

Michael McPhee, Jason Beltrame

Penetration Testing with Raspberry Pi

Second Edition

Learn the art of building a low-cost, portable hacking arsenal using Raspberry Pi 3 and Kali Linux 2



Packt>

Penetration Testing With Raspberry Pi

Michael McPhee, Jason Beltrame



Penetration Testing With Raspberry Pi:

Penetration Testing with Raspberry Pi - Second Edition Michael McPhee, Jason Beltrame, 2016-11-28 Learn the art of building a low cost portable hacking arsenal using Raspberry Pi 3 and Kali Linux 2 About This Book Quickly turn your Raspberry Pi 3 into a low cost hacking tool using Kali Linux 2 Protect your confidential data by deftly preventing various network security attacks Use Raspberry Pi 3 as honeypots to warn you that hackers are on your wire Who This Book Is For If you are a computer enthusiast who wants to learn advanced hacking techniques using the Raspberry Pi 3 as your pentesting toolbox then this book is for you Prior knowledge of networking and Linux would be an advantage What You Will Learn Install and tune Kali Linux 2 on a Raspberry Pi 3 for hacking Learn how to store and offload pentest data from the Raspberry Pi 3 Plan and perform man in the middle attacks and bypass advanced encryption techniques Compromise systems using various exploits and tools using Kali Linux 2 Bypass security defenses and remove data off a target network Develop a command and control system to manage remotely placed Raspberry Pis Turn a Raspberry Pi 3 into a honeypot to capture sensitive information In Detail This book will show you how to utilize the latest credit card sized Raspberry Pi 3 and create a portable low cost hacking tool using Kali Linux 2 You ll begin by installing and tuning Kali Linux 2 on Raspberry Pi 3 and then get started with penetration testing You will be exposed to various network security scenarios such as wireless security scanning network packets in order to detect any issues in the network and capturing sensitive data You will also learn how to plan and perform various attacks such as man in the middle password cracking bypassing SSL encryption compromising systems using various toolkits and many more Finally you ll see how to bypass security defenses and avoid detection turn your Pi 3 into a honeypot and develop a command and control system to manage a remotely placed Raspberry Pi 3 By the end of this book you will be able to turn Raspberry Pi 3 into a hacking arsenal to leverage the most popular open source toolkit Kali Linux 2 0 Style and approach This concise and fast paced guide will ensure you get hands on with penetration testing right from the start You will quickly install the powerful Kali Linux 2 on your Raspberry Pi 3 and then learn how to use and conduct fundamental penetration techniques and attacks [Penetration Testing with Raspberry Pi](#) Aamir Lakhani, Joseph Muniz, 2015-01-27 If you are looking for a low budget small form factor remotely accessible hacking tool then the concepts in this book are ideal for you If you are a penetration tester who wants to save on travel costs by placing a low cost node on a target network you will save thousands by using the methods covered in this book You do not have to be a skilled hacker or programmer to use this book It will be beneficial to have some networking experience however it is not required to follow the concepts covered in this book [Penetration Testing with Raspberry Pi](#) Michael McPhee, Jason Beltrame, 2016-11-30 Learn the art of building a low cost portable hacking arsenal using Raspberry Pi 3 and Kali Linux 2 About This Book Quickly turn your Raspberry Pi 3 into a low cost hacking tool using Kali Linux 2 Protect your confidential data by deftly preventing various network security attacks Use Raspberry Pi 3 as honeypots to warn you that hackers are on your wire Who This Book Is For If

you are a computer enthusiast who wants to learn advanced hacking techniques using the Raspberry Pi 3 as your pentesting toolbox then this book is for you Prior knowledge of networking and Linux would be an advantage What You Will Learn

- Install and tune Kali Linux 2 on a Raspberry Pi 3 for hacking
- Learn how to store and offload pentest data from the Raspberry Pi 3
- Plan and perform man in the middle attacks and bypass advanced encryption techniques
- Compromise systems using various exploits and tools using Kali Linux 2
- Bypass security defenses and remove data off a target network
- Develop a command and control system to manage remotely placed Raspberry Pis
- Turn a Raspberry Pi 3 into a honeypot to capture sensitive information

