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# The Rootkit Arsenal Escape And Evasion In Dark Corners Of System

## Bill Blunden

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Jones & Bartlett Learning Drill down into Windows architecture and internals, discover how core Windows components work behind the scenes, and master information you can continually apply to improve architecture, development, system administration, and support. Led by three renowned Windows internals experts, this classic guide is now fully updated for Windows 10 and 8.x. As always, it combines unparalleled insider perspectives on how Windows behaves "under the hood" with hands-on experiments that let you experience these hidden behaviors firsthand. Part 2 examines these and other key Windows 10 OS components and capabilities: Startup

and shutdown The Windows Registry Windows management mechanisms WMI System mechanisms ALPC ETW Cache Manager Windows file systems The hypervisor and virtualization UWP Activation Revised throughout, this edition also contains three entirely new chapters: Virtualization technologies Management diagnostics and tracing Caching and file system support

*Windows Internals, Part 2*  
Microsoft Press

Securing the Borderless Network reveals New techniques for securing advanced Web 2.0, virtualization, mobility, and collaborative applications Today's new Web 2.0, virtualization, mobility, telepresence, and

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collaborative applications offer immense potential for enhancing productivity and competitive advantage. However, they also introduce daunting new security issues, many of which are already being exploited by cybercriminals. *Securing the Borderless Network* is the first book entirely focused on helping senior IT decision-makers understand, manage, and mitigate the security risks of these new collaborative technologies. Cisco® security technology expert Tom Gillis brings together systematic, timely decision-making and technical guidance for companies of all sizes: information and techniques for protecting collaborative systems without compromising their business benefits. You'll walk through multiple

scenarios and case studies, from Cisco Webex® conferencing to social networking to cloud computing. For each scenario, the author identifies key security risks and presents proven best-practice responses, both technical and nontechnical. *Securing the Borderless Network* reviews the latest Cisco technology solutions for managing identity and securing networks, content, endpoints, and applications. The book concludes by discussing the evolution toward "Web 3.0" applications and the Cisco security vision for the borderless enterprise, providing you with a complete security overview for this quickly evolving network paradigm. *Hacking Multifactor Authentication* Jones & Bartlett

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## Publishers

This much-anticipated revision, written by the ultimate group of top security experts in the world, features 40 percent new content on how to find security holes in any operating system or application. New material addresses the many new exploitation techniques that have been discovered since the first edition, including attacking "unbreakable" software packages such as McAfee's Enterecept, Mac OS X, XP, Office 2003, and Vista. Also features the first-ever published information on exploiting Cisco's IOS, with content that has never before been explored. The companion Web site features downloadable code files.

Security Warrior McGraw Hill Professional

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

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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. [Hacking Exposed Wireless](#) Wiley

With the advent of rich Internet applications, the explosion of social media, and the increased use of powerful cloud computing infrastructures, a new generation of attackers has added cunning new techniques to its arsenal. For anyone involved in defending an application or a network of systems, Hacking: The Next Generation is one of the few books to identify a variety of emerging attack vectors. You'll not only find valuable information on new hacks that attempt to exploit technical flaws, you'll also learn how

attackers take advantage of individuals via social networking sites, and abuse vulnerabilities in wireless technologies and cloud infrastructures. Written by seasoned Internet security professionals, this book helps you understand the motives and psychology of hackers behind these attacks, enabling you to better prepare and defend against them. Learn how "inside out" techniques can poke holes into protected networks Understand the new wave of "blended threats" that take advantage of multiple application vulnerabilities to steal corporate data Recognize weaknesses in today's powerful cloud infrastructures and how they can be exploited Prevent attacks against the mobile workforce and their devices containing valuable data Be aware of attacks via social networking sites to obtain confidential information from executives and their assistants Get case studies that show how several layers of

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vulnerabilities can be used to compromise multinational corporations

Rootkits Doubleday

Understand malware analysis and its practical implementation

Key Features

Explore the key concepts of malware analysis and memory forensics using real-world examples

Learn the art of detecting, analyzing, and investigating malware threats

Understand adversary tactics and techniques

Book Description

Malware analysis and memory forensics are powerful analysis and investigation techniques used in reverse engineering, digital forensics, and incident response. With adversaries becoming sophisticated and carrying out advanced malware attacks on critical infrastructures, data centers, and private and public organizations, detecting, responding to, and investigating such intrusions is critical to information security professionals.

Malware analysis and

memory forensics have become must-have skills to fight advanced malware, targeted attacks, and security breaches. This book teaches you the concepts, techniques, and tools to understand the behavior and characteristics of malware through malware analysis. It also teaches you techniques to investigate and hunt malware using memory forensics. This book introduces you to the basics of malware analysis, and then gradually progresses into the more advanced concepts of code analysis and memory forensics. It uses real-world malware samples, infected memory images, and visual diagrams to help you gain a better understanding of the subject and to equip you with the skills required to analyze, investigate, and respond to malware-related incidents.

