Hacking Exposed Malware Rootkits Security Secrets And Solutions Second Edition Security Secrets And Solutions Second Edition

Providing up-to-date coverage of intrusion detection; firewall; honeynet; antivirus; and anti-rootkit technology; this thorough resource fully explains the hackers latest methods alongside ready-to-deploy countermeasures. --

The latest tactics for thwarting digital attacks "Our new reality is zero-day, APT, and state-sponsored attacks. Today, more than ever, security professionals need to get into the hacker's mind, methods, and toolbox to successfully deter such relentless assaults. This edition brings readers abreast with the latest attack vectors and arms them for these continually evolving threats."--Brett Wahlin, CSO, Sony Network Entertainment "Stop taking punches--let's change the game; it's time for a paradigm shift in the way we secure our networks, and Hacking Exposed 7 is the playbook for bringing pain to our adversaries." --Shawn Henry, former Executive Assistant Director, FBI Bolster your system's security and defeat the tools and tactics of cyber-criminals with expert advice and defense strategies from the world-renowned Hacking Exposed team. Case studies expose the hacker's latest devious methods and illustrate field-tested remedies. Find out how to block infrastructure hacks, minimize advanced persistent threats, neutralize malicious code, secure web and database applications, and fortify UNIX networks. Hacking Exposed 7: Network Security Secrets & Solutions contains all-new visual maps and a comprehensive

"countermeasures cookbook." Obstruct APTs and web-based meta-exploits Defend against UNIX-based root access and buffer overflow hacks Block SQL injection, spear phishing, and embedded-code attacks Detect and terminate rootkits, Trojans, bots, worms, and malware Lock down remote access using smartcards and hardware tokens Protect 802.11 WLANs with multilayered encryption and gateways Plug holes in VoIP, social networking, cloud, and Web 2.0 services Learn about the latest iPhone and Android attacks and how to protect yourself.

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 Budget Note--Tips for getting security technologies and processes into your organization's budget In Actual Practice--Exceptions to the rules of security explained

in real-world contexts Your Plan--Customizable checklists you can use on the job now Into Action--Tips on how, why, and when to apply new skills and techniques at work
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.

Provides the most thorough examination of Internet technologies and applications for researchers in a variety of related fields. For the average Internet consumer, as well as for experts in the field of networking and Internet technologies.

The latest Windows security attack and defense strategies "Securing Windows begins with reading this book." --James Costello (CISSP) IT Security Specialist, Honeywell Meet the challenges of Windows security with the exclusive Hacking Exposed "attack-countermeasure" approach. Learn how real-world malicious hackers conduct reconnaissance of targets and then exploit common misconfigurations and software flaws on both clients and servers. See leading-edge exploitation techniques demonstrated, and learn how the latest countermeasures in Windows XP, Vista, and Server 2003/2008 can mitigate these attacks. Get practical advice based on the authors' and contributors' many years as security professionals hired to break into the world's largest IT infrastructures. Dramatically improve the security of Microsoft technology deployments of all sizes when you learn to: Establish business relevance and context for security by highlighting real-world risks Take a tour of the Windows security architecture from the hacker's perspective, exposing old and new vulnerabilities that can easily be avoided Understand how hackers use reconnaissance techniques such as footprinting, scanning, banner grabbing, DNS queries, and Google searches to locate vulnerable Windows systems Learn how information is extracted anonymously

from Windows using simple NetBIOS, SMB, MSRPC, SNMP, and Active Directory enumeration techniques Prevent the latest remote network exploits such as password grinding via WMI and Terminal Server, passive Kerberos logon sniffing, rogue server/man-in-the-middle attacks, and cracking vulnerable services See up close how professional hackers reverse engineer and develop new Windows exploits Identify and eliminate rootkits, malware, and stealth software Fortify SQL Server against external and insider attacks Harden your clients and users against the latest e-mail phishing, spyware, adware, and Internet Explorer threats Deploy and configure the latest Windows security countermeasures, including BitLocker, Integrity Levels, User Account Control, the updated Windows Firewall, Group Policy, Vista Service Refactoring/Hardening, SafeSEH, GS, DEP, Patchguard, and Address Space Layout Randomization

