Aircrack Ng

OccupyTheWeb

The Official CHFI Study Guide (Exam 312-49) Dave Kleiman,2011-08-31 This is the official CHFI (Computer Hacking Forensics Investigator) study guide for professionals studying for the forensics exams and for professionals needing the skills to identify an intruder's footprints and properly gather the necessary evidence to prosecute. The EC-Council offers certification for ethical hacking and computer forensics. Their ethical hacker exam has become very popular as an industry gauge and we expect the forensics exam to follow suit. Material is presented in a logical learning sequence: a section builds upon previous sections and a chapter on previous chapters. All concepts, simple and complex, are defined and explained when they appear for the first time. This book includes: Exam objectives covered in a chapter are clearly explained in the beginning of the chapter, Notes and Alerts highlight crucial points, Exam’s Eye View emphasizes the important points from the exam’s perspective, Key Terms present definitions of key terms used in the chapter, Review Questions contains the questions modeled after real exam questions based on the material covered in the chapter. Answers to the questions are presented with explanations. Also included is a full practice exam modeled after the real exam. The only study guide for CHFI, provides 100% coverage of all exam objectives. CHFI Training runs hundreds of dollars for self tests to thousands of dollars for classroom training.

Wireshark & Ethereal Network Protocol Analyzer Toolkit Angela

Orebaugh,Gilbert Ramirez,Jay Beale,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

WarDriving and Wireless Penetration Testing Chris Hurley,Russ Rogers,Frank Thornton,Brian Baker,2007 WarDriving and Wireless Penetration Testing brings together the premiere wireless penetration testers to outline how successful penetration testing of wireless networks is accomplished, as well as how to defend against these attacks.

Security Power Tools Bryan Burns,Dave Killion,Nicolas Beauchesne,Eric Moret,Julien Sobrier,Michael Lynn,Eric Markham,Chris Iezzoni,Philippe Biondi,Jennifer Stisa Granick,Steve Manzuik,Paul Guersch,2007-08-27 What if you could sit down with some of the most talented security engineers in the world and ask any network security question you wanted? Security Power Tools lets you do exactly that! Members of Juniper Networks' Security Engineering team and a few guest experts reveal how to use, tweak, and push the most popular network security applications, utilities, and tools available using Windows, Linux, Mac OS X, and Unix platforms. Designed to be browsed, Security Power Tools offers you multiple approaches to network security via 23 cross-referenced chapters that review the best security tools on the planet for both black hat techniques and white hat defense tactics. It's a must-have reference for network administrators, engineers and consultants with tips, tricks, and how-to advice for an assortment of freeware and commercial tools, ranging from intermediate level command-line operations to

advanced programming of self-hiding exploits. Security Power Tools details best practices for: Reconnaissance -- including tools for network scanning such as nmap; vulnerability scanning tools for Windows and Linux; LAN reconnaissance; tools to help with wireless reconnaissance; and custom packet generation Penetration -- such as the Metasploit framework for automated penetration of remote computers; tools to find wireless networks; exploitation framework applications; and tricks and tools to manipulate shellcodes Control -- including the configuration of several tools for use as backdoors; and a review of known rootkits for Windows and Linux Defense -- including host-based firewalls; host hardening for Windows and Linux networks; communication security with ssh; email security and anti-malware; and device security testing Monitoring -- such as tools to capture, and analyze packets; network monitoring with Honeyd and snort; and host monitoring of production servers for file changes Discovery -- including The Forensic Toolkit, SysInternals and other popular forensic tools; application fuzzer and fuzzing techniques; and the art of binary reverse engineering using tools like Interactive Disassembler and Ollydbg A practical and timely network security ethics chapter written by a Stanford University professor of law completes the suite of topics and makes this book a goldmine of security information. Save yourself a ton of headaches and be prepared for any network security dilemma with Security Power Tools.