What you will learn

Create a safe and isolated lab environment for malware analysis

Extract the metadata associated with malware

Determine malware's

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interaction with the system  
Perform code analysis using  
IDA Pro and x64dbg Reverse-  
engineer various malware  
functionalities Reverse  
engineer and decode common  
encoding/encryption  
algorithms Reverse-engineer  
malware code injection and  
hooking techniques  
Investigate and hunt malware  
using memory forensics Who  
this book is for This book is for  
incident responders, cyber-  
security investigators, system  
administrators, malware  
analyst, forensic practitioners,  
student, or curious security  
professionals interested in  
learning malware analysis and  
memory forensics. Knowledge  
of programming languages  
such as C and Python is  
helpful but is not mandatory. If  
you have written few lines of  
code and have a basic  
understanding of programming  
concepts, you'll be able to get  
most out of this book.

## **CUCKOO'S EGG**

Microsoft Press

You don't need to be a

wizard to transform a  
game you like into a game  
you love. Imagine if you  
could give your favorite  
PC game a more  
informative heads-up  
display or instantly collect  
all that loot from your  
latest epic battle. Bring  
your knowledge of  
Windows-based  
development and memory  
management, and Game  
Hacking will teach you  
what you need to become  
a true game hacker. Learn  
the basics, like reverse  
engineering, assembly  
code analysis,  
programmatically memory  
manipulation, and code  
injection, and hone your  
new skills with hands-on  
example code and  
practice binaries. Level up  
as you learn how to:  
–Scan and modify  
memory with Cheat

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Engine –Explore program structure and execution flow with OllyDbg –Log processes and pinpoint useful data files with Process Monitor

- Manipulate control flow through NOPing, hooking, and more
- Locate and dissect common game memory structures You’ll even discover the secrets behind common game bots, including:
  - Extrasensory perception hacks, such as wallhacks and heads-up displays
  - Responsive hacks, such as autohealers and combo bots
  - Bots with artificial intelligence, such as cave walkers and automatic looters

Game hacking might seem like black magic, but it doesn’t have to be. Once you understand how bots are made, you’ll be better

positioned to defend against them in your own games. Journey through the inner workings of PC games with *Game Hacking*, and leave with a deeper understanding of both game design and computer security.

*Malware, Rootkits & Botnets A Beginner's Guide* Pearson Education

With more than 600 security tools in its arsenal, the Kali Linux distribution can be overwhelming. Experienced and aspiring security professionals alike may find it challenging to select the most appropriate tool for conducting a given test. This practical book covers Kali’s expansive security capabilities and helps you identify the tools you need to conduct a wide range of security tests and penetration tests. You’ll also explore the vulnerabilities that make those tests necessary. Author Ric Messier takes you through the



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foundations of Kali Linux and explains methods for conducting tests on networks, web applications, wireless security, password vulnerability, and more. You'll discover different techniques for extending Kali tools and creating your own toolset. Learn tools for stress testing network stacks and applications Perform network reconnaissance to determine what's available to attackers Execute penetration tests using automated exploit tools such as Metasploit Use cracking tools to see if passwords meet complexity requirements Test wireless capabilities by injecting frames and cracking passwords Assess web application vulnerabilities with automated or proxy-based tools Create advanced attack techniques by extending Kali tools or developing your own Use Kali Linux to generate reports once testing is complete

Professional Assembly Language Apress

Unlike high-level languages such as Java and C++, assembly language is much closer to the machine code that actually runs computers; it's used to create programs or modules that are very fast and efficient, as well as in hacking exploits and reverse engineering Covering assembly language in the Pentium microprocessor environment, this code-intensive guide shows programmers how to create stand-alone assembly language programs as well as how to incorporate assembly language libraries or routines into existing high-level applications Demonstrates how to manipulate data, incorporate advanced functions and libraries,

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and maximize application performance Examples use C as a high-level language, Linux as the development environment, and GNU tools for assembling, compiling, linking, and debugging

Security in Computing John Wiley & Sons

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. 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 network traffic Attacking Network Protocols is a must-have for any penetration tester, bug hunter, or developer looking to understand and discover network vulnerabilities.