Network Security Fire walls, and VPNs provides a unique, in-depth look at the major business challenges and threats that are introduced when an organization's network is connected to the public Internet. Written by an industry expert, this book provides a comprehensive explanation of network security basics, including how hackers access online networks and the use of Firewalls and VPNs to provide security countermeasures. Using examples and exercises, this book incorporates hands-on activities to prepare the reader to disarm threats and prepare for emerging technologies and future attacks. Key Features -Introduces the basics of network securityùexploring the details of firewall security and how VPNs operate -Illustrates how to plan proper network security to combat hackers and outside threats -Discusses firewall configuration and deployment and managing firewall security -Identifies how to secure local and Internet communications with a VPN About The Series The Jones & Bartlett Learning: Information Systems Security & Assurance

Series delivers fundamental IT security principles packed with real-world applications and examples for IT Security, Cyber-Security, Information Assurance, and Information Systems Security programs. Authored by Certified Information Systems Security Professionals (CISSPs), and reviewed by leading technical experts in the field, these books are current, forward-thinking resources that enable readers to solve the cyber-security challenges of today and tomorrow.

Hacking Exposed Malware & Rootkits: Security Secrets and Solutions, Second EditionMcGraw Hill Professional

Network Security, Firewalls, and VPNs, third Edition provides a unique, in-depth look at the major business challenges and threats that are introduced when an organization's network is connected to the public Internet.

Practically every crime now involves some aspect of digital evidence. This is the most recent volume in the Advances in Digital Forensics series. It describes original research results and innovative applications in the emerging discipline of digital forensics. In addition, it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations. This book contains a selection of twenty-eight edited papers from the Fourth Annual IFIP WG 11.9 Conference on Digital Forensics, held at Kyoto University, Kyoto, Japan in the spring of 2008.

An all-new exam guide for version 8 of the Computer Hacking Forensic Investigator (CHFI) exam from EC-Council Get complete coverage of all the material

included on version 8 of the EC-Council's Computer Hacking Forensic Investigator exam from this comprehensive resource. Written by an expert information security professional and educator, this authoritative guide addresses the tools and techniques required to successfully conduct a computer forensic investigation. You'll find learning objectives at the beginning of each chapter, exam tips, practice exam questions, and in-depth explanations. Designed to help you pass this challenging exam, this definitive volume also serves as an essential on-the-job reference. CHFI Computer Hacking Forensic Investigator Certification All-in-One Exam Guide covers all exam topics, including: Computer forensics investigation process Setting up a computer forensics lab First responder procedures Search and seizure laws Collecting and transporting digital evidence Understanding hard disks and file systems Recovering deleted files and partitions Windows forensics Forensics investigations using the AccessData Forensic Toolkit (FTK) and Guidance Software's EnCase Forensic Network, wireless, and mobile forensics Investigating web attacks Preparing investigative reports Becoming an expert witness Electronic content includes: 300 practice exam questions Test engine that provides full-length practice exams and customized quizzes by chapter or by exam domain The stories about phishing attacks against banks are

so true-to-life, it's chilling." --Joel Dubin, CISSP, Microsoft MVP in Security Every day, hackers are devising new ways to break into your network. Do you have what it takes to stop them? Find out in Hacker's Challenge 3. Inside, top-tier security experts offer 20 brand-new, real-world network security incidents to test your computer forensics and response skills. All the latest hot-button topics are covered, including phishing and pharming scams, internal corporate hacking, Cisco IOS, wireless, iSCSI storage, VoIP, Windows, Mac OS X, and UNIX/Linux hacks, and much more. Each challenge includes a detailed explanation of the incident--how the break-in was detected, evidence and clues, technical background such as log files and network maps, and a series of questions for you to solve. In Part II, you'll get a detailed analysis of how the experts solved each incident.

