

## BackTrack 5 Wireless Penetration Testing

Master bleeding edge wireless testing techniques with BackTrack 5

### Beginner's Guide





# **Backtrack Wireless Penetration Testing Beginners Guide**

Vivek Ramachandran, Cameron Buchanan

#### **Backtrack Wireless Penetration Testing Beginners Guide:**

Backtrack 5 Wireless Penetration Testing Vivek Ramachandran, 2011 Written in Packt's Beginner's Guide format you can easily grasp the concepts and understand the techniques to perform wireless attacks in your lab Every new attack is described in the form of a lab exercise with rich illustrations of all the steps associated You will practically implement various attacks as you go along If you are an IT security professional or a security consultant who wants to get started with wireless testing with Backtrack or just plain inquisitive about wireless security and hacking then this book is for you The book assumes that you have familiarity with Backtrack and basic wireless concepts Kali Linux Cameron Buchanan, Vivek Ramachandran, 2015-06-08 Master wireless testing techniques to survey and attack wireless networks with Kali Linux About This Book Learn wireless penetration testing with Kali Linux Backtrack's evolution Detect hidden wireless networks and discover their names Explore advanced Wi Fi hacking techniques including roque access point hosting and probe sniffing Develop your encryption cracking skills and gain an insight into the methods used by attackers and the underlying technologies that facilitate these attacks Who This Book Is For If you are a security professional pentester or anyone interested in getting to grips with wireless penetration testing this is the book for you Some familiarity with Kali Linux and wireless concepts is beneficial In Detail As wireless networks become ubiquitous in our lives wireless penetration testing has become a key skill in the repertoire of the professional penetration tester The Kali Linux security distribution comes with a myriad of tools used for networking attacks and detecting security loopholes Kali Linux Wireless Penetration Testing Beginner's Guide presents wireless pentesting from the ground up introducing all elements of penetration testing with each new technology Learn various wireless testing methodologies by example from the basics of wireless routing and encryption through to detailed coverage of hacking methods and attacks such as the Hirte and Caffe Latte **Kali Linux Wireless Penetration Testing: Beginner's Guide** Vivek Ramachandran, Cameron Buchanan, 2015-03-30 If you are a security professional pentester or anyone interested in getting to grips with wireless penetration testing this is the book for you Some familiarity with Kali Linux and wireless concepts is beneficial Kali Linux Wireless Penetration Testing Beginner's Guide Vivek Ramachandran, Cameron Buchanan, 2015 If you are a security professional pentester or anyone interested in getting to grips with wireless penetration testing this is the book for you Some familiarity with Kali Linux and wireless concepts is Wireless Network Security A Beginner's Guide Tyler Wrightson, 2012-05-06 Security Smarts for the Self Guided beneficial IT Professional Protect wireless networks against all real world hacks by learning how hackers operate Wireless Network Security A Beginner's Guide discusses the many attack vectors that target wireless networks and clients and explains how to identify and prevent them Actual cases of attacks against WEP WPA and wireless clients and their defenses are included This practical resource reveals how intruders exploit vulnerabilities and gain access to wireless networks You ll learn how to securely deploy WPA2 wireless networks including WPA2 Enterprise using digital certificates for authentication The book

provides techniques for dealing with wireless guest access and rogue access points Next generation wireless networking technologies such as lightweight access points and cloud based wireless solutions are also discussed Templates checklists and examples give you the hands on help you need to get started right away Wireless Network Security A Beginner's Guide features Lingo Common security terms defined so that you re in the know on the job IMHO Frank and relevant opinions based on the author's years of industry experience In Actual Practice Exceptions to the rules of security explained in real world contexts Your Plan Customizable checklists you can use on the job now Into Action Tips on how why and when to apply new skills and techniques at work This is an excellent introduction to wireless security and their security implications The technologies and tools are clearly presented with copious illustrations and the level of presentation will accommodate the wireless security neophyte while not boring a mid level expert to tears If the reader invests the time and resources in building a lab to follow along with the text s he will develop a solid basic understanding of what wireless security is and how it can be implemented in practice This is definitely a recommended read for its intended audience Richard Austin IEEE CIPHER IEEE Computer Society s TC on Security and Privacy E109 July 23 2012 **Advanced Penetration Testing for** Highly-Secured Environments Lee Allen, 2012-01-01 An intensive hands on guide to perform professional penetration testing for highly secured environments from start to finish You will learn to provide penetration testing services to clients with mature security infrastructure Understand how to perform each stage of the penetration test by gaining hands on experience in performing attacks that mimic those seen in the wild In the end take the challenge and perform a virtual penetration test against a fictional corporation If you are looking for guidance and detailed instructions on how to perform a penetration test from start to finish are looking to build out your own penetration testing lab or are looking to improve on your existing penetration testing skills this book is for you Although the books attempts to accommodate those that are still new to the penetration testing field experienced testers should be able to gain knowledge and hands on experience as well The book does assume that you have some experience in web application testing and as such the chapter regarding this subject may require you to understand the basic concepts of web security The reader should also be familiar with basic IT concepts and **Learning zANTI2 for Android Pentesting** Miroslav Vitula, 2015-08-31 Dive commonly used protocols such as TCP IP into the world of advanced network penetration tests to survey and attack wireless networks using your Android device and zANTI2 About This Book Understand the basics of wireless penetration testing and its importance Learn the techniques to perform penetration testing on your wireless networks such as scanning detecting vulnerabilities in your victim and then attacking This simple and intriguing guide takes a step by step approach that will help you get to grips with network pentesting using just your Android device and zANTI2 Who This Book Is For The book is intended for those who want to know more about network penetration tests and have no prior experience as well as for those who are experienced in network systems and are curious to discover more about this topic Since zANTI2 features an extremely intuitive and easy to control

