

SECURITY

"It's about time someone wrote a book to reach the good guys who the bad guys already know. As the computer security industry matures, inside the exploiting software field a critical role is played."

—Bruce Schneier, Chief Technology Officer, Counterpane
Author of *Applied Cryptography* and *Liberal*

"The current approach to software quality and security relies on software companies, system integrators, and internal development organizations to the finding a car on a rainy day with worn-out tires and no air bags. In both cases, the odds are that something bad is going to happen, and there is no protection for the occupant/passenger. This book will help the reader understand how to make software quality part of the design—a key design from where we are today!"

—Ray Scott, Chief Technology Officer, IS&S
General Motors Corporation

"If you worry about software and application vulnerability, *Exploiting Software* is a must read. This book goes at all the timely and important issues surrounding software security in a technical, but still highly readable and engaging way."

—George Kyzivakis, Ph.D.
Security and Mobile Systems Professor of Engineering, German
Research School-in-Chief, KIT Security and Privacy Magazine

"*Exploiting Software* is the best treatment of any kind that I have seen to the topic of software vulnerability."

—From the Foreword by Ariel D. Rubin
Associate Professor, Computer Science
Technical Director, Information Security Institute,
Johns Hopkins University



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How does software break? How do crackers break software? Why are firewalls, intrusion detection systems, and antivirus software not keeping out the bad guys? What tools can be used to break software? This book provides the answers.

Exploiting Software is loaded with examples of real attacks, attack patterns, tools, and techniques used by bad guys to break software. If you want to protect your software from attack, you must first learn how real attacks are really carried out. This important book may shock you—and it will seriously educate you.

Going beyond the single-crack treatment found in many hacking books, you will learn about:

- Why software crashes will continue to be a critical problem
- When network security mechanisms do not work
- Attack patterns
- Reverse engineering
- Classic attacks against server software
- Surprising attacks against client software
- Techniques for crafting malicious inputs
- The technical details of buffer overflows
- Reverse

Exploiting Software is filled with the facts, concepts, and knowledge necessary to break software.

AUTHORS

GREG HUGLUND has been a systems administrator and software security for over 10 years. He created and documented the first Windows NT-based cracks, handling more systems.com in the process.

GARY MCGRAW, Ph.D., is CTO of Cogent, and is a world authority on software and application security. Dr. McGraw co-authored *Java Security* (Wiley, 1998) and *Building Secure Software* (Addison-Wesley, 2002). He consults with major corporations, performs research, research in software security, and software security strategy.



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GREG HUGLUND | GARY MCGRAW

EXPLOITING SOFTWARE

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Wesley**

"It's hard to protect yourself if you don't know what you're up against. This book has the details you need to know about how attackers find software holes and exploit them—details that will help you secure your own systems."

—Ed Felten, Ph.D., Professor of Computer Science, Princeton University

EXPLOITING SOFTWARE

HOW TO BREAK CODE



GREG HUGLUND • GARY MCGRAW
Foreword by Ariel D. Rubin

Exploiting Software How To Break Code

Robert W. Messler



Exploiting Software How To Break Code:

Exploiting Software Greg Hoglund, Gary McGraw, *Exploiting Online Games* Greg Hoglund, Gary McGraw, 2008