The definitive guide to incident response--updated for the first time in a decade! Thoroughly revised to cover the latest and most effective tools and techniques, Incident Response & Computer Forensics, Third Edition arms you with the information you need to get your organization out of trouble when data breaches occur. This practical resource covers the entire lifecycle of incident response, including preparation, data collection, data analysis, and remediation. Real-world case studies reveal the methods behind--and remediation

strategies for--today's most insidious attacks. Architect an infrastructure that allows for methodical investigation and remediation Develop leads, identify indicators of compromise, and determine incident scope Collect and preserve live data Perform forensic duplication Analyze data from networks, enterprise services, and applications Investigate Windows and Mac OS X systems Perform malware triage Write detailed incident response reports Create and implement comprehensive remediation plans

In-depth counterintelligence tactics to fight cyber-espionage "A comprehensive and unparalleled overview of the topic by experts in the field."--Slashdot Expose, pursue, and prosecute the perpetrators of advanced persistent threats (APTs) using the tested security techniques and real-world case studies featured in this one-of-a-kind guide. Reverse Deception: Organized Cyber Threat Counter-Exploitation shows how to assess your network's vulnerabilities, zero in on targets, and effectively block intruders. Discover how to set up digital traps, misdirect and divert attackers, configure honeypots, mitigate encrypted crimeware, and identify malicious software groups. The expert authors provide full coverage of legal and ethical issues, operational vetting, and security team management. Establish the goals and scope of your reverse deception campaign Identify, analyze, and

block APTs Engage and catch nefarious individuals and their organizations Assemble cyber-profiles, incident analyses, and intelligence reports Uncover, eliminate, and autopsy crimeware, trojans, and botnets Work with intrusion detection, anti-virus, and digital forensics tools Employ stealth honeynet, honeypot, and sandbox technologies Communicate and collaborate with legal teams and law enforcement

The tenth anniversary edition of the world's bestselling computer security book! The original Hacking Exposed authors rejoin forces on this new edition to offer completely up-to-date coverage of today's most devastating hacks and how to prevent them. Using their proven methodology, the authors reveal how to locate and patch system vulnerabilities. The book includes new coverage of ISO images, wireless and RFID attacks, Web 2.0 vulnerabilities, anonymous hacking tools, Ubuntu, Windows Server 2008, mobile devices, and more. Hacking Exposed 6 applies the authors' internationally renowned computer security methodologies, technical rigor, and "from-the-trenches" experience to make computer technology usage and deployments safer and more secure for businesses and consumers. "A cross between a spy novel and a tech manual." --Mark A. Kellner, Washington Times "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 "A must-read for anyone in security . . . One of the best security books available." --Tony Bradley, CISSP, About.com

The latest tactics for thwarting digital attacks "Our new reality is zero-day, APT, and state-sponsored attacks. Today, more than ever, security professionals need to get into the hacker's mind, methods, and toolbox to successfully deter such relentless assaults. This edition brings readers abreast with the latest attack vectors and arms them for these continually evolving threats." --Brett Wahlin, CSO, Sony Network Entertainment "Stop taking punches--let's change the game; it's time for a paradigm shift in the way we secure our networks, and Hacking Exposed 7 is the playbook for bringing pain to our adversaries." --Shawn Henry, former Executive Assistant Director, FBI Bolster your system's security and defeat the tools and tactics of cyber-criminals with expert advice and defense strategies from the world-renowned Hacking Exposed team. Case studies expose the hacker's latest devious methods and illustrate field-tested remedies. Find out how to block infrastructure hacks, minimize advanced persistent threats, neutralize malicious code, secure web and database applications, and fortify UNIX networks. Hacking Exposed 7: Network Security Secrets & Solutions

contains all-new visual maps and a comprehensive "countermeasures cookbook." Obstruct APTs and web-based meta-exploits Defend against UNIX-based root access and buffer overflow hacks Block SQL injection, spear phishing, and embedded-code attacks Detect and terminate rootkits, Trojans, bots, worms, and malware Lock down remote access using smartcards and hardware tokens Protect 802.11 WLANs with multilayered encryption and gateways Plug holes in VoIP, social networking, cloud, and Web 2.0 services Learn about the latest iPhone and Android attacks and how to protect yourself

