

# 19 DEADLY SINS



OF

# SOFTWARE SECURITY

Programming Flaws and  
How to Fix Them

Michael Howard with David LeBlanc and John Viega

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- Linux <
- Mac OS X <
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# 19 Deadly Sins Of Software Security

**Howard**



## **19 Deadly Sins Of Software Security:**

**19 Deadly Sins of Software Security** Michael Howard, David LeBlanc, John Viega, 2005-07-26 This essential book for all software developers regardless of platform language or type of application outlines the 19 deadly sins of software security and shows how to fix each one Best selling authors Michael Howard and David LeBlanc who teach Microsoft employees how to secure code have partnered with John Viega the man who uncovered the 19 deadly programming sins to write this much needed book Coverage includes Windows UNIX Linux and Mac OS X C C C Java PHP Perl and Visual Basic Web small client and smart client applications

## **24 Deadly Sins of Software Security: Programming Flaws and How to Fix Them**

Michael Howard, David LeBlanc, John Viega, 2009-09-22 What makes this book so important is that it reflects the experiences of two of the industry s most experienced hands at getting real world engineers to understand just what they re being asked for when they re asked to write secure code The book reflects Michael Howard s and David LeBlanc s experience in the trenches working with developers years after code was long since shipped informing them of problems From the Foreword by Dan Kaminsky Director of Penetration Testing IOActive Eradicate the Most Notorious Insecure Designs and Coding Vulnerabilities Fully updated to cover the latest security issues 24 Deadly Sins of Software Security reveals the most common design and coding errors and explains how to fix each one or better yet avoid them from the start Michael Howard and David LeBlanc who teach Microsoft employees and the world how to secure code have partnered again with John Viega who uncovered the original 19 deadly programming sins They have completely revised the book to address the most recent vulnerabilities and have added five brand new sins This practical guide covers all platforms languages and types of applications Eliminate these security flaws from your code SQL injection Web server and client related vulnerabilities Use of magic URLs predictable cookies and hidden form fields Buffer overruns Format string problems Integer overflows C catastrophes Insecure exception handling Command injection Failure to handle errors Information leakage Race conditions Poor usability Not updating easily Executing code with too much privilege Failure to protect stored data Insecure mobile code Use of weak password based systems Weak random numbers Using cryptography incorrectly Failing to protect network traffic Improper use of PKI Trusting network name resolution

## **19 Deadly Sins Of Software Security**

Howard, 2005-09-01 **Software Security** Gary McGraw, 2006 A computer security expert shows readers how to build more secure software by building security in and putting it into practice The CD ROM contains a tutorial and demo of the Fortify Source Code Analysis Suite

## **The Art of Software Security Testing**

Chris Wysopal, Lucas Nelson, Elfriede Dustin, Dino Dai Zovi, 2006-11-17 State of the Art Software Security Testing Expert Up to Date and Comprehensive The Art of Software Security Testing delivers in depth up to date battle tested techniques for anticipating and identifying software security problems before the bad guys do Drawing on decades of experience in application and penetration testing this book s authors can help you transform your approach from mere verification to proactive attack The authors begin by systematically

