

Wireshark For Security Professionals Using Wireshark And The Metasploit Framework

"This book provides the latest empirical research and theoretical frameworks in the area of information security, presenting research on developing sufficient security measures for new environments by discussing challenges faced by researchers as well as unconventional solutions to these problems"--Provided by publisher.

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.

An info. security assessment (ISA) is the process of determining how effectively an entity being assessed (e.g., host, system, network, procedure, person) meets specific security objectives. This is a guide to the basic tech. aspects of conducting ISA. It presents tech. testing and examination methods and techniques that an org. might use as part of an ISA, and offers insights to assessors on their execution and the potential impact they may have on systems and networks. For an ISA to be successful, elements beyond the execution of testing and examination must support the tech. process. Suggestions for these activities ζ including a robust planning ζ root cause analysis, and tailored reporting ζ are also presented in this guide. Illus.

An introduction to a range of cyber security issues explains how to utilize graphical approaches to displaying and understanding computer security data, such as network traffic, server logs, and executable files, offering guidelines for identifying a network attack, how to assess a system for vulnerabilities with Afterglow and RUMINT visualization software, and how to protect a system from additional attacks. Original. (Intermediate)

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.

Test your knowledge and know what to expect on A+ exam day CompTIA A+ Complete Practice Tests, Second Edition enables you to hone your test-taking skills, focus on challenging areas, and be thoroughly prepared to ace the exam and earn your A+ certification. This essential component of your overall study plan presents nine unique practice tests—and two 90-question bonus

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tests—covering 100% of the objective domains for both the 220-1001 and 220-1002 exams. Comprehensive coverage of every essential exam topic ensures that you will know what to expect on exam day and maximize your chances for success. Over 1200 practice questions on topics including hardware, networking, mobile devices, operating systems and procedures, troubleshooting, and more, lets you assess your performance and gain the confidence you need to pass the exam with flying colors. This second edition has been fully updated to reflect the latest best practices and updated exam objectives you will see on the big day. A+ certification is a crucial step in your IT career. Many businesses require this accreditation when hiring computer technicians or validating the skills of current employees. This collection of practice tests allows you to: Access the test bank in the Sybex interactive learning environment Understand the subject matter through clear and accurate answers and explanations of exam objectives Evaluate your exam knowledge and concentrate on problem areas Integrate practice tests with other Sybex review and study guides, including the CompTIA A+ Complete Study Guide and the CompTIA A+ Complete Deluxe Study Guide Practice tests are an effective way to increase comprehension, strengthen retention, and measure overall knowledge. The CompTIA A+ Complete Practice Tests, Second Edition is an indispensable part of any study plan for A+ certification.

This book constitutes the refereed proceedings of the 11th International Conference on Security, Privacy, and Anonymity in Computation, Communication, and Storage. The 45 revised full papers were carefully reviewed and selected from 120 submissions. The papers cover many dimensions including security algorithms and architectures, privacy-aware policies, regulations and techniques, anonymous computation and communication, encompassing fundamental theoretical approaches, practical experimental projects, and commercial application systems for computation, communication and storage.

The CWSP certification is a professional level wireless LAN certification for the CWNP Program. To get a CWSP certification, you must hold a current and valid CWNA credential. You must take the CWSP exam at a Pearson Vue Testing Center and pass with a 70% or higher. Instructors must pass with a 80% or higher. However you select to prepare for the CWSP exam, you should start with the exam objectives, which cover the full list of skills tested on the exam. Here we've brought best Exam practice questions for CWSP so that you can prepare well for CWSP exam. Unlike other online simulation practice tests, you get an Ebook version that is easy to read & remember these questions. You can simply rely on these questions for successfully certifying this exam.