Secure Your Systems Using the Latest IT Auditing Techniques Fully updated to cover leading-edge tools and technologies, IT Auditing: Using Controls to Protect Information Assets, Second Edition, explains, step by step, how to implement a successful, enterprise-wide IT audit program. New chapters on auditing cloud computing, outsourced operations, virtualization, and storage are included. This comprehensive guide describes how to assemble an effective IT audit team and maximize the value of the IT audit function. In-depth details on performing specific audits are accompanied by real-world examples, ready-to-use checklists, and valuable templates. Standards, frameworks, regulations, and risk management techniques are also covered in this definitive resource. Build and

maintain an internal IT audit function with maximum effectiveness and value Audit entity-level controls, data centers, and disaster recovery Examine switches, routers, and firewalls Evaluate Windows, UNIX, and Linux operating systems Audit Web servers and applications Analyze databases and storage solutions Assess WLAN and mobile devices Audit virtualized environments Evaluate risks associated with cloud computing and outsourced operations Drill down into applications to find potential control weaknesses Use standards and frameworks, such as COBIT, ITIL, and ISO Understand regulations, including Sarbanes-Oxley, HIPAA, and PCI Implement proven risk management practices

Learn to defend crucial ICS/SCADA infrastructure from devastating attacks the tried-and-true Hacking Exposed way This practical guide reveals the powerful weapons and devious methods cyber-terrorists use to compromise the devices, applications, and systems vital to oil and gas pipelines, electrical grids, and nuclear refineries. Written in the battle-tested Hacking Exposed style, the book arms you with the skills and tools necessary to defend against attacks that are debilitating—and potentially deadly. Hacking Exposed Industrial Control Systems: ICS and SCADA Security Secrets & Solutions explains vulnerabilities and attack vectors specific to ICS/SCADA protocols,

applications, hardware, servers, and workstations. You will learn how hackers and malware, such as the infamous Stuxnet worm, can exploit them and disrupt critical processes, compromise safety, and bring production to a halt. The authors fully explain defense strategies and offer ready-to-deploy countermeasures. Each chapter features a real-world case study as well as notes, tips, and cautions. Features examples, code samples, and screenshots of ICS/SCADA-specific attacks Offers step-by-step vulnerability assessment and penetration test instruction Written by a team of ICS/SCADA security experts and edited by Hacking Exposed veteran Joel Scambray

Fully revised, updated, and expanded, Relational Database Design and Implementation, Third Edition is the most lucid and effective introduction to the subject available for IT/IS professionals interested in honing their skills in database design, implementation, and administration. This book provides the conceptual and practical information necessary to develop a design and management scheme that ensures data accuracy and user satisfaction while optimizing performance, regardless of experience level or choice of DBMS. The book begins by reviewing basic concepts of databases and database design, then briefly reviews the SQL one would use to create databases. Topics such as the relational data model, normalization, data entities

and Codd's Rules (and why they are important) are covered clearly and concisely but without resorting to "Dummies"-style talking down to the reader. Supporting the book's step-by-step instruction are three NEW case studies illustrating database planning, analysis, design, and management practices. In addition to these real-world examples, which include object-relational design techniques, an entirely NEW section consisting of three chapters is devoted to database implementation and management issues. * Principles needed to understand the basis of good relational database design and implementation practices. * Examples to illustrate core concepts for enhanced comprehension and to put the book's practical instruction to work. * Methods for tailoring DB design to the environment in which the database will run and the uses to which it will be put. * Design approaches that ensure data accuracy and consistency. * Examples of how design can inhibit or boost database application performance. * Object-relational design techniques, benefits, and examples. * Instructions on how to choose and use a normalization technique. * Guidelines for understanding and applying Codd's rules. * Tools to implement a relational design using SQL. * Techniques for using CASE tools for database design.