reviewing the design and coding vulnerabilities that can arise in software and offering realistic guidance in avoiding them Next they show you ways to customize software debugging tools to test the unique aspects of any program and then analyze the results to identify exploitable vulnerabilities Coverage includes Tips on how to think the way software attackers think to strengthen your defense strategy Cost effectively integrating security testing into your development lifecycle Using threat modeling to prioritize testing based on your top areas of risk Building testing labs for performing white grey and black box software testing Choosing and using the right tools for each testing project Executing today s leading attacks from fault injection to buffer overflows Determining which flaws are most likely to be exploited by real world attackers Software Security Engineering Nancy R. Mead, Julia H. Allen, Sean Barnum, Robert J. Ellison, Gary R. McGraw, 2004-04-21 Software Security Engineering draws extensively on the systematic approach developed for the Build Security In BSI Web site Sponsored by the Department of Homeland Security Software Assurance Program the BSI site offers a host of tools guidelines rules principles and other resources to help project managers address security issues in every phase of the software development life cycle SDLC The book s expert authors themselves frequent contributors to the BSI site represent two well known resources in the security world the CERT Program at the Software Engineering Institute SEI and Cigital Inc a consulting firm specializing in software security This book will help you understand why Software security is about more than just eliminating vulnerabilities and conducting penetration tests Network security mechanisms and IT infrastructure security services do not sufficiently protect application software from security risks Software security initiatives should follow a risk management approach to identify priorities and to define what is good enough understanding that software security risks will change throughout the SDLC Project managers and software engineers need to learn to think like an attacker in order to address the range of functions that software should not do and how software can better resist tolerate and recover when under attack **Web Application Security, A Beginner's Guide** Bryan Sullivan, Vincent Liu, 2011-12-06 Security Smarts for the Self Guided IT Professional Get to know the hackers or plan on getting hacked Sullivan and Liu have created a savvy essentials based approach to web app security packed with immediately applicable tools for any information security practitioner sharpening his or her tools or just starting out Ryan McGeehan Security Manager Facebook Inc Secure web applications from today s most devious hackers Web Application Security A Beginner s Guide helps you stock your security toolkit prevent common hacks and defend quickly against malicious attacks This practical resource includes chapters on authentication authorization and session management along with browser database and file security all supported by true stories from industry You ll also get best practices for vulnerability detection and secure development as well as a chapter that covers essential security fundamentals This book s templates checklists and examples are designed to help you get started right away Web Application Security A Beginner s Guide features Lingo Common security terms defined so that you re in the know on the job IMHO Frank and relevant opinions based on the authors years of industry experience

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zombies Blaster MyDoom All new class of vulnerabilities HTTP Response Splitting and much more **Hacker's Challenge  
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Customer service is worried about some issue with tons of disputed false orders Rob noticed a suspicious pattern with the

false orders they were all being delivered to the same P O box He decided to investigate the access logs An external JavaScript file being referenced seemed especially strange so he tested to see if he could access it himself The attacker was manipulating the link parameter of the login pl application Rob needed to see the server side script that generated the login pl page to determine the purpose The Solution After reviewing the log files included in the challenge propose your assessment What is the significance of the attacker s JavaScript file What was an early clue that Rob missed that might have alerted him to something being amiss What are some different ways the attacker could have delivered the payload Who is this attack ultimately targeted against Then turn to the experts answers to find out what really happened

**Hacking Exposed Web Applications, Second Edition** Joel Scambray, Mike Shema, Caleb Sima, 2006-06-05 Implement bulletproof e business security the proven Hacking Exposed way Defend against the latest Web based attacks by looking at your Web applications through the eyes of a malicious intruder Fully revised and updated to cover the latest Web exploitation techniques Hacking Exposed Web Applications Second Edition shows you step by step how cyber criminals target vulnerable sites gain access steal critical data and execute devastating attacks All of the cutting edge threats and vulnerabilities are covered in full detail alongside real world examples case studies and battle tested countermeasures from the authors experiences as gray hat security professionals Find out how hackers use infrastructure and application profiling to perform reconnaissance and enter vulnerable systems Get details on exploits evasion techniques and countermeasures for the most popular Web platforms including IIS Apache PHP and ASP NET Learn the strengths and weaknesses of common Web authentication mechanisms including password based multifactor and single sign on mechanisms like Passport See how to excise the heart of any Web application s access controls through advanced session analysis hijacking and fixation techniques Find and fix input validation flaws including cross site scripting XSS SQL injection HTTP response splitting encoding and special character abuse Get an in depth presentation of the newest SQL injection techniques including blind attacks advanced exploitation through subqueries Oracle exploits and improved countermeasures Learn about the latest XML Web Services hacks Web management attacks and DDoS attacks including click fraud Tour Firefox and IE exploits as well as the newest socially driven client attacks like phishing and adware [MSDN Magazine](#) ,2009-07 24 *Deadly Sins of Software Security* Michael Howard, A guide to computer software security covers such topics as Web server vulnerabilities buffer overruns format string problems integer overflows poor usability and cryptography

**Hacking Exposed Cisco Networks** Andrew Vladimirov, Konstantin Gavrilenko, Andrei Mikhailovsky, 2006-01-06 Focusing solely on Cisco network hacking security auditing and defense issues this book features all tools and code necessary to properly audit the security of Cisco network architecture