The most detailed, comprehensive coverage of CWSP-205 exam objectives CWSP: Certified Wireless Security Professional Study Guide offers comprehensive preparation for the CWSP-205 exam. Fully updated to align with the new 2015 exam, this guide covers all exam objectives and gives you access

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to the Sybex interactive online learning system so you can go into the test fully confident in your skills. Coverage includes WLAN discovery, intrusion and attack, 802.11 protocol analysis, wireless intrusion prevention system implementation, Layer 2 and 3 VPN over 802.11 networks, managed endpoint security systems, and more. Content new to this edition features discussions about BYOD and guest access, as well as detailed and insightful guidance on troubleshooting. With more than double the coverage of the “official” exam guide, plus access to interactive learning tools, this book is your ultimate solution for CWSP-205 exam prep. The CWSP is the leading vendor-neutral security certification administered for IT professionals, developed for those working with and securing wireless networks. As an advanced certification, the CWSP requires rigorous preparation — and this book provides more coverage and expert insight than any other source. Learn the ins and outs of advanced network security Study 100 percent of CWSP-205 objectives Test your understanding with two complete practice exams Gauge your level of preparedness with a pre-test assessment The CWSP is a springboard for more advanced certifications, and the premier qualification employers look for in the field. If you’ve already earned the CWTS and the CWNA, it’s time to take your career to the next level. CWSP: Certified Wireless Security Professional Study Guide is your ideal companion for effective, efficient CWSP-205 preparation.

Sybex is now the official publisher for Certified Wireless Network Professional, the certifying vendor for the CWSP program. This guide covers all exam objectives, including WLAN discovery techniques, intrusion and attack techniques, 802.11 protocol analysis. Wireless intrusion-prevention systems implementation, layer 2 and 3 VPNs used over 802.11 networks, and managed endpoint security systems. It also covers enterprise/SMB/SOHO/Public-Network Security design models and security solution implementation, building robust security networks, wireless LAN management systems, and much more. 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

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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

Every organization today needs to manage the risk of exposing business-critical data, improve business continuity, and minimize the cost of managing IT security. Most all IT assets of an organization share a common network infrastructure. Therefore, the first line of defense is to establish proper network security. This security is a prerequisite for a logical set of technical countermeasures to protect from many different attack vectors that use the network to infiltrate the backbone of an organization. The IBM® Security Network Intrusion Prevention System (IPS) stops network-based threats before they can impact the business operations of an organization. Preemptive protection, which is protection that works ahead of a threat, is available by means of a combination of line-speed performance, security intelligence, and a modular protection engine that enables security convergence. By consolidating network security demands for data security and protection for web applications, the IBM Security Network IPS serves as the security platform that can reduce the costs and complexity of deploying and managing point solutions. This IBM Redbooks® publication provides IT architects and security specialists a better understanding of the challenging topic of blocking network threats. This book highlights security convergence of IBM Virtual Patch® technology, data security, and Web Application Protection. In addition, this book explores the technical foundation of the IBM Security Network IPS. It explains how to set up, configure, and maintain proper network perimeter protection within a real-world business scenario. Network forensics is an evolution of typical digital forensics, in which evidence is gathered from network traffic in near real time. This book will help security and forensics professionals as well as network administrators build a solid foundation of processes and controls to identify incidents and gather evidence from the network. Forensic scientists and investigators are some of the fastest growing jobs in the United States with over 70,000 individuals employed in 2008. Specifically in the area of cybercrime and digital forensics, the federal government is conducting a talent search for 10,000 qualified specialists. Almost every technology company has developed or is developing a cloud computing strategy. To cut costs, many companies are moving toward network-based applications like SalesForce.com, PeopleSoft, and HR Direct. Every day, we are moving companies' proprietary data into a cloud, which can be hosted anywhere in the world. These companies need to understand how to identify where their data is going and what they are sending. Key network forensics skills and tools

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are discussed—for example, capturing network traffic, using Snort for network-based forensics, using NetWitness Investigator for network traffic analysis, and deciphering TCP/IP. The current and future states of network forensics analysis tools are addressed. The admissibility of network-based traffic is covered as well as the typical life cycle of a network forensics investigation.

