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Practical Hardware Pentesting The IoT Hacker's Handbook

Raspberry Pi for Arduino Users Electronic Design Radio EDN, Electrical Design

News Science Citation Index Jean-Georges Valle Aditya Gupta 000 (0000) James R. Strickland

Practical Hardware Pentesting The IoT Hacker's Handbook

Raspberry Pi for Arduino Users Electronic Design Radio EDN, Electrical Design News

Science Citation Index *Jean-Georges Valle Aditya Gupta* 000 (0000) *James R. Strickland*

learn how to pentest your hardware with the most common attack techniques and patterns key features explore various pentesting tools and techniques to secure your hardware infrastructure protect your hardware by finding potential entry points like glitches find the best practices for securely designing your products book description if you're looking for hands on introduction to pentesting that delivers then practical hardware pentesting is for you this book will help you plan attacks hack your embedded devices and secure the hardware infrastructure throughout the book you will see how a specific device works explore the functional and security aspects and learn how a system senses and communicates with the outside world you'll set up a lab from scratch and then gradually work towards an advanced hardware lab but you'll still be able to follow along with a basic setup as you progress you'll get to grips with the global architecture of an embedded system and sniff on board traffic learn how to identify and formalize threats to the embedded system and understand its relationship with its ecosystem you'll discover how to analyze your hardware and locate its possible system vulnerabilities before going on to explore firmware dumping analysis

and exploitation the reverse engineering chapter will get you thinking from an attacker point of view you'll understand how devices are attacked how they are compromised and how you can harden a device against the most common hardware attack vectors by the end of this book you will be well versed with security best practices and understand how they can be implemented to secure your hardware what you will learn perform an embedded system test and identify security critical functionalities locate critical security components and buses and learn how to attack them discover how to dump and modify stored information understand and exploit the relationship between the firmware and hardware identify and attack the security functions supported by the functional blocks of the device develop an attack lab to support advanced device analysis and attacks who this book is for if you're a researcher or a security professional who wants a comprehensive introduction into hardware security assessment then this book is for you electrical engineers who want to understand the vulnerabilities of their devices and design them with security in mind will also find this book useful you won't need any prior knowledge with hardware pentesting before you get started everything you need is in the chapters

take a practitioner's approach in analyzing the internet of things iot devices and the security issues facing an iot architecture you'll review the architecture's central components from hardware communication interfaces such as uart and spi to radio protocols such as ble or zigbee you'll also learn to assess a device physically by opening it looking at the pcb and identifying the chipsets and interfaces you'll then use that information to gain entry to the device or to perform other actions such as dumping encryption keys and firmware as the iot rises to one of the most popular tech trends manufacturers need to take necessary steps to secure devices and protect them from attackers the iot hacker's handbook breaks down the internet of things exploits it and reveals how these devices can be built securely what you'll learn perform a threat model of a real world iot device and locate all possible attacker entry points use reverse engineering of firmware binaries to identify security issues analyze assess and identify security issues in exploited arm and mips based binaries sniff capture and exploit radio communication protocols such as bluetooth low energy ble and zigbee

who this book is for those interested in learning about iot security such as pentesters working in different domains embedded device developers or it people wanting to move to an internet of things security role

leverage your arduino skills in the raspberry pi world and see how to cross the two platforms into sophisticated programs the arduino and raspberry pi communities overlap more than you might think arduinos can be expanded to have network capabilities with a variety of shields all of which increase the cost and complexity of the system by contrast raspberry pis all run linux which is a very network competent platform the newest pi the raspberry pi zero w is wifi and bluetooth capable and costs around 10 u s for network enabled gadgets it makes far more sense to cross to the raspberry pi platform if only someone would make it easy to do that s what this book is about you ll learn some survival level linux system administration so you know how to set the machine up and how to establish at least minimal security for your gadget you ll set up and learn the geany ide on your pi which is fairly similar to the arduino ide where the two platforms overlap the most is the gpio system you ll see that several projects use and explain the wiringpi system this is is deliberately similar to the arduino s wiring functionality which is how sketches interact with gpio pins you ll learn the differences between the gpio pins of the two devices and how the pi has some limitations on those pins that the arduino does not as a final project in an effort to escape some of those limitations you ll attach an atmega 328p to the raspberry pi and configure it as a real 8mhz arduino with the arduino ide running on the pi and learn how to have the two platforms communicate giving you the best of both worlds what you ll learn establish security with linux system administration set up the apache webserver write cgi programs so other computers can connect to your pi and pull data in from it use c c from arduino sketches to write programs for the pi who this

book is for the arduino user who's been through all the tutorials and is comfortable writing sketches and connecting hardware to their arduino

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