In Detail This book will show you how to utilize the latest credit card sized Raspberry Pi 3 and create a portable low cost hacking tool using Kali Linux 2 You ll begin by installing and tuning Kali Linux 2 on Raspberry Pi 3 and then get started with penetration testing You will be exposed to various network security scenarios such as wireless security scanning network packets in order to detect any issues in the network and capturing sensitive data You will also learn how to plan and perform various attacks such as man in the middle password cracking bypassing SSL encryption compromising systems using various toolkits and many more Finally you ll see how to bypass security defenses and avoid detection turn your Pi 3 into a honeypot and develop a command and control system to manage a remotely placed Raspberry Pi 3 By the end of this book you will be able to turn Raspberry Pi 3 into a hacking arsenal to leverage the most popular open source toolkit Kali Linux 2 0

Style and approach This concise and fast paced guide will ensure you get hands on with penetration testing right from the start You will quickly install the powerful Kali Linux 2 on your Raspberry Pi 3 and then learn how to use and conduct fundamental penetration techniques and attacks

Penetration Testing with Raspberry Pi Joseph Muniz,Aamir Lakhani,2015-01-27 If you are looking for a low budget small form factor remotely accessible hacking tool then the concepts in this book are ideal for you If you are a penetration tester who wants to save on travel costs by placing a low cost node on a target network you will save thousands by using the methods covered in this book You do not have to be a skilled hacker or programmer to use this book It will be beneficial to have some networking experience however it is not required to follow the concepts covered in this book

Security Testing with Raspberry Pi Daniel W Dieterle,2019-06-25 Security Testing with Raspberry PiWant to know how to run Kali Linux on a Raspberry Pi Trying to learn Ethical Hacking on a budget Want to learn how to make cheap drop boxes Or how to use a Raspberry Pi as a HiD attack device or for Physical Security Look no further this book is for you

Topics Include Using Kali Linux and Kali Pi on an RPi Using Ethical Hacking tools in Raspbian Using Raspberry Pi as a target in a Pentest lab Using RPi as a USB HiD attack device Using cameras on a RPi to create physical security devicesAnd much much more

Mastering Kali Linux Wireless Pentesting Jilumudi Raghu Ram,Brian Sak,2016-02-25 Test your wireless network s security and master advanced wireless penetration techniques using Kali Linux

About This Book Develop your skills using attacks such as wireless cracking Man in the Middle and Denial of Service DOS as well as extracting sensitive information from wireless networks Perform advanced wireless assessment and penetration tests

Use Embedded Platforms Raspberry Pi and Android in wireless penetration testing with Kali Linux Who This Book Is For If you are an intermediate level wireless security consultant in Kali Linux and want to be the go to person for Kali Linux wireless security in your organisation then this is the book for you Basic understanding of the core Kali Linux concepts is expected What You Will Learn Fingerprint wireless networks with the various tools available in Kali Linux Learn various techniques to exploit wireless access points using CSRF Crack WPA WPA2 WPS and crack wireless encryption using Rainbow tables more quickly Perform man in the middle attack on wireless clients Understand client side attacks browser exploits Java vulnerabilities and social engineering Develop advanced sniffing and PCAP analysis skills to extract sensitive information such as DOC XLS and PDF documents from wireless networks Use Raspberry Pi and OpenWrt to perform advanced wireless attacks Perform a DOS test using various techniques and tools In Detail Kali Linux is a Debian based Linux distribution designed for digital forensics and penetration testing It gives access to a large collection of security related tools for professional security testing some of the major ones being Nmap Aircrack ng Wireshark and Metasploit This book will take you on a journey where you will learn to master advanced tools and techniques to conduct wireless penetration testing with Kali Linux You will begin by gaining an understanding of setting up and optimizing your penetration testing environment for wireless assessments Then the book will take you through a typical assessment from reconnaissance information gathering and scanning the network through exploitation and data extraction from your target You will get to know various ways to compromise the wireless network using browser exploits vulnerabilities in firmware web based attacks client side exploits and many other hacking methods You will also discover how to crack wireless networks with speed perform man in the middle and DOS attacks and use Raspberry Pi and Android to expand your assessment methodology By the end of this book you will have mastered using Kali Linux for wireless security assessments and become a more effective penetration tester and consultant Style and approach This book uses a step by step approach using real world attack scenarios to help you master the wireless penetration testing techniques