interface it doesn't require any special skills What You Will Learn Understand the importance of penetration testing throughout systems Take a run through zANTI2 s interface and understand the requirements to the app Perform advanced scanning network mapping and discover the various types of scans used on a target Discover and remotely connect to open ports on a target thereby accessing a target s files and folders remotely Detect vulnerabilities on a target learn how to remotely exploit them and discover ways to protect your self from these exploits Understand what an MITM attack is and how it works and apply this knowledge to perform attacks on network targets Learn to hijack sessions identify victim s passwords replace images on websites inject scripts and more Use this knowledge to protect yourself from all of the attacks you will study In Detail A penetration test is one of the most important methods to secure a network or any individual machine Having knowledge of these methods can enable a user to protect himself herself from any kinds of attacks Penetration tests can also be used to discover flaws or loop holes in one s security system which if not fixed can be exploited by an unwanted entity This book starts off with an introduction to what penetration testing is and how it can be performed on Android using zANTI2 Once you are aware of the basics we move on to teach you the different types of scans that can be performed to search for targets You will then learn how to connect to open ports and intrude into an unsecured computer From here you will explore vulnerabilities and their usage including ShellShock and SSL Poodle vulnerability When connected to an open network a user is susceptible to password and session hijacking and a number of other cyber attacks The book therefore ends with one of the main aspects of cyber security the Man in the Middle attack You will get to know everything about the MITM attack how it works and how one can be protected against it Style and approach The book follows a step by step approach with each of the parts explained in an easy to follow style Most of the methods showcased can be tried out immediately on almost any network Kali Linux Wireless Penetration Testing Beginner's Guide Cameron Buchanan, Vivek Ramachandran, 2017-12-28 Kali Linux Wireless Penetration Testing Beginner's Guide Third Edition presents wireless pentesting from the ground up and has been updated with the latest methodologies including full coverage of the KRACK attack About This Book Learn wireless penetration testing with Kali Linux Detect hidden wireless networks and discover their names Explore advanced Wi Fi hacking techniques including rogue access point hosting and probe sniffing Develop your encryption cracking skills and gain an insight into the methods used by attackers and the underlying technologies that facilitate these attacks Who This Book Is For Kali Linux Wireless Penetration Testing Beginner's Guide Third Edition is suitable for anyone who wants to learn more about pentesting and how to understand and defend against the latest wireless network attacks What You Will Learn Understand the KRACK attack in full detail Create a wireless lab for your experiments Sniff out wireless packets hidden networks and SSIDs Capture and crack WPA 2 keys Sniff probe requests and track users through their SSID history Attack radius authentication systems Sniff wireless traffic and collect interesting data Decrypt encrypted traffic with stolen keys In Detail As wireless networks become ubiquitous in our lives wireless

