

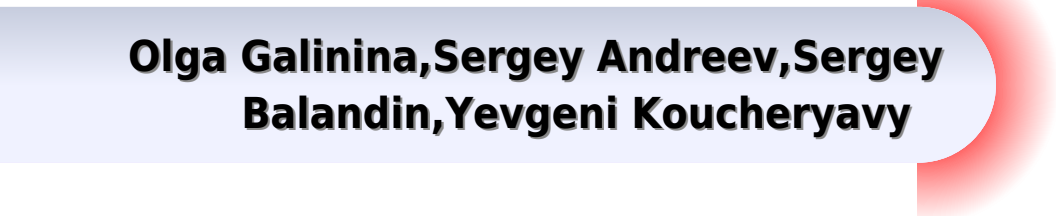
Wireshark Developer's Guide

Version 4.5.0

Ulf Lamping, Graham Bloice

Wireshark Developer Guide

**Olga Galinina, Sergey Andreev, Sergey
Balandin, Yevgeni Koucheryavy**



Wireshark Developer Guide:

Mastering Wireshark 2 Andrew Crouthamel, 2018-05-31 Use Wireshark 2 to overcome real world network problems
Key Features Delve into the core functionalities of the latest version of Wireshark Master network security skills with Wireshark 2 Efficiently find the root cause of network related issues Book Description Wireshark a combination of a Linux distro Kali and an open source security framework Metasploit is a popular and powerful tool Wireshark is mainly used to analyze the bits and bytes that flow through a network It efficiently deals with the second to the seventh layer of network protocols and the analysis made is presented in a form that can be easily read by people Mastering Wireshark 2 helps you gain expertise in securing your network We start with installing and setting up Wireshark 2.0 and then explore its interface in order to understand all of its functionalities As you progress through the chapters you will discover different ways to create use capture and display filters By halfway through the book you will have mastered Wireshark features analyzed different layers of the network protocol and searched for anomalies You ll learn about plugins and APIs in depth Finally the book focuses on packet analysis for security tasks command line utilities and tools that manage trace files By the end of the book you ll have learned how to use Wireshark for network security analysis and configured it for troubleshooting purposes What you will learn Understand what network and protocol analysis is and how it can help you Use Wireshark to capture packets in your network Filter captured traffic to only show what you need Explore useful statistic displays to make it easier to diagnose issues Customize Wireshark to your own specifications Analyze common network and network application protocols Who this book is for If you are a security professional or a network enthusiast and are interested in understanding the internal working of networks and if you have some prior knowledge of using Wireshark then this book is for you [USB Complete: The Developer's Guide, Fifth Edition](#) Jan Axelson, 2015-03-01 Developers who design and program USB devices have a new resource in the fifth edition of USB Complete The Developer's Guide This edition adds an introduction to USB 3.1 and SuperSpeedPlus bus which offers a 2x increase in bus speed over USB 3.0's SuperSpeed For designs that don't require USB 3.1's capabilities the book also covers USB 2.0 technology and applications USB Complete Fifth Edition bridges the gap between the technical specifications and the real world of design and programming Author Jan Axelson distills the fundamentals of the protocols and guides developers in choosing device hardware deciding whether to target a USB class driver or another host driver and writing device firmware and host applications Example code in Visual C shows how to detect and access USB devices and how to program and communicate with vendor defined devices that use the human interface device HID class driver and Microsoft's WinUSB driver Also covered are how to use bus power including new advanced power delivery capabilities wireless communications for USB devices and developing embedded hosts including dual role USB On The Go devices Programmers and hardware designers can rely on USB Complete's Fifth Edition to help get projects up and running quickly Students and hobbyists will learn how to use the interface built into every PC Instructors will