Security Testing with Raspberry Pi, Second Edition Daniel W Dieterle, 2022-10-07 Security Testing with Raspberry Pi Second Edition Want to know how to run Kali Linux on a Raspberry Pi Trying to learn Ethical Hacking on a budget Want to learn how to make cheap drop boxes Or how to use a Raspberry Pi as a HiD attack device or for Physical Security Look no further this book is for you Topics Include Creating a Security Testing Lab Using Ethical Hacking tools in Raspberry Pi OS Using Kali Linux on a Raspberry Pi Using Raspberry Pi for Command Control C2 Scanning and Web App Security Testing with a Pi Using RPi as a USB HiD attack device Using cameras on a RPi to create physical security devices And much much more Completely updated and revised Now includes the Pi 400 Pi 0W2 and CM4

Mastering Kali Linux for Web Penetration Testing Michael McPhee, 2017-06-28 Master the art of exploiting advanced web penetration techniques with Kali Linux 2016 2 About This Book Make the most out of advanced web pen testing techniques using Kali Linux 2016 2 Explore how Stored a k a Persistent XSS attacks work and how to take

advantage of them Learn to secure your application by performing advanced web based attacks Bypass internet security to traverse from the web to a private network Who This Book Is For This book targets IT pen testers security consultants and ethical hackers who want to expand their knowledge and gain expertise on advanced web penetration techniques Prior knowledge of penetration testing would be beneficial What You Will Learn Establish a fully featured sandbox for test rehearsal and risk free investigation of applications Enlist open source information to get a head start on enumerating account credentials mapping potential dependencies and discovering unintended backdoors and exposed information Map scan and spider web applications using nmap zenmap nikto arachni webscarab w3af and NetCat for more accurate characterization Proxy web transactions through tools such as Burp Suite OWASP s ZAP tool and Vega to uncover application weaknesses and manipulate responses Deploy SQL injection cross site scripting Java vulnerabilities and overflow attacks using Burp Suite websploit and SQLMap to test application robustness Evaluate and test identity authentication and authorization schemes and sniff out weak cryptography before the black hats do In Detail You will start by delving into some common web application architectures in use both in private and public cloud instances You will also learn about the most common frameworks for testing such as OWASP OGT version 4 and how to use them to guide your efforts In the next section you will be introduced to web pentesting with core tools and you will also see how to make web applications more secure through rigorous penetration tests using advanced features in open source tools The book will then show you how to better hone your web pentesting skills in safe environments that can ensure low risk experimentation with the powerful tools and features in Kali Linux that go beyond a typical script kiddie approach After establishing how to test these powerful tools safely you will understand how to better identify vulnerabilities position and deploy exploits compromise authentication and authorization and test the resilience and exposure applications possess By the end of this book you will be well versed with the web service architecture to identify and evade various protection mechanisms that are used on the Web today You will leave this book with a greater mastery of essential test techniques needed to verify the secure design development and operation of your customers web applications Style and approach An advanced level guide filled with real world examples that will help you take your web application s security to the next level by using Kali Linux 2016 2 **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

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

Hacking and Penetration Testing with Low Power Devices Philip Polstra,2014-09-02 Hacking and Penetration Testing with Low Power Devices shows you how to perform penetration tests using small low powered devices that are easily hidden and may be battery powered It shows how to use an army of devices costing less than you might spend on a laptop from distances of a mile or more Hacking and Penetration Testing with Low Power Devices shows how to use devices running