Wireless Exploits And Countermeasures Rob Botwright,101-01-01 □ Wireless

Exploits and Countermeasures Book Bundle Unveil the Secrets of Wireless Security with Our Comprehensive Bundle! Are you ready to dive into the intriguing world of wireless network security? Introducing the Wireless Exploits and Countermeasures book bundle – a collection of four essential volumes designed to empower you with the skills, knowledge, and tools needed to safeguard wireless networks effectively. Book 1 - Wireless Exploits and Countermeasures: A Beginner's Guide Begin your journey with a solid foundation in wireless security. This beginner-friendly guide introduces you to wireless networks, helps you grasp the fundamentals, and equips you with the essential tools and strategies to secure them. Perfect for newcomers and those seeking to reinforce their basics. Book 2 - Mastering Kali Linux NetHunter for Wireless Security Ready to take your skills to the next level? Mastering Kali Linux NetHunter is your go-to resource. Explore advanced Wi-Fi scanning, mobile security assessments, and wireless exploits using the powerful Kali Linux NetHunter platform. Ideal for aspiring mobile security experts and seasoned professionals alike. Book 3 - Aircrack-ng Techniques: Cracking WEP/WPA/WPA2 Keys Unlock the secrets of Wi-Fi encryption with Aircrack-ng Techniques. Delve deep into cracking WEP, WPA, and WPA2 keys using Aircrack-ng. This volume arms you with the techniques and knowledge needed to assess Wi-Fi vulnerabilities and enhance network security. Book 4 - Kismet and Wireshark: Advanced Wireless Network Analysis Ready to become a wireless network analysis expert? Kismet and Wireshark takes you on an

advanced journey. Learn passive and active reconnaissance, wireless packet capture, traffic analysis, and how to detect and respond to wireless attacks. This volume is your guide to mastering complex wireless network assessments. Why Choose the Wireless Exploits and Countermeasures Bundle? · Comprehensive Coverage: Covering wireless security from beginner to advanced levels. · Ethical Hacking: Emphasizing responsible security practices. · Practical Skills: Equipping you with real-world tools and techniques. · Protect Your Networks: Shield your data, devices, and networks from threats. · Ongoing Learning: Stay ahead in the ever-evolving world of wireless security. Unlock the Power of Wireless Security Today! Don't miss this opportunity to embark on a journey through the exciting realm of wireless security. Arm yourself with the skills to protect your digital world. Whether you're a newcomer or an experienced professional, this bundle has something for everyone. Secure your copy of the Wireless Exploits and Countermeasures book bundle now and become a wireless security expert!

OSINT Cracking Tools Rob Botwright,101-01-01 Introducing the OSINT Cracking Tools Book Bundle Unlock the Power of OSINT with Four Comprehensive Guides Are you ready to dive into the world of Open Source Intelligence (OSINT) and take your investigative skills to new heights? Look no further than the OSINT Cracking Tools book bundle, where we present four essential guides that will equip you with the knowledge and expertise needed to excel in the dynamic field of OSINT. Book 1 - Mastering OSINT with Maltego: CLI Commands for

Beginners to Experts Discover the versatility of Maltego and harness its full potential with command-line interface (CLI) commands. Whether you're a novice or an expert, this book will guide you through basic entity transformations, advanced graphing techniques, and scripting for automation. By the end, you'll be a Maltego CLI master, ready to tackle OSINT investigations with confidence. Book 2 - Harnessing Shodan: CLI Techniques for OSINT Professionals Unleash the power of Shodan, the search engine for internet-connected devices. This guide takes you through setting up your Shodan CLI environment, performing basic and advanced searches, and monitoring devices and services. Real-world case studies will deepen your understanding, making you a Shodan CLI pro in no time. Book 3 - Aircrack-ng Unleashed: Advanced CLI Mastery in OSINT Investigations Explore the world of wireless security assessments with Aircrack-ng. From capturing and analyzing wireless packets to cracking WEP and WPA/WPA2 encryption, this book covers it all. Advanced Wi-Fi attacks, evading detection, and real-world OSINT investigations will transform you into an Aircrack-ng expert, capable of securing networks and uncovering vulnerabilities. Book 4 - Recon-ng Command Line Essentials: From Novice to OSINT Pro Dive into reconnaissance with Recon-ng, an open-source tool that's essential for OSINT professionals. This guide walks you through setting up your Recon-ng CLI environment, executing basic reconnaissance commands, and advancing to data gathering and analysis. Automation, scripting, and real-world OSINT investigations will elevate your skills to

