# Mastering Kali Linux For Advanced Penetration Testing Second Edition Secure Your Network With Kali Linux The Ultimate White Hat Hackers Toolkit

An immersive learning experience enhanced with technical, hands-on labs to understand the concepts, methods, tools, platforms, and systems required to master the art of cybersecurity Key Features Get hold of the best defensive security strategies and tools Develop a defensive security strategy at an enterprise level Get hands-on with advanced cybersecurity threat detection, including XSS, SQL injections, brute forcing web applications, and more Book Description Every organization has its own data and digital assets that need to be protected against an ever-growing threat landscape that compromises the availability, integrity, and confidentiality of crucial data. Therefore, it is important to train professionals in the latest defensive security skills and tools to secure them. Mastering Defensive Security provides you with in-depth knowledge of the latest cybersecurity threats along with the best tools and techniques needed to keep your infrastructure secure. The book begins by establishing a strong foundation of cybersecurity concepts and advances to explore the latest security technologies such as Wireshark, Damn Vulnerable Web App (DVWA), Burp Suite, OpenVAS, and Nmap, hardware threats such as a weaponized Raspberry Pi, and hardening techniques for Unix, Windows, web applications, and cloud infrastructures. As you make progress through the chapters, you'll get to grips with several advanced techniques such as malware analysis, security automation, computer forensics, and vulnerability assessment, which will help you to leverage pentesting for security. By the end of this book, you'll have become familiar with creating your own defensive security tools using IoT devices and developed advanced defensive security skills. What you will learn Become well versed with concepts related to defensive security Discover strategies and tools to secure the most vulnerable factor – the user Get hands-on experience using and configuring the best security tools Understand how to apply hardening techniques in Windows and Unix environments Leverage malware analysis and forensics to enhance your security strategy Secure Internet of Things (IoT) implementations Enhance the security of web applications and cloud deployments Who this book is for This book is for IT professionals, including systems administrators, programmers, IT architects, solution engineers, system analysts, data scientists, DBAs, and any IT expert looking to explore the fascinating world of cybersecurity. Cybersecurity professionals who want to broaden their knowledge of security topics to effectively create and design a defensive security strategy for a large organization will find this book useful. A basic understanding of concepts such as networking, IT, servers, virtualization, and cloud is required.

Hack your way to a secure and threat-free environment using best-in-class tools and techniques. About This Video A comprehensive but fast and friendly guide to help you Master Ethical Hacking. Covers the latest version of Ethical Hacking with fully up-to-date techniques and code examples Shows you how to secure your system and make it more robust. In Detail Security is the foremost concern for all organizations both big and small, and thus companies and people are ready to invest in enhanced security, pentesting, and Ethical Hacking. Security is a major issue that organizations are now facing. Cyber threats are on the increase with the rising growth of technology, thus giving rise to the need for ethical hacking and advanced security. This course takes your Ethical Hacking skills to the next level to help you address various security threats, whether in information, networks, and other security concerns. This course will start by showing you how to install Kali Linux on your system and how to work with it. The course will then show you how to gather information using different methods such as fingerprinting and open ports. The course will then help you check your system's vulnerability using Nessus and OpenVAS. You will then learn to exploit your vulnerability with different parameters to reveal all the gaps in your system. You'll then escalate privileges in your system to improve your design and program, and prevent password attacks using different methods. Finally, you will learn to prevent wireless attacks on your system. By the end of the course, you will be a Master of Ethical Hacking and will have learned to prevent unwanted hackers from hacking into your system.