"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 countermeasures New exploits for Windows 2003 Server, UNIX/Linux, Cisco, Apache, and Web and wireless applications Latest DDoS techniques--zombies, Blaster, MyDoom All new class of vulnerabilities--HTTP Response Splitting and much more

Malware and rootkits are on the rise and becoming more complex, according to security company McAfee Author speaks at major security conferences worldwide Hands-on examples, attacks, and countermeasures are included in every chapter Develop and implement an effective end-to-end security program Today's complex world of mobile

platforms, cloud computing, and ubiquitous data access puts new security demands on every IT professional. Information Security: The Complete Reference, Second Edition (previously titled Network Security: The Complete Reference) is the only comprehensive book that offers vendor-neutral details on all aspects of information protection, with an eye toward the evolving threat landscape. Thoroughly revised and expanded to cover all aspects of modern information security—from concepts to details—this edition provides a one-stop reference equally applicable to the beginner and the seasoned professional. Find out how to build a holistic security program based on proven methodology, risk analysis, compliance, and business needs. You'll learn how to successfully protect data, networks, computers, and applications. In-depth chapters cover data protection, encryption, information rights management, network security, intrusion detection and prevention, Unix and Windows security, virtual and cloud security, secure application development, disaster recovery, forensics, and real-world attacks and countermeasures. Included is an extensive security glossary, as well as standards-based references. This is a great resource for professionals and students alike. Understand security concepts and building blocks Identify vulnerabilities and mitigate risk Optimize authentication and authorization Use

IRM and encryption to protect unstructured data Defend storage devices, databases, and software Protect network routers, switches, and firewalls Secure VPN, wireless, VoIP, and PBX infrastructure Design intrusion detection and prevention systems Develop secure Windows, Java, and mobile applications Perform incident response and forensic analysis

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

Secure today's mobile devices and applications Implement a systematic approach to security in your mobile application development with help from this practical guide. Featuring case studies, code examples, and best practices, Mobile Application Security details how to protect against vulnerabilities in the latest smartphone and PDA platforms. Maximize isolation, lockdown internal and removable storage, work with sandboxing and signing, and encrypt sensitive user information. Safeguards against viruses, worms, malware, and buffer overflow exploits are also covered in this comprehensive resource. Design highly isolated, secure, and authenticated mobile applications Use the Google Android emulator, debugger, and third-party security tools Configure Apple iPhone APIs to prevent overflow and SQL injection attacks Employ private and public key cryptography on Windows Mobile devices Enforce fine-grained security policies using the BlackBerry Enterprise Server Plug holes in Java Mobile Edition, SymbianOS, and WebOS applications Test for XSS, CSRF, HTTP redirects, and phishing attacks on WAP/Mobile HTML applications Identify and eliminate threats from Bluetooth, SMS, and GPS services Himanshu

Dwivedi is a co-founder of iSEC Partners (www.isecpartners.com), an information security firm specializing in application security. Chris Clark is a principal security consultant with iSEC Partners. David Thiel is a principal security consultant with iSEC Partners.

Network and System Security provides focused coverage of network and system security technologies. It explores practical solutions to a wide range of network and systems security issues. Chapters are authored by leading experts in the field and address the immediate and long-term challenges in the authors' respective areas of expertise. Coverage includes building a secure organization, cryptography, system intrusion, UNIX and Linux security, Internet security, intranet security, LAN security; wireless network security, cellular network security, RFID security, and more. Chapters contributed by leaders in the field covering foundational and practical aspects of system and network security, providing a new level of technical expertise not found elsewhere Comprehensive and updated coverage of the subject area allows the reader to put current technologies to work Presents methods of analysis and problem solving techniques, enhancing the reader's grasp of the material and ability to implement practical solutions

With the prevalence of digital information, IT professionals have encountered new challenges regarding data security. In an effort to address these challenges and offer solutions for securing digital information, new research on cryptology methods is essential. Multidisciplinary Perspectives in Cryptology and Information Security considers an array of multidisciplinary applications and research developments in the field of cryptology and communication security. This publication offers a comprehensive, in-depth analysis of

encryption solutions and will be of particular interest to IT professionals, cryptologists, and researchers in the field. As the world has adapted to the age of digital technology, present day business leaders are required to change with the times as well. Addressing and formatting their business practices to not only encompass digital technologies, but expand their capabilities, the leaders of today must be flexible and willing to familiarize themselves with all types of global business practices. Global Business Leadership Development for the Fourth Industrial Revolution is a collection of advanced research on the methods and tactics utilized to succeed as a leader in the digital age. While highlighting topics including data privacy, corporate governance, and risk management, this book is ideally designed for business professionals, administrators, managers, executives, researchers, academicians, and business students who want to improve their understanding of the strategic role of digital technologies in the global economy, in networks and organizations, in teams and work groups, in information systems, and at the level of individuals as actors in digitally networked environments

