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# 19 DEADLY SINS



OF

# SOFTWARE SECURITY

Programming Flaws and  
How to Fix Them

Michael Howard *author*, David LeBlanc *reviser*, & John Viega

# 19 Deadly Sins Of Software Security

**Michael Howard, David LeBlanc, John  
Viega**



## 19 Deadly Sins Of Software Security:

*19 Deadly Sins Of Software Security* Howard, 2005-09-01      *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      **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      *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

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principles for safer internet use Wilson describes the principles that underlie all cybersecurity defense confidentiality integrity availability authentication authorization and non repudiation validating the source of information He explains that confidentiality is accomplished by cryptography examines the different layers of defense analyzes cyber risks threats and vulnerabilities and breaks down the cyber kill chain and the many forms of malware He reviews some online applications of cybersecurity including end to end security protection secure ecommerce transactions smart devices with built in protections and blockchain technology Finally Wilson considers the future of cybersecurity discussing the continuing evolution of cyber defenses as well as research that may alter the overall threat landscape

**Wiley Handbook of Science and Technology for Homeland Security, 4 Volume Set** John G. Voeller, 2010-04-12 The Wiley Handbook of Science and Technology for Homeland Security is an essential and timely collection of resources designed to support the effective communication of homeland security research across all disciplines and institutional boundaries Truly a unique work this 4 volume set focuses on the science behind safety security and recovery from both man made and natural disasters has a broad scope and international focus The Handbook Educates researchers in the critical needs of the homeland security and intelligence communities and the potential contributions of their own disciplines Emphasizes the role of fundamental science in creating novel technological solutions Details the international dimensions of homeland security and counterterrorism research Provides guidance on technology diffusion from the laboratory to the field Supports cross disciplinary dialogue in this field between operational R D and consumer communities

**Crisis Management: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2013-11-30 This book explores the latest empirical research and best real world practices for preventing weathering and recovering from disasters such as earthquakes or tsunamis to nuclear disasters and cyber terrorism Provided by publisher

**Designing, Engineering, and Analyzing Reliable and Efficient Software** Singh, Hardeep, 2013-02-28 Due to the role of software systems in safety critical applications and in the satisfaction of customers and organizations the development of efficient software engineering is essential Designing Engineering and Analyzing Reliable and Efficient Software discusses and analyzes various designs systems and advancements in software engineering With its coverage on the integration of mathematics computer science and practices in engineering this book highlights the importance of ensuring and maintaining reliable software and is an essential resource for practitioners professors and students in these fields of study

Securing the Information Infrastructure Kizza, Joseph, Migga Kizza, Florence, 2007-09-30 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

*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

[How to Break Web Software](#) Mike Andrews, James A. Whittaker, 2006-02-02 Rigorously test and improve the security of all your Web software It's as certain as death and taxes hackers will mercilessly attack your Web sites applications and services If you're vulnerable you'd better discover these attacks yourself before the black hats do Now there's a definitive hands on guide to security testing any Web based software

[How to Break Web Software](#) In this book two renowned experts address every category of Web software exploit attacks on clients servers state user inputs and more You'll master powerful attack tools and techniques as you uncover dozens of crucial widely exploited flaws in Web architecture and coding The authors reveal where to look for potential threats and attack vectors how to rigorously test for each of them and how to mitigate the problems you find Coverage includes Client vulnerabilities including attacks on client side validation State based attacks hidden fields CGI parameters cookie poisoning URL jumping and session hijacking Attacks on user supplied inputs cross site scripting SQL injection and directory traversal Language and technology based attacks buffer overflows canonicalization and NULL string attacks Server attacks SQL Injection with stored procedures command injection and server fingerprinting Cryptography privacy and attacks on Web services Your Web software is mission critical it can't be compromised Whether you're a developer tester QA specialist or IT manager this book will help you protect that software systematically

