Writing Secure Code 2nd Edition Developer Best Practices

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Network Security Assessment Chris McNab 2007-11-01 How secure is your network? The best way to find out is to attack it. Network Security Assessment provides you with the tricks and tools professional security consultants use to identify and assess risks in Internet-based networks-the same penetration testing model they use to secure government, military, and commercial networks. With this book, you can adopt, refine, and reuse this testing model to design and deploy networks that are hardened and immune from attack. Network Security Assessment demonstrates how a determined attacker scours Internet-based networks in search of vulnerable components, from the network to the application level. This new edition is up-to-date on the latest hacking techniques, but rather than focus on individual issues, it looks at the bigger picture by grouping and analyzing threats at a high-level. By grouping threats in this way, you learn to create defensive strategies against entire attack categories, providing protection now and into the future. Network Security Assessment helps you assess: Web services, including Microsoft IIS, Apache, Tomcat, and subsystems such as OpenSSL, Microsoft FrontPage, and Outlook Web Access (OWA) Web application technologies, including ASP, JSP, PHP, middleware, and backend databases such as MySQL, Oracle, and Microsoft SQL Server Microsoft Windows networking components, including RPC, NetBIOS, and CIFS services SMTP, POP3, and IMAP email services IP services that provide secure inbound network access, including IPsec, Microsoft PPTP, and SSL VPNs Unix RPC services on Linux, Solaris, IRIX, and other platforms Various types of application-level vulnerabilities that hacker tools and scripts exploit Assessment is the first step any organization should take to start managing information risks correctly. With techniques to identify and assess risks in line with CESG CHECK and NSA IAM government standards, Network Security Assessment gives you a precise method to do just that.

CD and DVD Forensics Paul Crowley 2006-12-12 CD and DVD Forensics will take the reader through all facets of handling, examining, and processing CD and DVD evidence for computer forensics. At a time where data forensics is becoming a major part of law enforcement and prosecution in the public sector, and corporate and system security in the private sector, the interest in this subject has just begun to blossom. CD and DVD Forensics is a how to book that will give the reader tools to be able to open CDs and DVDs in an effort to identify evidence of a crime. These tools can be applied in both the public and private sectors. Armed with this information, law enforcement, corporate security, and private investigators will be able to be more effective in their evidence related tasks. To accomplish this the book is divided into four basic parts: (a) CD and DVD physics dealing with the history, construction and technology of CD and DVD media, (b) file systems present on CDs and DVDs and how these are different from that which is found on hard disks, floppy disks and other media, (c) considerations for handling CD and DVD evidence to both recover the maximum amount of information present on a disc and to do so without destroying or altering the disc in any way, and (d) using the InfinaDyne product CD/DVD Inspector to examine discs in detail and collect evidence. This is the first book addressing using the CD/DVD Inspector product in a hands-on manner with a complete step-by-step guide for examining evidence discs See how to open CD's and DVD'd and extract all the crucial evidence they may contain

Engineering Secure Software and Systems Úlfar Erlingsson 2011-01-31 This book constitutes the refereed proceedings of the Third International Symposium on Engineering Secure Software and Systems, ESSoS 2011, held in Madrid, Italy, in February 2011. The 18 revised full papers presented together with 3 idea papers were carefully reviewed and selected from 63 submissions. The papers are organized in topical sections on model-based security, tools and mechanisms, Web security, security requirements engineering, and authorization.

Windows Developer Power Tools James Avery 2007-06-26 A wealth of open and free software is available today for Windows developers who want to extend the development environment, reduce development effort, and increase productivity. This encyclopedic guide explores more than 100 free and open source tools available to programmers who build applications for Windows desktops and servers.

Hacking Exposed Web Applications, Second Edition Joel Scambray 2006-06-05 A guide to Web site security looks at the ways hackers target and attack vulnerable sites and provides information and case studies on countermeasures and security techniques.