penetration testing has become a key skill in the repertoire of the professional penetration tester This has been highlighted again recently with the discovery of the KRACK attack which enables attackers to potentially break into Wi Fi networks encrypted with WPA2 The Kali Linux security distribution comes with a myriad of tools used for networking attacks and detecting security loopholes Kali Linux Wireless Penetration Testing Beginner's Guide Third Edition has been updated to Kali Linux 2017 3 with the latest methodologies including full coverage of the KRACK attack and how to defend against it The book presents wireless pentesting from the ground up introducing all elements of penetration testing with each new technology You ll learn various wireless testing methodologies by example from the basics of wireless routing and encryption through to detailed coverage of hacking methods and attacks such as the Hirte and Caffe Latte Style and approach Kali Linux Wireless Penetration Testing Beginner's Guide Third Edition is a practical hands on guide to modern wifi network hacking It covers both the theory and practice of wireless pentesting offering detailed real world coverage of the latest vulnerabilities and attacks Kali Linux Web Penetration Testing Cookbook Gilberto Nájera-Gutiérrez, 2016-02-29 Over 80 recipes on how to identify exploit and test web application security with Kali Linux 2 About This Book Familiarize yourself with the most common web vulnerabilities a web application faces and understand how attackers take advantage of them Set up a penetration testing lab to conduct a preliminary assessment of attack surfaces and run exploits Learn how to prevent vulnerabilities in web applications before an attacker can make the most of it Who This Book Is For This book is for IT professionals web developers security enthusiasts and security professionals who want an accessible reference on how to find exploit and prevent security vulnerabilities in web applications You should know the basics of operating a Linux environment and have some exposure to security technologies and tools What You Will Learn Set up a penetration testing laboratory in a secure way Find out what information is useful to gather when performing penetration tests and where to look for it Use crawlers and spiders to investigate an entire website in minutes Discover security vulnerabilities in web applications in the web browser and using command line tools Improve your testing efficiency with the use of automated vulnerability scanners Exploit vulnerabilities that require a complex setup run custom made exploits and prepare for extraordinary scenarios Set up Man in the Middle attacks and use them to identify and exploit security flaws within the communication between users and the web server Create a malicious site that will find and exploit vulnerabilities in the user s web browser Repair the most common web vulnerabilities and understand how to prevent them becoming a threat to a site s security In Detail Web applications are a huge point of attack for malicious hackers and a critical area for security professionals and penetration testers to lock down and secure Kali Linux is a Linux based penetration testing platform and operating system that provides a huge array of testing tools many of which can be used specifically to execute web penetration testing This book will teach you in the form step by step recipes how to detect a wide array of vulnerabilities exploit them to analyze their consequences and ultimately buffer attackable surfaces so applications are more secure for you

and your users Starting from the setup of a testing laboratory this book will give you the skills you need to cover every stage of a penetration test from gathering information about the system and the application to identifying vulnerabilities through manual testing and the use of vulnerability scanners to both basic and advanced exploitation techniques that may lead to a full system compromise Finally we will put this into the context of OWASP and the top 10 web application vulnerabilities you are most likely to encounter equipping you with the ability to combat them effectively By the end of the book you will have the required skills to identify exploit and prevent web application vulnerabilities Style and approach Taking a recipe based approach to web security this book has been designed to cover each stage of a penetration test with descriptions on how tools work and why certain programming or configuration practices can become security vulnerabilities that may put a whole system or network at risk Each topic is presented as a sequence of tasks and contains a proper explanation of why each task is performed and what it accomplishes **Penetration Testing** Georgia Weidman, 2014-06-14 Penetration testers simulate cyber attacks to find security weaknesses in networks operating systems and applications Information security experts worldwide use penetration techniques to evaluate enterprise defenses In Penetration Testing security expert researcher and trainer Georgia Weidman introduces you to the core skills and techniques that every pentester needs Using a virtual machine based lab that includes Kali Linux and vulnerable operating systems you ll run through a series of practical lessons with tools like Wireshark Nmap and Burp Suite As you follow along with the labs and launch attacks you ll experience the key stages of an actual assessment including information gathering finding exploitable vulnerabilities gaining access to systems post exploitation and more Learn how to 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 Automate social engineering attacks Bypass antivirus software Turn access to one machine into total control of the enterprise in the post exploitation phase You ll even explore writing your own exploits Then it s on to mobile hacking Weidman s particular area of research with her tool the Smartphone Pentest Framework With its collection of hands on lessons that cover key tools and strategies Penetration Testing is the introduction that every aspiring hacker needs Python Web Penetration Testing Cookbook Cameron Buchanan, Terry Ip, Andrew Mabbitt, Benjamin May, Dave Mound, 2015-06-24 This book gives you an arsenal of Python scripts perfect to use or to customize your needs for each stage of the testing process Each chapter takes you step by step through the methods of designing and modifying scripts to attack web apps You will learn how to collect both open and hidden information from websites to further your attacks identify vulnerabilities perform SQL Injections exploit cookies and enumerate poorly configured systems You will also discover how to crack encryption create payloads to mimic malware and create tools to output your findings into presentable formats for reporting to your employers Handbook of Communications Security F. Garzia, 2013 Communications represent a strategic sector for privacy protection and for personal company national and international security The interception damage or lost of

