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Hacking Exposed VoIP: Voice Over IP Security Secrets & Solutions Hacking Exposed Unified Communications & VoIP Security Secrets & Solutions, Second Edition VoIP: Voice Over Internet Protocol Architecture and Features Information Security Practice and Experience VoIP Handbook Information Hiding in Speech Signals for Secure Communication Organizational, Legal, and Technological Dimensions of Information System Administration Computer Security Handbook, Set Seven Deadliest Unified Communications Attacks Future Challenges in Security and Privacy for Academia and Industry Voice over IP Security Noise Reduction in Speech Applications Hacking Exposed Linux Detection of Intrusions and Malware, and Vulnerability Assessment Computer and Information Security Handbook Scalable VoIP Mobility Exposed Hacking Exposed, Sixth Edition Voice Over IP (Internet Protocol) Asterisk: The Future of Telephony Hacking VoIP IP Communications and Services for NGN Social Workers' Desk Reference Hacking Exposed 7 Information Security Management Handbook, Sixth Edition Computerworld ISSE 2008 Securing Electronic Business Processes Military Communications Mechanisms for Autonomous Management of Networks and Services Hacking Exposed Cisco Networks Privacy and Identity Management for Life Hacking Exposed 5th Edition Téléphonie sur IP Frontiers of High Performance Computing and Networking - ISPA 2007 Workshops Handbook of Communications Security CIO Securing VoIP CCVP CVOICE Quick Reference Semantic Mashups An Improved Lightweight Privacy Preserving Authentication Scheme for SIP-Based-VoIP Using Smart Card

This book constitutes the refereed proceedings of the 26th IFIP TC 11 International Information Security Conference, SEC 2011, held in Lucerne, Switzerland, in June 2011. The 24 revised full papers presented together with a keynote talk were carefully reviewed and selected from 100 submissions. The papers are organized in topical sections on malware, information flow and DoS attacks, authentication, network security and security protocols, software security, policy compliance and obligations, privacy attacks and privacy-enhancing technologies, risk analysis and security metrics, and intrusion detection. Seven Deadliest Unified Communications Attacks provides a comprehensive coverage of the seven most dangerous hacks and exploits specific to Unified Communications (UC) and lays out the anatomy of these attacks including how to make your system more secure. You will discover the best ways to defend against these vicious hacks with step-by-step instruction and learn techniques to make your computer and network impenetrable. The book describes the intersection of the various communication technologies that make up UC, including Voice over IP (VoIP), instant message (IM), and other collaboration technologies. There are seven chapters that focus on the following: attacks against the UC ecosystem and UC endpoints; eavesdropping and modification attacks; control channel attacks; attacks on Session Initiation Protocol (SIP) trunks and public switched telephone network (PSTN) interconnection; attacks on identity; and attacks against distributed systems. Each chapter begins with an introduction to the threat along with some examples of the problem. This is followed by discussions of the anatomy, dangers, and future outlook of the threat as well as specific strategies on how to defend systems against the threat. The discussions of each threat are also organized around the themes of confidentiality, integrity, and availability. This book will be of interest to information security professionals of all levels as well as recreational hackers. Knowledge is power, find out about the most dominant attacks currently waging war on computers and networks globally Discover the best ways to defend against these vicious attacks; step-by-step instruction shows you how Institute countermeasures, don’t be caught defenseless again, and learn techniques to make your computer and network impenetrable Communications represent a strategic sector for privacy protection and for personal, company, national and international security. The interception, damage or lost of information during communication can generate material and non material economic damages from both a personal and collective point of view. The purpose of this book is to give the reader information relating to all aspects of communications security, beginning at the base ideas and building

to reach the most advanced and updated concepts. The book will be of interest to integrated system designers, telecommunication designers, system engineers, system analysts, security managers, technicians, intelligence personnel, security personnel, police, army, private investigators, scientists, graduate and postgraduate students and anyone that needs to communicate in a secure way. Rapid deployment and acceptance of broadband networks, including the 802.11 a/b/g, 3G cellular networks, WiMAX, and emerging 4G cellular IP networks, have sparked a growing reliance on voice over IP and the quickly emerging IP TV and Mobile TV. Providing the necessary background and technical understanding to stay abreast of and even ahead of the IP trend, IP Communications and Services for NGN explores IP development for the delivery of next generation mobile services. Packed with detailed illustrations, this cutting-edge reference examines the primary IP protocols (IPv4 and IPv6), real-time protocols, and three major IP services (VoIP, IPTV, and Mobile TV). It clearly explains the different architectures of fixed, mobile, and wireless networks along with the major advantages and disadvantages of each. It includes coverage of the latest in: The VoIP Market SCTP and Vertical Handoff RSVP: Resource Reservation Protocol MPLS: MultiProtocol Label Switching SIP: Session Initiation Protocol IMS: IP Multimedia Subsystem RTSP: Real-Time Streaming Protocol RTP: Real-Time Transport Protocol IPTV System Architectures and IPTV System Descriptions With a detailed listing of commonly used acronyms, along with a clear description of the role IP is likely to play in the development of next generation mobile services, this book provides educators, industry practitioners, regulators, and subscribers with the ideal starting point for developing the understanding required to deploy, train, and use IP services effectively and efficiently. Mashups are mostly lightweight Web applications that offer new functionalities by combining, aggregating and transforming resources and services available on the Web. Popular examples include a map in their main offer, for instance for real estate, hotel recommendations, or navigation tools. Mashups may contain and mix client-side and server-side activity. Obviously, understanding the incoming resources (services, statistical figures, text, videos, etc.) is a precondition for optimally combining them, so that there is always some undercover semantics being used. By using semantic annotations, neutral mashups permute into the branded type of semantic mashups. Further and deeper semantic processing such as reasoning is the next step. The chapters of this book reflect the diversity of real-life semantic mashups. Two overview chapters take the reader to the environments where mashups are at home and review the regulations (standards, guidelines etc.) mashups are based on and confronted with. Chapters focusing on DBpedia, search engines and the Web of Things inspect the main Web surroundings of mashups. While mashups upgrading search queries may be nearer to the everyday experience of readers, mashups using DBpedia input and sensor data from the real world lead to important new and therefore less known developments. Finally, the diversity of mashups is tracked through a few application areas: mathematical knowledge, speech, crisis and disaster management, recommendations (for games), inner-city information, and tourism. Participants of the AI Mashup Challenge wrote all the chapters of this book. The authors were writing for their current and future colleagues – researchers and developers all over the Web who integrate mashup functionalities into their thinking and possibly into their applications. The number of worldwide VoIP customers is well over 38 million. Thanks to the popularity of inexpensive, high-quality services, it's projected to increase to nearly 250 million within the next three years. The VoIP Handbook: Applications, Technologies, Reliability, and Security captures the state of the art in VoIP technology and serves as the comprehensive reference on this soon-to-be ubiquitous technology. It provides: A step-by-step methodology to evaluate VoIP performance prior to network implementation An invaluable overview of implementation challenges and several VoIP multipoint conference systems Unparalleled coverage of design and engineering issues such VoIP traffic, QoS requirements, and VoIP flow As this promising technology's popularity increases, new demands for improved quality, reduced cost, and seamless operation will continue to increase. Edited by preeminent wireless communications experts Ahson and Illyas, the VoIP Handbook guides you to successful deployment. In the past few years, secure information sharing became very popular in the area of immigration, military applications, healthcare, education, foreign affairs, etc. As secure communication utilizes both wireless and wired communication mechanizations for exchanging sensitive information, security and privacy of the information exchange cannot be easily compromised. To moderate the security, integrity, authenticity, and privacy issues related to information exchange, numerous authentication mechanisms have been recommended by different researchers

in the literature in recent times, but these are vulnerable to prospective security flaws such as masquerade, insider, replay, impersonation, password guessing, server spoofing, denial-of-service attacks and, in addition, have failed to deliver mutual authentication. In the past few years we have also witnessed a balanced growth in the acceptance of VoIP (Voice over IP) facilities because the numerous Web and VoIP applications depend on huge and extremely distributed infrastructures to process requests from millions of users in an appropriate manner. Due to their extraordinary desires, these large-scale internet applications have frequently surrendered security for other objectives such as performance, scalability and availability. As a result, these applications have characteristically favored weaker, but well-organized security mechanisms in their foundations. Session Initiation Protocol (SIP) is an application and presentation layers signaling protocol that initiates, modifies, and terminates IP-based multimedia sessions. Implementing SIP for secure communication has been a topic of study for the past decade, and several