The latest wireless security solutions Protect your wireless systems from crippling attacks using the detailed security information in this comprehensive volume. Thoroughly updated to cover today's established and emerging wireless technologies, Hacking Exposed Wireless, second edition reveals how attackers use readily available and custom tools to target, infiltrate, and hijack vulnerable systems. This book discusses the latest developments in Wi-Fi, Bluetooth, ZigBee, and DECT hacking, and explains how to perform penetration tests, reinforce WPA protection schemes, mitigate packet injection risk, and lock down Bluetooth and RF devices. Cutting-edge techniques for exploiting Wi-Fi clients, WPA2, cordless phones, Bluetooth pairing, and ZigBee

encryption are also covered in this fully revised guide. Build and configure your Wi-Fi attack arsenal with the best hardware and software tools Explore common weaknesses in WPA2 networks through the eyes of an attacker Leverage post-compromise remote client attacks on Windows 7 and Mac OS X Master attack tools to exploit wireless systems, including Aircrack-ng, coWPAtty, Pyrit, IPPON, FreeRADIUS-WPE, and the all new KillerBee Evaluate your threat to software update impersonation attacks on public networks Assess your threat to eavesdropping attacks on Wi-Fi, Bluetooth, ZigBee, and DECT networks using commercial and custom tools Develop advanced skills leveraging Software Defined Radio and other flexible frameworks Apply comprehensive defenses to protect your wireless devices and infrastructure

Essential Skills--Made Easy! Learn how to create data models that allow complex data to be analyzed, manipulated, extracted, and reported upon accurately. Data Modeling: A Beginner's Guide teaches you techniques for gathering business requirements and using them to produce conceptual, logical, and physical database designs. You'll get details on Unified Modeling Language (UML), normalization, incorporating business rules, handling temporal data, and analytical database design. The methods presented in this fast-paced tutorial are applicable to any database management system, regardless of vendor. Designed for Easy Learning Key Skills & Concepts--Chapter-opening lists of specific skills covered in the chapter Ask the expert--Q&A sections filled with bonus information and helpful tips Try This--Hands-on exercises that show you how to apply your skills Notes--Extra information related to the topic being covered Self Tests--Chapter-ending quizzes to test your knowledge Andy Oppel has taught database technology for the University of California Extension for more than 25 years.

He is the author of Databases Demystified, SQL Demystified, and Databases: A Beginner's Guide, and the co-author of SQL: A Beginner's Guide, Third Edition, and SQL: The Complete Reference, Third Edition.

The latest exclusive Hacking Exposed strategies for defending against the world's number one attack type: malware Fully updated to cover the most current tools, techniques, and exploits, Hacking Exposed Malware & Rootkits, Second Edition walks you through the process of defending against the consistent onslaught of malware and rootkit assaults using failsafe methods. The second edition includes all-new real-world case studies and cutting-edge examples to reveal how hackers use readily available tools to infiltrate and hijack networks. The book takes a step-by-step approach to explaining countermeasures to provide the best training in the detection and elimination of malicious, embedded code. The latest intrusion detection, baits, antivirus, anti-rootkit, and anti-spyware technologies are all covered in detail. Counter today's most virulent network attack types Find out how malware infects, survives, and propagates across an enterprise Detect, kill, and remove virtual, user-mode, and kernel-mode rootkits Learn how hackers use archivers, encryptors, and packers to obfuscate code Defend against keylogging, redirect, click fraud, and identity theft threats