pro level. Why Choose the OSINT Cracking Tools Book Bundle? · Comprehensive Coverage: Each book provides in-depth coverage of its respective OSINT tool, ensuring you have a complete understanding of its capabilities. · Suitable for All Levels: Whether you're a beginner or an experienced OSINT practitioner, our guides cater to your expertise level. · Real-World Case Studies: Gain practical insights through real-world case studies that demonstrate the tools' applications. · Automation and Scripting: Learn how to automate repetitive tasks and enhance your efficiency in OSINT investigations. · Secure Networks: Enhance your skills in securing wireless networks and identifying vulnerabilities. With the OSINT Cracking Tools book bundle, you'll be equipped with a formidable arsenal of skills and knowledge that will set you apart in the world of OSINT. Whether you're pursuing a career in cybersecurity, intelligence, or simply want to enhance your investigative abilities, this bundle is your key to success. Don't miss this opportunity to become an OSINT expert with the OSINT Cracking Tools book bundle. Grab your copy now and embark on a journey towards mastering the art of open-source intelligence.

Kali Linux Wireless Penetration Testing Essentials Marco Alamanni,2015-07-30 Kali Linux is the most popular distribution dedicated to penetration testing that includes a set of free, open source tools. This book introduces you to wireless penetration testing and describes how to conduct its various phases. After showing you how to install Kali Linux on your

laptop, you will verify the requirements of the wireless adapter and configure it. Next, the book covers the wireless LAN reconnaissance phase, explains the WEP and WPA/WPA2 security protocols and demonstrates practical attacks against them using the tools provided in Kali Linux, Aircrack-ng in particular. You will then discover the advanced and latest attacks targeting access points and wireless clients and learn how to create a professionally written and effective report.

Developing a hacker's mindset Rajat Dey, Dr. Panem Charanarur, Dr. G. Srinivasa Rao,2023-10-21 Greetings, I'm Rajat Dey, hailing from the enchanting region of Northeast Tripura, and I'm currently a student in the 11th grade at Umakanta Academy. Today, I'm thrilled to share the news that my debut book, Developing a Hacker's Mindset, has just been published. Within the pages of this book, I delve into the intricate worlds of cybersecurity and development, highlighting the symbiotic relationship between the two. In the ever-evolving landscape of technology, it's essential for aspiring programmers, developers, and even ethical hackers to comprehend both the defensive and offensive facets of their craft. Understanding the offensive side of things equips us with the insight needed to fortify our digital fortresses. After all, how can we adequately protect ourselves if we remain oblivious to the various types of attacks, their impact, and their inner workings?Conversely, a deep understanding of the development side empowers us to tackle challenges independently and shields us from deceit. Moreover, it

encourages us to venture into uncharted territory, fostering creative problem-solving, reverse engineering, and innovation. This dual knowledge also opens doors to developing sophisticated security measures.It's akin to a continuous, intertwined circle. As a developer, comprehending how to build servers and encryption systems is invaluable, as it enables us to deconstruct and explore their inner workings. Simultaneously, thinking like a hacker, scrutinizing every aspect through their lens, unveils vulnerabilities in our code and projects, paving the way for more secure and resilient solutions. In essence, it's a cyclical journey, where technology and cybersecurity are inseparable. Companies worldwide are constantly evolving to secure their applications, driving the growth of the cybersecurity field. With each update in technology, the significance of cybersecurity only deepens, creating an unbreakable bond between the realms of tech and cyber.

Linux Basics for Hackers OccupyTheWeb,2018-12-04 This practical, tutorial-style book uses the Kali Linux distribution to teach Linux basics with a focus on how hackers would use them. Topics include Linux command line basics, filesystems, networking, BASH basics, package management, logging, and the Linux kernel and drivers. If you're getting started along the exciting path of hacking, cybersecurity, and pentesting, Linux Basics for Hackers is an excellent first step. Using Kali Linux, an advanced penetration testing distribution of Linux, you'll learn the basics of using the Linux operating system and acquire the tools and techniques you'll need to take