proposals are available in the research domain. However, security aspects are not addressed in most of these proposals, because SIP is exposed to several threats and faces security issues at these layers. Probes for SIP (Session Initiation Protocol) servers have been conveyed for many years. To gather more details about these activities the author has designed a scheme for SIP servers in a network and composed data about some popular attacks. Furthermore, he explains his interpretations and guidance on how to prevent these attacks from being successful. Biometrics, a new field of research, has also been dealt with in this research by means of a "three-factor authentication scheme", in which one factor is biometrics. This bestselling book is now the standard guide to building phone systems with Asterisk, the open source IP PBX that has traditional telephony providers running scared! Revised for the 1.4 release of the software, the new edition of Asterisk: The Future of Telephony reveals how you can save money on equipment and support, and finally be in control of your telephone system. If you've worked with telephony in the past, you're familiar with the problem: expensive and inflexible systems that are tuned to the vendor's needs, not yours. Asterisk isn't just a candle in the darkness, it's a whole fireworks show. Because Asterisk is so powerful, configuring it can seem tricky and difficult. This book steps you through the process of installing, configuring, and integrating Asterisk with your existing phone system. You'll learn how to write dialplans, set up applications including speech synthesis and voice recognition, how to script Asterisk, and much more -- everything you need to design a simple but complete system with little or no Asterisk experience, and no more than rudimentary telecommunications knowledge. The book includes: A new chapter on managing/administering your Asterisk system A new chapter on using Asterisk with databases Coverage of features in Asterisk 1.4 A new appendix on dialplan functions A simplified installation chapter New simplified SIP configuration, including examples for several popular SIP clients (soft phones and IP telephones) Revised chapters and appendicies reviewed and updated for the latest in features, applications, trends and best-practices Asterisk is revolutionizing the telecom industry, due in large part to the way it gets along with other network applications. While other PBXs are fighting their inevitable absorption into the network, Asterisk embraces it. If you need to take control of your telephony systems, move to Asterisk and see what the future of telecommunications looks like. This book constitutes the proceedings of the 17th International Conference on Detection of Intrusions and Malware, and Vulnerability Assessment, DIMVA 2020, held in Lisbon, Portugal, in June 2020. The 13 full papers presented in this volume were carefully reviewed and selected from 45 submissions. The contributions were organized in topical sections named: vulnerability discovery and analysis; attacks; web security; and detection and containment. ?*The conference was held virtually due to the COVID-19 pandemic. CCVP CVOICE Quick Reference (Digital Short Cut) Kevin Wallace, CCIE No. 7945 ISBN-10: 1-58705-824-3 ISBN-13: 978-1-58705-824-0 As a final exam preparation tool, the CCVP CVoice Quick Reference, Second Edition provides a concise review of all objectives on the CVoice exam (642-436). This digital Short Cut provides you with detailed, graphical-based information, highlighting only the key topics in cram-style format. With this document as your guide, you will review topics on foundational elements of VOIP calls, the description of dial plans, and the implementation of gateways, gatekeepers, and IP-IP gateways. This fact-filled Quick Reference allows you to get all-important information at a glance, helping you focus your study on areas of weakness and to enhance memory retention of essential exam concepts. Sidestep VoIP Catastrophe the Foolproof Hacking Exposed Way "This book illuminates how remote users can probe, sniff, and modify your phones, phone switches, and networks that offer VoIP services. Most importantly, the*

authors offer solutions to mitigate the risk of deploying VoIP technologies." --Ron Gula, CTO of Tenable Network Security Block debilitating VoIP attacks by learning how to look at your network and devices through the eyes of the malicious intruder. Hacking Exposed VoIP shows you, step-by-step, how online criminals perform reconnaissance, gain access, steal data, and penetrate vulnerable systems. All hardware-specific and network-centered security issues are covered alongside detailed countermeasures, in-depth examples, and hands-on implementation techniques. Inside, you'll learn how to defend against the latest DoS, man-in-the-middle, call flooding, eavesdropping, VoIP fuzzing, signaling and audio manipulation, Voice SPAM/SPIT, and voice phishing attacks. Find out how hackers footprint, scan, enumerate, and pilfer VoIP networks and hardware Fortify Cisco, Avaya, and Asterisk systems Prevent DNS poisoning, DHCP exhaustion, and ARP table manipulation Thwart number harvesting, call pattern tracking, and conversation eavesdropping Measure and maintain VoIP network quality of service and VoIP conversation quality Stop DoS and packet flood-based attacks from disrupting SIP proxies and phones Counter REGISTER hijacking, INVITE flooding, and BYE