DescriptionBook teaches anyone interested to an in-depth discussion of what hacking is all about and how to save yourself. This book dives deep into:Basic security procedures one should follow to avoid being exploited. To identity theft.To know about password security essentials.How malicious hackers are profiting from identity and personal data theft. Book provides techniques and tools which are used by both criminal and ethical hackers, all the things that you will find here will show you how information security is compromised

and how you can identify an attack in a system that you are trying to protect. Furthermore, you will also learn how you can minimize any damage to your system or stop an ongoing attack. This book is written for the benefit of the user to save himself from Hacking.Contents:HackingCyber Crime & SecurityComputer Network System and DNS WorkingHacking Skills & ToolsVirtualisation and Kali LinuxSocial Engineering & Reverse Social EngineeringFoot-printingScanningCryptographySteganographySystem HackingMalwareSniffingPacket Analyser & Session HijackingDenial of Service (DoS)AttackWireless Network HackingWeb Server and Application VulnerabilitiesPenetration TestingSurface WebDeep Web and Dark Net

Provides information on how to identify, defend, and remove malware, rootkits, and botnets from computer networks. Going beyond current books on privacy and security, Unauthorized Access: The Crisis in Online Privacy and Security proposes specific solutions to public policy issues pertaining to online privacy and security. Requiring no technical or legal expertise, the book explains complicated concepts in clear, straightforward language. The authors—two renowned experts on computer security and law—explore the well-established connection between social norms, privacy, security, and technological structure. This approach is the key to understanding information security and informational privacy, providing a practical framework to address ethical and legal issues. The authors also discuss how rapid technological developments have created novel situations that lack relevant norms and present ways to develop these norms for protecting informational privacy

and ensuring sufficient information security. Bridging the gap among computer scientists, economists, lawyers, and public policy makers, this book provides technically and legally sound public policy guidance about online privacy and security. It emphasizes the need to make trade-offs among the complex concerns that arise in the context of online privacy and security.

Revised and updated to keep pace with this ever changing field, Security Strategies in Windows Platforms and Applications, Third Edition focuses on new risks, threats, and vulnerabilities associated with the Microsoft Windows operating system, placing a particular emphasis on Windows 10, and Windows Server 2016 and 2019. The Third Edition highlights how to use tools and techniques to decrease risks arising from vulnerabilities in Microsoft Windows operating systems and applications. The book also includes a resource for readers desiring more information on Microsoft Windows OS hardening, application security, and incident management. With its accessible writing style, and step-by-step examples, this must-have resource will ensure readers are educated on the latest Windows security strategies and techniques.

Arm yourself for the escalating war against malware and rootkits Thwart debilitating cyber-attacks and dramatically improve your organization's security posture using the proven defense strategies in this thoroughly updated guide. Hacking ExposedTM Malware and Rootkits: Security Secrets & Solutions, Second Edition fully explains the hacker's latest methods alongside ready-to-deploy countermeasures. Discover

how to block pop-up and phishing exploits, terminate embedded code, and identify and eliminate rootkits. You will get up-to-date coverage of intrusion detection, firewall, honeynet, antivirus, and anti-rootkit technology. • Learn how malware infects, survives, and propagates across an enterprise • See how hackers develop malicious code and target vulnerable systems • Detect, neutralize, and remove user-mode and kernel-mode rootkits • Use hypervisors and honeypots to uncover and kill virtual rootkits • Defend against keylogging, redirect, click fraud, and identity theft • Block spear phishing, client-side, and embedded-code exploits • Effectively deploy the latest antivirus, pop-up blocker, and firewall software • Identify and stop malicious processes using IPS solutions

This book constitutes the proceedings of the Sixth Conference on Information and Communication Technologies "TIC.EC", held in Cuenca, Ecuador, from November 27 to 29, 2019. Considered one of the most important conferences on ICT in Ecuador, it brings together scholars and practitioners from the country and abroad to discuss the development, issues and projections of the use of information and communication technologies in multiples fields of application. The 2019 "TIC.EC" conference was organized by Universidad del Azuay (UDA) and its Engineering School, as well as the Ecuadorian Corporation for the Development of Research and Academia (CEDIA). The book covers the following topics: · Software engineering · Security · Data · Networks · Architecture · Applied ICTs · Technological entrepreneurship · Links between research and industry ·

High-impact innovation · Knowledge management and intellectual property

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