Imagine trying to play defense in football without ever studying offense You would not know when a run was coming how to defend pass patterns nor when to blitz In computer systems as in football a defender must be able to think like an attacker I say it in my class every semester you don't want to be the last person to attack your own system you should be the first The world is quickly going online While I caution against online voting it is clear that online gaming is taking the Internet by storm In our new age where virtual items carry real dollar value and fortunes are won and lost over items that do not really exist the new threats to the intrepid gamer are all too real To protect against these hazards you must understand them and this groundbreaking book is the only comprehensive source of information on how to exploit computer games Every White Hat should read it It's their only hope of staying only one step behind the bad guys Aviel D Rubin Ph D Professor Computer Science Technical Director Information Security Institute Johns Hopkins University Everyone's talking about virtual worlds But no one's talking about virtual world security Greg Hoglund and Gary McGraw are the perfect pair to show just how vulnerable these online games can be Cade Metz Senior Editor PC Magazine If we're going to improve our security practices frank discussions like the ones in this book are the only way forward Or as the authors of this book might say when you're facing off against Heinous Demons of Insecurity you need experienced companions not to mention a Vorpal Sword of Security Knowledge Edward W Felten Ph D Professor of Computer Science and Public Affairs Director Center for Information Technology Policy Princeton University Historically games have been used by warfighters to develop new capabilities and to hone existing skills especially in the Air Force The authors turn this simple concept on itself making games themselves the subject and target of the hacking game and along the way creating a masterly publication that is as meaningful to the gamer as it is to the serious security system professional Massively distributed systems will define the software field of play for at least the next quarter century Understanding how they work is important but understanding how they can be manipulated is essential for the security professional This book provides the cornerstone for that knowledge Daniel McGarvey Chief Information Protection Directorate United States Air Force Like a lot of kids Gary and I came to computing and later to computer security through games At first we were fascinated with playing games on our Apple's but then became bored with the few games we could afford We tried copying each other's games but ran up against copy protection schemes So we set out to understand those schemes and how they could be defeated Pretty quickly we realized that it was a lot more fun to disassemble and work around the protections in a game than it was to play it With the thriving economies of today's online games people not only have the classic hacker's motivation to understand and bypass the security of games but also the criminal motivation of cold hard cash That's a combination that's hard to stop The first step taken by this book is revealing the techniques that are being used today Greg Morrisett Ph D Allen B Cutting Professor of Computer Science School of

Engineering and Applied Sciences Harvard University If you're playing online games today and you don't understand security you're at a real disadvantage If you're designing the massive distributed systems of tomorrow and you don't learn from games you're just plain sunk Brian Chess Ph.D. Founder Chief Scientist Fortify Software Coauthor of Secure Programming with Static Analysis This book offers up a fascinating tour of the battle for software security on a whole new front attacking an online game Newcomers will find it incredibly eye opening and even veterans of the field will enjoy some of the same old programming mistakes given brilliant new light in a way that only massively multiplayer supermega blow em up games can deliver w00t Pravir Chandra Principal Consultant Cigital Coauthor of Network Security with OpenSSL If you are a gamer a game developer a software security professional or an interested bystander this book exposes the inner workings of online game security for all to see From the authors of the best selling Exploiting Software Exploiting Online Games takes a frank look at controversial security issues surrounding MMORPGs such as World of Warcraft and Second Life This no holds barred book comes fully loaded with code examples debuggers bots and hacks This book covers Why online games are a harbinger of software security issues to come How millions of gamers have created billion dollar virtual economies How game companies invade personal privacy Why some gamers cheat Techniques for breaking online game security How to build a bot to play a game for you Methods for total conversion and advanced mods Written by the world's foremost software security experts this book takes a close look at security problems associated with advanced massively distributed software With hundreds of thousands of interacting users today's online games are a bellwether of modern software The kinds of attack and defense techniques described in Exploiting Online Games are tomorrow's security techniques on display today *Extreme Exploits* Victor Opplman, Oliver Friedrichs, Brett Watson, 2005 This cutting edge volume takes network security professionals to the next level in protecting their networks and Web sites Never before published advanced security techniques and step by step instructions explain how to defend against devastating vulnerabilities in systems and underlying network infrastructure Some of these advanced methodologies include advanced attack and defense vectors advanced attack profiling and the theatre of war concept In addition readers will learn how to architect and prepare their network from threats that don't yet exist Dr. Dobb's Journal, 2008 *Hacking Exposed 5th Edition* Stuart McClure, Joel Scambray, George Kurtz, 2005-05-10 The seminal book on white hat hacking and countermeasures Should be required reading for anyone with a server or a network to secure Bill Machrone PC Magazine The definitive compendium of intruder practices and tools Steve Steinke Network Magazine For almost any computer book you can find a clone But not this one A one of a kind study of the art of breaking in UNIX Review Here is the latest edition of international best seller Hacking Exposed Using real world case studies renowned security experts Stuart McClure Joel Scambray and George Kurtz show IT professionals how to protect computers and networks against the most recent security vulnerabilities You'll find detailed examples of the latest devious break ins and will learn how to think like a hacker in order to thwart attacks Coverage includes Code hacking methods and