call teardown attacks Avoid insertion/mixing of malicious audio Learn about voice SPAM/SPIT and how to prevent it Defend against voice phishing and identity theft scams Securing VoIP: Keeping Your VoIP Network Safe will show you how to take the initiative to prevent hackers from recording and exploiting your company's secrets. Drawing upon years of practical experience and using numerous examples and case studies, technology guru Bud Bates discusses the business realities that necessitate VoIP system security and the threats to VoIP over both wire and wireless networks. He also provides essential guidance on how to conduct system security audits and how to integrate your existing IT security plan with your VoIP system and security plans, helping you prevent security breaches and eavesdropping. Explains the business case for securing VoIP Systems Presents hands-on tools that show how to defend a VoIP network against attack. Provides detailed case studies and real world examples drawn from the authors' consulting practice. Discusses the pros and cons of implementing VoIP and why it may not be right for everyone. Covers the security policies and procedures that need to be in place to keep VoIP communications safe. Provides practical advice on breaking down the implementation and deployment of voice mobility networks within the office, across the campus, and on the road. Offers a complete primer on enterprise-grade Wi-Fi networking for voice mobility at scale, whether as a single-mode or dual-mode network, including information on the newest 802.11n standard and how these standards directly impact voice mobility. Includes methods of integrating existing or new VoIP networks with 3G+, CDMA 2000, WCDMA, HSPA, and WiMAX cellular networks using fixed/mobile convergence (FMC). This book provides a comprehensive examination of IP-based voice mobility, covering every step in deploying multimodal voice mobility networks. Each segment of the entire voice mobility solution is described with an eye towards the inherent problems of high-scale mobility, from wired infrastructure to end device, across multiple networks and technologies. Voice mobility is introduced and defined at a basic level before the book examines the high-level components of a scalable voice mobility solution. Chapters focus on several types of transport networks in greater depth, including voice quality metrics and testing, high-density enterprise Wi-Fi voice networks, cellular networks, and high-level networking technologies. The security of VoIP networks is also considered. The book explores standalone VoIP networks and finally provides an investigation of the current and upcoming set of fixed/mobile convergence approaches. This book is an invaluable guide for anyone looking towards voice mobility as a solution to real-world business problems: IT managers and executives looking to understand the potential for converting offices to all-wireless; network designers and architects planning on rolling out a fully-mobile voice network; and administrators operating or troubleshooting voice mobility networks. Provides practical advice on breaking down the implementation and deployment of voice mobility networks within the office, across the campus, and on the road. Offers a complete primer on enterprise-grade Wi-Fi networking for voice mobility at scale, whether as a single-mode or dual-mode network, including information on the newest 802.11n standard and how these standards directly impact voice mobility. Includes methods of integrating existing or new VoIP networks with 3G+, CDMA 2000, WCDMA, HSPA, and WiMAX cellular networks using fixed/mobile convergence (FMC). Provides information on how hackers target exposed computer networks and gain access and ways to stop these intrusions, covering such topics as routers, firewalls, and VPN vulnerabilities. This book constitutes the thoroughly refereed post conference proceedings of the 5th IFIP WG 9.2, 9.6/11.7, 11.4, 11.6/PrimeLife International Summer School,

held in Nice, France, in September 2009. The 25 revised papers were carefully selected from numerous submissions during two rounds of reviewing. They are organized in topical sections on lifelong privacy, privacy for social network sites and collaborative systems, privacy for e-government applications, privacy and identity management for e-health and ambient assisted living applications, anonymisation and privacy-enhancing technologies, identity management and multilateral security, and usability, awareness and transparency tools. Voice over IP Security Security best practices derived from deep analysis of the latest VoIP network threats Patrick Park VoIP security issues are becoming increasingly serious because voice networks and services cannot be protected from recent intelligent attacks and fraud by traditional systems such as firewalls and NAT alone. After analyzing threats and recent patterns of attacks and fraud, consideration needs to be given to the redesign of secure VoIP architectures with advanced protocols and intelligent products, such as Session Border Controller (SBC). Another type of security issue is how to implement lawful interception within complicated service architectures according to government requirements. Voice over IP Security focuses on the analysis of current and future threats, the evaluation of security products, the methodologies of protection, and best practices for architecture design and service