find inspiration and guidance for class projects *Wireshark & Ethereal Network Protocol Analyzer Toolkit* Jay Beale,Angela Orebaugh,Gilbert Ramirez,2006-12-18 Ethereal is the 2 most popular open source security tool used by system administrators and security professionals This all new book builds on the success of Syngress best selling book Ethereal Packet Sniffing Wireshark Ethereal Network Protocol Analyzer Toolkit provides complete information and step by step Instructions for analyzing protocols and network traffic on Windows Unix or Mac OS X networks First readers will learn about the types of sniffers available today and see the benefits of using Ethereal Readers will then learn to install Ethereal in multiple environments including Windows Unix and Mac OS X as well as building Ethereal from source and will also be guided through Ethereal s graphical user interface The following sections will teach readers to use command line options of Ethereal as well as using Tethereal to capture live packets from the wire or to read saved capture files This section also details how to import and export files between Ethereal and WinDump Snort Snoop Microsoft Network Monitor and EtherPeek The book then teaches the reader to master advanced tasks such as creating sub trees displaying bitfields in a graphical view tracking requests and reply packet pairs as well as exclusive coverage of MATE Ethereal s brand new configurable upper level analysis engine The final section to the book teaches readers to enable Ethereal to read new Data sources program their own protocol dissectors and to create and customize Ethereal reports Ethereal is the 2 most popular open source security tool according to a recent study conducted by insecure org Syngress first Ethereal book has consistently been one of the best selling security books for the past 2 years **Learn Wireshark** Lisa Bock,2022-08-05 Expertly analyze common protocols such as TCP IP and ICMP along with learning how to use display and capture filters save and export captures create IO and stream graphs and troubleshoot latency issues Key Features Gain a deeper understanding of common protocols so you can easily troubleshoot network issues Explore ways to examine captures to recognize unusual traffic and possible network attacks Learn advanced techniques create display and capture filters and generate IO and stream graphs Book Description Wireshark is a popular and powerful packet analysis tool that helps network administrators investigate latency issues and potential attacks Over the years there have been many enhancements to Wireshark s functionality This book will guide you through essential features so you can capture display and filter data with ease In addition to this you ll gain valuable tips on lesser known configuration options which will allow you to complete your analysis in an environment customized to suit your needs This updated second edition of Learn Wireshark starts by outlining the benefits of traffic analysis You ll discover the process of installing Wireshark and become more familiar with the interface Next you ll focus on the Internet Suite and then explore deep packet analysis of common protocols such as DNS DHCP HTTP and ARP The book also guides you through working with the expert system to detect network latency issues create I O and stream graphs subset traffic and save and export captures Finally you ll understand how to share captures using CloudShark a browser based solution for analyzing packet captures By the end of this Wireshark book you ll have the skills and hands on experience

you need to conduct deep packet analysis of common protocols and network troubleshooting as well as identify security issues What you will learn Master network analysis and troubleshoot anomalies with Wireshark Discover the importance of baselining network traffic Correlate the OSI model with frame formation in Wireshark Narrow in on specific traffic by using display and capture filters Conduct deep packet analysis of common protocols IP TCP and ARP Understand the role and purpose of ICMP DNS HTTP and DHCP Create a custom configuration profile and personalize the interface Create I O and stream graphs to better visualize traffic Who this book is for If you are a network administrator security analyst student or teacher and want to learn about effective packet analysis using Wireshark then this book is for you In order to get the most from this book you should have basic knowledge of network fundamentals devices and protocols along with an understanding of different topologies

OpenJS Node.js Application Developer (JSNAD) Certification Guide Liora Venith,2024-10-15

Get certified in Node js application development and take your career to the next level The JSNAD certification is your ticket to proving your deep understanding and proficiency in Node js application development This fantastic book is perfect for anyone aiming to ace the JSNAD exam The book is packed with essential Node js concepts including asynchronous programming middleware integration and advanced routing techniques You ll learn about testing strategies deployment methodologies and performance optimization This book includes quick reference guides and a glossary of advanced terms making it easy to revisit key concepts and really cement your understanding You ll also find lots of practical exercises and knowledge checks throughout the book which are great for checking your understanding and spotting areas you can improve on You ll find detailed explanations of complex topics that demystify intricate Node js functionalities making them accessible and comprehensible And there s more The book also offers access to sample projects and code repositories providing hands on experience that mirrors the scenarios encountered in the certification exam These projects are the perfect chance for learners to put their new skills into practice building amazing robust Node js applications that can scale to any challenge

Key Learnings Master Node js architecture and the event driven non blocking I O model Master asynchronous programming using callbacks promises and async await Implement a robust middleware solution for efficient request handling in Express js Write unit tests using Mocha and Chai to ensure your code is reliable Use Jest to test the full range of Node js applications Set up secure environment variables for different stages of deployment Profile and manage your applications memory to improve performance Deploy your Node js applications using PM2 and configure Nginx as a reverse proxy Create CI CD pipelines with GitHub Actions for automated testing and deployment

