Attacking Network Protocols No Starch Press

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Attacking Network Protocols is a deep dive into network protocol security from James Forshaw, one of the world's leading bug hunters. This comprehensive guide looks at networking from an attacker's perspective to help you discover, exploit, and ultimately protect vulnerabilities. You'll start with a rundown of networking basics and protocol traffic capture before moving on to static and dynamic protocol analysis, common protocol structures, cryptography, and protocol security.

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Attacking Network Protocols - keyhannet.com
Attacking Network Protocols (No Starch Press) Tuesday, 02 January 2018 Take a deep dive into network protocol security with a specialist bug hunter. James Forshaw is a computer security researcher at Google Project Zero and the creator of the network protocol analysis tool Canape. His discovery of complex design issues in Microsoft Windows ...

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Book description. Attacking Network Protocols is a deep-dive into network vulnerability discovery from James Forshaw, Microsoft's top bug hunter. This comprehensive guide looks at networking from an attacker's perspective to help you find, exploit, and ultimately protect vulnerabilities. Part I starts with a rundown of networking basics and traffic capture, as it builds a foundation for analyzing a network.

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or text-based protocols. By the end of the chapter, you should be able to easily identify these common
types in any unknown protocol you analyze. Once you understand how protocols are structured, you'll also
see pat-terns of exploitable behavior—ways of attacking the network protocol itself.

N E T W O R K P RO T O CO L S T R U C T ... - No Starch Press
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Forshaw (ISBN: 9781593277505) from Amazon's Book Store. Everyday low prices and free delivery on
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Attacking Network Protocols: A Hacker's Guide to Capture ...
Attacking Network Protocols Author: James Forshaw Publisher: No Starch Press Pages: 336 ISBN:
978-1593277505 Print: 1593277504 Kindle: B071V4DYVC Audience: developers interested in security Rating:
4.5 Reviewer: Kay Ewbank.

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Title: Attacking Network Protocols: A Hacker's Guide to Capture, Analysis, and Exploitation. Author (s):
James Forshaw. Publisher: No Starch Press. Year: 2018. Attacking Network Protocols is a deep dive into
network protocol security from James Forshaw, one of the world's leading bug hunters. This comprehensive
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Attacking Network Protocols: A Hacker's Guide to Capture ...
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common protocol structures, cryptography, and protocol security. Then you'll turn your focus to finding
and exploiting vulnerabilities, with an overview of common bug classes, fuzzing, debugging, and
exhaustion attacks. Learn how to: - Capture, manipulate, and replay packets - Develop tools to dissect
traffic and reverse engineer code to understand the inner workings of a network protocol - Discover and
exploit vulnerabilities such as memory corruptions, authentication bypasses, and denials of service -
Use capture and analysis tools like Wireshark and develop your own custom network proxies to manipulate
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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.

The definitive guide to hacking the world of the Internet of Things (IoT) -- Internet connected devices such as medical devices, home assistants, smart home appliances and more. Drawing from the real-life exploits of five highly regarded IoT security researchers, Practical IoT Hacking teaches you how to test IoT systems, devices, and protocols to mitigate risk. The book begins by walking you through common threats and a threat modeling framework. You'll develop a security testing methodology, discover the art of passive reconnaissance, and assess security on all layers of an IoT system. Next, you'll perform VLAN hopping, crack MQTT authentication, abuse UPnP, develop an mDNS poisoner, and craft WS-Discovery attacks. You'll tackle both hardware hacking and radio hacking, with in-depth coverage of attacks against embedded IoT devices and RFID systems. You'll also learn how to: • Write a DICOM service scanner as an NSE module • Hack a microcontroller through the UART and SWD interfaces • Reverse engineer firmware and analyze mobile companion apps • Develop an NFC fuzzer using Proxmark3 • Hack a smart home by jamming wireless alarms, playing back IP camera feeds, and controlling a smart treadmill The tools and devices you'll use are affordable and readily available, so you can easily practice what you learn. Whether you're a security researcher, IT team member, or hacking hobbyist, you'll find Practical IoT Hacking indispensable in your efforts to hack all the things REQUIREMENTS: Basic knowledge of Linux command line, TCP/IP, and programming

Malware analysis is big business, and attacks can cost a company dearly. When malware breaches your defenses, you need to act quickly to cure current infections and prevent future ones from occurring. For those who want to stay ahead of the latest malware, Practical Malware Analysis will teach you the tools and techniques used by professional analysts. With this book as your guide, you'll be able to safely analyze, debug, and disassemble any malicious software that comes your way. You'll learn how to: –Set up a safe virtual environment to analyze malware –Quickly extract network signatures and host-based indicators –Use key analysis tools like IDA Pro, OllyDbg, and WinDbg –Overcome malware tricks like obfuscation, anti-disassembly, anti-debugging, and anti-virtual machine techniques –Use your newfound knowledge of Windows internals for malware analysis –Develop a methodology for unpacking malware and get practical experience with five of the most popular packers –Analyze special cases of malware with shellcode, C++, and 64-bit code Hands-on labs throughout the book challenge you to practice and synthesize your skills as you dissect real malware samples, and pages of detailed dissections offer an over-the-shoulder look at how the pros do it. You'll learn how to crack open malware to see how it really works, determine what damage it has done, thoroughly clean your network, and ensure that the malware never comes back. Malware analysis is a cat-and-mouse game with rules that are constantly changing, so make sure you have the fundamentals. Whether you're tasked with securing one network or a thousand networks, or you're making a living as a malware analyst, you'll find what you need to succeed in Practical Malware Analysis.