Mastering Kali Linux for Advanced Penetration TestingPackt Publishing Ltd

this book Mastering Kali Linux for. Advanced Penetration Testing. A practical guide to testing your network's security with. Kali Linux, the preferred choice of penetration testers and hackers Kali Linux has not only become the information security professional's platform of choice, but evolved into an industrial-grade, and world-class operating system distribution--mature, secure, and enterprise-ready. Through the decade-long development process, Muts and his team, along with countless volunteers from the hacker community, have taken on the burden of streamlining and organizing our work environment, freeing us from much of the drudgery. They provided a secure and reliable foundation, allowing us to concentrate on securing our digital world. An amazing community has built up around Kali Linux. Every month, more than 300,000 of us download a version of Kali. We come together in online and real-world training rooms and grind through the sprawling Offensive Security Penetration Testing Labs, pursuing the near-legendary Offensive Security certifications. We come together on the Kali forums, some 40,000 strong, and hundreds of us at a time can be found on the Kali IRC channel. We gather at conferences and attend Kali Dojos to learn from the developers themselves how to best leverage Kali. However, the Kali team has never released an official Kali Linux manual, until now. In this book, we'll focus on the Kali Linux platform itself, and help you understand and maximize Kali from the ground up. The developers will walk you through Kali Linux features and fundamentals, provide a crash course in basic Linux commands and concepts, and then walk you through the most common Kali Linux installation scenarios. You'll learn how to configure, troubleshoot and secure Kali Linux and then dive into the powerful Debian package manager. Throughout this expansive section, you'll learn how to install and configure packages, how to update and upgrade your Kali installation, and how to create your own custom packages. Then you'll learn how to deploy your custom installation across massive enterprise networks. Finally, you'll be guided through advanced topics such as kernel compilation, custom ISO creation, industrial-strength encryption, and even how to install crypto kill switches to safeguard your sensitive information. Whether you're a veteran or an absolute n00b, this is the best place to start with Kali Linux, the security professional's platform of choice

If you are a Python programmer or a security researcher who has basic knowledge of

Python programming and want to learn about penetration testing with the help of Python, this book is ideal for you. Even if you are new to the field of ethical hacking, this book can help you find the vulnerabilities in your system so that you are ready to tackle any kind of attack or intrusion.

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.

Penetration Testers, 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.Some prior exposure to basics of penetration testing/ethical hacking would be helpful in making the most out of this title.This book will take you, as a tester or security practitioner through the journey of reconnaissance, vulnerability assessment, exploitation, and post-exploitation.

Kali Linux Network Scanning Cookbook is intended for information security professionals and casual security enthusiasts alike. It will provide the foundational principles for the novice reader but will also introduce scripting techniques and in-depth analysis for the more advanced audience. Whether you are brand new to Kali Linux or a seasoned veteran, this book will aid in both understanding and ultimately mastering many of the most powerful and useful scanning techniques in the industry. It is assumed that the reader has some basic security testing experience.

Do You Want To Become An Ethical Hacker? Start With Getting And Mastering The Right Tools! What comes to your mind when you hear the word hacker? Many people imagine an evil genius whose job is stealing top secrets from companies and governments, getting hold of everyone's credit card details, and secretly interfering in politics. But did you know that this is just one side of hacking? So-called ethical hackers (or white hat hackers) actually protect computers, networks, and websites by looking for vulnerabilities and fixing them. Companies who hire ethical hackers can pay them tens of thousands of dollars to find and fix a security problem! Ethical hacking isn't just a well-paid job. After all, it's very satisfying to know that you're helping protect the data of thousands, if not millions of people. Also, ethical hacker just sounds like an awesome job title. If you're excited about becoming an ethical hacker... here are some good news! You don't have to get a special degree or any formal qualification to start hacking. In this job, experience is what truly matters: once you've figured out how to start, you just have to practice and practice and practice and you'll ultimately become an accomplished cybersecurity expert! Well... but how do you start? Try these books. This unique book bundle focuses on the hacker's most important tools: Kali Linux (the ultimate operating system for hackers) and some of the more beginner-friendly tools for scanning networks and websites. You'll learn: -The surprising reason why hackers use Linux though most computers run Windows -How to install Kali Linux like a pro and avoid typical beginner mistakes -The very best software tools for both beginners and pro hackers -How to use search engines as hacking tools ...and much, much more Even if you don't have advanced tech skills right now, you can start hacking immediately. The beginner-friendly tools and step-by-step guides presented in the book will make it very easy! Are you ready to take your first step? Click on "Buy Now" and Get Your Copy Now!

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.

Written as an interactive tutorial, this book covers the core of Kali Linux with realworld examples and stepbystep instructions to provide professional guidelines and recommendations for you. The book is designed in a simple and intuitive manner that allows you to explore the whole Kali Linux testing process or study parts of it individually.If you are an IT security professional who has a basic knowledge of Unix/Linux operating systems, including an awareness of information security factors, and want to use Kali Linux for penetration testing, then this book is for you.