Table of Content Advanced Node js Concepts Module Systems and Package Management Process Management and System Interaction Network Programming and Security File Systems and Data Streams Advanced APIs and Utility Modules Performance Optimization and Testing

Platform-Independent Development of Robot Communication Software Philipp A. Baer,2008 *Internet of Things, Smart Spaces, and Next Generation Networks and Systems* Olga Galinina,Sergey Andreev,Sergey Balandin,Yevgeni

Koucheryavy,2017-10-03 This book constitutes the joint refereed proceedings of the 17th International Conference on Next Generation Wired Wireless Advanced Networks and Systems NEW2AN 2017 the 10th Conference on Internet of Things and Smart Spaces ruSMART 2017 The 71 revised full papers presented were carefully reviewed and selected from 202 submissions The papers of NEW2AN focus on advanced wireless networking and applications lower layer communication enablers novel and innovative approaches to performance and efficiency analysis of ad hoc and machine type systems employed game theoretical formulations Markov chain models and advanced queuing theory grapheme and other emerging material photonics and optics generation and processing of signals and business aspects The ruSMART papers deal with fully customized applications and services The NsCC Workshop papers capture the current state of the art in the field of molecular and nanoscale communications such as information communication and network theoretical analysis of molecular and nanonetwork mobility in molecular and nanonetworks novel and practical communication protocols routing schemes and architectures design engineering evaluation of molecular and nonoscale communication systems potential applications and interconnections to the Internet e g the Internet of Nano Things *Api Microservices Developer - 400+ Interview Questions & Answers | Perfect Guide for Success* CloudRoar Consulting Services,101-01-01 Are you aiming to progress into a leadership role in IT service management particularly aligned with strategy transformation and governance 350 Interview Questions Answers for ITIL 4 Strategic Leader PeopleCert AXELOS ITIL 4 Strategic Leader Certification Referenced by CloudRoar Consulting Services is your definitive guide This book is tailored to help you build confidence and depth in the skills that organisations expect from strategic IT leadership without being a pure exam cram guide ITIL 4 Strategic Leader SL a designation by PeopleCert AXELOS recognizes professionals who lead in digitally enabled services and demonstrates how IT directs shapes and supports business strategy peoplecert org 2axelos com 2 While this book does not replace official training or exams its Q A sets reflect knowledge areas from the SL stream especially the two modules Strategist Direct Plan Improve DPI and Leader Digital IT Strategy DITS peoplecert org 1 Inside you ll find 350 expertly crafted questions with model answers covering Digital IT Strategy Alignment How to translate business goals into IT strategy defining digital visions handling disruption innovation and emerging technologies Direct Plan Improve Practices Continual improvement governance risk management decision making structures strategic planning metrics performance measurement Governance Risk Compliance Establishing governance frameworks balancing risk and opportunity regulatory legal compliance audit trails Value Streams Service Value System SVS Understanding the four dimensions of service management value streams service value chain integration of practices to deliver value Leadership Change Culture Leading organisational change influencing culture stakeholder engagement communication coaching future leaders Strategic Decision Making Metrics Key performance indicators balanced scorecards risk quantification prioritizing initiatives investment decision trade offs Driving Transformation Innovation Leveraging technology trends digital disruption cloud AI automation in strategy scalability agility

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The Wireshark Handbook Robert Johnson,2025-01-16 The Wireshark Handbook Practical Guide for Packet Capture and Analysis is an expertly crafted resource that bridges the gap between theoretical knowledge and practical application in network analysis Designed to serve both beginners and seasoned professionals this book delves into the intricacies of packet capture and analysis using Wireshark the world s most renowned open source network protocol analyzer Each chapter is methodically structured to address critical competencies from foundational concepts of network communication models to advanced techniques in capturing and analyzing data packets Readers are guided through the nuances of Wireshark setups navigating its interface and optimizing its rich array of features for performance and troubleshooting The book explores essential topics such as protocol understanding network troubleshooting and security analysis providing a robust skill set for real world applications By incorporating practical case studies and innovative uses of Wireshark this guide transforms complex network data into actionable insights Whether for network monitoring security enforcement or educational purposes The Wireshark Handbook is an indispensable tool for mastering packet analysis fostering a deeper comprehension of network dynamics and empowering users with the confidence to tackle diverse IT challenges