Essential PHP Security Chris Shiflett 2005-10-13 Being highly flexible in building dynamic, database-driven web applications makes the PHP programming language one of the most popular web development tools in use today. It also works beautifully with other open source tools, such as the MySQL database and the Apache web server. However, as more web sites are developed in PHP, they become targets for malicious attackers, and developers need to prepare for the attacks. Security is an issue that demands attention, given the growing frequency of attacks on web sites. Essential PHP Security explains the most common types of attacks and how to write code that isn't susceptible to them. By examining specific attacks and the techniques used to protect against them, you will have a deeper understanding and appreciation of the safeguards you are about to learn in this book. In the much-needed (and highly-requested) Essential PHP Security, each chapter covers an aspect of a web application (such as form processing, database programming, session management, and authentication). Chapters describe potential attacks with examples and then explain techniques to help you prevent those attacks. Topics covered include: Preventing cross-site scripting (XSS) vulnerabilities Protecting against SQL injection attacks Complicating session hijacking attempts You are in good hands with author Chris Shiflett, an internationally-recognized expert in the field of PHP security. Shiflett is also the founder and President of Brain Bulb, a PHP consultancy that offers a variety of services to clients around the world.

Security with Go John Daniel Leon 2018-01-31 The first stop for your security needs when using Go, covering host, network, and cloud security for ethical hackers and defense against intrusion Key Features First introduction to Security with Golang Adopting a Blue Team/Red Team approach Take advantage of speed and inherent safety of Golang Works as an introduction to security for Golang developers Works as a guide to Golang security packages for recent Golang beginners Book Description Go is becoming more and more popular as a language for security experts. Its wide use in server and cloud environments, its speed and ease of use, and its evident capabilities for data analysis, have made it a prime choice for developers who need to think about security. Security with Go is the first Golang security book, and it is useful for both blue team and red team applications. With this book, you will learn how to write secure software, monitor your systems, secure your data, attack systems, and extract information. Defensive topics include cryptography, forensics, packet capturing, and building secure web applications. Offensive topics include brute force, port scanning, packet injection, web scraping, social engineering, and post exploitation techniques. What you will learn Learn the basic concepts and principles of secure programming Write secure Golang programs and applications Understand classic patterns of attack Write Golang scripts to defend against network-level attacks Learn how to use Golang security packages Apply and explore cryptographic methods and packages Learn the art of defending against brute force attacks Secure web and cloud applications Who this book is for Security with Go is aimed at developers with basics in Go to the level that they can write their own scripts and small programs without difficulty. Readers should be familiar with security concepts, and familiarity with Python security applications and libraries is an advantage, but not a necessity.

Official (ISC)2 Guide to the CSSLP Mano Paul 2016-04-19 As the global leader in information security education and certification, (ISC)2 has a proven track record of educating and certifying information security professionals. Its newest certification, the Certified Secure Software Lifecycle Professional (CSSLP) is a testament to the organization's ongoing commitment to information and software security

Software Technology and Engineering

ASP.NET Core 5 Secure Coding Cookbook Roman Canlas 2021-07-16 Learn how to secure your ASP.NET Core web app through robust and secure code Key FeaturesDiscover the different types of security weaknesses in ASP.NET Core web applications and learn how to fix themUnderstand what code makes an ASP.NET Core web app unsafeBuild your secure coding knowledge by following straightforward recipesBook Description ASP.NET Core developers are often presented with security test results showing the vulnerabilities found in their web apps. While the report may provide some high-level fix suggestions, it does not specify the exact steps that you need to take to resolve or fix weaknesses discovered by these tests. In ASP.NET Secure Coding Cookbook, you'll start by learning the fundamental concepts of secure coding and then gradually progress to identifying common web app vulnerabilities in code. As you progress, you'll cover recipes for fixing security misconfigurations in ASP.NET Core web apps. The book further demonstrates how you can resolve different types of Cross-Site Scripting. A dedicated section also takes you through fixing miscellaneous vulnerabilities that are no longer in the OWASP Top 10 list. This book features a recipe-style format, with each recipe containing sample unsecure code that presents the problem and corresponding solutions to eliminate the security bug. You'll be able to follow along with each step of the exercise and use the accompanying sample ASP.NET Core solution to practice writing secure code. By the end of this book, you'll be able to identify unsecure code causing different security flaws in ASP.NET Core web apps and you'll have gained hands-on experience in removing vulnerabilities and security defects from your code. What you will learnUnderstand techniques for squashing an ASP.NET Core web app security bugDiscover different types of injection attacks and understand how you can prevent this vulnerability from being exploitedFix security issues in code relating to broken authentication and authorizationEliminate the risks of sensitive data exposure by getting up to speed with numerous protection techniquesPrevent security misconfiguration by enabling ASP.NET Core web application security featuresExplore other ASP.NET web application vulnerabilities and secure coding best practicesWho this book is for This ASP.NET Core book is for intermediate-level ASP.NET Core web developers and software engineers who use the framework to develop web applications and are looking to focus on their security using coding best practices. The book is also for application security engineers, analysts, and specialists who want to know more about securing ASP.NET Core using code and understand how to resolve issues identified by the security tests they perform daily.