A practical guide to testing your network's security with Kali Linux, the preferred choice of penetration testers and hackers.About This Book* Employ advanced pentesting techniques with Kali Linux to build highly-secured systems* Get to grips with various stealth techniques to remain undetected and defeat the latest defenses and follow proven approaches* Select and configure the most effective tools from Kali Linux to test network security and prepare your business against malicious threats and save costsWho This Book Is ForPenetration Testers, 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.Some prior exposure to basics of penetration testing/ethical hacking would be helpful in making the most out of this title. What You Will Learn* Select and configure the most effective tools from Kali Linux to test network security* Employ stealth to avoid detection in the network being tested* Recognize when stealth attacks are being used against your network* 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 usersIn DetailThis book will take you, as a tester or security practitioner through the journey of reconnaissance, vulnerability assessment, exploitation, and post-exploitation activities used by penetration testers and hackers.We will start off by using a laboratory environment to validate tools and techniques, and using an application that supports a collaborative approach to penetration testing. Further we will get acquainted with passive reconnaissance with open source intelligence and active reconnaissance of the external and internal networks. We will also focus on how to select, use, customize, and interpret the results from a variety of different vulnerability scanners. Specific routes to the target will also be examined, including bypassing physical security and exfiltration of data using different techniques. You will also get to grips with concepts such as social engineering, attacking wireless networks, exploitation of web applications and remote access connections. Later you will learn the practical aspects of attacking user client systems by backdooring executable files. You will focus on the most vulnerable part of the network--directly and bypassing the controls, attacking the end user and maintaining persistence access through social media.You will also explore approaches to carrying out advanced penetration testing in tightly secured environments, and the book's hands-on approach will help you understand everything you need to know during a Red teaming exercise or penetration testingStyle and approachAn advanced level tutorial that follows a practical approach and proven methods to maintain top notch security of your networks.

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.

Secure your Linux machines and keep them secured with the help of exciting recipes About This Book This book provides code-intensive discussions with detailed recipes that help you understand better and learn faster. More than 50 hands-on recipes to create and administer a secure Linux system locally as well as on a network Enhance file system security and local and remote user authentication by using various security tools and different versions of Linux for different tasks Who This Book Is For Practical Linux Security Cookbook is intended for all those Linux users who already have knowledge of Linux File systems and administration. You should be familiar with basic Linux commands. Understanding Information security and its risks to a Linux system is also helpful in understanding the recipes more easily. However, even if you are unfamiliar with Information security, you will be able to easily follow and understand the recipes discussed. Since Linux Security Cookbook follows a practical approach, following the steps is very easy. What You Will Learn Learn about various vulnerabilities and exploits in relation to Linux systems Configure and build a secure kernel and test it Learn about file permissions and security and how to securely modify files Explore various ways to authenticate local users while monitoring their activities. Authenticate users remotely and securely copy files on remote systems Review various network security methods including firewalls using iptables and TCP Wrapper Explore various security tools including Port Sentry, Squid Proxy, Shorewall, and many more Understand Bash vulnerability/security and patch management In Detail With the growing popularity of Linux, more and more administrators have started moving to the system to create networks or servers for any task. This also makes Linux the first choice for any attacker now. Due to the lack of information about security-related attacks, administrators now face issues in dealing with these attackers as quickly as possible. Learning about the different types of Linux security will help create a more secure Linux system. Whether you are new to Linux administration or experienced, this book will provide you with the skills to make systems more secure. With lots of step-by-step recipes, the book starts by introducing you to various threats to Linux systems. You then get to walk through customizing the Linux kernel and securing local files. Next you will move on to manage user authentication locally and remotely and also mitigate network attacks. Finally, you will learn to patch bash vulnerability and monitor system logs for security. With several screenshots in each example, the book will supply a great learning experience and help you create more secure Linux systems. Style and approach An easy-to-follow cookbook with step-by-step practical recipes covering the various Linux security administration tasks. Each recipe has screenshots, wherever needed, to make understanding more easy.