[The Art of Software Security Assessment](#) Mark Dowd, John McDonald, Justin Schuh, 2006-11-20 The Definitive Insider's Guide to Auditing Software Security This is one of the most detailed sophisticated and useful guides to software security auditing ever written The authors are leading security consultants and researchers who have personally uncovered vulnerabilities in applications ranging from sendmail to Microsoft Exchange Check Point VPN to Internet Explorer Drawing on their extraordinary experience they introduce a start to finish methodology for ripping apart applications to reveal even the most subtle and well hidden security flaws The Art of Software Security Assessment covers the full spectrum of software vulnerabilities in both UNIX Linux and Windows environments It demonstrates how to audit security in applications of all sizes and functions including network and Web software Moreover it teaches using extensive

examples of real code drawn from past flaws in many of the industry's highest profile applications Coverage includes Code auditing theory practice proven methodologies and secrets of the trade Bridging the gap between secure software design and post implementation review Performing architectural assessment design review threat modeling and operational review Identifying vulnerabilities related to memory management data types and malformed data UNIX Linux assessment privileges files and processes Windows specific issues including objects and the filesystem Auditing interprocess communication synchronization and state Evaluating network software IP stacks firewalls and common application protocols Auditing Web applications and technologies

**Web Information Systems Engineering - WISE 2005** Anne H.H. Ngu, 2005-11-04 This book constitutes the proceedings of the 6th International Conference on Web Information Systems Engineering WISE 2005 held in New York NY USA in November 2005 The 30 revised full papers and 20 revised short papers presented together with 18 poster papers were carefully reviewed and selected from 259 submissions The papers are organized in topical sections on Web mining Web information retrieval metadata management ontology and semantic Web XML Web service method Web service structure collaborative methodology P2P ubiquitous and mobile document retrieval applications Web services and e commerce recommendation and Web information extraction P2P grid and distributed management and advanced issues The presentation is rounded off by 14 industrial papers and the abstracts of 4 tutorial sessions

*Artificial Immune Systems* Emma Hart, Chris McEwan, Jon Timmis, Andy Hone, 2010-07-16 Artificial immune systems AIS is a diverse and maturing area of research that bridges the disciplines of immunology and computation The original research impetus in AIS had a clear focus on applying immunological principles to computational problems in practical domains such as computer security data mining and optimization As the field has matured it has diversified such that we now see a growing interest in formalizing the theoretical properties of earlier approaches elaborating underlying relationships between applied computational models and those from theoretical immunology as well a return to the roots of the domain in which the methods of computer science are being applied to immunological modelling problems Following the trends in the field the ICARIS conference intends to provide a forum for all these perspectives The 9th International Conference on AIS ICARIS 2010 built on the success of previous years providing a convenient vantage point for broader reflection as it returned to Edinburgh the venue of the Second ICARIS in 2003 This time the conference was hosted by Edinburgh Napier University at its Craiglockhart Campus recently reopened after extensive refurbishment which has resulted in a stunning building and state of the art facilities The extent to which the field has matured over the preceding years is clear a substantial track of theoretical research now underpins the discipline The applied stream has expanded in its outlook and has examples of AIS algorithms being applied across a wide spectrum of practical problems ranging from sensor networks to semiconductor design

**Distributed Database Management Systems** Saeed K. Rahimi, Frank S. Haug, 2015-02-13 This book addresses issues related to managing data across a distributed database system It is unique because it covers traditional database theory and current research explaining the difficulties in

providing a unified user interface and global data dictionary The book gives implementers guidance on hiding discrepancies across systems and creating the illusion of a single repository for users It also includes three sample frameworks implemented using J2SE with JMS J2EE and Microsoft Net that readers can use to learn how to implement a distributed database management system IT and development groups and computer sciences software engineering graduates will find this guide invaluable

