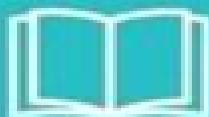


Nagendra Kumar Nainar, Yogesh Ramdoss,
Yoram Orzach

Network Analysis Using Wireshark 2 Cookbook

Second Edition

Practical recipes to analyze and secure your network
using Wireshark 2



Packt

Network Analysis Using Wireshark Cookbook

Edwin Collins

Network Analysis Using Wireshark Cookbook:

Network Analysis using Wireshark Cookbook Yoram Orzach,2013-12-24 Network analysis using Wireshark Cookbook contains more than 100 practical recipes for analyzing your network and troubleshooting problems in the network This book provides you with simple and practical recipes on how to solve networking problems with a step by step approach This book is aimed at research and development professionals engineering and technical support and IT and communications managers who are using Wireshark for network analysis and troubleshooting This book requires a basic understanding of networking concepts but does not require specific and detailed technical knowledge of protocols or vendor implementations

Network Analysis Using Wireshark 2 Cookbook - Second Edition Nagendra Nainar,Yogesh Ramdoss,Yoram Orzach,2018 Over 100 recipes to analyze and troubleshoot network problems using Wireshark 2 About This Book Place Wireshark 2 in your network and configure it for effective network analysis Deep dive into the enhanced functionalities of Wireshark 2 and protect your network with ease A practical guide with exciting recipes on a widely used network protocol analyzer Who This Book Is For This book is for security professionals network administrators R D engineering and technical support and communications managers who are using Wireshark for network analysis and troubleshooting It requires a basic understanding of networking concepts but does not require specific and detailed technical knowledge of protocols or vendor implementations What You Will Learn Configure Wireshark 2 for effective network analysis and troubleshooting Set up various display and capture filters Understand networking layers including IPv4 and IPv6 analysis Explore performance issues in TCP IP Get to know about Wi Fi testing and how to resolve problems related to wireless LANs Get information about network phenomena events and errors Locate faults in detecting security failures and breaches in networks In Detail This book contains practical recipes on troubleshooting a data communications network This second version of the book focuses on Wireshark 2 which has already gained a lot of traction due to the enhanced features that it offers to users The book expands on some of the subjects explored in the first version including TCP performance network security Wireless LAN and how to use Wireshark for cloud and virtual system monitoring You will learn how to analyze end to end IPv4 and IPv6 connectivity failures for Unicast and Multicast traffic using Wireshark It also includes Wireshark capture files so that you can practice what you ve learned in the book You will understand the normal operation of E mail protocols and learn how to use Wireshark for basic analysis and troubleshooting Using Wireshark you will be able to resolve and troubleshoot common applications that are used in an enterprise network like NetBIOS and SMB protocols Finally you will also be able to measure network parameters check for network problems caused by them and solve them effectively By the end of this book you ll know how to analyze traffic find patterns of various offending traffic and secure your network from them Style and approach This book consists of practical recipes on Wires **Network Analysis Using Wireshark 2 Cookbook** Nagendra Kumar,Yogesh Ramdoss,Yoram Orzach,2018-03-30 Over 100 recipes to analyze and troubleshoot network problems using

Wireshark 2 Key Features Place Wireshark 2 in your network and configure it for effective network analysis Deep dive into the enhanced functionalities of Wireshark 2 and protect your network with ease A practical guide with exciting recipes on a widely used network protocol analyzer Book Description This book contains practical recipes on troubleshooting a data communications network This second version of the book focuses on Wireshark 2 which has already gained a lot of traction due to the enhanced features that it offers to users The book expands on some of the subjects explored in the first version including TCP performance network security Wireless LAN and how to use Wireshark for cloud and virtual system monitoring You will learn how to analyze end to end IPv4 and IPv6 connectivity failures for Unicast and Multicast traffic using Wireshark It also includes Wireshark capture files so that you can practice what you ve learned in the book You will understand the normal operation of E mail protocols and learn how to use Wireshark for basic analysis and troubleshooting Using Wireshark you will be able to resolve and troubleshoot common applications that are used in an enterprise network like NetBIOS and SMB protocols Finally you will also be able to measure network parameters check for network problems caused by them and solve them effectively By the end of this book you ll know how to analyze traffic find patterns of various offending traffic and secure your network from them What you will learn Configure Wireshark 2 for effective network analysis and troubleshooting Set up various display and capture filters Understand networking layers including IPv4 and IPv6 analysis Explore performance issues in TCP IP Get to know about Wi Fi testing and how to resolve problems related to wireless LANs Get information about network phenomena events and errors Locate faults in detecting security failures and breaches in networks Who this book is for This book is for security professionals network administrators R D engineering and technical support and communications managers who are using Wireshark for network analysis and troubleshooting It requires a basic understanding of networking concepts but does not require specific and detailed technical knowledge of protocols or vendor implementations