Innovations and Advances in Computer, Information, Systems Sciences, and Engineering Khaled Elleithy,Tarek Sobh,2012-08-28 Innovations and Advances in Computer Information Systems Sciences and Engineering includes the proceedings of the International Joint Conferences on Computer Information and Systems Sciences and Engineering CISSE 2011 The contents of this book are a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Industrial Electronics Technology and Automation Telecommunications and Networking Systems Computing Sciences and Software Engineering Engineering Education Instructional Technology Assessment and E learning

App Extension Developer - 400+ Interview Questions & Answers | Perfect Guide for Success CloudRoar Consulting Services,101-01-01 Are you aiming to progress into a leadership role in IT service management particularly aligned with strategy transformation and governance 350 Interview Questions Answers for ITIL 4 Strategic Leader PeopleCert AXELOS ITIL 4 Strategic Leader Certification Referenced by CloudRoar Consulting Services is your definitive guide This book is tailored to help you build confidence and depth in the skills that organisations expect from strategic IT leadership without being a pure exam cram guide ITIL 4 Strategic Leader SL a designation by PeopleCert AXELOS recognizes professionals who lead in digitally enabled services and demonstrates

how IT directs shapes and supports business strategy peoplecert.org 2axelos.com 2 While this book does not replace official training or exams its Q A sets reflect knowledge areas from the SL stream especially the two modules Strategist Direct Plan Improve DPI and Leader Digital IT Strategy DITS peoplecert.org 1 Inside you ll find 350 expertly crafted questions with model answers covering Digital IT Strategy Alignment How to translate business goals into IT strategy defining digital visions handling disruption innovation and emerging technologies Direct Plan Improve Practices Continual improvement governance risk management decision making structures strategic planning metrics performance measurement Governance Risk Compliance Establishing governance frameworks balancing risk and opportunity regulatory legal compliance audit trails Value Streams Service Value System SVS Understanding the four dimensions of service management value streams service value chain integration of practices to deliver value Leadership Change Culture Leading organisational change influencing culture stakeholder engagement communication coaching future leaders Strategic Decision Making Metrics Key performance indicators balanced scorecards risk quantification prioritizing initiatives investment decision trade offs Driving Transformation Innovation Leveraging technology trends digital disruption cloud AI automation in strategy scalability agility With these Q A you ll be able to diagnose your readiness focus your self study and prepare to articulate both conceptual understanding and practical application in interviews Whether for roles such as IT Strategy Leader IT Director Digital Transformation Lead or for strengthening leadership capability this book helps you shine Because it references the prestigious PeopleCert AXELOS ITIL 4 Strategic Leader scheme it carries credibility in job interviews hiring panels CloudRoar Consulting Services invites you to build not just knowledge but strategic insight Empower your career Lead with clarity Transform with confidence

Vagrant Unlocked: The Definitive Guide to Streamlining Development

Workflows Adam Jones, 2025-01-27 Unlock the full potential of Vagrant with Vagrant Unlocked The Definitive Guide to Streamlining Development Workflows This comprehensive guide is a must read for developers DevOps engineers and IT professionals eager to optimize their workflow and ensure uniformity across team projects Begin your journey with an introduction to Vagrant understanding its role in enhancing the development process followed by detailed instructions on setting up and configuring your first Vagrant environment Master the complexities of provisioning networking and managing multi machine setups that reflect real world applications Delve into advanced features such as utilizing snapshots for state management efficient file sharing plugin customization and effective troubleshooting strategies Vagrant Unlocked doesn't just stop at setup it guides you in seamlessly integrating Vagrant into your workflow to boost team collaboration and maintain a consistent environment across development staging and production Each chapter is carefully crafted offering step by step tutorials best practices and practical examples to empower you in mastering Vagrant confidently Whether you're new to Vagrant or looking to enhance your expertise this book provides a thorough understanding and practical experience making your development process smoother and more predictable Embrace Vagrant's capabilities and revolutionize how you

build test and manage development environments with Vagrant Unlocked The Definitive Guide to Streamlining Development Workflows **IBM Distributed Virtual Switch 5000V Quickstart Guide** David Cain, Per Ljungström, Jason G.