Secure Programming with Static Analysis Brian Chess 2007-06-29 The First Expert Guide to Static Analysis for Software Security! Creating secure code requires more than just good intentions. Programmers need to know that their code will be safe in an almost infinite number of scenarios and configurations. Static source code analysis gives users the ability to review their work with a fine-toothed comb and uncover the kinds of errors that lead directly to security vulnerabilities. Now, there’s a complete guide to static analysis: how it works, how to integrate it into the software development processes, and how to make the most of it during security code review. Static analysis experts Brian Chess and Jacob West look at the most common types of security defects that occur today. They illustrate main points using Java and C code examples taken from real-world security incidents, showing how coding errors are exploited, how they could have been prevented, and how static analysis can rapidly uncover similar mistakes. This book is for everyone concerned with building more secure software: developers, security engineers, analysts, and testers.

Effective Use of Microsoft Enterprise Library Len Fenster 2006-06-09 Writing robust enterprise applications presents a special challenge for developers, but Microsoft has addressed that challenge with the free, downloadable Enterprise Library for the .NET Framework. Enterprise Library is a collection of application blocks and guidance documents that together provide functionality common to enterprise applications; each application block includes full source code. Lacking in the guidance provided by Microsoft is an overall roadmap to the process of using the application blocks. Effective Use of Microsoft Enterprise Library is that roadmap. Microsoft application development lead architect Len Fenster explains exactly how to build applications using Enterprise Library application blocks. Fenster covers all seven application blocks as implemented for .NET Framework 1.1, shows how to develop and use a new application block, and explains how Enterprise Library is changing for .NET Framework 2.0. Readers will learn How the Configuration Application Block is designed and can be used at runtime to easily read and write configuration data How the Configuration Application Block works at design time for all blocks How to use the Data Access Block to create a portable data layer How to use the Exception Handling Application Block to implement a policy-driven, application-wide exception handling system How to use the Logging and Instrumentation Application Block to log and instrument messages independent of the message destination How to add authentication, authorization, role membership, security cache, and profile membership features to an application with the Security Application Block How to use the Cryptography Application Block to add functionality to encrypt and decrypt data and create and compare hashes How to build your own application block and providers that “snap” right into Enterprise Library Whether you plan to extend Enterprise Library for your organization, or just use the existing application blocks to add functionality to your architecture in a consistent, extensible, integrated way, this book will guide you through the complexities and help you find a clear path to success.

The Security Development Lifecycle Michael Howard 2006 Describes how to put software security into practice, covering such topics as risk analysis, coding policies, Agile Methods, cryptographic standards, and threat tree patterns.

The Antivirus Hacker's Handbook Joxean Koret 2015-08-27 Hack your antivirus software to stamp out future vulnerabilities The Antivirus Hacker's Handbook guides you through the process of reverse engineering antivirus software. You explore how to detect and exploit vulnerabilities that can be leveraged to improve future software design, protect your network, and anticipate attacks that may sneak through your antivirus' line of defense. You'll begin building your knowledge by diving into the reverse engineering process, which details how to start from a finished antivirus software program and work your way back through its development using the functions and other key elements of the software. Next, you leverage your new knowledge about software development to evade, attack, and exploit antivirus software—all of which can help you strengthen your network and protect your data. While not all viruses are damaging, understanding how to better protect your computer against them can help you maintain the integrity of your network. Discover how to reverse engineer your antivirus software Explore methods of antivirus software evasion Consider different ways to attack and exploit antivirus software Understand the current state of the antivirus software market, and get recommendations for users and vendors who are leveraging this software The Antivirus Hacker's Handbook is the essential reference for software reverse engineers, penetration testers, security researchers, exploit writers, antivirus vendors, and software engineers who want to understand how to leverage current antivirus software to improve future applications.