Master the art of detecting and averting advanced network security attacks and techniquesAbout 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 doesWho This Book Is ForComputer 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.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 attacksIn DetailComputer 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.
Revised and updated to keep pace with this ever changing field, Security Strategies in Windows Platforms and Applications, Third Edition focuses on new risks, threats, and vulnerabilities associated with the Microsoft Windows operating system, placing a particular emphasis on Windows 10, and Windows Server 2016 and 2019. The Third Edition highlights how to use tools and techniques to decrease risks arising from vulnerabilities in Microsoft Windows operating systems and applications. The book also includes a resource for readers desiring more information on Microsoft Windows OS hardening, application security, and incident management. With its accessible writing style, and step-by-step examples, this must-have resource will ensure readers are educated on the latest Windows security strategies and techniques.
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A practical guide to testing your network's security with Kali Linux, the preferred choice of penetration testers and hackers. About This Book Employ advanced pentesting techniques with Kali Linux to build highly-secured systems Get to grips with various stealth techniques to remain undetected and defeat the latest defenses and follow proven approaches Select and configure the most effective tools from Kali Linux to test network security and prepare your business against malicious threats and save costs Who This Book Is For Penetration Testers, 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.Some prior exposure to basics of penetration testing/ethical hacking would be helpful in making the most out of this title. What You Will Learn Select and configure the most effective tools from Kali Linux to test network security Employ stealth to avoid detection in the network being tested Recognize when stealth attacks are being used against your network 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 In Detail This book will take you, as a tester or security practitioner through the journey of reconnaissance, vulnerability assessment, exploitation, and post-exploitation activities used by penetration testers and hackers. We will start off by using a laboratory environment to validate tools and techniques, and using an application that supports a collaborative approach to penetration testing. Further we will get acquainted with passive reconnaissance with open source intelligence and active reconnaissance of the external and internal networks. We will also focus on how to select, use, customize, and interpret the results from a variety of different vulnerability scanners. Specific routes to the target will also be examined, including bypassing physical security and exfiltration of data using different techniques. You will also get to grips with concepts such as social engineering, attacking wireless networks, exploitation of web

applications and remote access connections. Later you will learn the practical aspects of attacking user client systems by backdooring executable files. You will focus on the most vulnerable part of the network—directly and bypassing the controls, attacking the end user and maintaining persistence access through social media. You will also explore approaches to carrying out advanced penetration testing in tightly secured environments, and the book's hands-on approach will help you understand everything you need to know during a Red teaming exercise or penetration testing Style and approach An advanced level tutorial that follows a practical approach and proven methods to maintain top notch security of your networks.

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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 pocket 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.

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.

Master the art of conducting modern pen testing attacks and techniques on your web application before the hacker does! About This Book This book covers the latest technologies such as Advance XSS, XSRF, SQL Injection, Web API testing, XML attack vectors, OAuth 2.0 Security, and more involved in today's web applications Penetrate and secure your web application using various techniques Get this comprehensive reference guide that provides advanced tricks and tools of the trade for seasoned penetration testers Who This Book Is For This book is for security professionals and penetration testers who want to speed up their modern web application penetrating testing. It will also benefit those at an intermediate level and web developers who need to be aware of the latest application hacking techniques. What You Will Learn Get to know the new and less-publicized techniques such PHP Object Injection and XML-based vectors Work with different security tools to automate most of the redundant tasks See different kinds of newly-designed security headers and how they help to provide security Exploit and detect different kinds of XSS vulnerabilities Protect your web application using filtering mechanisms Understand old school and classic web hacking in depth using SQL Injection, XSS, and CSRF Grasp XML-related vulnerabilities and attack vectors such as XXE and DoS techniques Get to know how to test REST APIs to discover security issues in them In Detail Web penetration testing is a growing, fast-moving, and absolutely critical field in information security. This book executes modern web application attacks and utilises cutting-edge hacking techniques with an enhanced knowledge of web application security. We will cover web hacking techniques so you can explore the attack vectors during penetration tests. The book encompasses the latest technologies such as OAuth 2.0, Web API testing methodologies and XML vectors used by hackers. Some lesser discussed attack vectors such as RPO (relative path overwrite), DOM clobbering, PHP Object Injection and etc. has been covered in this book. We'll explain various old school techniques in depth such as XSS, CSRF, SQL Injection through the ever-dependable SQLMap and reconnaissance. Websites nowadays provide APIs to allow integration with third party applications, thereby exposing a lot of attack surface, we cover testing of these APIs using real-life examples. This pragmatic guide will be a great benefit and will help you prepare fully secure applications. Style and approach This master-level guide covers various techniques serially. It is power-packed with real-world examples that focus more on the practical aspects of implementing the techniques rather going into detailed theory.