Neatherway, Sangam Racherla, Lutfi Rachman, IBM Redbooks, 2014-07-02 The IBM Distributed Virtual Switch 5000V DVS 5000V is a software based network switching solution that is designed for use with the virtualized network resources in a VMware enhanced data center It works with VMware vSphere and ESXi 5.0 and beyond to provide an IBM Networking OS management plane and advanced Layer 2 features in the control and data planes It provides a large scale secure and dynamic integrated virtual and physical environment for efficient virtual machine VM networking that is aware of server virtualization events such as VMotion and Distributed Resource Scheduler DRS The DVS 5000V interoperates with any 802.1Qbg compliant physical switch to enable switching of local VM traffic in the hypervisor or in the upstream physical switch Network administrators who are familiar with IBM System Networking switches can manage the DVS 5000V just like IBM physical switches by using advanced networking troubleshooting and management features to make the virtual switch more visible and easier to manage This IBM Redbooks publication helps the network and system administrator install tailor and quickly configure the IBM Distributed Virtual Switch 5000V DVS 5000V for a new or existing virtualization computing environment It provides several practical applications of the numerous features of the DVS 5000V including a step by step guide to deploying configuring maintaining and troubleshooting the device Administrators who are already familiar with the CLI interface of IBM System Networking switches will be comfortable with the DVS 5000V Regardless of whether the reader has previous experience with IBM System Networking this publication is designed to help you get the DVS 5000V functional quickly and provide a conceptual explanation of how the DVS 5000V works in tandem with VMware *Semantics in*

Adaptive and Personalized Services Manolis Wallace, Ioannis E. Anagnostopoulos, Phivos Mylonas, Mária Bieliková, 2010-03-10 *Semantics in Adaptive and Personalised Services* initially strikes one as a specific and perhaps narrow domain Yet a closer examination of the term reveals much more On one hand there is the issue of semantics Nowadays this most often refers to the use of OWL RDF or some other XML based ontology description language in order to represent the entities of problem Still semantics may also very well refer to the consideration of the meanings and concepts rather than arithmetic measures regardless of the representation used On the other hand there is the issue of adaptation i.e. automated re configuration based on some context This could be the network and device context the application context or the user context we refer to the latter case as personalization From a different perspective there is the issue of the point of view from which to examine the topic There is the point of view of tools referring to the algorithms and software tools one can use the point of view of the methods referring to the abstract methodologies and best practices one can follow as well as the point of view of applications referring to successful and pioneering case studies that lead the way in research and innovation Or at least so we thought Based on the above reasoning the editors identified key researchers and practitioners in each of the aforementioned

categories and invited them to contribute a corresponding work to this book. However, as the authors' contributions started to arrive, the editors also started to realize that although these categories participate in each chapter to different degrees, none of them can ever be totally obsolete from them. Moreover, it seems that theory and methods are inherent in the development of tools and applications, and inversely, the application is also inherent in the motivation and presentation of tools and methods.

The Definitive Guide to HTML5 WebSocket Vanessa Wang, Frank Salim, Peter Moskowitz, 2013-03-21
The Definitive Guide to HTML5 WebSocket is the ultimate insider's WebSocket resource. This revolutionary new web technology enables you to harness the power of true real-time connectivity and build responsive modern web applications. This book contains everything web developers and architects need to know about WebSocket. It discusses how WebSocket-based architectures provide a dramatic reduction in unnecessary network overhead and latency compared to older HTTP Ajax architectures; how to layer widely used protocols such as XMPP and STOMP on top of WebSocket; and how to secure WebSocket connections and deploy WebSocket-based applications to the enterprise. Build real-time web applications with HTML5. This book introduces you to the WebSocket API and protocol, describes and provides real-world examples of protocol communication over WebSocket, explains WebSocket security and enterprise deployment.

Hacker's Guide to Machine Learning Concepts Trilokesh Khatri, 2025-01-03
Hacker's Guide to Machine Learning Concepts is crafted for those eager to dive into the world of ethical hacking. This book demonstrates how ethical hacking can help companies identify and fix vulnerabilities efficiently. With the rise of data and the evolving IT industry, the scope of ethical hacking continues to expand. We cover various hacking techniques, identifying weak points in programs and how to address them. The book is accessible even to beginners, offering chapters on machine learning and programming in Python. Written in an easy-to-understand manner, it allows learners to practice hacking steps independently on Linux or Windows systems using tools like Netsparker. This book equips you with fundamental and intermediate knowledge about hacking, making it an invaluable resource for learners.