Leverage Wireshark, Lua and Metasploit to solve any security challenge
Wireshark is arguably one of the most versatile networking tools available, allowing microscopic examination of almost any kind of network activity. This book is designed to help you quickly navigate and leverage Wireshark effectively, with a primer for exploring the Wireshark Lua API as well as an introduction to the Metasploit Framework. Wireshark for Security Professionals covers both offensive and defensive concepts that can be applied to any Infosec position, providing detailed, advanced content demonstrating the full potential of the Wireshark tool. Coverage includes the Wireshark Lua API, Networking and Metasploit fundamentals, plus important foundational security concepts explained in a practical manner. You are guided through full usage of Wireshark, from installation to everyday use, including how to surreptitiously capture packets using advanced MiTM techniques. Practical demonstrations integrate Metasploit and Wireshark demonstrating how these tools can be used together, with detailed explanations and cases that illustrate the concepts at work. These concepts can be equally useful if you are performing offensive reverse engineering or performing incident response and network forensics. Lua source code is provided, and you can download virtual lab environments as well as PCAPs allowing them to follow along and gain hands-on experience. The final chapter includes a practical case study that expands upon the topics presented to provide a cohesive example of how to leverage Wireshark in a real world scenario. Understand the basics of Wireshark and Metasploit within the security space Integrate Lua scripting to extend Wireshark and perform packet analysis Learn the technical details behind common network exploitation Packet analysis in the context of both offensive and defensive security research Wireshark is the standard network analysis tool used across many industries due to its powerful feature set and support for numerous protocols. When used effectively, it becomes an invaluable tool for any security professional, however the learning curve can be steep. Climb the curve more quickly with the expert insight and comprehensive coverage in Wireshark for Security Professionals.

Whether you're searching for new or additional opportunities, information security can be vast and overwhelming. In this practical guide, author Christina Morillo introduces technical knowledge from a diverse range of experts in the infosec field. Through 97 concise and useful tips, you'll learn how to expand your skills and solve common issues by working through everyday security problems. You'll also receive valuable guidance from professionals on how to navigate your career within this industry. How do you get buy-in from the C-suite for your security program? How do you establish an incident and disaster response plan?

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This practical book takes you through actionable advice on a wide variety of infosec topics, including thought-provoking questions that drive the direction of the field. Continuously Learn to Protect Tomorrow's Technology--Alyssa Columbus Fight in Cyber Like the Military Fights in the Physical--Andrew Harris Keep People at the Center of Your Work--Camille Stewart Infosec Professionals Need to Know Operational Resilience--Ann Johnson Taking Control of Your Own Journey--Antoine Middleton Security, Privacy, and Messy Data Webs: Taking Back Control in Third-Party Environments--Ben Brook Every Information Security Problem Boils Down to One Thing--Ben Smith Focus on the WHAT and the Why First, Not the Tool--Christina Morillo

This workbook covers all the information you need to pass the Certified Information Systems Security Professional (CISSP) exam. The course is designed to take a practical approach to learn with real-life examples and case studies. - Covers complete (ISC)² CISSP blueprint - Summarized content - Case Study based approach - 100% passing guarantee - Mind maps - 200+ Exam Practice Questions The Certified Information Systems Security Professional (CISSP) is a worldwide recognized certification in the information security industry. CISSP formalize an information security professional's deep technological and managerial knowledge and experience to efficaciously design, engineer and pull off the overall security positions of an organization. The broad array of topics included in the CISSP Common Body of Knowledge (CBK) guarantee its connection across all subject area in the field of information security. Successful campaigners are competent in the undermentioned 8 domains: Security and Risk Management Asset Security Security Architecture and Engineering Communication and Network Security Identity and Access Management (IAM) Security Assessment and Testing Security Operations Software Development Security (ISC)² Certifications Information security careers can feel isolating! When you certify, you become a member of (ISC)² — a prima community of cybersecurity professionals. You can cooperate with thought leaders, network with global peers; grow your skills and so much more. The community is always here to support you throughout your career.?

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

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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: 1) Wireshark Essentials 2) Network Analysis Using Wireshark Cookbook 3) 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.