a version of The Deck a full featured penetration testing and forensics Linux distribution and can run for days or weeks on batteries due to their low power consumption Author Philip Polstra shows how to use various configurations including a device the size of a deck of cards that can easily be attached to the back of a computer While each device running The Deck is a full featured pen testing platform connecting systems together via 802 15 3 networking gives you even more power and flexibility This reference teaches you how to construct and power these devices install operating systems and fill out your toolbox of small low power devices with hundreds of tools and scripts from the book s companion website Hacking and Pen Testing with Low Power Devices puts all these tools into your hands and will help keep you at the top of your game performing cutting edge pen tests from anywhere in the world Understand how to plan and execute an effective penetration test using an army of low power devices Learn how to configure and use open source tools and easy to construct low power devices Leverage IEEE 802 15 4 networking to perform penetration tests from up to a mile away or use 802 15 4 gateways to perform pen tests from anywhere in the world Access penetration testing operating systems with hundreds of tools and scripts on the book s companion web site [The Official Raspberry Pi Projects Book Volume 1](#) The Makers of The MagPi magazine,2015-11-01 The Official Raspberry Pi projects book returns with inspirational projects detailed step by step guides and product reviews based around the phenomenon that is the Raspberry Pi See why educators and makers adore the credit card sized computer that can be used to make robots retro games consoles and even art In this volume of The Official Raspberry Pi Projects Book you ll Get involved with the amazing and very active Raspberry Pi community Be inspired by incredible projects made by other people Learn how to make with your Raspberry Pi with our tutorials Find out about the top kits and accessories for your Pi projects And much much more If this is your first time using a Raspberry Pi you ll also find some very helpful guides to get you started with your Raspberry Pi journey With millions of Raspberry Pi boards out in the wild that s millions more people getting into digital making and turning their dreams into a Pi powered reality Being so spoilt for choice though means that we ve managed to compile an incredible list of projects guides and reviews for you This book was written using an earlier version of Raspberry Pi OS Please use Raspberry Pi OS Legacy for full compatibility See magpi cc legacy for more information *Building Virtual Pentesting Labs for Advanced Penetration Testing* Kevin Cardwell,2016-08-30 Learn how to build complex virtual architectures that allow you to perform virtually any required testing methodology and perfect it About This Book Explore and build intricate architectures that allow you to emulate an enterprise network Test and enhance your security skills against complex and hardened virtual architecture Learn methods to bypass common enterprise defenses and leverage them to test the most secure environments Who This Book Is For While the book targets advanced penetration testing the process is systematic and as such will provide even beginners with a solid methodology and approach to testing You are expected to have network and security knowledge The book is intended for anyone who wants to build and enhance their existing professional security and penetration testing methods and skills What

You Will Learn Learning proven security testing and penetration testing techniques Building multi layered complex architectures to test the latest network designs Applying a professional testing methodology Determining whether there are filters between you and the target and how to penetrate them Deploying and finding weaknesses in common firewall architectures Learning advanced techniques to deploy against hardened environments Learning methods to circumvent endpoint protection controls In Detail Security flaws and new hacking techniques emerge overnight security professionals need to make sure they always have a way to keep With this practical guide learn how to build your own virtual pentesting lab environments to practice and develop your security skills Create challenging environments to test your abilities and overcome them with proven processes and methodologies used by global penetration testing teams Get to grips with the techniques needed to build complete virtual machines perfect for pentest training Construct and attack layered architectures and plan specific attacks based on the platforms you re going up against Find new vulnerabilities for different kinds of systems and networks and what these mean for your clients Driven by a proven penetration testing methodology that has trained thousands of testers Building Virtual Labs for Advanced Penetration Testing Second Edition will prepare you for participation in professional security teams Style and approach The book is written in an easy to follow format that provides a step by step process centric approach Additionally there are numerous hands on examples and additional references for readers who might want to learn even more The process developed throughout the book has been used to train and build teams all around the world as professional security and penetration testers

Mastering Kali Linux for Advanced Penetration Testing Vijay Kumar Velu,Robert Beggs,2019-01-30 A practical guide to testing your infrastructure security with Kali Linux the preferred choice of pentesters and hackers Key FeaturesEmploy advanced pentesting techniques with Kali Linux to build highly secured systemsDiscover various stealth techniques to remain undetected and defeat modern infrastructuresExplore red teaming techniques to exploit secured environmentBook Description This book takes you as a tester or security practitioner through the reconnaissance vulnerability assessment exploitation privilege escalation and post exploitation activities used by pentesters To start with you ll use a laboratory environment to validate tools and techniques along with an application that supports a collaborative approach for pentesting You ll then progress to passive reconnaissance with open source intelligence and active reconnaissance of the external and internal infrastructure You ll also focus on how to select use customize and interpret the results from different vulnerability scanners followed by examining specific routes to the target which include bypassing physical security and the exfiltration of data using a variety of techniques You ll discover concepts such as social engineering attacking wireless networks web services and embedded devices Once you are confident with these topics you ll learn the practical aspects of attacking user client systems by backdooring with fileless techniques followed by focusing on the most vulnerable part of the network directly attacking the end user By the end of this book you ll have explored approaches for carrying out advanced pentesting in tightly secured