Foundations of Security Christoph Kern 2007-05-11 Software developers need to worry about security as never before. They need clear guidance on safe coding practices, and that’s exactly what this book delivers. The book does not delve deep into theory, or rant about the politics of security. Instead, it clearly and simply lays out the most common threats that programmers need to defend against. It then shows programmers how to make their defense. The book takes a broad focus, ranging over SQL injection, worms and buffer overflows, password security, and more. It sets programmers on the path towards successfully defending against the entire gamut of security threats that they might face.

Drupal Cindy McCourt 2011-07-12 A complete lifecycle guide to planning and building a site with Drupal Drupal allows you to quickly and easily build a wide variety of web sites, from very simple blog sites to extremely complex sites that integrate with other systems. In order to maximize what Drupal can do for you, you need to plan. Whether you are building with Drupal 6 or 7, this book details the steps necessary to plan your site so you can make informed decisions before you start to build. Explains how to define the scope of your project Shows you how to create a design plan taking into consideration how Drupal works Helps you make informed decisions regarding development methodologies, environments, standards, and site security Reviews ways to assess the use of existing and/or custom Drupal modules Teaches you how to avoid common pitfalls that can impact a successful site launch Walks you through preparing for post-launch site maintenance and management tasks Details incorporating the nature of open source systems into your management strategies Identifies ways to interact with members of the Drupal community The processes and techniques provided in this book will empower you to create a successful and sustainable site with Drupal.

IPv6 Network Programming Jun-ichiro itojun Hagino 2004-11-16 This book contains everything you need to make your application program support IPv6. IPv6 socket APIs (RFC2553) are fully described with real-world examples. It covers security, a great concern these days. To secure the Internet infrastructure, every developer has to take a security stance - to audit every line of code, to use proper API and write correct and secure code as much as possible. To achieve this goal, the examples presented in this book are implemented with a security stance. Also, the book leads you to write secure programs. For instance, the book recommends against the use of some of the IPv6 standard APIs - unfortunately, there are some IPv6 APIs that are inherently insecure, so the book tries to avoid (and discourage) the use of such APIs. Another key issue is portability. The examples in the book should be applicable to any of UNIX based operating systems, MacOS X, and Windows XP. * Covers the new protocol just adopted by the Dept of Defense for future systems * Deals with security concerns, including spam and email, by presenting the best programming standards * Fully describes IPv6 socket APIs (RFC2553) using real-world examples * Allows for portability to UNIX-based operating systems, MacOS X, and Windows XP

Wireshark & Ethereal Network Protocol Analyzer Toolkit Angela Orebaugh 2006-12-18 Ethereal is the #2 most popular open source security tool used by system administrators and security professionals. This all new book builds on the success of Syngress’ best-selling book Ethereal Packet Sniffing. Wireshark & Ethereal Network Protocol Analyzer Toolkit provides complete information and step-by-step Instructions for analyzing protocols and network traffic on Windows, Unix or Mac OS X networks. First, readers will learn about the types of sniffers available today and see the benefits of using Ethereal. Readers will then learn to install Ethereal in multiple environments including Windows, Unix and Mac OS X as well as building Ethereal from source and will also be guided through Ethereal’s graphical user interface. The following sections will teach readers to use command-line options of Ethereal as well as using Tethereal to capture live packets from the wire or to read saved capture files. This section also details how to import and export files between Ethereal and WinDump, Snort, Snoop, Microsoft Network Monitor, and EtherPeek. The book then teaches the reader to master advanced tasks such as creating sub-trees, displaying bitfields in a graphical view, tracking requests and reply packet pairs as well as exclusive coverage of MATE, Ethereal’s brand new configurable upper level analysis engine. The final section to the book teaches readers to enable Ethereal to read new Data sources, program their own protocol dissectors, and to create and customize Ethereal reports. Ethereal is the #2 most popular open source security tool, according to a recent study conducted by insecure.org Syngress' first Ethereal book has consistently been one of the best selling security books for the past 2 years

Office 365: Migrating and Managing Your Business in the Cloud Matthew Katzer 2014-01-23 Written for the IT professional and business owner, this book provides the business and technical insight necessary to migrate your business to the cloud using Microsoft Office 365. This is a practical look at cloud migration and the use of different technologies to support that migration. Numerous examples of cloud migration with technical migration details are included. Cloud technology is a tremendous opportunity for an organization to reduce IT costs, and to improve productivity with increased access, simpler administration and improved services. Those businesses that embrace the advantages of the cloud will receive huge rewards in productivity and lower total cost of ownership over those businesses that choose to ignore it. The challenge for those charged with implementing Microsoft Office 365 is to leverage these advantages with the minimal disruption of their organization. This book provides practical help in moving your business to the Cloud and covers the planning, migration and the follow on management of the Office 365 Cloud services.