deployment. This book not only covers technology concepts and issues, but also provides detailed design solutions featuring current products and protocols so that you can deploy a secure VoIP service in the real world with confidence. Voice over IP Security gives you everything you need to understand the latest security threats and design solutions to protect your VoIP network from fraud and security incidents. Patrick Park has been working on product design, network architecture design, testing, and consulting for more than 10 years. Currently Patrick works for Cisco® as a VoIP test engineer focusing on security and interoperability testing of rich media collaboration gateways. Before Patrick joined Cisco, he worked for Covad Communications as a VoIP security engineer focusing on the design and deployment of secure network architectures and lawful interception (CALEA). Patrick graduated from the Pusan National University in South Korea, where he majored in computer engineering. Understand the current and emerging threats to VoIP networks Learn about the security profiles of VoIP protocols, including SIP, H.323, and MGCP Evaluate well-known cryptographic algorithms such as DES, 3DES, AES, RAS, digital signature (DSA), and hash function (MD5, SHA, HMAC) Analyze and simulate threats with negative testing tools Secure VoIP services with SIP and other supplementary protocols Eliminate security issues on the VoIP network border by deploying an SBC Configure enterprise devices, including firewalls, Cisco Unified Communications Manager, Cisco Unified Communications Manager Express, IP phones, and multilayer switches to secure VoIP network traffic Implement lawful interception into VoIP service environments This IP communications book is part of the Cisco Press® Networking Technology Series. IP communications titles from Cisco Press help networking professionals understand voice and IP telephony technologies, plan and design converged networks, and implement network solutions for increased productivity. Category: Networking–IP Communication Covers: VoIP Security The latest techniques for averting UC disaster "This book is a must-read for any security professional responsible for VoIP or UC infrastructure. This new edition is a powerful resource that will help you keep your communications systems secure." —Dan York, Producer and Co-Host, Blue Box: The VoIP Security Podcast "The original edition, Hacking Exposed: Voice over IP Secrets & Solutions, provided a valuable resource for security professionals. But since then, criminals abusing VoIP and UC have become more sophisticated and prolific, with some high-profile cases ringing up huge losses. This book is a welcome update that covers these new threats with practical examples, showing the exact tools in use by the real attackers." —Sandro Gauci, Penetration Tester and Security Researcher, Author of SIPVicious "Powerful UC hacking secrets revealed within. An outstanding and informative book. Hacking Exposed: Unified Communications & VoIP Security Secrets & Solutions walks the reader through powerful yet practical offensive security techniques and tools for UC hacking, which then informs defense for threat mitigation. The authors do an excellent job of weaving case studies and real-world attack scenarios with useful references. This book is essential for not only IT managers deploying UC, but also for security practitioners responsible for UC security." —Jason Ostrom, UC Security Researcher, Stora SANS Institute, co-author, SEC540 class "After reading Hacking Exposed: Unified Communications & VoIP Security Secrets & Solutions, I was saddened to not have had this book published years ago. The amount of time and money I could have saved myself, and my clients, would have been enormous. Being a professional in an ITSP/MSP, I know firsthand

the complexities and challenges involved with auditing, assessing, and securing VoIP-based networks. From the carrier level, right down to the managed PBX level, and everything in between, Hacking Exposed: Unified Communications & VoIP Security Secrets & Solutions is a de facto must-have book. For those learning VoIP security to those heavily involved in any VoIP-related capacity, this book is worth its weight in gold." —J. Oquendo, Lead Security Engineer, E–Fensive Security Strategies "Hacking Exposed: Unified Communications & VoIP Security Secrets & Solutions, includes more sophisticated attack vectors focused on UC and NGN. The authors describe in depth many new tools and techniques such as TDoS and UC interception. Using these techniques, you will learn how you can identify the security problems of VoIP/UC. This book is a masterpiece." —Fatih Ozavci, Senior Security Consultant at Sense of Security, Author of viproy "This book provides you with the knowledge you need to understand VoIP threats in reality. No doom and gloom, overhyped, never to happen in the real-world scenarios. You will understand the vulnerabilities, the risks, and how to protect against them." —Shane Green, Senior Voice Security Analyst Establish a holistic security stance by learning to view your unified communications infrastructure through the eyes of the nefarious cyber-criminal. Hacking Exposed Unified Communications & VoIP, Second Edition offers thoroughly expanded coverage of today's rampant threats alongside ready-to-deploy countermeasures. Find out how to block TDoS, toll fraud, voice SPAM, voice social engineering and