[Wireshark Cookbook](#) Rob Botwright,101-01-01 Unlock the Power of Packet Analysis with the Wireshark Cookbook Series Are you ready to transform from a network novice into a Wireshark wizard The Wireshark Cookbook Packet Analysis Bible is your ultimate four book toolkit covering every stage of your CLI journey from basic captures to enterprise scale automation Whether you re troubleshooting latency hunting cyber threats or automating complex pipelines these volumes have you covered Book 1 Command Line Essentials for Packet Analysis Beginners Perfect for newcomers Learn how to install Wireshark s CLI tools list interfaces and perform your first captures Master basic capture and display filters tshark i eth0 c 100 w sample pcap tshark r sample pcap Y http request T fields e http request method What You ll Get Step by step commands for DNS HTTP and ARP troubleshooting Extracting IPs ports and protocols Hands on tasks to build confidence at the shell prompt Book 2 Intermediate CLI Techniques and Custom Filters Level up your filtering Delve into advanced BPF expressions and protocol specific fields tshark i eth0 f tcp port 443 and host example com w secure pcap tshark r secure pcap Y tls handshake type 1 T fields e tls handshake extensions_server_name What You ll Get Crafting logical and regex filters for

TLS VoIP DNS over HTTPS Automating packet summaries in shell pipelines Real world examples to isolate performance or security issues Book 3 Advanced Command Line Scripting and Automation Build powerful pipelines Automate TShark with Bash and Python tshark r capture pcap T json python3 ingest_to_elasticsearch py What You ll Get Scheduling hourly captures with cron jobs Parsing JSON CSV output into Elasticsearch or databases Custom Lua dissectors for proprietary protocols Integrating TShark with Zeek Slack alerts and more Book 4 Expert Level CLI Mastery and Performance Tuning Optimize for scale Tackle multi gigabit captures with PF_RING DPDK and NIC tuning dumpcap i eth0 capture buffer size 2097152 w data pcaps eth0 %Y%m%d pcapng What You ll Get Kernel parameter tweaks net core rmem_max netdev_max_backlog CPU affinity interrupt coalescing and NUMA considerations Multi threaded workflows Spark Elasticsearch integration Storage strategies for terabyte scale archives and Parquet indexing Why You Need the Wireshark Cookbook Series Hands On Recipes Each chapter is a ready to use task no filler Progressive Learning Start with the basics Book 1 and advance to expert techniques Book 4 Cross Platform Linux Windows macOS everything works the same Real World Scenarios Tackle actual troubleshooting automation and scaling challenges Expert Tips Tricks From packet drops to performance profiling with perf Grab Your Copy Today Available in print and eBook formats get the complete four book set for a special bundle price Bonus Free downloadable scripts and sample PCAPs when you order now Don t let packet analysis intimidate you master it automate it and scale it with the Wireshark Cookbook Packet Analysis Bible series Order now and join thousands of network professionals who trust the Wireshark Cookbook to solve real world network challenges Happy capturing [Wireshark Network Security](#) Piyush Verma,2015-07-29 Wireshark is the world s foremost network protocol analyzer for network analysis and troubleshooting This book will walk you through exploring and harnessing the vast potential of Wireshark the world s foremost network protocol analyzer The book begins by introducing you to the foundations of Wireshark and showing you how to browse the numerous features it provides You ll be walked through using these features to detect and analyze the different types of attacks that can occur on a network As you progress through the chapters of this book you ll learn to perform sniffing on a network analyze clear text traffic on the wire recognize botnet threats and analyze Layer 2 and Layer 3 attacks along with other common hacks By the end of this book you will be able to fully utilize the features of Wireshark that will help you securely administer your network [Troubleshooting Citrix XenDesktop®](#) Gurpinder Singh,2015-10-27 The ultimate troubleshooting guide for clear concise and real world solutions to a wide range of common Citrix XenDesktop problems About This Book Explore the XenDesktop architecture and work with various troubleshooting tools that every Citrix admin should know about Discover how to troubleshoot performance VDA registration and NetScaler integration issues A fast paced troubleshooting guide to help you identify and resolve any kind of problem you might face while working with Citrix XenDesktop Who This Book Is For Troubleshooting Citrix XenDesktop is targeted at Citrix Administrators or Citrix Engineers who are working on XenDesktop and want to learn tips and techniques required to deal with the issues they face in