Core Software Security James Ransome 2013-12-09 "... an engaging book that will empower readers in both large and small software development and engineering organizations to build security into their products. ... Readers are armed with firm solutions for the fight against cyber threats." —Dr. Dena Haritos Tsamitis. Carnegie Mellon University "... a must read for security specialists, software developers and software engineers. ... should be part of every security professional’s library." —Dr. Larry Ponemon, Ponemon Institute "... the definitive how-to guide for software security professionals. Dr. Ransome, Anmol Misra, and Brook Schoenfield deftly outline the procedures and policies needed to integrate real security into the software development process. ...A must-have for anyone on the front lines of the Cyber War ..." —Cedric Leighton, Colonel, USAF (Ret.), Cedric Leighton Associates "Dr. Ransome, Anmol Misra, and Brook Schoenfield give you a magic formula in this book - the methodology and process to build security into the entire software development life cycle so that the software is secured at the source! " —Eric S. Yuan, Zoom Video Communications There is much publicity regarding network security, but the real cyber Achilles’ heel is insecure software. Millions of software vulnerabilities create a cyber house of cards, in which we conduct our digital lives. In response, security people build ever more elaborate cyber fortresses to protect this vulnerable software. Despite their efforts, cyber fortifications consistently fail to protect our digital treasures. Why? The security industry has failed to engage fully with the creative, innovative people who write software. Core Software Security expounds developer-centric software security, a holistic process to engage creativity for security. As long as software is developed by humans, it requires the human element to fix it. Developer-centric security is not only feasible but also cost effective and operationally relevant. The methodology builds security into software development, which lies at the heart of our cyber infrastructure. Whatever development method is employed, software must be secured at the source. Book Highlights: Supplies a practitioner's view of the SDL Considers Agile as a security enabler Covers the privacy elements in an SDL Outlines a holistic business-savvy SDL framework that includes people, process, and technology Highlights the key success factors, deliverables, and metrics for each phase of the SDL Examines cost efficiencies, optimized performance, and organizational structure of a developer-centric software security program and PSIRT Includes a chapter by noted security architect Brook Schoenfield who shares his insights and experiences in applying the book’s SDL framework View the authors' website at http://www.androidinsecurity.com/

Adversarial and Uncertain Reasoning for Adaptive Cyber Defense Sushil Jajodia 2019-08-30 Today’s cyber defenses are largely static allowing adversaries to pre-plan their attacks. In response to this situation, researchers have started to investigate various methods that make networked information systems less homogeneous and less predictable by engineering systems that have homogeneous functionalities but randomized manifestations. The 10 papers included in this State-of-the Art Survey present recent advances made by a large team of researchers working on the same US Department of Defense Multidisciplinary University Research Initiative (MURI) project during 2013-2019. This project has developed a new class of technologies called Adaptive Cyber Defense (ACD) by building on two active but heretofore separate research areas: Adaptation Techniques (AT) and Adversarial Reasoning (AR). AT methods introduce diversity and uncertainty into networks, applications, and hosts. AR combines machine learning, behavioral science, operations research, control theory, and game theory to address the goal of computing effective strategies in dynamic, adversarial environments.

The 7 Qualities of Highly Secure Software Mano Paul 2012-05-29 The 7 Qualities of Highly Secure Software provides a framework for designing, developing, and deploying hacker-resilient software. It uses engaging anecdotes and analogies-ranging from Aesop's fables, athletics, architecture, biology, nursery rhymes, and video games-to illustrate the qualities that are essential for the development of highly secure

Software Development Techniques for Constructive Information Systems Design Buragga, Khalid A. 2013-03-31 Software development and information systems design have a unique relationship, but are often discussed and studied independently. However, meticulous software development is vital for the success of an information system. Software Development Techniques for Constructive Information Systems Design focuses the aspects of information systems and software development as a merging process. This reference source pays special attention to the emerging research, trends, and experiences in this area which is bound to enhance the reader's understanding of the growing and ever-adapting field. Academics, researchers, students, and working professionals in this field will benefit from this publication's unique perspective.