phishing, eavesdropping, and man-in-the-middle exploits. This comprehensive guide features all-new chapters, case studies, and examples. See how hackers target vulnerable UC devices and entire networks Defend against TDoS, toll fraud, and service abuse Block calling number hacks and calling number spoofing Thwart voice social engineering and phishing exploits Employ voice spam mitigation products and filters Fortify Cisco Unified Communications Manager Use encryption to prevent eavesdropping and MITM attacks Avoid injection of malicious audio, video, and media files Use fuzzers to test and buttress your VoIP applications Learn about emerging technologies such as Microsoft Lync, OTT UC, other forms of UC, and cloud and WebRTC Considered the gold-standard reference on information security, the Information Security Management Handbook provides an authoritative compilation of the fundamental knowledge, skills, techniques, and tools required of today's IT security professional. Now in its sixth edition, this 3200 page, 4 volume stand-alone reference is organized under the CISSP Common Body of Knowledge domains and has been updated yearly. Each annual update, the latest is Volume 6, reflects the changes to the CBK in response to new laws and evolving technology. The classic and authoritative reference in the field of computer security, now completely updated and revised With the continued presence of large-scale computers; the proliferation of desktop, laptop, and handheld computers; and the vast international networks that interconnect them, the nature and extent of threats to computer security have grown enormously. Now in its fifth edition, Computer Security Handbook continues to provide authoritative guidance to identify and to eliminate these threats where possible, as well as to lessen any losses attributable to them. With seventy-seven chapters contributed by a panel of renowned industry professionals, the new edition has increased coverage in both breadth and depth of all ten domains of the Common Body of Knowledge defined by the International Information Systems Security Certification Consortium (ISC). Of the seventy-seven chapters in the fifth edition, twenty-five chapters are completely new, including: 1. Hardware Elements of Security 2. Fundamentals of Cryptography and Steganography 3. Mathematical models of information security 4. Insider threats 5. Social engineering and low-tech attacks 6. Spam, phishing, and Trojans: attacks meant to fool 7. Biometric authentication 8. VPNs and secure remote access 9. Securing Peer2Peer, IM, SMS, and collaboration tools 10. U.S. legal and regulatory security issues, such as GLBA and SOX Whether you are in charge of many computers or just one important one, there are immediate steps you can take to safeguard your computer system and its contents. Computer Security Handbook, Fifth Edition equips you to protect the information and networks that are vital to your organization. Following in the groundbreaking path of its predecessor, the second edition of the Social Workers' Desk Reference provides reliable and highly accessible information about effective services and treatment approaches across the full spectrum of social work practice. Succinct, illuminating chapters written by the field's most respected and experienced scholars and practitioners ensure that it will continue to be the sourcebook for all social workers. Social work practitioners and agency administrators are increasingly confronted with having to do more with less, and must make decisions and provide services as quickly as possible. The Social Workers' Desk

Reference, Second Edition, builds on the landmark achievement of the first edition with thorough revisions and over 75 all-new chapters. Its outstanding wealth of well-tested knowledge, presented in a crisp, to-the-point manner, makes it an even more vital resource for time-pressed practitioners. Page after page offers an abundance of up-to-date information and key tools and resources such as practice guidelines, program evaluations, validated assessment scales, and step-by-step treatment plans necessary for success in today's managed-care environment. The growing importance of evidence-based practice in social work is reflected throughout the chapters, as well as by the inclusion of an entire section devoted to showing how to use evidence intelligently and efficaciously. The Social Workers' Desk Reference, Second Edition, speaks directly to the daily realities of social workers in private, non-profit, and public settings, whatever their expertise and in all areas of practice: assessment and diagnosis, ethics, risk assessment, program evaluation, and beyond. Case managers, clinical social workers, supervisors, and administrators alike who have come to rely on the previous volume will quickly find its successor just as indispensable. CIO magazine, launched in 1987, provides business technology leaders with award-winning analysis and insight on information technology trends and a keen understanding of IT's role in achieving business goals. 