control of a Linux environment. First, you'll learn how to install Kali on a virtual machine and get an introduction to basic Linux concepts. Next, you'll tackle broader Linux topics like manipulating text, controlling file and directory permissions, and managing user environment variables. You'll then focus in on foundational hacking concepts like security and anonymity and learn scripting skills with bash and Python. Practical tutorials and exercises throughout will reinforce and test your skills as you learn how to: - Cover your tracks by changing your network information and manipulating the rsyslog logging utility - Write a tool to scan for network connections, and connect and listen to wireless networks - Keep your internet activity stealthy using Tor, proxy servers, VPNs, and encrypted email - Write a bash script to scan open ports for potential targets - Use and abuse services like MySQL, Apache web server, and OpenSSH - Build your own hacking tools, such as a remote video spy camera and a password cracker Hacking is complex, and there is no single way in. Why not start at the beginning with Linux Basics for Hackers?

The OSINT Handbook Dale Meredith,2024-03-29 Explore top open-source Intelligence (OSINT) tools, build threat intelligence, and create a resilient cyber defense against evolving online threats Key Features Explore some of the best open-source intelligence tools such as Maltego, Shodan, and Aircrack-ng Develop an OSINT-driven threat intelligence program to mitigate cyber risks Leverage the power of information through OSINT with real-world

case studies Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionThe rapid expansion of IT and digital businesses has brought along a surge in online threats, amplifying cybersecurity risks and the need for effective solutions. Enter the OSINT framework, a pivotal ally, enabling organizations with a powerful toolset to proactively fortify security measures. The OSINT Handbook offers practical guidance and insights to enhance your OSINT capabilities. Starting with an introduction to the concept of OSINT, this book explores its applications and the legal and ethical considerations associated with OSINT research. You'll find essential techniques for gathering and analyzing information using search engines, social media platforms, and other web-based resources. As you advance, this book emphasizes anonymity and techniques for secure browsing, managing digital footprints, and creating online personas. You'll also gain hands-on experience with popular OSINT tools such as Recon-ng, Maltego, Shodan, and Aircrack-ng, and leverage OSINT to mitigate cyber risks with expert strategies that enhance threat intelligence efforts. Real-world case studies will illustrate the role of OSINT in anticipating, preventing, and responding to cyber threats. By the end of this book, you'll be equipped with the knowledge and tools to confidently navigate the digital landscape and unlock the power of information using OSINT.What you will learn Work with real-life examples of OSINT in action and discover best practices Automate OSINT collection and analysis Harness social media data for OSINT purposes Manage

your digital footprint to reduce risk and maintain privacy Uncover and analyze hidden information within documents Implement an effective OSINT-driven threat intelligence program Leverage OSINT techniques to enhance organizational security Who this book is for This book is for ethical hackers and security professionals who want to expand their cybersecurity knowledge and stay one step ahead of online threats by gaining comprehensive insights into OSINT tools and techniques. Basic knowledge of cybersecurity concepts is required.

Social Engineering Penetration Testing Gavin Watson,Andrew Mason,Richard Ackroyd,2014-04-11 Social engineering attacks target the weakest link in an organization's security human beings. Everyone knows these attacks are effective, and everyone knows they are on the rise. Now, Social Engineering Penetration Testing gives you the practical methodology and everything you need to plan and execute a social engineering penetration test and assessment. You will gain fascinating insights into how social engineering techniques including email phishing, telephone pretexting, and physical vectors can be used to elicit information or manipulate individuals into performing actions that may aid in an attack. Using the book's easy-to-understand models and examples, you will have a much better understanding of how best to defend against these attacks. The authors of Social Engineering Penetration Testing show you hands-on techniques they have used at RandomStorm to provide clients with valuable results that make a real

difference to the security of their businesses. You will learn about the differences between social engineering pen tests lasting anywhere from a few days to several months. The book shows you how to use widely available open-source tools to conduct your pen tests, then walks you through the practical steps to improve defense measures in response to test results. Understand how to plan and execute an effective social engineering assessment Learn how to configure and use the open-source tools available for the social engineer Identify parts of an assessment that will most benefit time-critical engagements Learn how to design target scenarios, create plausible attack situations, and support various attack vectors with technology Create an assessment report, then improve defense measures in response to test results