Understanding Session Border Controllers Kaustubh Inamdar, Steve Holl, Gonzalo Salgueiro, Kyzer Davis, Arunachalam Chidambaram, 2018-11-28
The complete guide to deploying and operating SBC solutions. Including Cisco Unified Border Element, CUBE. Enterprise and service provider networks are increasingly adopting SIP as the guiding protocol for session management and require leveraging Session Border Controller (SBC) technology to enable this transition. Thousands of organizations have made the Cisco Unified Border Element (CUBE) their SBC technology of choice. Understanding Session Border Controllers gives network professionals and consultants a comprehensive guide to SBC theory, design, deployment, operation, security, troubleshooting, and more. Using CUBE-based examples, the authors offer insights that will be valuable to technical professionals using any SBC solution. The authors thoroughly cover native call control protocols, SBC behavior, and SBC's benefits for topology abstraction, demarcation, and security. Media and protocol interworking. They also present practical techniques and configurations for achieving interoperability with a wide variety of collaboration

products and solutions Evaluate key benefits of SBC solutions for security management and interoperability Master core concepts of SIP H 323 DTMF signaling interoperability call routing fax modem over IP security media handling and media signal forking in the SBC context Compare SBC deployment scenarios and optimize deployment for your environment Size and scale an SBC platform for your environment prevent oversubscription of finite resources and control cost through careful licensing Use SBCs as a back to back user agent B2BUA to interoperate between asymmetric VoIP networks Establish SIP trunking for PSTN access via SBCs Interoperate with call servers proxies fax servers ITSPs redirect servers call recording servers contact centers and other devices Secure real time communications over IP Mitigate security threats associated with complex SIP deployments Efficiently monitor and manage an SBC environment

How to Cheat at Configuring Open Source Security Tools Michael Gregg, Eric Seagren, Angela Orebaugh, Matt Jonkman, Raffael Marty, 2011-04-18 The Perfect Reference for the Multitasked SysAdmin This is the perfect guide if network security tools is not your specialty It is the perfect introduction to managing an infrastructure with freely available and powerful Open Source tools Learn how to test and audit your systems using products like Snort and Wireshark and some of the add ons available for both In addition learn handy techniques for network troubleshooting and protecting the perimeter Take Inventory See how taking an inventory of the devices on your network must be repeated regularly to ensure that the inventory remains accurate Use Nmap Learn how Nmap has more features and options than any other free scanner Implement Firewalls Use netfilter to perform firewall logic and see how SmoothWall can turn a PC into a dedicated firewall appliance that is completely configurable Perform Basic Hardening Put an IT security policy in place so that you have a concrete set of standards against which to measure Install and Configure Snort and Wireshark Explore the feature set of these powerful tools as well as their pitfalls and other security considerations Explore Snort Add Ons Use tools like Oinkmaster to automatically keep Snort signature files current Troubleshoot Network Problems See how to reporting on bandwidth usage and other metrics and to use data collection methods like sniffing NetFlow and SNMP Learn Defensive Monitoring Considerations See how to define your wireless network boundaries and monitor to know if they re being exceeded and watch for unauthorized traffic on your network Covers the top 10 most popular open source security tools including Snort Nessus Wireshark Nmap and Kismet Follows Syngress proven How to Cheat pedagogy providing readers with everything they need and nothing they don t

Embedded Linux Projects Using Yocto Project Cookbook Alex González, 2015-03-30 If you are an embedded developer learning about embedded Linux with some experience with the Yocto project this book is the ideal way to become proficient and broaden your knowledge with examples that are immediately applicable to your embedded developments Experienced embedded Yocto developers will find new insight into working methodologies and ARM specific development competence

[CEH Certified Ethical Hacker Study Guide](#) Kimberly Graves, 2010-06-03 Full Coverage of All Exam Objectives for the CEH Exams 312 50 and EC0 350 Thoroughly prepare for the challenging CEH Certified Ethical Hackers exam with this comprehensive

study guide The book provides full coverage of exam topics real world examples and includes a CD with chapter review questions two full length practice exams electronic flashcards a glossary of key terms and the entire book in a searchable pdf e book What s Inside Covers ethics and legal issues footprinting scanning enumeration system hacking trojans and backdoors sniffers denial of service social engineering session hijacking hacking Web servers Web application vulnerabilities and more Walks you through exam topics and includes plenty of real world scenarios to help reinforce concepts Includes a CD with an assessment test review questions practice exams electronic flashcards and the entire book in a searchable pdf

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Wireshark Developer Guide Introduction

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