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 This book constitutes the refereed proceedings of the 5th International Information Security Practice and Experience Conference, ISPEC 2009, held in Xi'an, China in April 2009. The 34 revised full papers were carefully reviewed and selected from 147 submissions. The papers are organized in topical sections on public key encryption, digital signatures, system security, applied cryptography, multimedia security and DRM, security protocols, key exchange and management, hash functions and MACs, cryptanalysis, network security as well as security applications. In the digital world, the need to protect communications increases every day. While traditional digital encryption methods are useful, there are many other options for hiding your information. Information Hiding in Speech Signals for Secure Communication provides a number of methods to hide secret speech information using a variety of digital speech coding standards. Professor Zhijun Wu has conducted years of research in the field of speech information hiding, and brings his state-of-the-art techniques to readers of this book, including a mathematical model for information hiding, the core concepts of secure speech communication, the ABS-based information hiding algorithm, and much more. This book shows how to implement a secure speech communication system, including applications to various network security states. Readers will find information hiding algorithms and techniques (embedding and extracting) that are capable of withstanding the advanced forms of attack. The book presents concepts and applications for all of the most widely used speech coding standards, including G.711, G.721, G.728, G.729 and GSM, along with corresponding hiding and extraction algorithms. Readers will also learn how to use a speech covert communication system over an IP network as well as a speech secure communication system applied in PSTN. Presents information hiding theory and the mathematical model used for information hiding in speech. Provides a number of methods to hide secret speech information using the most common digital speech coding

*standards. A combination of practice and theory enables programmers and system designers not only to implement tried and true encryption procedures, but also to consider probable future developments in their designs. Seventeen articles, all written by specialists in industry (most, like the editor, work for BTexact Technologies), offer a broad treatment of Voice over IP, or VoIP. Among the topics are voice quality, access, telephony solutions at the customer level, international standards, SS7 over IP, gateways and the Megaco architecture, bearer-independent call control, numbering and naming, multimedia with H.323, and clearinghouses and open settlement protocol. Annotation copyrighted by Book News, Inc., Portland, OR The International Conference on Autonomous Infrastructure, Management and Se- rity (AIMS 2010) was a single-track event integrating regular conference paper s- sions, tutorials, keynotes, and a PhD student workshop into a highly interactive event. The main goal of AIMS is to look beyond borders and to stimulate the exchange of ideas across different communities and among PhD students. AIMS 2010 collocated the International Summer School in Network and Service Management (ISSNSM 2010). This unique summer school offers hands-on learning experiences in network and service management topics, which requires attendees to work in practical on-site courses combined with preceding short tutorial-like teaching sessions. AIMS 2010—which took place during June 23–25, 2010, in Zürich, Switzerland and was hosted by the Communication Systems Group CSG, Department of Inform- ics IFI, of the University of Zürich UZH—followed the already established tradition of an unusually vivid and interactive conference series in terms of the fourth conf- ence, after successful instantiations in Oslo, Norway 2007, Bremen, Germany 2008, and Enschede, The Netherlands 2009. AIMS 2010 focused especially on autonomous management aspects of modern networks and their services. The set of mechanisms, peer-to-peer-based schemes, scalability aspects, and autonomous approaches are of major interest. In particular the design, monitoring, management, and protection of networked systems in an efficient, secure, and autonomic manner are key to comm- cially viable and successful networks and services. Presents information on how to analyze risks to your networks and the steps needed to select and deploy the appropriate countermeasures to reduce your exposure to physical and network threats. Also imparts the skills and knowledge needed to identify and counter some fundamental security risks and requirements, including Internet security threats and measures (audit trails IP sniffing/spoofing etc.) and how to implement security policies and procedures. In addition, this book covers security and network design with respect to particular vulnerabilities and threats. It also covers risk assessment and mitigation and auditing and testing of security systems as well as application standards and technologies required to build secure VPNs, configure client software and server operating systems, IPsec-enabled routers, firewalls and SSL clients. This comprehensive book will provide essential knowledge and skills needed to select, design and deploy a public key infrastructure (PKI) to secure existing and future applications. * Chapters contributed by leaders in the field cover theory and practice of computer security technology, allowing the reader to develop a new level of technical expertise * Comprehensive and up-to-date coverage of security issues facilitates learning and allows the reader to remain current and fully informed from multiple viewpoints * Presents methods of analysis and problem-solving