their day to day life A working knowledge of core elements and concepts of XenDesktop would be an added advantage What You Will Learn Solve VDA registration problems and Citrix session launch difficulties Identify and resolve XenDesktop service issues Troubleshoot performance issues related to the XenDesktop architecture Work around common printing issues Understand the Citrix XenDesktop HDX policies and deal with the HDX MediaStream challenges Resolve the common MCS and PVS configuration issues in your XenDesktop environment Find solutions to some general issues that have been identified and recorded by Citrix in their database that every administrator must be aware of In Detail In today s world many organizations have decided to move to secure and stable VDI platforms to benefit their organization to meet their security needs To meet an organization s requirements Citrix XenDesktop serves as the best desktop virtualization solution available providing the optimum user experience Troubleshooting Citrix XenDesktop is a single resource guide that will help you dig deep into all the technical issues you encounter to resolve them using an autonomous and well defined approach The book starts by walking you through the XenDesktop architecture and the troubleshooting toolkit for Citrix XenDesktop The subsequent chapters will help you identify possible causes of various types of Citrix XenDesktop problems that may arise while installing configuring or troubleshooting day to day problems You will also be dealing with the most common and important VDA registration problems that you might often face while working with the XenDesktop product suite Additionally you will resolve issues that arise while launching Citrix sessions troubleshoot performance issues and learn how to integrate Citrix NetScaler with your XenDesktop environment Style and approach This book is an easy to follow troubleshooting guide with real world examples of resolving XenDesktop issues Each chapter is focused on a specific troubleshooting area giving you the time to learn about and apply relevant tools and practices to troubleshoot the problems using a systematic approach

Wireshark Revealed: Essential Skills for IT Professionals James H Baxter, Yoram Orzach, Charit Mishra, 2017-12-15 Master Wireshark and discover how to analyze network packets and protocols effectively along with engaging recipes to troubleshoot network problems About This Book Gain valuable insights into the network and application protocols and the key fields in each protocol Use Wireshark s powerful statistical tools to analyze your network and leverage its expert system to pinpoint network problems Master Wireshark and train it as your network sniffer Who This Book Is For This book is aimed at IT professionals who want to develop or enhance their packet analysis skills A basic familiarity with common network and application services terms and technologies is assumed What You Will Learn Discover how packet analysts view networks and the role of protocols at the packet level Capture and isolate all the right packets to perform a thorough analysis using Wireshark s extensive capture and display filtering capabilities Decrypt encrypted wireless traffic Use Wireshark as a diagnostic tool and also for network security analysis to keep track of malware Find and resolve problems due to bandwidth throughput and packet loss Identify and locate faults in communication applications including HTTP FTP mail and various other applications Microsoft OS problems databases voice and video over IP Identify and locate faults in detecting security