Building a Pentesting Lab for Wireless Networks Vyacheslav Fadyushin,Andrey Popov,2016-03-28 Build your own secure enterprise or home penetration testing lab to dig into the various hacking techniques About This Book Design and build an extendable penetration testing lab with wireless access suitable for home and enterprise use Fill the lab with various components and customize them according to your own needs and skill level Secure your lab from unauthorized access and external attacks Who This Book Is For If you are a beginner or a security professional who wishes to learn to build a home or enterprise lab environment where you can safely practice penetration testing techniques and improve your hacking skills, then this book is for you. No prior penetration testing experience is required, as the lab environment is

suitable for various skill levels and is used for a wide range of techniques from basic to advance. Whether you are brand new to online learning or you are a seasoned expert, you will be able to set up your own hacking playground depending on your tasks. What You Will Learn Determine your needs and choose the appropriate lab components for them Build a virtual or hardware lab network Imitate an enterprise network and prepare intentionally vulnerable software and services Secure wired and wireless access to your lab Choose a penetration testing framework according to your needs Arm your own wireless hacking platform Get to know the methods to create a strong defense mechanism for your system In Detail Starting with the basics of wireless networking and its associated risks, we will guide you through the stages of creating a penetration testing lab with wireless access and preparing your wireless penetration testing machine. This book will guide you through configuring hardware and virtual network devices, filling the lab network with applications and security solutions, and making it look and work like a real enterprise network. The resulting lab protected with WPA-Enterprise will let you practice most of the attack techniques used in penetration testing projects. Along with a review of penetration testing frameworks, this book is also a detailed manual on preparing a platform for wireless penetration testing. By the end of this book, you will be at the point when you can practice, and research without worrying about your lab environment for every task. Style and approach This is an easy-to-follow guide full of hands-on

examples and recipes. Each topic is explained thoroughly and supplies you with the necessary configuration settings. You can pick the recipes you want to follow depending on the task you need to perform.

Penetration Tester's Open Source Toolkit Jeremy Faircloth,Chris Hurley,2007-11-16 Penetration testing a network requires a delicate balance of art and science. A penetration tester must be creative enough to think outside of the box to determine the best attack vector into his own network, and also be expert in using the literally hundreds of tools required to execute the plan. This second volume adds over 300 new pentesting applications included with BackTrack 2 to the pen tester's toolkit. It includes the latest information on Snort, Nessus, Wireshark, Metasploit, Kismet and all of the other major Open Source platforms. • Perform Network Reconnaissance Master the objectives, methodology, and tools of the least understood aspect of a penetration test. • Demystify Enumeration and Scanning Identify the purpose and type of the target systems, obtain specific information about the versions of the services that are running on the systems, and list the targets and services. • Hack Database Services Understand and identify common database service vulnerabilities, discover database services, attack database authentication mechanisms, analyze the contents of the database, and use the database to obtain access to the host operating system. • Test Web Servers and Applications Compromise the Web server due to vulnerabilities on the server daemon itself, its unhardened

state, or vulnerabilities within the Web applications. • Test Wireless Networks and Devices Understand WLAN vulnerabilities, attack WLAN encryption, master information gathering tools, and deploy exploitation tools. • Examine Vulnerabilities on Network Routers and Switches Use Traceroute, Nmap, ike-scan, Cisco Torch, Finger, Nessus, onesixtyone, Hydra, Ettercap, and more to attack your network devices. • Customize BackTrack 2 Torque BackTrack 2 for your specialized needs through module management, unique hard drive installations, and USB installations. • Perform Forensic Discovery and Analysis with BackTrack 2 Use BackTrack in the field for forensic analysis, image acquisition, and file carving. • Build Your Own PenTesting Lab Everything you need to build your own fully functional attack lab.