**C# 3.0 , Securing the Information Infrastructure** Joseph Migga Kizza, Florence Migga Kizza, 2008 This book examines how internet technology has become an integral part of our daily lives and as it does the security of these systems is essential With the ease of accessibility the dependence to a computer has sky rocketed which

makes security crucial Provided by publisher Extreme Exploits Victor Opplerman, 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

**Security in Computing** Charles P. Pfleeger, Shari Lawrence Pfleeger, 2007 The New State of the Art in Information Security Now Covers the Economics of Cyber Security and the Intersection of Privacy and Information Security For years IT and security professionals and students have turned to Security in Computing as the definitive guide to information about computer security attacks and countermeasures In their new fourth edition Charles P Pfleeger and Shari Lawrence Pfleeger have thoroughly updated their classic guide to reflect today's newest technologies standards and trends The authors first introduce the core concepts and vocabulary of computer security including attacks and controls Next the authors systematically identify and assess threats now facing programs operating systems database systems and networks For each threat they offer best practice responses Security in Computing Fourth Edition goes beyond technology covering crucial management issues faced in protecting infrastructure and information This edition contains an all new chapter on the economics of cybersecurity explaining ways to make a business case for security investments Another new chapter addresses privacy from data mining and identity theft to RFID and e voting New coverage also includes Programming mistakes that compromise security man in the middle timing and privilege escalation attacks Web application threats and vulnerabilities Networks of compromised systems bots botnets and drones Rootkits including the notorious Sony XCP Wi Fi network security challenges standards and techniques New malicious code attacks including false interfaces and keystroke loggers Improving code quality software engineering testing and liability approaches Biometric authentication capabilities and limitations Using the Advanced Encryption System AES more effectively Balancing dissemination with piracy control in music and other digital content Countering new cryptanalytic attacks against RSA DES and SHA Responding to the emergence of organized attacker groups pursuing profit

*How to Break Web Software* Mike Andrews, James A. Whittaker, 2006 Annotation Learn how web testing can help prepare for and prevent attacks on web applications

C# 3.0 THE COMPLETE REFERENCE 3/E Herbert Schildt, 2008-12-09 The Most Comprehensive C Resource Available With its support for Language Integrated Query LINQ C 3 0 has revolutionized C programming and bestselling author Herb Schildt has updated and expanded his classic programming reference to cover it Using carefully crafted explanations insider tips and hundreds of examples this book presents in depth coverage of all aspects of C including its keywords syntax and core libraries Of course details on the new C 3 0 features such as LINQ lambda expressions implicitly typed variables and anonymous types are included Essential for every C programmer this

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## **Table of Contents 19 Deadly Sins Of Software Security**

1. Understanding the eBook 19 Deadly Sins Of Software Security
  - The Rise of Digital Reading 19 Deadly Sins Of Software Security
  - Advantages of eBooks Over Traditional Books
2. Identifying 19 Deadly Sins Of Software Security
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 19 Deadly Sins Of Software Security
  - User-Friendly Interface
4. Exploring eBook Recommendations from 19 Deadly Sins Of Software Security
  - Personalized Recommendations
  - 19 Deadly Sins Of Software Security User Reviews and Ratings
  - 19 Deadly Sins Of Software Security and Bestseller Lists
5. Accessing 19 Deadly Sins Of Software Security Free and Paid eBooks
  - 19 Deadly Sins Of Software Security Public Domain eBooks
  - 19 Deadly Sins Of Software Security eBook Subscription Services
  - 19 Deadly Sins Of Software Security Budget-Friendly Options

6. Navigating 19 Deadly Sins Of Software Security eBook Formats
  - ePub, PDF, MOBI, and More
  - 19 Deadly Sins Of Software Security Compatibility with Devices
  - 19 Deadly Sins Of Software Security Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 19 Deadly Sins Of Software Security
  - Highlighting and Note-Taking 19 Deadly Sins Of Software Security
  - Interactive Elements 19 Deadly Sins Of Software Security
8. Staying Engaged with 19 Deadly Sins Of Software Security
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 19 Deadly Sins Of Software Security
9. Balancing eBooks and Physical Books 19 Deadly Sins Of Software Security
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 19 Deadly Sins Of Software Security
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine 19 Deadly Sins Of Software Security
  - Setting Reading Goals 19 Deadly Sins Of Software Security
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 19 Deadly Sins Of Software Security
  - Fact-Checking eBook Content of 19 Deadly Sins Of Software Security
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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