PRINCIPLES OF INCIDENT RESPONSE & DISASTER RECOVERY, 2nd Edition presents methods to identify vulnerabilities within computer networks and the countermeasures that mitigate risks and damage. From market-leading content on contingency planning, to effective techniques that minimize downtime in an emergency, to curbing losses after a breach, this text is the resource needed in case of a network intrusion. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

There is little doubt that cyber-space has become the battle space for confrontations. However, to conduct cyber operations, a new armory of weapons needs to be employed. No matter how many, or how sophisticated an aggressor's kinetic weapons are, they are useless in cyber-space. This book looks at the milieu of the cyber weapons industry, as well as the belligerents who use cyber weapons. It discusses what distinguishes these hardware devices and software programs from computer science in general. It does this by focusing on specific aspects of the topic—contextual issues of why cyber-space is the new battleground, defensive cyber weapons, offensive cyber weapons, dual-use weapons, and the implications these weapons systems have for practice. Contrary to popular opinion, the use of cyber weapons is not limited to nation states; though this is where the bulk of news reporting focuses. The reality is that there isn't a sector of the political-economy that is immune to cyber skirmishes. So, this book looks at cyber weapons not only by national security agencies and the military, but also by law enforcement, and the business sector—the latter includes administrations termed non-government organisations (NGOs). This book offers study material suitable for a wide-ranging audience—students, professionals, researchers, policy officers, and ICT specialists. 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.

Android Security: Attacks and Defenses is for anyone interested in learning about the strengths and weaknesses of the Android platform from a security perspective. Starting with an introduction to Android OS architecture and application programming, it will help readers get up

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to speed on the basics of the Android platform and its security issues.E

The official study guide for the Certified Wireless Analysis Professional certification from CWNP. Four leading wireless experts thoroughly prepare you for the vendor-neutral CWAP exam administered by CWNP, the industry leader for enterprise Wi-Fi training and certification. This official study guide not only covers all exam objectives for the CWAP exam, it also prepares you to administer and troubleshoot complex enterprise WLAN environments. Covers all exam objectives for the Certified Wireless Analysis Professional (CWAP) exam. Covers 802.11 physical (PHY) and 802.11 MAC layer frame formats and technologies. Also covers 802.11 operation and frame exchanges, spectrum analysis and troubleshooting, and protocol analysis and troubleshooting. Includes hands-on exercises using the Wireshark protocol analyzer and Fluke Network's Spectrum analyzer software. Companion CD includes two practice exams and over 150 electronic flashcards. Advancing your skills as a wireless administrator professional? Start by passing the CWAP exam with the complete test prep you'll find in this practical study guide and CD. Note: CD-ROM materials for eBook purchases can be downloaded from <http://booksupport.wiley.com>.

Protect your network as you move from the basics of the Wireshark scenarios to detecting and resolving network anomalies. Key Features Learn protocol analysis, optimization and troubleshooting using Wireshark, an open source tool. Learn the usage of filtering and statistical tools to ease your troubleshooting job. Quickly perform root-cause analysis over your network in an event of network failure or a security breach. Book Description Wireshark is an open source protocol analyser, commonly used among the network and security professionals. Currently being developed and maintained by volunteer contributions of networking experts from all over the globe. Wireshark is mainly used to analyze network traffic, analyse network issues, analyse protocol behaviour, etc. - it lets you see what's going on in your network at a granular level. This book takes you from the basics of the Wireshark environment to detecting and resolving network anomalies. This book will start from the basics of setting up your Wireshark environment and will walk you through the fundamentals of networking and packet analysis. As you make your way through the chapters, you will discover different ways to analyse network traffic through creation and usage of filters and statistical features. You will look at network security packet analysis, command-line utilities, and other advanced tools that will come in handy when working with day-to-day network operations. By the end of this book, you have enough skill with Wireshark 2 to overcome real-world network challenges. What you will learn Learn how TCP/IP works Install Wireshark and understand its GUI Creation and Usage of Filters to ease analysis process Understand the usual and unusual behaviour of Protocols Troubleshoot network anomalies quickly with help of Wireshark Use Wireshark as a diagnostic tool for network security analysis to identify source of malware Decrypting wireless traffic Resolve latencies and bottleneck issues in the network Who this book is for If you are a security professional or a network enthusiast who is interested in understanding the internal working of networks and packets, then this book is for you. No prior knowledge of Wireshark is needed.