Penetration Testing Bootcamp Jason Beltrame,2017-06-28 Sharpen your pentesting skill in a bootcamp About This Book Get practical demonstrations with in-depth explanations of complex security-related problems Familiarize yourself with the most common web vulnerabilities Get step-by-step guidance on managing testing results and reporting Who This Book Is For This book is for IT security enthusiasts and administrators who want to understand penetration testing quickly. What You Will Learn Perform different attacks such as MiTM, and bypassing SSL encryption Crack passwords and wireless network keys with brute-forcing and wordlists Test web applications for vulnerabilities Use the Metasploit Framework to launch exploits and write your own Metasploit modules Recover lost files, investigate successful hacks,

and discover hidden data Write organized and effective penetration testing reports In Detail Penetration Testing Bootcamp delivers practical, learning modules in manageable chunks. Each chapter is delivered in a day, and each day builds your competency in Penetration Testing. This book will begin by taking you through the basics and show you how to set up and maintain the C&C Server. You will also understand how to scan for vulnerabilities and Metasploit, learn how to setup connectivity to a C&C server and maintain that connectivity for your intelligence gathering as well as offsite processing. Using TCPDump filters, you will gain understanding of the sniffing and spoofing traffic. This book will also teach you the importance of clearing up the tracks you leave behind after the penetration test and will show you how to build a report from all the data obtained from the penetration test. In totality, this book will equip you with instructions through rigorous tasks, practical callouts, and assignments to reinforce your understanding of penetration testing. Style and approach This book is delivered in the form of a 10-day boot camp style book. The day-by-day approach will help you get to know everything about penetration testing, from the use of network reconnaissance tools, to the writing of custom zero-day buffer overflow exploits.

Applied Network Security Arthur Salmon,Warun Levesque,Michael McLafferty,2017-04-28 Master the art of detecting and averting advanced network security attacks and techniques About This Book Deep dive into the

advanced network security attacks and techniques by leveraging tools such as Kali Linux 2, MetaSploit, Nmap, and Wireshark Become an expert in cracking WiFi passwords, penetrating anti-virus networks, sniffing the network, and USB hacks This step-by-step guide shows you how to confidently and quickly detect vulnerabilities for your network before the hacker does Who This Book Is For This book is for network security professionals, cyber security professionals, and Pentesters who are well versed with fundamentals of network security and now want to master it. So whether you're a cyber security professional, hobbyist, business manager, or student aspiring to becoming an ethical hacker or just want to learn more about the cyber security aspect of the IT industry, then this book is definitely for you. What You Will Learn Use SET to clone webpages including the login page Understand the concept of Wi-Fi cracking and use PCAP file to obtain passwords Attack using a USB as payload injector Familiarize yourself with the process of trojan attacks Use Shodan to identify honeypots, rogue access points, vulnerable webcams, and other exploits found in the database Explore various tools for wireless penetration testing and auditing Create an evil twin to intercept network traffic Identify human patterns in networks attacks In Detail Computer networks are increasing at an exponential rate and the most challenging factor organisations are currently facing is network security. Breaching a network is not considered an ingenious effort anymore, so it is very important to gain expertise in securing your network. The book

begins by showing you how to identify malicious network behaviour and improve your wireless security. We will teach you what network sniffing is, the various tools associated with it, and how to scan for vulnerable wireless networks. Then we'll show you how attackers hide the payloads and bypass the victim's antivirus. Furthermore, we'll teach you how to spoof IP / MAC address and perform an SQL injection attack and prevent it on your website. We will create an evil twin and demonstrate how to intercept network traffic. Later, you will get familiar with Shodan and Intrusion Detection and will explore the features and tools associated with it. Toward the end, we cover tools such as Yardstick, Ubertooth, Wifi Pineapple, and Alfa used for wireless penetration testing and auditing. This book will show the tools and platform to ethically hack your own network whether it is for your business or for your personal home Wi-Fi. Style and approach This mastering-level guide is for all the security professionals who are eagerly waiting to master network security skills and protecting their organization with ease. It contains practical scenarios on various network security attacks and will teach you how to avert these attacks.

