereal).



### Packet Analysis

Wireshark is an open source cross-platform packet capture and analysis tool, with versions for Windows and Linux. The GUI window gives a detailed breakdown of the network protocol stack for each packet, colorising packet details based on protocol, as well as having functionality to filter and search the traffic, and pick out TCP streams. Wireshark can also save packet data to files for offline analysis and export/import packet captures to/from other tools. Statistics can also be generated for packet capture files.

# Lab 5 Packet Capture Traffic Analysis With Wireshark

**Wm. Arthur Conklin, Greg White, Chuck  
Cothren, Roger L. Davis, Dwayne  
Williams**

## Lab 5 Packet Capture Traffic Analysis With Wireshark:

*Certified Ethical Hacker (CEH) v13: Complete Exam Study Manual* K. Mitts, 2026-02-26 Certified Ethical Hacker CEH v13 Exam Study Manual is a comprehensive preparation guide designed to help candidates confidently pass the latest CEH Version 13 certification exam

[Kali Linux in Hinglish](#) A. Khan, 2025-10-01 Kali Linux in Hinglish by A Khan ek practical aur beginner friendly guide hai jo Kali Linux ke basics se lekar real world penetration testing tak le jaata hai wo bhi Hinglish Hindi English mix mein Is kitab ka maksad hai beginners ko safe aur ethical tareeke se wireless web aur system security test karna sikhana lab setup se lekar tools usage aur reporting tak

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**Mastering Kali NetHunter** Sercan Akyuz, 2025-09-14 Mastering Kali NetHunter is your complete guide to turning an ordinary Android device into a full fledged hacking toolkit Built on Kali Linux NetHunter brings penetration testing power to your pocket Inside you ll learn how to Install and customize Kali NetHunter on supported devices Perform wireless Bluetooth and USB based attacks Use advanced tools like Metasploit Burp Suite and OWASP ZAP Build and run real world attack simulations with step by step examples Stay on the legal side with guidelines for responsible testing Packed with diagrams case scenarios and practical exercises this book doesn t just teach you commands it trains you to think like a pentester Whether you re a beginner or an advanced red teamer this is your hands on playbook for mastering mobile hacking

**The Complete Guide to Computer Science Engineering and Cybersecurity-Extended Edition** Shivam Kumar, 2025-10-24 A step by step guide covering programming networks operating systems cybersecurity and emerging technologies Ideal for students professionals and enthusiasts seeking mastery in CS and security

**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 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 Network architectures Cabling and topology Ethernet basics Network installation TCP IP applications and network protocols Routing Network naming Advanced networking devices IPv6 Remote connectivity Wireless networking

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*Journal of the National Institute of Information and Communications Technology*, 2016

**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

**Principles of Computer Security CompTIA Security+ and Beyond (Exam SY0-301), Third Edition** Wm. Arthur Conklin, Gregory White, Dwayne Williams, Roger Davis, Chuck Cothren, Corey Schou, 2012-01-26 Written by leaders in the field of IT security higher education the new edition of this full color text is revised to cover the 2011 CompTIA Security exam Principles of Computer Security Third Edition covers the new 2011 CompTIA Security exam objectives and provides context for students and aspiring government workers looking to meet government workforce requirements DOD 8570 This full color textbook provides comprehensive coverage of the core principles of information security system security network infrastructure access control organizational security and compliance while also providing 100% coverage of all exam objectives for the CompTIA Security certification Well illustrated with photographs and diagrams and has an engaging dynamic presentation The textbook s teaching elements include sidebar questions critical skill building activities and end of chapter student review and assessment Principles of Computer Security Third Edition Features CompTIA Approved Quality Curriculum CAQC Official content Offers Online Learning Center with instructor manual classroom PowerPoint slides and a test bank solution in EZ Test General Security Concepts Operational Organizational Security The Role of People in Security Cryptography Public Key Infrastructure Standards and Protocols Physical Security Network Fundamentals Infrastructure Security Authentication and Remote Access Wireless Intrusion Detection Systems and Network Security Baselines Types of Attacks and Malicious Software E mail and Instant Messaging Web Components Secure Software Development Disaster Recovery Business Continuity and Organizational Policies Risk Management Change Management Privilege Management Computer Forensics Legal Issues and Ethics Privacy

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**Principles of Computer Security, Fourth Edition** Wm. Arthur Conklin, Greg White, Chuck Cothren, Roger L. Davis, Dwayne Williams, 2016-01-01 Written by leading information security educators this fully revised full color computer security textbook covers CompTIA's fastest growing credential CompTIA Security Principles of Computer Security Fourth Edition is a student tested introductory computer security textbook that provides comprehensive coverage of computer and network security fundamentals in an engaging and dynamic full color design In addition to teaching key computer security concepts the textbook also fully prepares you for CompTIA Security exam SY0 401 with 100% coverage of all exam objectives Each chapter begins with a list of topics to be covered and features sidebar exam and tech tips a chapter summary and an end of chapter assessment section that includes key term multiple choice and essay quizzes as well as lab projects Electronic content includes CompTIA Security practice exam questions and a PDF copy of the book Key features CompTIA Approved Quality Content CAQC Electronic content features two simulated practice exams in the Total Tester exam engine and a PDF eBook Supplemented by Principles of Computer Security Lab Manual Fourth Edition available separately White and Conklin are two of the most well respected computer security educators in higher education Instructor resource materials for adopting instructors include Instructor Manual PowerPoint slides featuring artwork from the book and a test bank of questions for use as quizzes or exams Answers to the end of chapter sections are not included in the book and are only available to adopting instructors Learn how to Ensure operational organizational and physical security Use cryptography and public key infrastructures PKIs Secure remote access wireless networks and virtual private networks VPNs Authenticate users and lock down mobile devices Harden network devices operating systems and applications Prevent network attacks such as denial of service spoofing hijacking and password guessing Combat viruses worms Trojan horses and rootkits Manage e mail instant messaging and web security Explore secure software development requirements Implement disaster recovery and business continuity measures Handle computer forensics and incident response Understand legal ethical and privacy issues

*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.chappell.university.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 skills.