information during communication can generate material and non material economic damages from both a personal and collective point of view The purpose of this book is to give the reader information relating to all aspects of communications security beginning at the base ideas and building to reach the most advanced and updated concepts The book will be of interest to integrated system designers telecommunication designers system engineers system analysts security managers technicians intelligence personnel security personnel police army private investigators scientists graduate and postgraduate students and anyone that needs to communicate in a secure way **Learning iOS Penetration Testing** Swaroop Yermalkar, 2016-01-07 Secure your iOS applications and uncover hidden vulnerabilities by conducting penetration tests About This Book Achieve your goal to secure iOS devices and applications with the help of this fast paced manual Find vulnerabilities in your iOS applications and fix them with the help of this example driven guide Acquire the key skills that will easily help you to perform iOS exploitation and forensics with greater confidence and a stronger understanding Who This Book Is For This book is for IT security professionals who want to conduct security testing of applications This book will give you exposure to diverse tools to perform penetration testing This book will also appeal to iOS developers who would like to secure their applications as well as security professionals It is easy to follow for anyone without experience of iOS pentesting What You Will Learn Understand the basics of iOS app development deployment security architecture application signing application sandboxing and OWASP TOP 10 for mobile Set up your lab for iOS app pentesting and identify sensitive information stored locally Perform traffic analysis of iOS devices and catch sensitive data being leaked by side channels Modify an application s behavior using runtime analysis Analyze an application s binary for security protection Acquire the knowledge required for exploiting iOS devices Learn the basics of iOS forensics In Detail iOS has become one of the most popular mobile operating systems with more than 1 4 million apps available in the iOS App Store Some security weaknesses in any of these applications or on the system could mean that an attacker can get access to the device and retrieve sensitive information This book will show you how to conduct a wide range of penetration tests on iOS devices to uncover vulnerabilities and strengthen the system from attacks Learning iOS Penetration Testing discusses the common vulnerabilities and security related shortcomings in an iOS application and operating system and will teach you to conduct static and dynamic analysis of iOS applications This practical guide will help you uncover vulnerabilities in iOS phones and applications We begin with basics of iOS security and dig deep to learn about traffic analysis code analysis and various other techniques Later we discuss the various utilities and the process of reversing and auditing Style and approach This fast paced and practical guide takes a step by step approach to penetration testing with the goal of helping you secure your iOS devices and apps quickly BackTrack 5 R2 Wireless Penetration Testing Farrukh Haroon, 2013 This course is aimed at security professionals and IT professionals who want to learn about wireless penetration testing using the BackTrack Linux security distribution The course assumes that you already know the basics of wireless networks and can operate at least one

Linux distribution Packt video courses are designed to cover the breadth of the topic in short hands on task based videos Each course is divided into short manageable sections so you can watch the whole thing or jump to the bit you need The focus is on practical instructions and screencasts showing you how to get the job done Designed as a practical video tutorial with step by step instructions to teach you about Wireless Penetration Testing the course has been designed to ensure that topics are presented in a gradual manner allowing you to grasp the information that s being presented before moving on to more advanced topics Resource description page BackTrack Kevin Cardwell, 2013-01-01 Written in an easy to follow step by step format you will be able to get started in next to no time with minimal effort and zero fuss BackTrack Testing Wireless Network Security is for anyone who has an interest in security and who wants to know more about wireless networks All you need is some experience with networks and computers and you will be ready to go Penetration Testing Cookbook Sean-Philip Oriyano, 2017-12-13 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 Building a Pentesting Lab for Wireless Networks Vyacheslav Fadyushin, Andrey