**VMware vSphere and Virtual Infrastructure Security** Edward Haletky, 2009-06-22 Complete Hands On Help for Securing VMware vSphere and Virtual Infrastructure by Edward Haletky Author of the Best Selling Book on VMware VMware ESX Server in the Enterprise As VMware has become increasingly ubiquitous in the enterprise IT professionals have become increasingly concerned about securing it Now for the first time leading VMware expert Edward Haletky brings together comprehensive guidance for identifying and mitigating virtualization related security threats on all VMware platforms including the new cloud computing platform vSphere This book reflects the same hands on approach that made Haletky's VMware ESX Server in the Enterprise so popular with working professionals Haletky doesn't just reveal where you might be vulnerable he tells you exactly what to do and how to reconfigure your infrastructure to address the problem VMware vSphere and Virtual Infrastructure Security begins by reviewing basic server vulnerabilities and explaining how security differs on VMware virtual servers and related products Next Haletky drills deep into the key components of a VMware installation identifying both real and theoretical exploits and introducing effective countermeasures Coverage includes Viewing virtualization from the attacker's perspective and understanding the new security problems it can introduce Discovering which security threats the vmkernel does and doesn't address Learning how VMsafe enables third party security tools to access the vmkernel API Understanding the security implications of VMI paravirtualization and VMware Tools Securing virtualized storage authentication disk encryption virtual storage networks isolation and more Protecting clustered virtual environments that use VMware High Availability Dynamic Resource Scheduling Fault Tolerance vMotion and Storage vMotion Securing the deployment and management of virtual machines across the network Mitigating risks associated with backup performance management and other day to day operations Using multiple security zones and other advanced virtual network techniques Securing Virtual Desktop Infrastructure VDI Auditing virtual infrastructure and conducting forensic investigations after a possible breach [informit.com/ph/www.Astroarch.com](http://informit.com/ph/www.Astroarch.com)

*Computer Security and the Internet* Paul C. van Oorschot, 2020-04-04 This book provides a concise yet comprehensive overview of computer and Internet security suitable for a one term introductory course for junior senior undergrad or first year graduate students It is also suitable for self study by anyone seeking a solid footing in security including software developers and computing professionals technical managers and government staff An overriding focus is on brevity without sacrificing breadth of core topics or technical detail within them The aim is to enable a broad understanding in roughly 350 pages Further prioritization is supported by designating as optional selected content within this Fundamental academic concepts are reinforced by specifics and



examples and related to applied problems and real world incidents The first chapter provides a gentle overview and 20 design principles for security The ten chapters that follow provide a framework for understanding computer and Internet security They regularly refer back to the principles with supporting examples These principles are the conceptual counterparts of security related error patterns that have been recurring in software and system designs for over 50 years The book is elementary in that it assumes no background in security but unlike soft high level texts it does not avoid low level details instead it selectively dives into fine points for exemplary topics to concretely illustrate concepts and principles The book is rigorous in the sense of being technically sound but avoids both mathematical proofs and lengthy source code examples that typically make books inaccessible to general audiences Knowledge of elementary operating system and networking concepts is helpful but review sections summarize the essential background For graduate students inline exercises and supplemental references provided in per chapter endnotes provide a bridge to further topics and a springboard to the research literature for those in industry and government pointers are provided to helpful surveys and relevant standards e g documents from the Internet Engineering Task Force IETF and the U S National Institute of Standards and Technology

## Unveiling the Power of Verbal Art: An Mental Sojourn through **19 Deadly Sins Of Software Security**

In a world inundated with monitors and the cacophony of quick transmission, the profound power and psychological resonance of verbal beauty usually fade into obscurity, eclipsed by the regular assault of noise and distractions. Yet, nestled within the musical pages of **19 Deadly Sins Of Software Security**, a interesting perform of fictional splendor that pulses with fresh feelings, lies an unique trip waiting to be embarked upon. Published by a virtuoso wordsmith, that interesting opus courses readers on a psychological odyssey, delicately revealing the latent possible and profound impact stuck within the complicated web of language. Within the heart-wrenching expanse with this evocative examination, we shall embark upon an introspective exploration of the book is key styles, dissect their interesting writing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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### 19 Deadly Sins Of Software Security Introduction

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