failures and security breaches in the network In Detail This Learning Path starts off installing Wireshark before gradually taking you through your first packet capture identifying and filtering out just the packets of interest and saving them to a new file for later analysis You will then discover different ways to create and use capture and display filters By halfway through the book you'll be mastering Wireshark features analyzing different layers of the network protocol and looking for any anomalies We then start Ethernet and LAN switching through IP and then move on to TCP UDP with a focus on TCP performance problems It also focuses on WLAN security Then we go through application behavior issues including HTTP mail DNS and other common protocols This book finishes with a look at network forensics and how to locate security problems that might harm the network This course provides you with highly practical content explaining Metasploit from the following books Wireshark Essentials Network Analysis Using Wireshark Cookbook Mastering Wireshark Style and approach This step by step guide follows a practical approach starting from the basic to the advanced aspects Through a series of real world examples this learning path will focus on making it easy for you to become an expert at using Wireshark [Learning Path](#) ,2017 Wireshark is a open source software that works as a packet analyzer It basically lets you control capture and dynamically browse the traffic running on the organization's network The user friendly feature of Wireshark makes it one of the most popular tools for network analysis This Learning Path will brush through the basic networking concepts and then introduce you to the user interface of Wireshark Later it moves on to the different ways to create and use the capture and display filters in Wireshark Also you'll be mastering its features analyzing different layers of the network protocol and looking for any anomalies By the end of this Learning Path you will be able to use Wireshark for network security analysis and configure it for troubleshooting purposes Resource description page [Wireshark for Packet Analysis and Ethical Hacking](#) David Bombal,2019 Basic to advanced network analysis using Wireshark Ethical Hacking via Kali Linux passwords security and protocols About This Video Explore how to troubleshoot networks and Capture VoIP OSPF HTTP Telnet and many other protocols using Wireshark Analyze and interpret network protocols and use Wireshark for deep packet inspection and network analysis Use Wireshark for Ethical hacking and hack network protocols using Kali Linux In Detail Learn Wireshark practically Wireshark pcapng files are provided so you can practice while you learn There is so much to learn in this course Capture Telnet FTP TFTP HTTP passwords Replay VoIP conversations Capture routing protocol OSPF authentication passwords Troubleshoot network issues The course is very practical you'll practice while you learn how to analyze and interpret network protocols and use Wireshark for the purpose it was originally intended for deep packet inspection and network analysis We also show you how to hack network protocols such as DTP VTP STP and DHCP using the ethical hacking tools included in Kali Linux [Wireshark Recipes](#) Sunil Gupta,2018 Wireshark is the world's foremost and most widely used network protocol analyzer It lets you see what's happening on your network at a microscopic level and is the de facto standard across many commercial and non profit enterprises government agencies and educational institutions

In this hands on course you will receive in depth training on Wireshark and TCP IP communications analysis You will learn to use Wireshark to identify the most common causes of performance problems in TCP IP communications You will develop a thorough understanding of how to use Wireshark efficiently to spot the primary sources of network performance problems and you will prepare for the latest Wireshark certification exam Resource description page [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 [Essential Skills for Network Analysis](#) Edwin

Collins,2018-02-14 This book includes 46 step by step Labs to quickly bring you up to speed with Wireshark version 2 regardless of whether you are a newbie or already working with Wireshark today Wireshark is the world s most popular network analyzer tool with over 1 million downloads per month As the Founder of Wireshark University Edwin Collins is undoubtedly one of the best Wireshark instructors around In this updated book Edwin Collins offers step by step instructions on the key functions and features of Wireshark [**Wireshark for Security Professionals**](#) Jessey Bullock,Jeff T.

Parker,2017-03-20 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.

Wireshark for Network Forensics

Forensics Nagendra Kumar Nainar, Ashish Panda, 2023-01-11

With the advent of emerging and complex technologies, traffic capture and analysis play an integral part in the overall IT operation. This book outlines the rich set of advanced features and capabilities of the Wireshark tool, considered by many to be the de facto Swiss army knife for IT operational activities involving traffic analysis. This open source tool is available as CLI or GUI. It is designed to capture using different modes and to leverage the community developed and integrated features such as filter based analysis or traffic flow graph view. You'll start by reviewing the basics of Wireshark and then examine the details of capturing and analyzing secured application traffic such as SecureDNS, HTTPS, and IPSec. You'll then look closely at the control plane and data plane capture and study the analysis of wireless technology traffic such as 802.11, which is the common access technology currently used along with Bluetooth. You'll also learn ways to identify network attacks, malware, covert communications, perform security incident post-mortems, and ways to prevent the same. The book further explains the capture and analysis of secure multimedia traffic, which constitutes around 70% of all overall internet traffic. **Wireshark for Network Forensics** provides a unique look at cloud and cloud native architecture based traffic capture in Kubernetes, Docker, based AWS and GCP environments. What You'll Learn:

- Review Wireshark analysis and network forensics
- Study traffic capture and its analytics from mobile devices
- Analyze various access technology and cloud traffic
- Write your own dissector for any new or proprietary packet formats
- Capture secured application traffic for analysis

Who This Book Is For: IT Professionals, Cloud Architects, Infrastructure Administrators, and Network Cloud Operators.