Popov, 2016-03-28 Build your own secure enterprise or home penetration testing lab to dig into the various hacking techniques About This Book Design and build an extendable penetration testing lab with wireless access suitable for home and enterprise use Fill the lab with various components and customize them according to your own needs and skill level Secure your lab from unauthorized access and external attacks Who This Book Is For If you are a beginner or a security professional who wishes to learn to build a home or enterprise lab environment where you can safely practice penetration testing techniques and improve your hacking skills then this book is for you No prior penetration testing experience is required as the lab environment is suitable for various skill levels and is used for a wide range of techniques from basic to advance Whether you are brand new to online learning or you are a seasoned expert you will be able to set up your own hacking playground depending on your tasks What You Will Learn Determine your needs and choose the appropriate lab components for them Build a virtual or hardware lab network Imitate an enterprise network and prepare intentionally vulnerable software and services Secure wired and wireless access to your lab Choose a penetration testing framework according to your needs Arm your own wireless hacking platform Get to know the methods to create a strong defense mechanism for your system In Detail Starting with the basics of wireless networking and its associated risks we will guide you through the stages of creating a penetration testing lab with wireless access and preparing your wireless penetration testing machine This book will guide you through configuring hardware and virtual network devices filling the lab network with applications and security solutions and making it look and work like a real enterprise network The resulting lab protected with WPA Enterprise will let you practice most of the attack techniques used in penetration testing projects Along with a review of penetration testing frameworks this book is also a detailed manual on preparing a platform for wireless penetration testing By the end of this book you will be at the point when you can practice and research without worrying about your lab environment for every task Style and approach This is an easy to follow guide full of hands on examples and recipes Each topic is explained thoroughly and supplies you with the necessary configuration settings You can pick the recipes you want to follow depending on the task you need to perform Kali Linux Wireless Penetration Testing Essentials Marco Alamanni, 2015-07-30 Kali Linux is the most popular distribution dedicated to penetration testing that includes a set of free open source tools This book introduces you to wireless penetration testing and describes how to conduct its various phases After showing you how to install Kali Linux on your laptop you will verify the requirements of the wireless adapter and configure it Next the book covers the wireless LAN reconnaissance phase explains the WEP and WPA WPA2 security protocols and demonstrates practical attacks against them using the tools provided in Kali Linux Aircrack ng in particular You will then discover the advanced and latest attacks targeting access points and wireless clients and learn how to create a professionally written and effective report Hacking with Kali Linux. Wireless Penetration Grzegorz Nowak, 2020-10-25 Do you enjoy working with a wireless network where you are able to take your computer and your work with you everywhere

that you go Do you want to be able to protect your valuable information and any other important data that is on your system and keep it away from a hacker who wants to use it maliciously Would you like to be able to protect your system and learn more about the different methods hackers can use to get onto your computer through your wireless network Wireless networks have changed the way that we are able to interact with our systems and with technology In the past we relied on a wired service that kept us in one place or jumping from one computer to the next Today most devices including phones tablets and computers are mobile and can be used anywhere thanks to the wireless network that seems to be everywhere While this is great news for most people we have to be aware that there are some problems that can arise and any vulnerabilities that a hacker would like to take advantage of In this guidebook we are going to take a look at some of the ways that we can learn about wireless penetration and how a hacker is able to get onto your system and take advantage often without you having any idea Learning how this kind of penetration can happen and how we are able to avoid it as much as possible can make it so much easier for us to keep our information safe on our own system Some of the topics that we are going to take in order to handle our wireless network and to make sure that we are going to keep our information safe inside of this guidebook will include A look at wireless networking and some of the basics to help us get started How to set up our methodology with wireless hacking and organizing all of the tools that we need Getting ourselves pass all of the different types of encryption online How to exploit a wireless network How to handle a wireless denial of service attack Making sure that you have your VPNs and firewalls in place to keep your network safe A look at some of the basics of cybersecurity and how you can use this to keep the hackers out How the different types of cyberattacks and malware operate The consequences of a cyber attack and why we need to prevent it before it ever starts The basic steps you need to take in order to scan your own network and keep hackers out While our wireless networks are helping to make things easier and allow us to be more mobile with our own work they do bring up some big vulnerabilities that hackers love to try and get through Wireless **Security Masterclass** Rob Botwright, 2023 Introducing the Wireless Security Masterclass Book Bundle Your Path to Becoming a Wireless Security Expert Are you concerned about the security of your wireless networks Want to learn the ins and outs of penetration testing and ethical hacking Seeking a comprehensive resource to master wireless security from beginner to expert level Look no further Our Wireless Security Masterclass book bundle is your one stop solution to mastering the art of wireless network security With four carefully curated books this bundle caters to beginners intermediate learners and seasoned experts alike Book 1 Wireless Network Security Essentials A Beginner's Guide If you re new to wireless security this book is your starting point Learn the fundamentals of encryption authentication and security protocols Lay a solid foundation to build your expertise Book 2 Hacking Wi Fi Networks Intermediate Techniques for Penetration Testers Ready to take your skills to the next level Explore intermediate level techniques used by ethical hackers Crack Wi Fi passwords conduct wireless reconnaissance and understand advanced attacks Book 3 Advanced Wireless Exploitation A

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