Master the art of identifying vulnerabilities within the Windows OS and develop the desired solutions for it using Kali Linux. Key Features Identify the vulnerabilities in your system using Kali Linux 2018.02 Discover the art of exploiting Windows kernel drivers Get to know several bypassing techniques to gain control of your Windows environment Book Description Windows has always been the go-to platform for users around the globe to perform administration and ad hoc tasks, in settings that range from small offices to global enterprises, and this massive footprint makes securing Windows a unique challenge. This book will enable you to distinguish yourself to your clients. In this book, you'll learn advanced techniques to attack Windows environments from the indispensable toolkit that is Kali Linux. We'll work through core network hacking concepts and advanced Windows exploitation techniques, such as stack and heap overflows, precision heap spraying, and kernel exploitation, using coding principles that allow you to leverage powerful Python scripts and shellcode. We'll wrap up with post-exploitation strategies that enable you to go deeper and keep your access. Finally, we'll introduce kernel hacking fundamentals and fuzzing testing, so you can discover vulnerabilities and write custom exploits. By the end of this book, you'll be well-versed in identifying vulnerabilities within the Windows OS and developing the desired solutions for them. What you will learn Get to know advanced pen testing techniques with Kali Linux Gain an understanding of Kali Linux tools and methods from behind the scenes See how to use Kali Linux at an advanced level Understand the exploitation of Windows kernel drivers Understand advanced Windows concepts and protections, and how to bypass them using Kali Linux Discover Windows exploitation techniques, such as stack and heap overflows and kernel exploitation, through coding principles Who this book is for This book is for penetration testers, ethical hackers, and individuals breaking into the pentesting role after demonstrating an advanced skill in boot camps. Prior experience with Windows exploitation, Kali Linux, and some Windows debugging tools is necessary

Do You Want To Become An Ethical Hacker? Start With Getting And Mastering The Right Tools! What comes to your mind when you hear the word hacker? Many people imagine an evil genius whose job is stealing top secrets from companies and governments, getting hold of everyone's credit card details, and secretly interfering in politics. But did you know that this is just one side of hacking? So-called ethical hackers (or white hat hackers) actually protect computers, networks, and websites by looking for vulnerabilities and fixing them.

Companies who hire ethical hackers can pay them tens of thousands of dollars to find and fix a security problem! Ethical hacking isn't just a well-paid job. After all, it's very satisfying to know that you're helping protect the data of thousands, if not millions of people. Also, ethical hacker just sounds like an awesome job title. If you're excited about becoming an ethical hacker... here are some good news! You don't have to get a special degree or any formal qualification to start hacking. In this job, experience is what truly matters: once you've figured out how to start, you just have to practice and practice and practice and you'll ultimately become an accomplished cybersecurity expert! Well... but how do you start? Try these books. This unique book bundle focuses on the hacker's most important tools: Kali Linux (the ultimate operating system for hackers) and some of the more beginner-friendly tools for scanning networks and websites. You'll learn: The surprising reason why hackers use Linux though most computers run Windows How to install Kali Linux like a pro and avoid typical beginner mistakes The very best software tools for both beginners and pro hackers How to use search engines as hacking tools And much, much more Even if you don't have advanced tech skills right now, you can start hacking immediately. The beginner-friendly tools and step-by-step guides presented in the book will make it very easy! Are you ready to take your first step? Scroll up, click on "Buy Now with 1-Click", and Get Your Copy Now!