Agile Database Techniques Scott Ambler 2012-09-17 Describes Agile Modeling Driven Design (AMDD) and Test-Driven Design (TDD) approaches, database refactoring, database encapsulation strategies, and tools that support evolutionary techniques Agile software developers often use object and relational database (RDB) technology together and as a result must overcome the impedance mismatch The author covers techniques for mapping objects to RDBs and for implementing concurrency control, referential integrity, shared business logic, security access control, reports, and XML An agile foundation describes fundamental skills that all agile software developers require, particularly Agile DBAs Includes object modeling, UML data modeling, data normalization, class normalization, and how to deal with legacy databases Scott W. Ambler is author of Agile Modeling (0471202827), a contributing editor with Software Development (www.sdmagazine.com), and a featured speaker at software conferences worldwide

Open Enterprise Security Architecture O-ESA Gunnar Petersen 1970-01-01 Information Security professionals today have to be able to demonstrate their security strategies within clearly demonstrable frameworks, and show how these are driven by their organization's business priorities, derived from sound risk management assessments.This Open Enterprise Security Architecture (O-ESA) Guide provides a valuable reference resource for practising security architects and designers explaining the key security issues, terms, principles, components, and concepts underlying security-related decisions that security architects and designers have to make. In doing so it helps in explaining their security architectures and related decision-making processes to their enterprise architecture colleagues.The description avoids excessively technical presentation of the issues and concepts, so making it also an eminently digestible reference for business managers - enabling them to appreciate, validate, and balance the security architecture viewpoints along with all the other viewpoints involved in creating a comprehensive enterprise IT architecture.

Handbook of Research on Information Security and Assurance Gupta, Jatinder N. D. 2008-08-31 "This book offers comprehensive explanations of topics in computer system security in order to combat the growing risk associated with technology"--Provided by publisher.

Practical Core Software Security James F. Ransome 2022-08-02 As long as humans write software, the key to successful software security is making the software development program process more efficient and effective. Although the approach of this textbook includes people, process, and technology approaches to software security, Practical Core Software Security: A Reference Framework stresses the people element of software security, which is still the most important part to manage as software is developed, controlled, and exploited by humans. The text outlines a step-by-step process for software security that is relevant to today’s technical, operational, business, and development environments. It focuses on what humans can do to control and manage a secure software development process using best practices and metrics. Although security issues will always exist, students learn how to maximize an organization’s ability to minimize vulnerabilities in software products before they are released or deployed by building security into the development process. The authors have worked with Fortune 500 companies and have often seen examples of the breakdown of security development lifecycle (SDL) practices. The text takes an experience-based approach to apply components of the best available SDL models in dealing with the problems described above. Software security best practices, an SDL model, and framework are presented in this book. Starting with an overview of the SDL, the text outlines a model for mapping SDL best practices to the software development life cycle (SDLC). It explains how to use this model to build and manage a mature SDL program. Exercises and an in-depth case study aid students in mastering the SDL model. Professionals skilled in secure software development and related tasks are in tremendous demand today. The industry continues to experience exponential demand that should continue to grow for the foreseeable future. This book can benefit professionals as much as students. As they integrate the book’s ideas into their software security practices, their value increases to their organizations, management teams, community, and industry. About the Authors Dr. James Ransome, PhD, CISSP, CISM is a veteran of numerous chief information security officer (CISO), chief security officer (CSO), and chief production security officer (CPSO) roles, as well as an author and co-author of numerous cybersecurity books. Anmol Misra is an accomplished leader, researcher, author, and security expert with over 16 years of experience in technology and cybersecurity. Mark S. Merkow, CISSP, CISM, CSSLP has over 25 years of experience in corporate information security and 17 years in the AppSec space helping to establish and lead application security initiatives to success and sustainment.