environments understood pentesting and hacking techniques employed on embedded peripheral devices What you will learn Configure the most effective Kali Linux tools to test infrastructure security Employ stealth to avoid detection in the infrastructure being tested Recognize when stealth attacks are being used against your infrastructure Exploit networks and data systems using wired and wireless networks as well as web services Identify and download valuable data from target systems Maintain access to compromised systems Use social engineering to compromise the weakest part of the network the end users Who this book is for This third edition of Mastering Kali Linux for Advanced Penetration Testing is for you if you are a security analyst pentester ethical hacker IT professional or security consultant wanting to maximize the success of your infrastructure testing using some of the advanced features of Kali Linux Prior exposure of penetration testing and ethical hacking basics will be helpful in making the most out of this book

Kali Linux 2018: Windows Penetration Testing
Wolf Halton, Bo Weaver, 2018-10-25 Become the ethical hacker you need to be to protect your network Key Features Set up configure and run a newly installed Kali Linux 2018 xFootprint monitor and audit your network and investigate any ongoing infestations Customize Kali Linux with this professional guide so it becomes your pen testing toolkit Book Description

Microsoft Windows is one of the two most common OSes and managing its security has spawned the discipline of IT security Kali Linux is the premier platform for testing and maintaining Windows security Kali is built on the Debian distribution of Linux and shares the legendary stability of that OS This lets you focus on using the network penetration password cracking and forensics tools and not the OS This book has the most advanced tools and techniques to reproduce the methods used by sophisticated hackers to make you an expert in Kali Linux penetration testing You will start by learning about the various desktop environments that now come with Kali The book covers network sniffers and analysis tools to uncover the Windows protocols in use on the network You will see several tools designed to improve your average in password acquisition from hash cracking online attacks offline attacks and rainbow tables to social engineering It also demonstrates several use cases for Kali Linux tools like Social Engineering Toolkit and Metasploit to exploit Windows vulnerabilities Finally you will learn how to gain full system level access to your compromised system and then maintain that access By the end of this book you will be able to quickly pen test your system and network using easy to follow instructions and support images What you will learn Learn advanced set up techniques for Kali and the Linux operating system Understand footprinting and reconnaissance of networks Discover new advances and improvements to the Kali operating system Map and enumerate your Windows network Exploit several common Windows network vulnerabilities Attack and defeat password schemes on Windows Debug and reverse engineer Windows programs Recover lost files investigate successful hacks and discover hidden data Who this book is for If you are a working ethical hacker who is looking to expand the offensive skillset with a thorough understanding of Kali Linux then this is the book for you Prior knowledge about Linux operating systems BASH terminal and Windows command line would be highly beneficial

Selected Readings in Cybersecurity Young B. Choi, 2018-11-16 This

collection of papers highlights the current state of the art of cybersecurity It is divided into five major sections humans and information security security systems design and development security systems management and testing applications of information security technologies and outstanding cybersecurity technology development trends This book will mainly appeal to practitioners in the cybersecurity industry and college faculty and students in the disciplines of cybersecurity information systems information technology and computer science

Mastering Kali Linux for Advanced Penetration Testing Robert W. Beggs, 2014-06-24 This book provides an overview of the kill chain approach to penetration testing and then focuses on using Kali Linux to provide examples of how this methodology is applied in the real world After describing the underlying concepts step by step examples are provided that use selected tools to demonstrate the techniques If you are an IT professional or a security consultant who wants to maximize the success of your network testing using some of the advanced features of Kali Linux then this book is for you This book will teach you how to become an expert in the pre engagement management and documentation of penetration testing by building on your understanding of Kali Linux and wireless concepts

