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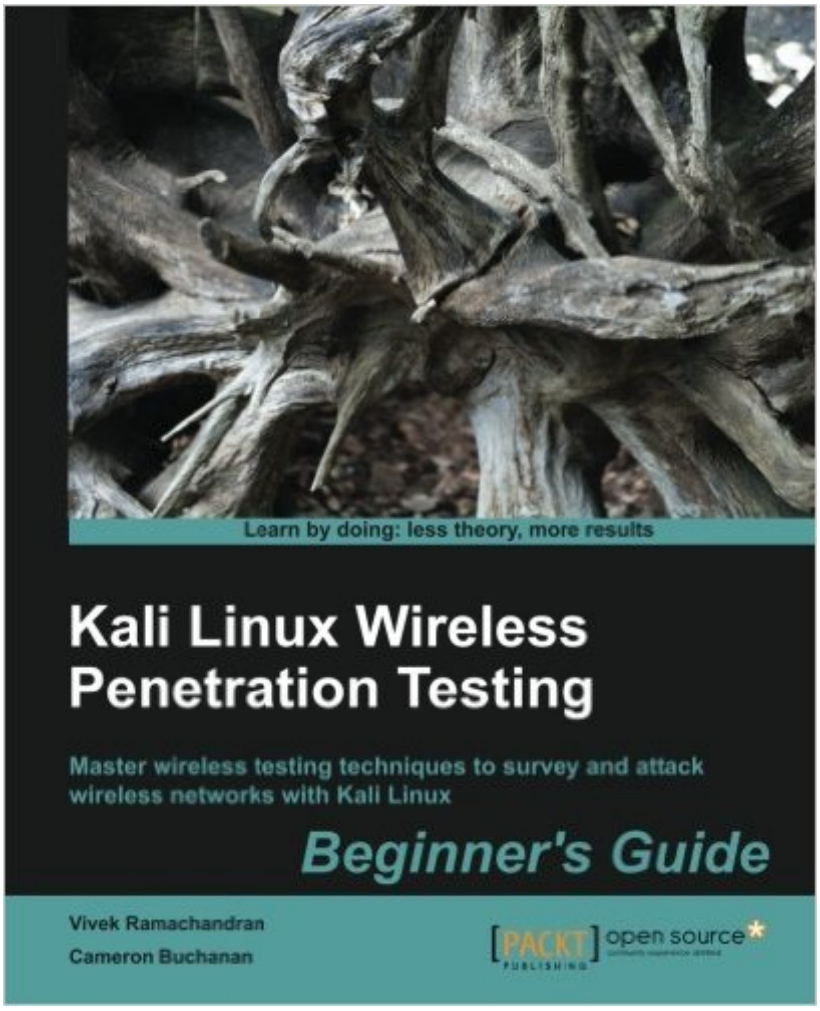
Kali Linux: Wireless Penetration Testing Beginner's Guide



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Synopsis

Key FeaturesLearn wireless penetration testing with Kali Linux, the latest iteration of BacktrackDetect hidden wireless networks and discover their namesExplore advanced Wi-Fi hacking techniques including rogue access point hosting and probe sniffingDevelop your encryption cracking skills and gain an insight into the methods used by attackers and the underlying technologies that facilitate these attacksBook DescriptionAs 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.What you will learnCreate a wireless lab for your experimentsSniff out wireless packets and hidden networksCapture and crack WPA-2 keysDiscover hidden SSIDsExplore the ins and outs of wireless technologiesSniff probe requests and track users through SSID historyAttack radius authentication systemsSniff wireless traffic and collect interesting dataDecrypt encrypted traffic with stolen keysAbout the AuthorsVivek Ramachandran has been working in Wireless Security since 2003. He discovered the Caffe Latte attack and also broke WEP Cloaking, a WEP protection schema, publicly in 2007 at DEF CON. In 2011, he was the first to demonstrate how malware could use Wi-Fi to create backdoors, worms, and even botnets. Earlier, he was one of the programmers of the 802.1x protocol and Port Security in Cisco's 6500 Catalyst series of switches and was also one of the winners of the Microsoft Security Shootout contest held in India among a reported 65,000 participants. He is best known in the hacker community as the founder of SecurityTube.net, where he routinely posts videos on Wi-Fi Security and exploitation techniques.Cameron Buchanan is an experienced penetration tester, having worked in a huge range of industries. He is also the author of Packt's Kali Linux CTF Blueprints.Table of ContentsWireless Lab SetupWLAN and its Inherent InsecuritiesBypassing WLAN AuthenticationWLAN Encryption FlawsAttacks on the WLAN InfrastructureAttacking the ClientAdvanced WLAN AttacksAttacking WPA-Enterprise and RadiusWLAN Penetration Testing MethodologyWPS and Probes

Book Information

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Customer Reviews

Awesome book. My only complaint is that he sometimes lacks detail about what he’s doing and why. Which is a common fault of writers, they assume you know whats going because they do. No we don’t thats why we buy books.

I have just finished reading this book that I purchased through the Packt Publishing website. I cannot say enough good things about this book. A person with little to no prior knowledge of wireless penetration testing will walk away from this book with a very solid foundation of the topic. Everything is explained in a very comprehensive manner, and with the clarity to allow a novice to understand! I really admire Vivek Ramachandran’s teaching skills. I have watched many of his SecurityTube videos and the enthusiasm with which he explains the material is very infectious. I enjoy his tutorials more than any other that I have watched on the web, they are truly a joy to watch! I can, without reservation, say that this feeling now extends to this book. I set up my own virtual lab and went through each and every exercise included in the book. If something did not work as expected it was due to an error on my part, which when corrected the exercise worked perfectly. I really appreciate the time and effort that Mr. Ramachandran puts into teaching a subject matter that he is clearly one of the world’s top experts at! Thank you. - Scott from Maine.

As with most cookbooks, this one is a great example of how to do things correctly. Anyone can install an OS and since it boots, we believe that is running the properly. After I started to read the book, I noticed that I did not do nearly enough to hide / protect myself. This book with get you going from start to finish with what to do and more importantly why we should do it. I did learn a lot with

this book and I would recommend it to anyone wanting to start-up with KALI Linux and grasp an fuller understanding of it.I have always enjoyed Packt Publishing book and this one is also a hit !

This book was a great way to get started in Kali. The tutorials are very clearly written, with command lines spelled out, along with an explanation of each concept. Would buy the sequel if it came along in an instant.

A brilliant sequel to the "Backtrack 5 Wireless Penetration Testing" book! I really think Vivek should write more books. This book is 100% practical and up to date with all the examples you would need to jump start with Wireless Penetration Testing. No other book is so easy to learn and at the very same time so thorough. Vivek is one of the top researchers in wireless security and if you have time watch his videos on SecurityTube, Pentester Academy or YouTube. You will love his teaching style!I am using this book and the last one to teach a class of students and his lab based approach makes it easy for my students to follow step by step. Also, the build up of the examples is from easy to hard, making it easy for even a n00b to follow along.Highly recommend this to a beginner and intermediate audience of Wi-Fi security and pentesting.

Quick feedback (on behalf of my brother, who I bought this for):Apparently the wifi pen testing steps herein are clear, easy to follow, and correct. He told me - and I paraphrase - "Unlike the ’net tutorials I tried out, the exercises in this book actually work".

Excellent read! I love the in-depth information which the author has provided. Awesome and thank you!

Good choice for starting off in kali.

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