*Hacker Disassembling Uncovered: Powerful Techniques To Safeguard Your Programming* John Wiley & Sons

The world's most infamous hacker offers an insider's view of the low-tech threats

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to high-tech security Kevin Mitnick's exploits as a cyber-desperado and fugitive form one of the most exhaustive FBI manhunts in history and have spawned dozens of articles, books, films, and documentaries. Since his release from federal prison, in 1998, Mitnick has turned his life around and established himself as one of the most sought-after computer security experts worldwide. Now, in *The Art of Deception*, the world's most notorious hacker gives new meaning to the old adage, "It takes a thief to catch a thief." Focusing on the human factors involved with information security, Mitnick explains why all the firewalls and encryption protocols in the world will never be enough to stop a savvy grifter intent on rifling a corporate database or an irate employee determined to crash a system. With the help of many fascinating true stories of successful attacks on business and government, he illustrates just how susceptible even the most locked-down information systems are to a slick con artist impersonating an IRS agent. Narrating from the points of view of both the attacker and the victims, he explains why each attack was so successful and how it could have been prevented in an engaging and highly readable style reminiscent of a true-crime novel. And, perhaps most importantly, Mitnick offers advice for preventing these types of social engineering hacks through security protocols, training programs, and manuals that address the human element of security.

[The Rootkit Arsenal](#) Addison-Wesley Professional  
While forensic analysis has

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proven to be a valuable investigative tool in the field of computer security, utilizing anti-forensic technology makes it possible to maintain a covert operational foothold for extended periods, even in a high-security environment. Adopting an approach that favors full disclosure, the updated Second Edition of *The Rootkit Arsenal* presents the most accessible, timely, and complete coverage of forensic countermeasures. This book covers more topics, in greater depth, than any other currently available. In doing so the author forges through the murky back alleys of the Internet, shedding light on material that has traditionally been poorly documented, partially documented, or intentionally undocumented. The range of topics presented includes how to:

- Evade post-mortem analysis
- Frustrate attempts to reverse engineer your command & control modules
- Defeat live incident response
- Undermine the process of

memory analysis -Modify subsystem internals to feed misinformation to the outside

- Entrench your code in fortified regions of execution
- Design and implement covert channels
- Unearth new avenues of attack

*Attacking Network Protocols* Apress

In-depth examination of concepts and principles of Web application development Completely revised and updated, this popular book returns with coverage on a range of new technologies. Authored by a highly respected duo, this edition provides an in-depth examination of the core concepts and general principles of Web application development. Packed with examples featuring specific technologies, this book is divided into three

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sections: HTTP protocol as a foundation for Web applications, markup languages (HTML, XML, and CSS), and survey of emerging technologies. After a detailed introduction to the history of Web applications, coverage segues to core Internet protocols, Web browsers, Web application development, trends and directions, and more. Includes new coverage on technologies such as application primers, Ruby on Rails, SOAP, XPath, P3P, and more Explores the fundamentals of HTTP and its evolution Looks at HTML and its roots as well as XML languages and applications Reviews the basic operation of Web Servers, their functionality, configuration, and security

Discusses how to process flow in Web browsers and looks at active browser pages Addresses the trends and various directions that the future of Web application frameworks may be headed This book is essential reading for anyone who needs to design or debug complex systems, and it makes it easier to learn the new application programming interfaces that arise in a rapidly changing Internet environment.

Learning Malware Analysis  
John Wiley & Sons

This is an in-depth look at the construction and underlying theory of a fullyfunctional virtual machine and an entire suite of related development tools.

**The Rootkit Arsenal: Escape and Evasion**  
John Wiley & Sons

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Rely on this practical, end-proof. This book is not to-end guide on cyber safety and online security written expressly for a non-technical audience. You will have just what you need to protect yourself—step by step, without judgment, and with as little jargon as possible. Just how secure is your computer right now? You probably don't really know. Computers and the Internet have revolutionized the modern world, but if you're like most people, you have no clue how these things work and don't know the real threats. Protecting your computer is like defending a medieval castle. While moats, walls, drawbridges, and castle guards can be effective, you'd go broke trying to build something dragon-

about protecting yourself from a targeted attack by the NSA; it's about armoring yourself against common hackers and mass surveillance. There are dozens of no-brainer things we all should be doing to protect our computers and safeguard our data—just like wearing a seat belt, installing smoke alarms, and putting on sunscreen. Author Carey Parker has structured this book to give you maximum benefit with minimum effort. If you just want to know what to do, every chapter has a complete checklist with step-by-step instructions and pictures. The book contains more than 150 tips to make you and your family safer. It includes: Added steps for Windows

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10 (Spring 2018) and Mac OS X High Sierra Expanded coverage on mobile device safety Expanded coverage on safety for kids online More than 150 tips with complete step-by-step instructions and pictures What You'll Learn Solve your password problems once and for all Browse the web safely and with confidence Block online tracking and dangerous ads Choose the right antivirus software for you Send files and messages securely Set up secure home networking Conduct secure shopping and banking online Lock down social media accounts Create automated backups of all your devices Manage your home computers Use your smartphone and tablet safely Safeguard your kids online And more! Who This Book Is For Those who use computers and mobile devices, but don't really know (or frankly care) how they work. This book is for people who just want to know what they need to do to protect themselves—step by step, without judgment, and with as little jargon as possible.