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Engineering Best Practices Capers Jones, 2009-11-05 Proven techniques for software engineering success This in depth volume examines software engineering topics that are not covered elsewhere the question of why software engineering has developed more than 2 500 programming languages problems with traditional definitions of software quality and problems with common metrics lines of code and cost per defect that violate standard economic assumptions The book notes that a majority of new projects are actually replacements for legacy applications illustrating that data mining for lost requirements should be a standard practice Difficult social engineering issues are also covered such as how to minimize harm from layoffs and downsizing Software Engineering Best Practices explains how to effectively plan size schedule and manage software projects of all types using solid engineering procedures It details proven methods from initial requirements through 20 years of maintenance Portions of the book have been extensively reviewed by key engineers from top companies including IBM Microsoft Unisys and Sony Manage Agile hierarchical matrix and virtual software development teams Optimize software quality using JAD OFD TSP static analysis inspections and other methods with proven success records Use high speed functional metrics to assess productivity and quality levels Plan optimal organization from small teams through more than 1

000 personnel *Reverse Engineering: Mechanisms, Structures, Systems & Materials* Robert W. Messler, 2013-11-22 A comprehensive look at reverse engineering as a legitimate learning design and troubleshooting tool This unique book examines the often underappreciated and occasionally maligned technique of reverse engineering More than a shortcut for the lazy or unimaginative to reproduce an artless copy of an existing creation reverse engineering is an essential brick if not a keystone in the pathway to a society's technological advancement Written by an engineer who began teaching after years in industry Reverse Engineering reviews this meticulous analytical process with a breadth and depth as never before Find out how to Learn by mechanical dissection Deduce the role purpose and functionality of a designed entity Identify materials of construction and methods of manufacture by observation alone Assess the suitability of a design to purpose from form and fit The rich heritage of engineering breakthroughs enabled by reverse engineering is also discussed This is not a dry textbook It is the engaging and enlightening account of the journey of engineering from the astounding creations of ancient cultures to what with the aid of reverse engineering promises to be an even more astounding future Coverage includes Methods of product teardown Failure analysis and forensic engineering Deducing or inferring role purpose and functionality during reverse engineering The Antikythera mechanism Identifying materials of construction Inferring methods of manufacture or construction Construction of Khufu's pyramid Assessing design suitability Value and production engineering Reverse engineering of materials and substances Reverse engineering of broken worn or obsolete parts for remanufacture The law and the ethics of reverse engineering **Gray Hat Hacking The Ethical Hacker's Handbook, Fourth Edition** Daniel Regalado, Shon Harris, Allen Harper, Chris Eagle, Jonathan Ness, Branko Spasojevic, Ryan Linn, Stephen Sims, 2015-01-09 Cutting edge techniques for finding and fixing critical security flaws Fortify your network and avert digital catastrophe with proven strategies from a team of security experts Completely updated and featuring 12 new chapters Gray Hat Hacking The Ethical Hacker's Handbook Fourth Edition explains the enemy's current weapons skills and tactics and offers field tested remedies case studies and ready to deploy testing labs Find out how hackers gain access overtake network devices script and inject malicious code and plunder Web applications and browsers Android based exploits reverse engineering techniques and cyber law are thoroughly covered in this state of the art resource Build and launch spoofing exploits with Ettercap and Evilgrade Induce error conditions and crash software using fuzzers Hack Cisco routers switches and network hardware Use advanced reverse engineering to exploit Windows and Linux software Bypass Windows Access Control and memory protection schemes Scan for flaws in Web applications using Fiddler and the x5 plugin Learn the use after free technique used in recent zero days Bypass Web authentication via MySQL type conversion and MD5 injection attacks Inject your shellcode into a browser's memory using the latest Heap Spray techniques Hijack Web browsers with Metasploit and the BeEF Injection Framework Neutralize ransomware before it takes control of your desktop Dissect Android malware with JEB and DAD decompilers Find one day vulnerabilities with binary diffing *Progress in Informatics* ,2008 *Computer*