24 Deadly Sins of Software Security: Programming Flaws and How to Fix Them John Viega 2009-09-24 "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

Absolute OpenBSD, 2nd Edition Michael W. Lucas 2013-04-15 OpenBSD, the elegant, highly secure Unix-like operating system, is widely used as the basis for critical DNS servers, routers, firewalls, and more. This long-awaited second edition of Absolute OpenBSD maintains author Michael Lucas's trademark straightforward and practical approach that readers have enjoyed for years. You'll learn the intricacies of the platform, the technical details behind certain design decisions, and best practices, with bits of humor sprinkled throughout. This edition has been completely updated for OpenBSD 5.3, including new coverage of OpenBSD's boot system, security features like W^X and ProPolice, and advanced networking techniques. You'll learn how to: -Manage network traffic with VLANs, trunks, IPv6, and the PF packet filter -Make software management quick and effective using the ports and packages system -Give users only the access they need with groups, sudo, and chroots -Configure OpenBSD's secure implementations of SNMP, DHCP, NTP, hardware sensors, and more -Customize the installation and upgrade processes for your network and hardware, or build a custom OpenBSD release Whether you're a new user looking for a complete introduction to OpenBSD or an experienced sysadmin looking for a refresher, Absolute OpenBSD, 2nd Edition will give you everything you need to master the intricacies of the world's most secure operating system.

Security-Aware Systems Applications and Software Development Methods Khan, Khaled M. 2012-05-31 With the prevalence of cyber crime and cyber warfare, software developers must be vigilant in creating systems which are impervious to cyber attacks. Thus, security issues are an integral part of every phase of software development and an essential component of software design. Security-Aware Systems Applications and Software Development Methods facilitates the promotion and understanding of the technical as well as managerial issues related to secure software systems and their development practices. This book, targeted toward researchers, software engineers, and field experts, outlines cutting-edge industry solutions in software engineering and security research to help overcome contemporary challenges.

C# 7.0 All-in-One For Dummies John Paul Mueller 2017-12-07 Sharpen your knowledge of C# C# know-how is a must if you want to be a professional Microsoft developer. It's also good to know a little C# if you're building tools for the web, mobile apps, or other development tasks. C# 7.0 All-in-One For Dummies offers a deep dive into C# for coders still learning the nuances of the valuable programming language. Pop it open to get an intro into coding with C#, how to design secure apps and databases, and even pointers on building web and mobile apps with C#. C# remains one of the most in-demand programming language skills. The language regularly ranks in the top five among "most in-demand" languages, typically along with Java/JavaScript, C++, and Python. A December 2016 ZDNet article noted 'If your employer is a

Microsoft developer, you better know C#." Lucky for you, this approachable, all-in-one guide is here to help you do just that—without ever breaking a sweat! Includes coverage of the latest changes to C# Shows you exactly what the language can (and can't) do Presents familiar tasks that you can accomplish with C# Provides insight into developing applications that provide protection against hackers If you have a basic understanding of coding and need to learn C#—or need a reference on the language in order to launch or further your career—look no further.

Introducing Microsoft Visual Basic 2005 for Developers Sean Campbell 2005 About the Technology: Microsoft Visual Studio .NET 2003, a minor release, launched in April 2003. This book will be based on the first public beta, which will be probably in early 2004.

Beginning ASP.NET Security Barry Dorrans 2010-04-27 Programmers: protect and defend your Web apps against attack! You may know ASP.NET, but if you don't understand how to secure your applications, you need this book. This vital guide explores the often-overlooked topic of teaching programmers how to design ASP.NET Web applications so as to prevent online thefts and security breaches. You'll start with a thorough look at ASP.NET 3.5 basics and see happens when you don't implement security, including some amazing examples. The book then delves into the development of a Web application, walking you through the vulnerable points at every phase. Learn to factor security in from the ground up, discover a wealth of tips and industry best practices, and explore code libraries and more resources provided by Microsoft and others. Shows you step by step how to implement the very latest security techniques Reveals the secrets of secret-keeping—encryption, hashing, and not leaking information to begin with Delves into authentication, authorizing, and securing sessions Explains how to secure Web servers and Web services, including WCF and ASMX Walks you through threat modeling, so you can anticipate problems Offers best practices, techniques, and industry trends you can put to use right away Defend and secure your ASP.NET 3.5 framework Web sites with this must-have guide.

