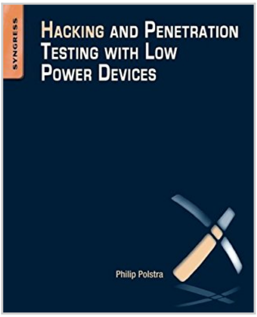

Hacking and Penetration Testing with Low Power Devices

By Philip Polstra

Hacking and Penetration Testing with Low Power Devices By Philip Polstra

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

Hacking and Penetration Testing with Low Power Devices shows how to use devices running a version of The Deck, a full-featured penetration testing and forensics Linux distribution, and can run for days or weeks on batteries due to their low power consumption. Author Philip Polstra shows how to use various configurations, including a device the size of a deck of cards that can easily be attached to the back of a computer.

While each device running The Deck is a full-featured pen-testing platform, connecting systems together via 802.15.3 networking gives you even more power and flexibility. This reference teaches you how to construct and power these devices, install operating systems, and fill out your toolbox of small low-power devices with hundreds of tools and scripts from the book's companion website. *Hacking and Pen Testing with Low Power Devices* puts all these tools into your hands and will help keep you at the top of your game performing cutting-edge pen tests from anywhere in the world!

- Understand how to plan and execute an effective penetration test using an army of low-power devices
- Learn how to configure and use open-source tools and easy-to-construct low-power devices
- Leverage IEEE 802.15.4 networking to perform penetration tests from up to a mile away, or use 802.15.4 gateways to perform pen tests from anywhere in the world
- Access penetration testing operating systems with hundreds of tools and scripts on the book's companion web site

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Editorial Review

Review
"If they do penetration testing for a living, this book is practically a must." - Zeljka Zorz, *Help Net Security*

"All in all, we enjoyed reading “Hacking and Penetration Testing with Low Power Devices”. The chapter related to the Deck's power supply was useful and thorough."-***Computers & Security***

"...the author offers bite-sized stories of his own experiences and that of his students while using the tools he presents in the book, which will likely help you remember important things for much longer that simple theory." ***-Help Net Security,*** **Nov 04, 2014**

From the Author
I hope you will journey with me into the exciting land of open source hardware and software. In this book you will learn how to unleash the power of open source hardware from the Beagle family (BeagleBone Black, BeagleBoard-xM, and BeagleBone) in order to perform some powerful and exciting penetration tests from far away on an extremely modest budget.

In this book you will learn how to perform penetration tests using multiple remote hacking drones, most of which can be built for well under one hundred dollars, which are remotely controlled from your command center up to a mile away. Techniques for extending the distance between drones and the command center beyond a mile are also covered. Unlike human penetration testers, these drones don't take breaks, eat, or sleep. The book also covers some ways to leverage Python to limit human interaction during the penetration test.

Is your access to the target limited? Why not build the aerial hacking drone from Chapter 9. Want some ideas on how to hide the drones and dropboxes discussed in the book? Have a look at Chapter 8.

Perhaps you will read this book and decide you want to do something slightly different or develop your own Linux distribution. Chapters 3 and 4 cover building your own custom Linux in a semi-automated way. These chapters also provide an introduction to shell scripting.

Are you interested in connecting multiple devices together in a mesh network, be it for penetration testing or some other purpose? This is covered extensively in Chapter 7.

Do you want to build simple battery-powered power supplies that can power a BeagleBone for days, weeks, or even months? You guessed it, that is in the book too.

You can choose how hands on you wish to get with hardware hacking. All of the things described in this book can be done with commercially available hardware. Some of this hardware is also available in kit form for those wishing to bust out a soldering iron. Finally, for the truly adventurous, the book will walk you through etching your own custom printed circuit boards.

From the Inside Flap

Foreword
So I will start out this foreword by warning you dear reader of the power you now hold in your hands! This book does not only educate but also create a defining moment on how business, organization, and people will from now on look at their network security. For too long we have led ourselves to believe that the dangers

of our online interactions were limited and shielded because of the need for an Internet connection or an IP address. Well, no more! The author has brought to light the grim truth that without physical security you have no online security. He shows how everyday gadgets, gizmos, and computer accessories that we take for granted can be used to penetrate our networks. He shows that the sky is now literally no longer the limit. By showing how devices ready to attack your network can even fly to their target! These devices are not from the future; they are not even from DARPA!
He will walk you through how you too can create these cyber-weapons using low-cost parts and this book. The golden age of cyberwar has long since passed where only nation states had this power. Thanks to the author's diligent efforts, he has brought this kind of know-how and technology to the masses! This book should be given to every CIO, CEO, CFO (well, any person who has a title that starts with "C"), so that they can realize the threats that are out there! I've said, "I don't have to bypass your firewall if I can bypass your receptionist." Well, the author does an excellent job showing in graphic detail just how easy that has become. This is not a book for those who are afraid to look into the void (or into their current information security policies and procedures)! This is a book for those who dare to ask, "Why does that power plug have an Ethernet cable attached to it?" and who are never afraid to ask, "I wonder what this does?" This is not a "light reading on a rainy Sunday afternoon" book. This is a "break out the soldering iron, my laptop, and a box of band aids" book! Go forth, reader, and learn of the wonders of weaponizing your mouse, making a toy robot more terrifying than the Terminator, and how sometimes seeing a blue police box should fill you with dread!
I'm serious, this is a great book and I've learned some really great things from it.
Enjoy!
Jayson E. Street
June 2014

Users Review

From reader reviews:

Rosa Nguyen:

Do you have favorite book? When you have, what is your favorite's book? Publication is very important thing for us to find out everything in the world. Each publication has different aim or maybe goal; it means that e-book has different type. Some people feel enjoy to spend their a chance to read a book. They are really reading whatever they get because their hobby will be reading a book. Think about the person who don't like examining a book? Sometime, individual feel need book if they found difficult problem or exercise. Well, probably you'll have this Hacking and Penetration Testing with Low Power Devices.

Daryl Pena:

As people who live in often the modest era should be up-date about what going on or details even knowledge to make these individuals keep up with the era that is always change and progress. Some of you maybe will update themselves by looking at books. It is a good choice to suit your needs but the problems coming to a person is you don't know which you should start with. This Hacking and Penetration Testing with Low Power Devices is our recommendation to help you keep up with the world. Why, as this book serves what you want and need in this era.

Jack Jackson:

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Kevin Dobson:

Hacking and Penetration Testing with Low Power Devices can be one of your nice books that are good idea. Most of us recommend that straight away because this reserve has good vocabulary that may increase your knowledge in vocabulary, easy to understand, bit entertaining however delivering the information. The article writer giving his/her effort to get every word into pleasure arrangement in writing Hacking and Penetration Testing with Low Power Devices yet doesn't forget the main point, giving the reader the hottest and based confirm resource facts that maybe you can be among it. This great information may drawn you into completely new stage of crucial pondering.

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