Analyze data network like a professional by mastering Wireshark - From 0 to 1337 About This Book Master Wireshark and train it as your network sniffer Impress your peers and get yourself pronounced as a network doctor Understand Wireshark and its numerous features with the aid of this fast-paced book packed with numerous screenshots, and become a pro at resolving network anomalies Who This Book Is For Are you curious to know what's going on in a network? Do you get frustrated when you are unable to detect the cause of problems in your networks? This is where the book comes into play. Mastering Wireshark is for developers or network enthusiasts who are interested in understanding the internal workings of networks and have prior knowledge of using Wireshark, but are not aware about all of its functionalities. What You Will Learn Install Wireshark and understand its GUI and all the functionalities of it

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Create and use different filters Analyze different layers of network protocols and know the amount of packets that flow through the network Decrypt encrypted wireless traffic Use Wireshark as a diagnostic tool and also for network security analysis to keep track of malware Troubleshoot all the network anomalies with help of Wireshark Resolve latencies and bottleneck issues in the network In Detail 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. Mastering Wireshark will help you raise your knowledge to an expert level. At the start of the book, 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 book, you'll be mastering the features of Wireshark, analyzing different layers of the network protocol, looking for any anomalies. As you reach to the end of the book, you will be taught how to use Wireshark for network security analysis and configure it for troubleshooting purposes. Style and approach Every chapter in this book is explained to you in an easy way accompanied by real-life examples and screenshots of the interface, making it easy for you to become an expert at using Wireshark.

This updated study guide by two security experts will help you prepare for the CompTIA CySA+ certification exam. Position yourself for success with coverage of crucial security topics! Where can you find 100% coverage of the revised CompTIA Cybersecurity Analyst+ (CySA+) exam objectives? It's all in the CompTIA CySA+ Study Guide Exam CS0-002, Second Edition! This guide provides clear and concise information on crucial security topics. You'll be able to gain insight from practical, real-world examples, plus chapter reviews and exam highlights. Turn to this comprehensive resource to gain authoritative coverage of a range of security subject areas. Review threat and vulnerability management topics Expand your knowledge of software and systems security Gain greater understanding of security operations and monitoring Study incident response information Get guidance on compliance and assessment The CompTIA CySA+ Study Guide, Second Edition connects you to useful study tools that help you prepare for the exam. Gain confidence by using its interactive online test bank with hundreds of bonus practice questions, electronic flashcards, and a searchable glossary of key cybersecurity terms. You also get access to hands-on labs and have the opportunity to create a cybersecurity toolkit. Leading security experts, Mike Chapple and David Seidl, wrote this valuable guide to help you prepare to be CompTIA Security+ certified. If you're an IT professional who has earned your CompTIA Security+ certification, success on the CySA+ (Cybersecurity Analyst) exam stands as an impressive addition to your professional credentials. Preparing and taking the CS0-002 exam can also help you plan for advanced certifications, such as the CompTIA Advanced Security Practitioner (CASP+).

Technology professionals seeking higher-paying security jobs need to know security fundamentals to land the job-and this book will help Divided into two parts: how to get the job and a security crash course to prepare for the job interview Security is one of today's fastest growing IT specialties, and this book

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will appeal to technology professionals looking to segue to a security-focused position Discusses creating a resume, dealing with headhunters, interviewing, making a data stream flow, classifying security threats, building a lab, building a hacker's toolkit, and documenting work The number of information security jobs is growing at an estimated rate of 14 percent a year, and is expected to reach 2.1 million jobs by 2008