Improving your Penetration Testing Skills Gilberto Najera-Gutierrez, Juned Ahmed Ansari, Daniel Teixeira, Abhinav Singh, 2019-07-18 Evade antiviruses and bypass firewalls with the most widely used penetration testing frameworks Key Features Gain insights into the latest antivirus evasion techniques Set up a complete pentesting environment using Metasploit and virtual machines Discover a variety of tools and techniques that can be used with Kali Linux

Book Description Penetration testing or ethical hacking is a legal and foolproof way to identify vulnerabilities in your system With thorough penetration testing you can secure your system against the majority of threats This Learning Path starts with an in depth explanation of what hacking and penetration testing is You ll gain a deep understanding of classical SQL and command injection flaws and discover ways to exploit these flaws to secure your system You ll also learn how to create and customize payloads to evade antivirus software and bypass an organization s defenses Whether it s exploiting server vulnerabilities and attacking client systems or compromising mobile phones and installing backdoors this Learning Path will guide you through all this and more to improve your defense against online attacks By the end of this Learning Path you ll have the knowledge and skills you need to invade a system and identify all its vulnerabilities This Learning Path includes content from the following Packt products

- Web Penetration Testing with Kali Linux Third Edition by Juned Ahmed Ansari and Gilberto Najera Gutierrez
- Metasploit Penetration Testing Cookbook Third Edition by Abhinav Singh Monika Agarwal et al

What you will learn

- Build and analyze Metasploit modules in Ruby
- Integrate Metasploit with other penetration testing tools
- Use server side attacks to detect vulnerabilities in web servers and their applications
- Explore automated attacks such as fuzzing web applications
- Identify the difference between hacking a web application and network hacking
- Deploy Metasploit with the Penetration Testing Execution Standard PTES
- Use MSFvenom to generate payloads and backdoor files and create shellcode

Who this book is for This Learning Path is designed for security professionals web programmers and pentesters who

want to learn vulnerability exploitation and make the most of the Metasploit framework Some understanding of penetration testing and Metasploit is required but basic system administration skills and the ability to read code are a must

Hands-On Penetration Testing with Kali NetHunter Glen D. Singh, Sean-Philip Oriyano, 2019-02-28 Convert Android to a powerful pentesting platform Key Features Get up and running with Kali Linux NetHunter Connect your Android device and gain full control over Windows OSX or Linux devices Crack Wi Fi passwords and gain access to devices connected over the same network collecting intellectual data Book Description Kali NetHunter is a version of the popular and powerful Kali Linux pentesting platform designed to be installed on mobile devices Hands On Penetration Testing with Kali NetHunter will teach you the components of NetHunter and how to install the software You ll also learn about the different tools included and how to optimize and use a package obtain desired results perform tests and make your environment more secure Starting with an introduction to Kali NetHunter you will delve into different phases of the pentesting process This book will show you how to build your penetration testing environment and set up your lab You will gain insight into gathering intellectual data exploiting vulnerable areas and gaining control over target systems As you progress through the book you will explore the NetHunter tools available for exploiting wired and wireless devices You will work through new ways to deploy existing tools designed to reduce the chances of detection In the concluding chapters you will discover tips and best practices for integrating security hardening into your Android ecosystem By the end of this book you will have learned to successfully use a mobile penetration testing device based on Kali NetHunter and Android to accomplish the same tasks you would traditionally but in a smaller and more mobile form factor What you will learn Choose and configure a hardware device to use Kali NetHunter Use various tools during pentests Understand NetHunter suite components Discover tips to effectively use a compact mobile platform Create your own Kali NetHunter enabled device and configure it for optimal results Learn to scan and gather information from a target Explore hardware adapters for testing and auditing wireless networks and Bluetooth devices Who this book is for Hands On Penetration Testing with Kali NetHunter is for pentesters ethical hackers and security professionals who want to learn to use Kali NetHunter for complete mobile penetration testing and are interested in venturing into the mobile domain Some prior understanding of networking assessment and Kali Linux will be helpful