Security Journal ,2004 *Gray Hat Hacking: The Ethical Hacker's Handbook, Fifth Edition* Daniel Regalado,Shon Harris,Allen Harper,Chris Eagle,Jonathan Ness,Branko Spasojevic,Ryan Linn,Stephen Sims,2018-04-05 Cutting edge techniques for finding and fixing critical security flaws Fortify your network and avert digital catastrophe with proven strategies from a team of security experts Completely updated and featuring 13 new chapters Gray Hat Hacking The Ethical Hacker s Handbook Fifth Edition explains the enemy s current weapons skills and tactics and offers field tested remedies case studies and ready to try testing labs Find out how hackers gain access overtake network devices script and inject malicious code and plunder Web applications and browsers Android based exploits reverse engineering techniques and cyber law are thoroughly covered in this state of the art resource And the new topic of exploiting the Internet of things is introduced in this edition Build and launch spoofing exploits with Ettercap Induce error conditions and crash software using fuzzers Use advanced reverse engineering to exploit Windows and Linux software Bypass Windows Access Control and memory protection schemes Exploit web applications with Padding Oracle Attacks Learn the use after free technique used in recent zero days Hijack web browsers with advanced XSS attacks Understand ransomware and how it takes control of your desktop Dissect Android malware with JEB and DAD decompilers Find one day vulnerabilities with binary diffing Exploit wireless systems with Software Defined Radios SDR Exploit Internet of things devices Dissect and exploit embedded devices Understand bug bounty programs Deploy next generation honeypots Dissect ATM malware and analyze common ATM attacks Learn the business side of ethical hacking Gray Hat Hacking The Ethical Hackers Handbook, 3rd Edition Allen Harper,Shon Harris,Jonathan Ness,Chris Eagle,Gideon Lenkey,Terron Williams,2011-02-05 THE LATEST STRATEGIES FOR UNCOVERING TODAY S MOST DEVASTATING ATTACKS Thwart malicious network intrusion by using cutting edge techniques for finding and fixing security flaws Fully updated and expanded with nine new chapters Gray Hat Hacking The Ethical Hacker s Handbook Third Edition details the most recent vulnerabilities and remedies along with legal disclosure methods Learn from the experts how hackers target systems defeat production schemes write malicious code and exploit flaws in Windows and Linux systems Malware analysis penetration testing SCADA VoIP and Web security are also covered in this comprehensive resource Develop and launch exploits using BackTrack and Metasploit Employ physical social engineering and insider attack techniques Build Perl Python and Ruby scripts that initiate stack buffer overflows Understand and prevent malicious content in Adobe Office and multimedia files Detect and block client side Web server VoIP and SCADA attacks Reverse engineer fuzz and decompile Windows and Linux software Develop SQL injection cross site scripting and forgery exploits Trap malware and rootkits using honeypots and SandBoxes Honeypots for Windows Roger A. Grimes,2005-02-15 Talks about hardening a Windows host before deploying Honeypot Covers how to create your own emulated services to fool hackers Discusses physical setup of Honeypot and network necessary to draw hackers to Honeypot Discusses how to use Snort to co exist with Honeypot Discusses how to use a Unix style Honeypot to mimic a Windows host

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Viega,Greg Hoglund,2006-02-10 A value priced boxed gift set of three key books on software security *Proceedings* ,2004

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