The ultimate hands-on guide to IT security and proactive defense The Network Security Test Lab is a hands-on, step-by-step guide to ultimate IT security implementation. Covering the full complement of malware, viruses, and other attack technologies, this essential guide walks you through the security assessment and penetration testing process, and provides the set-up guidance you need to build your own security-testing lab. You'll look inside the actual attacks to decode their methods, and learn how to run attacks in an isolated sandbox to better understand how attackers target systems, and how to build the defenses that stop them. You'll be introduced to tools like Wireshark, Networkminer, Nmap, Metasploit, and more as you discover techniques for defending against network attacks, social networking bugs, malware, and the most prevalent malicious traffic. You also get access to open source tools, demo software, and a bootable version of Linux to facilitate hands-on learning and help you implement your new skills. Security technology continues to evolve, and yet not a week goes by without news of a new security breach or a new exploit being released. The Network Security Test Lab is the ultimate guide when you are on the front lines of defense, providing the most up-to-date methods of thwarting would-be attackers. Get acquainted with your hardware, gear, and test platform Learn how attackers penetrate existing security systems Detect malicious activity and build effective defenses Investigate and analyze attacks to inform defense strategy The Network Security Test Lab is your complete, essential guide. Virtual, hands-on learning labs allow you to apply your technical skills using live hardware and software hosted in the cloud. So Sybex has bundled CompTIA CySA+ labs from Practice Labs, the IT Competency Hub, with our popular CompTIA CySA+ Study Guide, Second Edition. Working in these labs gives you the same experience you need to prepare for the CompTIA CySA+ Exam CS0-002 that you would face in a real-life setting. Used in addition to the book, the labs are a proven way to prepare for the certification and for work in the cybersecurity field. The CompTIA CySA+ Study Guide Exam CS0-002, Second Edition provides clear and concise information on crucial security topics and verified 100% coverage of the revised CompTIA Cybersecurity Analyst+ (CySA+) exam objectives. You'll be able to gain insight from practical, real-world examples, plus chapter reviews and exam highlights. Turn to this comprehensive resource to gain authoritative coverage of a range of security subject areas. Review threat and vulnerability management topics Expand your knowledge of software and systems security Gain greater understanding of security operations and monitoring Study incident response information Get guidance on compliance

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and assessment The CompTIA CySA+ Study Guide, Second Edition connects you to useful study tools that help you prepare for the exam. Gain confidence by using its interactive online test bank with hundreds of bonus practice questions, electronic flashcards, and a searchable glossary of key cybersecurity terms. You also get access to hands-on labs and have the opportunity to create a cybersecurity toolkit. Leading security experts, Mike Chapple and David Seidl, wrote this valuable guide to help you prepare to be CompTIA Security+ certified. If you're an IT professional who has earned your CompTIA Security+ certification, success on the CySA+ (Cybersecurity Analyst) exam stands as an impressive addition to your professional credentials. Preparing and taking the CS0-002 exam can also help you plan for advanced certifications, such as the CompTIA Advanced Security Practitioner (CASP+). And with this edition you also get Practice Labs virtual labs that run from your browser. The registration code is included with the book and gives you 6 months unlimited access to Practice Labs CompTIA CySA+ Exam CS0-002 Labs with 30 unique lab modules to practice your skills.

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.

Learn how to build an end-to-end Web application security testing framework
KEY FEATURES ? Exciting coverage on vulnerabilities and security loopholes in modern web applications. ? Practical exercises and case scenarios on performing pentesting and identifying security breaches. ? Cutting-edge offerings on implementation of tools including nmap, burp suite and wireshark.

DESCRIPTION Hands-on Penetration Testing for Web Applications offers readers with knowledge and skillset to identify, exploit and control the security vulnerabilities present in commercial web applications including online banking, mobile payments and e-commerce applications. We begin with exposure to modern application vulnerabilities present in web applications. You will learn and gradually practice the core concepts of penetration testing and OWASP Top Ten vulnerabilities including injection, broken authentication and access control, security misconfigurations and cross-site scripting (XSS). You will then gain advanced skillset by exploring the methodology of security testing and how to work around security testing as a true security professional. This book also brings cutting-edge coverage on exploiting and detecting vulnerabilities such as authentication flaws, session flaws, access control flaws, input validation flaws etc. You will discover an end-to-end implementation of tools such as nmap, burp suite, and wireshark. You will then learn to practice how to execute web application intrusion testing in automated testing tools and also to analyze vulnerabilities and threats present in the source codes. By the end of this book,