Web Penetration Testing with Kali Linux Gilberto Najera-Gutierrez, Juned Ahmed Ansari, 2018-02-28 Build your defense against web attacks with Kali Linux including command injection flaws crypto implementation layers and web application security holes Key Features Know how to set up your lab with Kali Linux Discover the core concepts of web penetration testing Get the tools and techniques you need with Kali Linux Book Description Web Penetration Testing with Kali Linux Third Edition shows you how to set up a lab helps you understand the nature and mechanics of attacking websites and explains classical attacks in great depth This edition is heavily updated for the latest Kali Linux changes and the most recent attacks Kali Linux shines when it comes to client side attacks and fuzzing in particular From the start of the book you

ll be given a thorough grounding in the concepts of hacking and penetration testing and you ll see the tools used in Kali Linux that relate to web application hacking You ll gain a deep understanding of classicalSQL command injection flaws and the many ways to exploit these flaws Web penetration testing also needs a general overview of client side attacks which is rounded out by a long discussion of scripting and input validation flaws There is also an important chapter on cryptographic implementation flaws where we discuss the most recent problems with cryptographic layers in the networking stack The importance of these attacks cannot be overstated and defending against them is relevant to most internet users and of course penetration testers At the end of the book you ll use an automated technique called fuzzing to identify flaws in a web application Finally you ll gain an understanding of web application vulnerabilities and the ways they can be exploited using the tools in Kali Linux What you will learn Learn how to set up your lab with Kali Linux Understand the core concepts of web penetration testing Get to know the tools and techniques you need to use with Kali Linux Identify the difference between hacking a web application and network hacking Expose vulnerabilities present in web servers and their applications using server side attacks Understand the different techniques used to identify the flavor of web applications See standard attacks such as exploiting cross site request forgery and cross site scripting flaws Get an overview of the art of client side attacks Explore automated attacks such as fuzzing web applications Who this book is for Since this book sets out to cover a large number of tools and security fields it can work as an introduction to practical security skills for beginners in security In addition web programmers and also system administrators would benefit from this rigorous introduction to web penetration testing Basic system administration skills are necessary and the ability to read code is a must

Penetration Testing With Raspberry Pi Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Penetration Testing With Raspberry Pi**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://correiodobrasil.blogosfero.cc/data/book-search/Documents/Northern%20Delights%20Scandinavian%20Homes%20Interiors%20And%20Design.pdf>

Table of Contents Penetration Testing With Raspberry Pi

1. Understanding the eBook Penetration Testing With Raspberry Pi
 - The Rise of Digital Reading Penetration Testing With Raspberry Pi
 - Advantages of eBooks Over Traditional Books
2. Identifying Penetration Testing With Raspberry Pi
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from Penetration Testing With Raspberry Pi
 - Personalized Recommendations
 - Penetration Testing With Raspberry Pi User Reviews and Ratings

- Penetration Testing With Raspberry Pi and Bestseller Lists
- 5. Accessing Penetration Testing With Raspberry Pi Free and Paid eBooks
 - Penetration Testing With Raspberry Pi Public Domain eBooks
 - Penetration Testing With Raspberry Pi eBook Subscription Services
 - Penetration Testing With Raspberry Pi Budget-Friendly Options
- 6. Navigating Penetration Testing With Raspberry Pi eBook Formats
 - ePub, PDF, MOBI, and More
 - Penetration Testing With Raspberry Pi Compatibility with Devices
 - Penetration Testing With Raspberry Pi Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Penetration Testing With Raspberry Pi
 - Highlighting and Note-Taking Penetration Testing With Raspberry Pi
 - Interactive Elements Penetration Testing With Raspberry Pi
- 8. Staying Engaged with Penetration Testing With Raspberry Pi
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Penetration Testing With Raspberry Pi
- 9. Balancing eBooks and Physical Books Penetration Testing With Raspberry Pi
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Penetration Testing With Raspberry Pi
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Penetration Testing With Raspberry Pi
 - Setting Reading Goals Penetration Testing With Raspberry Pi
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Penetration Testing With Raspberry Pi
 - Fact-Checking eBook Content of Penetration Testing With Raspberry Pi
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Penetration Testing With Raspberry Pi Introduction

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