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WebRTC, Web Real-Time Communications, is revolutionizing the way web users communicate, both in the consumer and enterprise worlds. WebRTC adds standard APIs (Application Programming Interfaces) and built-in real-time audio and video capabilities and codecs to browsers without a plug-in. With just a few lines of JavaScript, web developers can add high quality peer-to-peer voice, video, and data channel communications to their collaboration, conferencing, telephony, or even gaming site or application. New for the Third Edition The third edition has an enhanced demo application which now shows the use of the data channel for real-time text sent directly between browsers. Also, a full description of the browser media negotiation process including actual SDP session descriptions from Firefox and Chrome. Hints on how to use Wireshark to monitor WebRTC protocols, and example captures are also included. TURN server support for NAT and firewall traversal is also new. This edition also features a step-by-step introduction to WebRTC, with concepts such as local media, signaling, and the Peer Connection introduced through separate runnable demos. Written by experts involved in the standardization effort, this book contains the most up to date discussion of WebRTC standards in W3C and IETF. Packed with figures, example code, and summary tables, this book is the ultimate WebRTC reference. Table of Contents 1 Introduction to Web Real-Time Communications 1.1 WebRTC Introduction1.2 Multiple Media Streams in WebRTC1.3 Multi-Party Sessions in WebRTC1.4 WebRTC Standards1.5 What is New in WebRTC1.6 Important Terminology Notes1.7 References2 How to Use

WebRTC2.1 Setting Up a WebRTC Session2.2 WebRTC Networking and Interworking Examples2.3 WebRTC Pseudo-Code Example2.4 References3 Local Media3.1 Media in WebRTC3.2 Capturing Local Media3.3 Media Selection and Control3.4 Media Streams Example3.5 Local Media Runnable Code Example4 Signaling4.1 The Role of Signaling4.2 Signaling Transport4.3 Signaling Protocols4.4 Summary of Signaling Choices4.5 Signaling Channel Runnable Code Example4.6 References5 Peer-to-Peer Media5.1 WebRTC Media Flows5.2 WebRTC and Network Address Translation (NAT)5.3 STUN Servers5.4 TURN Servers5.5 Candidates6 Peer Connection and Offer/Answer Negotiation6.1 Peer Connections6.2 Offer/Answer Negotiation6.3 JavaScript Offer/Answer Control6.4 Runnable Code Example: Peer Connection and Offer/Answer Negotiation7 Data Channel7.1 Introduction to the Data Channel7.2 Using Data Channels7.3 Data Channel Runnable Code Example7.3.1 Client WebRTC Application8 W3C Documents8.1 WebRTC API Reference8.2 WEBRTC Recommendations8.3 WEBRTC Drafts8.4 Related Work8.5 References9 NAT and Firewall Traversal9.1 Introduction to Hole Punching9.3 WebRTC and Firewalls9.3.1 WebRTC Firewall Traversal9.4 References10 Protocols10.1 Protocols10.2 WebRTC Protocol Overview10.3 References11 IETF Documents11.1 Request For Comments11.2 Internet-Drafts11.3 RTCWEB Working Group Internet-Drafts11.4 Individual Internet-Drafts11.5 RTCWEB Documents in Other Working Groups11.6 References12 IETF Related RFC Documents12.1 Real-time Transport Protocol12.2 Session Description Protocol12.3 NAT Traversal RFCs12.4 Codecs12.5 Signaling12.6 References13 Security and Privacy13.1 Browser Security Model13.2 New WebRTC Browser Attacks13.3 Communication Security13.4 Identity in WebRTC13.5 Enterprise Issues14 Implementations and UsesINDEXABOUT THE AUTHORS

Take your penetration testing and IT security skills to a whole new level with the secrets of Metasploit About This Book Gain the skills to carry out penetration testing in complex and highly-secured environments Become a master using the Metasploit framework, develop exploits, and generate modules for a variety of real-world scenarios Get this completely updated edition with new useful methods and techniques to make your network robust and resilient Who This Book Is For This book is a hands-on guide to penetration testing using Metasploit and covers its complete development. It shows a number of techniques and methodologies that will help you master the Metasploit framework and explore approaches to carrying out advanced penetration testing in highly secured environments. What You Will Learn Develop advanced and sophisticated auxiliary modules Port exploits from PERL, Python, and many more programming languages Test services such as databases, SCADA, and many more Attack the client side with highly advanced techniques Test mobile and tablet devices with Metasploit Perform social engineering with Metasploit Simulate attacks on web servers and systems with Armitage GUI Script attacks in Armitage using CORTANA scripting In Detail Metasploit is a popular penetration testing framework that has one of the largest exploit databases around. This book will show you exactly how to prepare yourself against the attacks you will face every day by simulating real-world possibilities. We start by reminding you about the basic functionalities of Metasploit and its use in the most traditional ways. You'll get to know about the basics of programming Metasploit modules as a refresher, and then dive into carrying out exploitation as well building and porting exploits of various kinds in Metasploit. In the next section, you'll develop the ability to perform testing on various services such as SCADA, databases, IoT, mobile, tablets, and many more services. After this training, we jump into real-world sophisticated scenarios where performing penetration tests are a challenge. With real-life case studies, we take you on a journey through client-side attacks using Metasploit and various scripts built on the Metasploit framework. By the end of the book, you will be trained specifically on time-saving techniques using Metasploit. Style and approach This is a step-by-step guide that provides great Metasploit framework methodologies. All the key concepts are explained details with the help of examples and demonstrations that will help you understand everything you need to know about Metasploit.