Ethical Hacking and Network Analysis with Wireshark

Manish Sharma, 2024-01-15

Wireshark: A hacker's guide to network insights

KEY FEATURES:

- Issue resolution to identify and solve protocol, network, and security issues
- Analysis of network traffic offline through exercises and packet captures
- Expertise in vulnerabilities to gain upper hand on safeguard systems

DESCRIPTION: Cloud data architectures are a valuable tool for organizations that want to use data to make better decisions. By Ethical Hacking and Network Analysis with Wireshark, you will be provided with the tools and expertise to demystify the invisible conversations coursing through your cables. This definitive guide meticulously allows you

to leverage the industry leading Wireshark to gain an unparalleled perspective on your digital landscape. This book teaches foundational protocols like TCP IP, SSL, TLS, and SNMP, explaining how data silently traverses the digital frontier. With each chapter, Wireshark transforms from a formidable tool into an intuitive extension of your analytical skills. Discover lurking vulnerabilities before they morph into full-blown cyberattacks. Dissect network threats like a forensic scientist and wield Wireshark to trace the digital pulse of your network, identifying and resolving performance bottlenecks with precision. Restructure your network for optimal efficiency, banish sluggish connections and lag to the digital scrapheap. **WHAT YOU WILL LEARN:** Navigate and utilize Wireshark for effective network analysis. Identify and address potential network security threats. Hands-on data analysis. Gain practical skills through real-world exercises. Improve network efficiency based on insightful analysis and optimize network performance. Troubleshoot and resolve protocol and connectivity problems with confidence. Develop expertise in safeguarding systems against potential vulnerabilities. **WHO THIS BOOK IS FOR:** Whether you are a network system administrator, network security engineer, security defender, QA engineer, ethical hacker, or cybersecurity aspirant, this book helps you to see the invisible and understand the digital chatter that surrounds you.

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Analyzing Network Traffic with Wireshark 2.6 Mohammad Junaid, 2018. This video tutorial will give you real-world knowledge about all Wireshark topics, followed by a step-by-step implementation guideline while showing you how to work on it practically. This course begins by installing Wireshark and familiarizing you with the GUI interface, then guides you through some important concepts to set up your own home office lab, which will enable you to efficiently analyze data and solve problems. Throughout the course, we primarily focus on enhancing your network analysis and web traffic capture skills to build a strong, secure foundation. By the end of the course, you will not only be comfortable working with Wireshark but also confident enough to implement it in your day-to-day work life.

Resource description page **Wireshark® Workbook 1** Laura A. Chappell, 2020

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

Mastering Wireshark 2 Andrew Crouthamel, 2017 Wireshark is a popular and powerful tool used to analyze the amount of bits and bytes that are flowing through a network Wireshark deals with the second to seventh layer of network protocols and the analysis made is presented in a human readable form Through this video you will gain expertise in securing your network using Wireshark 2 At the start of the video you will be taught how to install Wireshark and will be introduced to its interface so you understand all its functionalities Moving forward you will discover different ways to create and use capture and display filters Halfway through the video you ll be mastering the features of Wireshark analyzing different layers of the network protocol and looking for any anomalies You will also learn about plugins and APIs As you reach to the end of the course you will be taught how to use Wireshark for network security analysis and configure it for troubleshooting purposes Resource description page *Wireshark Network Analysis* Laura Chappell, 2010

Eventually, you will completely discover a new experience and achievement by spending more cash. nevertheless when? realize you undertake that you require to acquire those all needs next having significantly cash? Why dont you attempt to acquire something basic in the beginning? Thats something that will lead you to comprehend even more something like the globe, experience, some places, subsequent to history, amusement, and a lot more?

It is your unquestionably own become old to discharge duty reviewing habit. accompanied by guides you could enjoy now is **Network Analysis Using Wireshark Cookbook** below.

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Network Analysis Using Wireshark Cookbook Introduction

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