Wireless Penetration Testing: Up and Running Dr. Ahmed Hashem El Fiky,2022-12-08 Examine, Attack, and Exploit Flaws and Vulnerabilities in Advanced Wireless Networks KEY FEATURES ● Extensive hands-on lab instructions in using Kali Linux to crack wireless networks. ● Covers the misconceptions, failures, and best practices that can help any pen tester come up with their

special cyber attacks. ● Extensive coverage of Android and iOS pentesting, as well as attacking techniques and simulated attack scenarios. DESCRIPTION This book satisfies any IT professional's desire to become a successful ethical hacker who is willing to be employed in identifying and exploiting flaws in the organization's network environment. This book explains in detail how to conduct wireless penetration tests using a wide variety of tools to simulate cyber attacks on both Android and iOS mobile devices and wireless networks. This book walks you through the steps of wireless penetration testing from start to finish. Once Kali Linux has been installed on your laptop, as demonstrated, you will check the system requirements and install the wireless adapter. The book then explores the wireless LAN reconnaissance phase, which outlines the WEP and WPA/WPA2 security protocols and shows real-world attacks against them using Kali Linux tools like Aircrack-ng. Then, the book discusses the most recent and sophisticated cyberattacks that target access points and wireless devices and how to prepare a compelling and professionally presented report. As a bonus, it removes myths, addresses misconceptions, and corrects common misunderstandings that can be detrimental to one's professional credentials. Tips and advice that are easy to implement and can increase their marketability as a pentester are also provided, allowing them to quickly advance toward a satisfying career in the field. WHAT YOU WILL LEARN ● Learn all about breaking the WEP security protocol and cracking authentication keys. ● Acquire the skills necessary to successfully

attack the WPA/WPA2 protocol. ● Compromise the access points and take full control of the wireless network. ● Bring your laptop up to speed by setting up Kali Linux and a wifi adapter. ● Identify security flaws and scan for open wireless LANs. ● Investigate the process and steps involved in wireless penetration testing. WHO THIS BOOK IS FOR This book is primarily for pentesters, mobile penetration testing users, cybersecurity analysts, security engineers, and all IT professionals interested in pursuing a career in cybersecurity. Before diving into this book, familiarity with network security fundamentals is recommended. TABLE OF CONTENTS 1. Wireless Penetration Testing Lab Setup 2. Wireless Attacking Techniques and Methods 3. Wireless Information Gathering and Footprinting 4. Wireless Vulnerability Research 5. Gain Access to Wireless Network 6. Wireless Vulnerability Assessment 7. Client-side Attacks 8. Advanced Wireless Attacks 9. Wireless Post-Exploitation 10. Android Penetration Testing 11. iOS Penetration Testing 12. Reporting

Seven Deadliest Wireless Technologies Attacks Brad Haines,2010-03-13 Seven Deadliest Wireless Technologies Attacks provides a comprehensive view of the seven different attacks against popular wireless protocols and systems. This book pinpoints the most dangerous hacks and exploits specific to wireless technologies, laying out the anatomy of these attacks, including how to make your system more secure. You will discover the best ways to defend against these vicious hacks with step-by-step instruction and learn techniques to

make your computer and network impenetrable. Each chapter includes an example real attack scenario, an analysis of the attack, and methods for mitigating the attack. Common themes will emerge throughout the book, but each wireless technology has its own unique quirks that make it useful to attackers in different ways, making understanding all of them important to overall security as rarely is just one wireless technology in use at a home or office. The book contains seven chapters that cover the following: infrastructure attacks, client attacks, Bluetooth attacks, RFID attacks; and attacks on analog wireless devices, cell phones, PDAs, and other hybrid devices. A chapter deals with the problem of bad encryption. It demonstrates how something that was supposed to protect communications can end up providing less security than advertised. This book is intended for information security professionals of all levels, as well as wireless device developers and recreational hackers. Attacks detailed in this book include: 802.11 Wireless—Infrastructure Attacks 802.11 Wireless—Client Attacks Bluetooth Attacks RFID Attacks Analog Wireless Device Attacks Bad Encryption Attacks on Cell Phones, PDAs and Other Hybrid Devices

Emerging Technologies in Computing Mahdi H. Miraz,Peter Excell,Andrew Ware,Safeeullah Soomro,Maaruf Ali,2018-07-20 This book constitutes the refereed conference proceedings of the First International Conference on Emerging Technologies in Computing, iCEtiC 2018, held in London, UK, in August 2018. The 26 revised full papers were reviewed and selected from more

than 59 submissions and are organized in topical sections covering Cloud, IoT and distributed computing, software engineering, communications engineering and vehicular technology, AI, expert systems and big data analytics, Web information systems and applications, security, database system, economics and business engineering, mLearning and eLearning.