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.

You don't know Computer Programming and want to find out why so many people use it? Do you know that most computers in the world are perpetually exposed to Hacker attacks? Or do you already have knowledge about it but you need to solve some problems or remedy some gaps? Do you love working with Windows, Linux, and Microsoft options, but you also want to make sure that you are able to combine those programs and make them work with other operating systems and browsers as well? Have you been interested in learning a bit about the C# language or SQL language and how you can make it work for your needs? All of these and more will be discussed in more detail in this guidebook! Also, the precious "Hacking with Kali Linux" guide is going to teach you how hackers reason. Besides understanding the reasons why a hacker would target your computer, you will also get to know how they are able to do it and even how you can safeguard your systems, equipment, and network against hacking attacks. Keen readers will, by the end of this book understand how their systems work, how to scan, and how to gain access to your computer. In this guidebook, our goal is to help even a beginner learn more about Computer Programming, and the steps that they need to take to become successful overall. The formatting of the book is designed in a fashion that makes it simple to read and easy to understand. Concepts have been simplified to limit misunderstanding and enhance possibilities! By the time you come to the end of this book, you will have mastered in Computer Programming alongside a number of advanced concepts in social engineering attack mechanisms. The book is truly a template for everyone who intends to understand Computer Programming and the how-to-use Hacking whit Kali Linux. If you want to get all of the information for mastering Computer programming, and you want to start using that information, then simply click the buy now button on this page so that you can get started today!

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Utilize Python scripting to execute effective and efficient penetration tests About

This Book Understand how and where Python scripts meet the need for penetration testing Familiarise yourself with the process of highlighting a specific methodology to exploit an environment to fetch critical data Develop your Python and penetration testing skills with real-world examples Who This Book Is For If you are a security professional or researcher, with knowledge of different operating systems and a conceptual idea of penetration testing, and you would like to grow your knowledge in Python, then this book is ideal for you. What You Will Learn Familiarise yourself with the generation of Metasploit resource files Use the Metasploit Remote Procedure Call (MSFRPC) to automate exploit generation and execution Use Python's Scapy, network, socket, office, Nmap libraries, and custom modules Parse Microsoft Office spreadsheets and eXtensible Markup Language (XML) data files Write buffer overflows and reverse Metasploit modules to expand capabilities Exploit Remote File Inclusion (RFI) to gain administrative access to systems with Python and other scripting languages Crack an organization's Internet perimeter Chain exploits to gain deeper access to an organization's resources Interact with web services with Python In Detail Python is a powerful new-age scripting platform that allows you to build exploits, evaluate services, automate, and link solutions with ease. Python is a multi-paradigm programming language well suited to both object-oriented application development as well as functional design patterns. Because of the power and flexibility offered by it, Python has become one of the most popular languages used for penetration testing. This book highlights how you can evaluate an organization methodically and realistically. Specific tradecraft and techniques are covered that show you exactly when and where industry tools can and should be used and when Python fits a need that proprietary and open source solutions do not. Initial methodology, and Python fundamentals are established and then built on. Specific examples are created with vulnerable system images, which are available to the community to test scripts, techniques, and exploits. This book walks you through real-world penetration testing challenges and how Python can help. From start to finish, the book takes you through how to create Python scripts that meet relative needs that can be adapted to particular situations. As chapters progress, the script examples explain new concepts to enhance your foundational knowledge, culminating with you being able to build multi-threaded security tools, link security tools together, automate reports, create custom exploits, and expand Metasploit modules. Style and approach This book is a practical guide that will help you become better penetration testers and/or Python security tool developers. Each chapter builds on concepts and tradecraft using detailed examples in test environments that you can simulate.