Website security made easy. This book covers the most common ways websites get hacked and how web developers can defend themselves. The world has changed. Today, every time you make a site live, you're opening it up to attack. A first-time developer can easily be discouraged by the difficulties involved with properly securing a website. But have hope: an army of security researchers is out there discovering, documenting, and fixing security flaws. Thankfully, the tools you'll need to secure your

site are freely available and generally easy to use. Web Security for Developers will teach you how your websites are vulnerable to attack and how to protect them. Each chapter breaks down a major security vulnerability and explores a real-world attack, coupled with plenty of code to show you both the vulnerability and the fix. You'll learn how to: • Protect against SQL injection attacks, malicious JavaScript, and cross-site request forgery • Add authentication and shape access control to protect accounts • Lock down user accounts to prevent attacks that rely on guessing passwords, stealing sessions, • or escalating privileges • Implement encryption • Manage vulnerabilities in legacy code • Prevent information leaks that disclose vulnerabilities • Mitigate advanced attacks like malvertising and denial-of-service As you get stronger at identifying and fixing vulnerabilities, you'll learn to deploy disciplined, secure code and become a better programmer along the way.

Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with today's more hostile security environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker's Handbook will show you how to: –Build an accurate threat model for your vehicle –Reverse engineer the CAN bus to fake engine signals –Exploit vulnerabilities in diagnostic and data-logging systems –Hack the ECU and other firmware and embedded systems –Feed exploits through infotainment and vehicle-to-vehicle communication systems –Override factory settings with performance-tuning techniques –Build physical and virtual test benches to try out exploits safely If you're curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker's Handbook your first stop.

Like the best-selling Black Hat Python, Black Hat Go explores the darker side of the popular Go programming language. This collection of short scripts will help you test your systems, build and automate tools to fit your needs, and improve your offensive security skillset. Black Hat Go explores the darker side of Go, the popular programming language revered by hackers for its simplicity, efficiency, and reliability. It provides an arsenal of practical tactics from the perspective of security practitioners and hackers to help you test your systems, build and automate tools to fit your needs, and improve your offensive security skillset, all using the power of Go. You'll begin your journey with a basic overview of Go's syntax and philosophy and then start to explore examples that you can leverage for tool development, including common network protocols like HTTP, DNS, and SMB. You'll then dig into various tactics and problems that penetration testers encounter, addressing things like data pilfering, packet sniffing, and exploit development. You'll create dynamic, pluggable tools before diving into cryptography, attacking Microsoft Windows, and implementing steganography. You'll learn how to: • Make performant tools that can be used for your own security projects • Create usable tools that interact with remote APIs • Scrape arbitrary HTML data • Use Go's standard package, net/http, for building HTTP servers • Write your own DNS server and proxy • Use DNS tunneling to establish a C2 channel out of a restrictive network • Create a vulnerability fuzzer to discover an application's security weaknesses • Use plug-ins and extensions to future-proof productsBuild an RC2 symmetric-key brute-forcer • Implant data within a Portable Network Graphics (PNG) image. Are you ready to add to your arsenal of security tools? Then let's Go!

Uses real-world bug reports (vulnerabilities in software or in this case web applications) to teach programmers and InfoSec professionals how to discover and protect vulnerabilities in web applications. Real-World Bug Hunting is a field guide to finding software bugs. Ethical hacker Peter Yaworski breaks down common types of bugs, then contextualizes them with real bug bounty reports released by hackers on companies like Twitter, Facebook, Google, Uber, and Starbucks. As you read each report, you'll gain deeper insight into how the vulnerabilities work and how you might find similar ones. Each chapter begins with an explanation of a vulnerability type, then moves into a series of real bug bounty reports that show how the bugs were found. You'll learn things like how Cross-Site Request Forgery tricks users into unknowingly submitting information to websites they are logged into; how to pass along unsafe JavaScript to execute Cross-Site Scripting; how to access another user's data via Insecure Direct Object References; how to trick websites into disclosing information with Server Side Request Forgeries; and how bugs in application logic can lead to pretty serious vulnerabilities. Yaworski also shares advice on how to write effective vulnerability reports and develop relationships with bug bounty programs, as well as recommends hacking tools that can make the job a little easier.

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