Kali Linux 2 – Assuring Security by Penetration Testing Gerard Johansen,Lee Allen,Tedi Heriyanto,Shakeel Ali,2016-09-22 Achieve the gold standard in penetration testing with Kali using this masterpiece, now in its third edition! About This Book Get a rock-solid insight into penetration testing techniques and test your corporate network against threats like never before Formulate your pentesting strategies by relying on the most up-to-date and feature-rich Kali version in town—Kali Linux 2 (aka Sana). Experience this journey with new cutting-edge wireless penetration tools and a variety of new features to make your pentesting experience smoother Who This Book Is For If you are an IT security professional or a student with basic knowledge of Unix/Linux operating systems, including an awareness of information security factors, and you want to use Kali Linux for penetration testing, this book is for you. What You Will Learn Find out to download and install your own copy of Kali Linux Properly scope and conduct the initial stages of a penetration test Conduct reconnaissance and enumeration of target networks Exploit and gain a foothold on a target system or network Obtain and crack passwords Use the Kali Linux NetHunter install to conduct wireless penetration testing

Create proper penetration testing reports In Detail Kali Linux is a comprehensive penetration testing platform with advanced tools to identify, detect, and exploit the vulnerabilities uncovered in the target network environment. With Kali Linux, you can apply appropriate testing methodology with defined business objectives and a scheduled test plan, resulting in a successful penetration testing project engagement. Kali Linux – Assuring Security by Penetration Testing is a fully focused, structured book providing guidance on developing practical penetration testing skills by demonstrating cutting-edge hacker tools and techniques with a coherent, step-by-step approach. This book offers you all of the essential lab preparation and testing procedures that reflect real-world attack scenarios from a business perspective, in today's digital age. Style and approach This practical guide will showcase penetration testing through cutting-edge tools and techniques using a coherent, step-by-step approach.

Kali Linux 2018: Assuring Security by Penetration Testing Shiva V. N. Parasram,Alex Samm,Damian Boodoo,Gerard Johansen,Lee Allen,Tedi Heriyanto,Shakeel Ali,2018-10-26 Achieve the gold standard in penetration testing with Kali using this masterpiece, now in its fourth edition Key FeaturesRely on the most updated version of Kali to formulate your pentesting strategiesTest your corporate network against threatsExplore new cutting-edge wireless penetration tools and featuresBook Description Kali Linux is a comprehensive penetration testing platform with advanced tools to identify,

detect, and exploit the vulnerabilities uncovered in the target network environment. With Kali Linux, you can apply the appropriate testing methodology with defined business objectives and a scheduled test plan, resulting in successful penetration testing project engagement. This fourth edition of Kali Linux 2018: Assuring Security by Penetration Testing starts with the installation of Kali Linux. You will be able to create a full test environment to safely practice scanning, vulnerability assessment, and exploitation. You'll explore the essentials of penetration testing by collecting relevant data on the target network with the use of several footprinting and discovery tools. As you make your way through the chapters, you'll focus on specific hosts and services via scanning and run vulnerability scans to discover various risks and threats within the target, which can then be exploited. In the concluding chapters, you'll apply techniques to exploit target systems in order to gain access and find a way to maintain that access. You'll also discover techniques and tools for assessing and attacking devices that are not physically connected to the network, including wireless networks. By the end of this book, you will be able to use NetHunter, the mobile version of Kali Linux, and write a detailed report based on your findings. What you will learnConduct the initial stages of a penetration test and understand its scopePerform reconnaissance and enumeration of target networksObtain and crack passwordsUse Kali Linux NetHunter to conduct wireless penetration testingCreate proper penetration

testing reportsUnderstand the PCI-DSS framework and tools used to carry out segmentation scans and penetration testingCarry out wireless auditing assessments and penetration testingUnderstand how a social engineering attack such as phishing worksWho this book is for This fourth edition of Kali Linux 2018: Assuring Security by Penetration Testing is for pentesters, ethical hackers, and IT security professionals with basic knowledge of Unix/Linux operating systems. Prior knowledge of information security will help you understand the concepts in this book

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