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you will gain in-depth knowledge of web application testing framework and strong proficiency in exploring and building high secured web applications. WHAT YOU WILL LEARN ? Complete overview of concepts of web penetration testing. ? Learn to secure against OWASP TOP 10 web vulnerabilities. ? Practice different techniques and signatures for identifying vulnerabilities in the source code of the web application. ? Discover security flaws in your web application using most popular tools like nmap and wireshark. ? Learn to respond modern automated cyber attacks with the help of expert-led tips and tricks. ? Exposure to analysis of vulnerability codes, security automation tools and common security flaws. WHO THIS BOOK IS FOR This book is for Penetration Testers, ethical hackers, and web application developers. People who are new to security testing will also find this book useful. Basic knowledge of HTML, JavaScript would be an added advantage. TABLE OF CONTENTS 1. Why Application Security? 2. Modern application Vulnerabilities 3. Web Pentesting Methodology 4. Testing Authentication 5. Testing Session Management 6. Testing Secure Channels 7. Testing Secure Access Control 8. Sensitive Data and Information disclosure 9. Testing Secure Data validation 10. Attacking Application Users: Other Techniques 11. Attacking Application Users: Other Techniques 12. Automating Custom Attacks 13. Pentesting Tools 14. Static Code Analysis 15. Mitigations and Core Defense Mechanisms

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

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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.

Modern communications are now more than ever heavily dependent on mobile networks, creating the potential for higher incidents of sophisticated crimes, terrorism acts, and high impact cyber security breaches. Disrupting these unlawful actions requires a number of digital forensic principles and a comprehensive investigation process. Mobile Network Forensics: Emerging Research and Opportunities is an essential reference source that discusses investigative trends in mobile devices and the internet of things, examining malicious mobile network traffic and traffic irregularities, as well as software-defined mobile network backbones. Featuring research on topics such as lawful interception, system architecture, and networking environments, this book is ideally designed for forensic practitioners, government officials, IT consultants, cybersecurity analysts, researchers, professionals, academicians, and students seeking coverage on the technical and legal aspects of conducting investigations in the mobile networking environment.

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.

The Network administrators, Network Engineers, and Network Security engineers should know how hackers penetrate the network, what are the weaknesses of the network protocols that hackers can exploit and what tools they use. By mastering network penetration testing, network security professional can better protect their networks. Regular Penetration testing can potentially uncover any new vulnerabilities in the network. The focus of this book is to guide Network and Security Professionals to perform a complete network penetration test that covers all the network aspects through Kali Linux, Nmap and other tools to find network weaknesses. How to analyze network traffic using Wireshark and Tcpdump; to detect anomalies in the traffic that might represent an alert of attack on the network.

Fully updated Sybex Study Guide for the industry-leading security certification: CISSP Security professionals consider the Certified Information Systems Security Professional (CISSP) to be the most desired certification to achieve. More than 200,000 have taken the exam, and there are more than 70,000 CISSPs worldwide. This highly respected guide is updated to cover changes made to the CISSP Body of Knowledge in 2012. It also provides additional advice on how to pass each section of the exam. With expanded coverage of key areas, it also includes a

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full-length, 250-question practice exam. Fully updated for the 2012 CISSP Body of Knowledge, the industry-leading standard for IT professionals Thoroughly covers exam topics, including access control, application development security, business continuity and disaster recovery planning, cryptography, operations security, and physical (environmental) security Examines information security governance and risk management, legal regulations, investigations and compliance, and telecommunications and network security Features expanded coverage of biometrics, auditing and accountability, software security testing, and many more key topics CISSP: Certified Information Systems Security Professional Study Guide, 6th Edition prepares you with both the knowledge and the confidence to pass the CISSP exam.

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 Wireshark2.0, 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.

Network security is not simply about building impenetrable walls—determined attackers will eventually overcome traditional defenses. The most effective computer security strategies integrate network security monitoring (NSM): the collection and analysis of data to help you detect and respond to intrusions. In *The Practice of Network Security Monitoring*, Mandiant CSO Richard Bejtlich shows you how to use NSM to add a robust layer of protection around your networks—no prior experience required. To help you avoid costly and inflexible solutions, he teaches you how to deploy, build, and run an NSM operation using open source software and vendor-neutral tools. You'll learn how to: –Determine where to deploy NSM platforms, and size them for the monitored networks –Deploy stand-alone or distributed NSM installations –Use command line and graphical packet analysis tools, and NSM consoles –Interpret network evidence from server-side and client-side intrusions –Integrate threat intelligence into NSM software to identify sophisticated adversaries There's no foolproof way to keep attackers out of your network. But when they get in, you'll be prepared. *The Practice of Network Security Monitoring* will show you how to build a security net to detect, contain, and control them. Attacks are inevitable, but losing sensitive data shouldn't be.

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