Detection of Intrusions and Malware, and Vulnerability Assessment Cristiano Giuffrida 2018-06-21 This book constitutes the refereed proceedings of the 15th International Conference on Detection of Intrusions and Malware, and Vulnerability Assessment, DIMVA 2018, held in Saclay, France, in June 2018. The 17 revised full papers and 1 short paper included in this book were carefully reviewed and selected from 59 submissions. They present topics such as malware analysis; mobile and embedded security; attacks; detection and containment; web and browser security; and reverse engineering.

Programming Windows Identity Foundation Vittorio Bertocci 2010-09-15 Get hands-on guidance designed to help you put the newest .NET Framework component- Windows Identity Foundation, the identity and access logic for all on-premises and cloud development- to work.

Official (ISC)2 Guide to the CSSLP CBK Mano Paul 2013-08-20 Application vulnerabilities continue to top the list of cyber security concerns. While attackers and researchers continue to expose new application vulnerabilities, the most common application flaws are previous, rediscovered threats. For example, SQL injection and cross-site scripting (XSS) have appeared on the Open Web Application Security Projec

Secure Development for Mobile Apps J. D. Glaser 2014-10-13 The world is becoming increasingly mobile. Smartphones and tablets have become more powerful and popular, with many of these devices now containing confidential business, financial, and personal information. This has led to a greater focus on mobile software security. Establishing mobile software security should be of primary concern to every mobile application developer. This book explains how you can create mobile social applications that incorporate security throughout the development process. Although there are many books that address security issues, most do not explain how to incorporate security into the building process. Secure Development for Mobile Apps does exactly that. Its step-by-step guidance shows you how to integrate security measures into social apps running on mobile platforms. You'll learn how to design and code apps with security as part of the process and not an afterthought. The author outlines best practices to help you build better, more secure software. This book provides a comprehensive guide to techniques for secure development practices. It covers PHP security practices and tools, project layout templates, PHP and PDO, PHP encryption, and guidelines for secure session management, form validation, and file uploading. The book also demonstrates how to develop secure mobile apps using the APIs for Google Maps, YouTube, jQuery Mobile, Twitter, and Facebook. While this is not a beginner's guide to programming, you should have no problem following along if you've spent some time developing with PHP and MySQL.

Code Complete Steve McConnell 2004-06-09 Widely considered one of the best practical guides to programming, Steve McConnell's original CODE COMPLETE has been helping developers write better software for more than a decade. Now this classic book has been fully updated and revised with leading-edge practices—and hundreds of new code samples—illustrating the art and science of software construction. Capturing the body of knowledge available from research, academia, and everyday commercial practice, McConnell synthesizes the most effective techniques and must-know principles into clear, pragmatic guidance. No matter what your experience level, development environment, or project size, this book will inform and stimulate your thinking—and help you build the highest quality code. Discover the timeless techniques and strategies that help you: Design for minimum complexity and maximum creativity Reap the benefits of collaborative development Apply defensive programming techniques to reduce and flush out errors Exploit opportunities to refactor—or evolve—code, and do it safely Use construction practices that are right-weight for your project Debug problems quickly and effectively Resolve critical construction issues early and correctly Build quality into the beginning, middle, and end of your project

Software Design and Development: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources 2013-07-31 Innovative tools and techniques for the development and design of software systems are essential to the problem solving and planning of software solutions. Software Design and Development: Concepts, Methodologies, Tools, and Applications brings together the best practices of theory and implementation in the development of software systems. This reference source is essential for researchers, engineers, practitioners, and scholars seeking the latest knowledge on the techniques, applications, and methodologies for the design and development of software systems.

Writing Secure Code David LeBlanc 2002-12-04 Keep black-hat hackers at bay with the tips and techniques in this entertaining, eye-opening book! Developers will learn how to padlock their applications throughout the entire development process—from designing secure applications to writing robust code that can withstand repeated attacks to testing applications for security flaws. Easily digested chapters reveal proven principles, strategies, and coding techniques. The authors—two battle-scarred veterans who have solved some of the industry's toughest security problems—provide sample code in several languages. This edition includes updated information about threat modeling, designing a security process, international issues, file-system issues, adding privacy to applications, and performing security code reviews. It also includes enhanced coverage of buffer overruns, Microsoft .NET security, and Microsoft ActiveX development, plus practical checklists for developers, testers, and program managers.