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.

*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

**LEARN WIRESHARK** Diego Rodrigues,2025-05-04

**LEARN WIRESHARK** Master Packet Capture and Advanced Analysis From Fundamentals to Practical Applications This book is ideal for network professionals information security specialists and students who want to master Wireshark with a practical focus in modern environments including IoT and artificial intelligence applications You will learn how to capture filter and interpret network traffic identify vulnerabilities optimize performance and integrate analyses with tools like Snort Zeek Suricata and the ELK Stack Explore concepts such as TCP IP protocols TLS packet analysis advanced filters and automation Includes Capture and analyze traffic in corporate and IoT networks Diagnose failures slowdowns and anomalies in real time Integration with Snort Suricata Zeek and ELK for SIEM Create custom filters and monitoring dashboards Apply Wireshark in environments with artificial intelligence By the end you will master Wireshark as a strategic tool for security monitoring and optimization of complex networks wireshark snort zeek suricata elk stack packet analysis iot artificial intelligence network security advanced monitoring

*Learn Wireshark* Lisa Bock,2019 Grasp the basics of packet capture and analyze common protocols Key Features Troubleshoot basic to advanced network problems using packet analysis Analyze common protocols and identify latency issues with Wireshark Explore ways to examine captures to recognize unusual traffic and possible network attacks Book Description Wireshark is a popular and powerful packet analysis tool that helps network administrators investigate latency issues and identify potential attacks Learn Wireshark provides a solid overview of basic protocol analysis and helps you to navigate the Wireshark interface so you can confidently examine common protocols such as TCP IP and ICMP The book starts by outlining the benefits of traffic analysis takes you through the

evolution of Wireshark and then covers the phases of packet analysis We ll review some of the command line tools and outline how to download and install Wireshark on either a PC or MAC You ll gain a better understanding of what happens when you tap into the data stream and learn how to personalize the Wireshark interface This Wireshark book compares the display and capture filters and summarizes the OSI model and data encapsulation You ll gain insights into the protocols that move data in the TCP IP suite and dissect the TCP handshake and teardown process As you advance you ll explore ways to troubleshoot network latency issues and discover how to save and export files Finally you ll see how you can share captures with your colleagues using Cloudshark By the end of this book you ll have a solid understanding of how to monitor and secure your network with the most updated version of Wireshark What you will learn Become familiar with the Wireshark interface Navigate commonly accessed menu options such as edit view and file Use display and capture filters to examine traffic Understand the Open Systems Interconnection OSI model Carry out deep packet analysis of the Internet suite IP TCP UDP ARP and ICMP Explore ways to troubleshoot network latency issues Subset traffic insert comments save export and share packet captures Who this book is for This book is for network administrators security analysts students teachers and anyone interested in learning about packet analysis using Wireshark Basic knowledge of network fundamentals devices and protocols along with an understanding of different topologies will be beneficial

## **Lab 5 Packet Capture Traffic Analysis With Wireshark** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Lab 5 Packet Capture Traffic Analysis With Wireshark**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Lab 5 Packet Capture Traffic Analysis With Wireshark Introduction**

In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project Gutenberg. This online library offers over 60,000 free eBooks that are in the public domain. From classic literature to historical documents, Project Gutenberg provides a wide range of PDF files that can be downloaded and enjoyed on various devices. The website is user-friendly and allows users to search for specific titles or browse through different categories. Another reliable platform for downloading Lab 5 Packet Capture Traffic Analysis With Wireshark free PDF files is Open Library. With its vast collection of over 1 million eBooks, Open Library has something for every reader. The website offers a seamless experience by providing options to borrow or download PDF files. Users simply need to create a free account to access this treasure trove of knowledge. Open Library also allows users to contribute by uploading and sharing their own PDF files, making it a collaborative platform for book enthusiasts. For those interested in academic resources, there are websites dedicated to providing free PDFs of research papers and scientific articles. One such website is Academia.edu, which allows researchers and scholars to share their work with a global audience. Users can download PDF files of research papers, theses, and dissertations covering a wide range of subjects. Academia.edu also provides a platform for discussions and networking within the academic community. When it comes to downloading Lab 5 Packet Capture Traffic Analysis With Wireshark free PDF files of magazines, brochures, and catalogs, Issuu is a popular choice. This digital publishing platform hosts a vast collection of publications from around the world. Users can search for specific titles or explore various categories and genres. Issuu offers a seamless reading experience with its user-friendly interface and allows users to download PDF files for offline reading. Apart from dedicated platforms, search engines also play a crucial role in finding free PDF files. Google, for instance, has an advanced search feature that allows users to filter results by file type. By specifying

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