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A practical guide to testing your infrastructure security with Kali Linux, the preferred choice of pentesters and hackers Key Features Employ advanced pentesting techniques with Kali Linux to build highly secured systems Discover various stealth techniques to remain undetected and defeat modern infrastructures Explore red teaming techniques to exploit secured environment Book 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.

Over 60 powerful recipes to scan, exploit, and crack wireless networks for ethical purposesAbout This Book* Expose wireless security threats through the eyes of an attacker,* Recipes to help you proactively identify vulnerabilities and apply intelligent remediation,* Acquire and apply key wireless pentesting skills used by industry expertsWho This Book Is ForIf you are a security professional, administrator, and a network professional who wants to enhance their wireless penetration testing skills and knowledge then this book is for you. Some prior experience with networking security and concepts is expected.What You Will Learn* Deploy and configure a wireless cyber lab that resembles an enterprise production environment* Install Kali Linux 2017.3 on your laptop and configure the wireless adapter* Learn the fundamentals of commonly used wireless penetration testing techniques* Scan and enumerate Wireless LANs and access points* Use vulnerability scanning techniques to reveal flaws and weaknesses* Attack Access Points to gain access to critical networksIn DetailMore and more organizations are moving towards wireless networks, and Wi-Fi is a popular choice. The security of wireless networks is more important than ever before due to the widespread usage of Wi-Fi networks. This book contains recipes that will enable you to maximize the success of your wireless network testing using the advanced ethical hacking features of Kali Linux.This book will go through techniques associated with a wide range of wireless penetration tasks, including WLAN discovery scanning, WEP cracking, WPA/WPA2 cracking, attacking access point systems, operating system identification, vulnerability mapping, and validation of results. You will learn how to utilize the arsenal of tools available in Kali Linux to penetrate any wireless networking environment. You will also be shown how to identify remote services, how to assess security risks, and how various attacks are performed.By finishing the recipes, you will feel confident conducting wireless penetration tests and will be able to protect yourself or your organization from wireless security threats.Style and approachThe book will provide the foundation principles, techniques, and in-depth analysis to effectively master wireless penetration testing. It will aid you in understanding and mastering many of the most powerful and useful wireless testing techniques in the industry. Over 60 powerful recipes to scan, exploit, and crack wireless networks for ethical purposes About This Book Expose wireless security threats through the eyes of an attacker, Recipes to help you proactively identify vulnerabilities and apply intelligent remediation, Acquire and apply key wireless pentesting skills used by industry experts Who This Book Is For If you are a security professional, administrator, and a network professional who wants to enhance their wireless penetration testing skills and knowledge then this book is for you. Some prior experience with networking security and concepts is expected. What You Will Learn Deploy and configure a wireless cyber lab that resembles an enterprise production environment Install Kali Linux 2017.3 on your laptop and configure the wireless adapter Learn the fundamentals of commonly used wireless penetration testing techniques Scan and enumerate Wireless LANs and access points Use vulnerability scanning techniques to reveal flaws and weaknesses Attack Access Points to gain access to critical networks In Detail More and more organizations are moving towards wireless networks, and Wi-Fi is a popular choice. The security of wireless networks is more important than ever before due to the widespread usage of Wi-Fi networks. This book contains recipes that will enable you to maximize the success of your wireless network testing using the advanced ethical hacking features of Kali Linux. This book will go through techniques associated with a wide range of wireless penetration tasks, including WLAN discovery scanning, WEP cracking, WPA/WPA2 cracking, attacking access point systems, operating system identification, vulnerability mapping, and validation of results. You will learn how to utilize the arsenal of tools available in Kali Linux to penetrate any wireless networking environment. You will also be shown how to identify remote services, how to assess security risks, and how various attacks are performed. By finishing the recipes, you will feel confident conducting wireless penetration tests and will be able to protect yourself or your organization from wireless security threats. Style and approach The book will provide the foundation principles, techniques, and in-depth analysis to effectively master wireless penetration testing. It will aid you in understanding and mastering many of the most powerful and useful wireless testing techniques in the industry.