*Hacking: The Next Generation* Springer  
What people are saying about *Inside Cyber Warfare* "The necessary handbook for the 21st century." --Lewis Shepherd, Chief Tech Officer and Senior Fellow, Microsoft Institute for Advanced Technology in Governments "A must-read for policy makers and leaders who need to

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understand the big-picture landscape of cyber war." --Jim Stogdill, CTO, Mission Services Accenture You may have heard about "cyber warfare" in the news, but do you really know what it is? This book provides fascinating and disturbing details on how nations, groups, and individuals throughout the world are using the Internet as an attack platform to gain military, political, and economic advantages over their adversaries. You'll learn how sophisticated hackers working on behalf of states or organized crime patiently play a high-stakes game that could target anyone, regardless of affiliation or nationality. Inside Cyber Warfare goes beyond the

headlines of attention-grabbing DDoS attacks and takes a deep look inside multiple cyber-conflicts that occurred from 2002 through summer 2009. Learn how cyber attacks are waged in open conflicts, including recent hostilities between Russia and Georgia, and Israel and Palestine Discover why Twitter, Facebook, LiveJournal, Vkontakte, and other sites on the social web are mined by the intelligence services of many nations Read about China's commitment to penetrate the networks of its technologically superior adversaries as a matter of national survival Find out why many attacks originate from servers in the United States, and who's responsible Learn



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how hackers are "weaponizing" malware to attack vulnerabilities at the application level *Game Hacking* "O'Reilly Media, Inc."

When it comes to network security, many users and administrators are running scared, and justifiably so. The sophistication of attacks against computer systems increases with each new Internet worm. What's the worst an attacker can do to you? You'd better find out, right? That's what Security Warrior teaches you. Based on the principle that the only way to defend yourself is to understand your attacker in depth, Security Warrior reveals how your systems can be attacked. Covering everything from reverse engineering to SQL attacks, and including topics like social engineering, antiforensics,

and common attacks against UNIX and Windows systems, this book teaches you to know your enemy and how to be prepared to do battle. Security Warrior places particular emphasis on reverse engineering. RE is a fundamental skill for the administrator, who must be aware of all kinds of malware that can be installed on his machines -- trojaned binaries, "spyware" that looks innocuous but that sends private data back to its creator, and more. This is the only book to discuss reverse engineering for Linux or Windows CE. It's also the only book that shows you how SQL injection works, enabling you to inspect your database and web applications for vulnerability. Security Warrior is the most comprehensive and up-to-date book covering the art

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of computer war: attacks against computer systems and their defenses. It's often scary, and never comforting. If you're on the front lines, defending your site against attackers, you need this book. On your shelf--and in your hands.

### **Firewalls Don't Stop**

**Dragons** Elsevier

A computer forensics "how-to" for fighting malicious code and analyzing incidents With our ever-increasing reliance on computers comes an ever-growing risk of malware. Security professionals will find plenty of solutions in this book to the problems posed by viruses, Trojan horses, worms, spyware, rootkits, adware, and other invasive software. Written by well-known malware experts, this guide reveals solutions to numerous problems and includes a DVD of custom programs and tools that illustrate the concepts, enhancing your skills. Security professionals face a constant

battle against malicious software; this practical manual will improve your analytical capabilities and provide dozens of valuable and innovative solutions Covers classifying malware, packing and unpacking, dynamic malware analysis, decoding and decrypting, rootkit detection, memory forensics, open source malware research, and much more Includes generous amounts of source code in C, Python, and Perl to extend your favorite tools or build new ones, and custom programs on the DVD to demonstrate the solutions Malware Analyst's Cookbook is indispensable to IT security administrators, incident responders, forensic analysts, and malware researchers.

### Rootkit Arsenal Packt

Publishing Ltd

Going beyond the issues of analyzing and optimizing programs as well as creating the means of protecting information, this

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guide takes on the programming problem of, once having found holes in a program, how to go about disassembling it without its source code. Covered are the hacking methods used to analyze programs using a debugger and disassembler. These methods include virtual functions, local and global variables, branching, loops, objects and their hierarchy, and mathematical operators. Also covered are methods of fighting disassemblers, self-modifying code in operating systems, and executing code in the stack. Advanced disassembler topics such as optimizing compilers and movable code are discussed as well.

### Securing the Borderless Network Springer

With the growing prevalence of the Internet, rootkit technology has taken

center stage in the battle between White Hats and Black Hats. Adopting an approach that favors full disclosure, *The Rootkit Arsenal* presents the most accessible, timely, and complete coverage of rootkit technology. This book covers more topics, in greater depth, than any other currently available. In doing so, the author forges through the murky back alleys of the Internet, shedding light on material that has traditionally been poorly documented, partially documented, or intentionally undocumented.