techniques, enhancing the reader's grasp of the material and ability to implement practical solutions Noise and distortion that degrade the quality of speech signals can come from any number of sources. The technology and techniques for dealing with noise are almost as numerous, but it is only recently, with the development of inexpensive digital signal processing hardware, that the implementation of the technology has become practical. Noise Reduction in Speech Applications provides a comprehensive introduction to modern techniques for removing or reducing background noise from a range of speech-related applications. Self-contained, it starts with a tutorial-style chapter of background material, then focuses on system aspects, digital algorithms, and implementation. The final section explores a variety of applications and demonstrates to potential users of the technology the results possible with the noise reduction techniques presented. The book offers chapters contributed by international experts, a practical, systems approach, and numerous references. For electrical, acoustics, signal processing, communications, and bioengineers, Noise Reduction in Speech Applications is a valuable resource that shows you how to decide whether noise reduction will solve problems in your own systems and how to make the best use of the technologies available. "Military Communications: From Ancient Times to the 21st Century" is the first comprehensive reference work on the applications of communications technology to military tactics and strategy--a field that is just now coming into its own as a*

focus of historical study. Ranging from ancient times to the war in Iraq, it offers over 300 alphabetically organized entries covering many methods and modes of transmitting communication through the centuries, as well as key personalities, organizations, strategic applications, and more. "Military Communications" includes examples from armed forces around the world, with a focus on the United States, where many of the most dramatic advances in communications technology and techniques were realized. A number of entries focus on specific battles where communications superiority helped turn the tide, including Tsushima (1905), Tannenberg and the Marne (both 1914), Jutland (1916), and Midway (1942). The book also addresses a range of related topics such as codebreaking, propaganda, and the development of civilian telecommunications. “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 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 Voice over Internet Protocol (VoIP) networks have freed users from the tyranny of big telecom, allowing people to make phone calls over the Internet at very low or no cost. But while VoIP is easy and cheap, it's notoriously lacking in security. With minimal effort, hackers can eavesdrop on conversations, disrupt phone calls, change caller IDs, insert unwanted audio into existing phone calls, and access sensitive information. Hacking VoIP takes a dual approach to VoIP security, explaining its many security holes to hackers and administrators. If you're serious about security, and you either use or administer VoIP, you should know where VoIP's biggest weaknesses lie and how to shore up your security. And if your intellectual curiosity is leading you to explore the boundaries of VoIP, Hacking VoIP is your map and guidebook. Hacking VoIP will introduce you to every aspect of VoIP security, both in home and enterprise implementations. You'll learn about popular security assessment tools, the inherent vulnerabilities of common hardware and software packages, and how to: –Identify and defend against VoIP security attacks such as eavesdropping, audio injection, caller ID spoofing, and VoIP phishing –Audit VoIP network security –Assess the security of enterprise-level VoIP networks such as Cisco, Avaya, and Asterisk, and home VoIP solutions like Yahoo! and Vonage –Use common VoIP protocols like H.323, SIP, and RTP as well as unique protocols like IAX –Identify the many vulnerabilities in any VoIP network Whether you’re setting up and defending your VoIP network against attacks or just having sick fun testing the limits of VoIP networks, Hacking VoIP is your go-to source for every aspect of VoIP security and defense. This book presents the most interesting talks given at ISSE 2008 – the forum for the interdisciplinary discussion of how to adequately secure electronic business processes. The topics include: - Identity Management, Information Security Management - PKI-Solutions, Economics of IT-Security - Smart Tokens, e-ID-Cards, Infrastructur Solutions - Critical Information Infrastructure Protection, Data Protection, Legal Aspects. Adequate

information security is one of the basic requirements of all electronic business processes. It is crucial for effective solutions that the possibilities offered by security technology can be integrated with the commercial requirements of the applications. The reader may expect state-of-the-art: best papers of the Conference ISSE 2008. For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. Technologies et solutions de téléphonie sur IP La téléphonie sur IP s'impose progressivement dans tous les secteurs : la convergence vers un réseau tout IP s'accélère dans les entreprises, les fournisseurs d'accès généralisent leurs offres triple-play et quadruple-play incluant le service de téléphonie sur IP, des logiciels comme Skype, WLM, Yahoo ! Messenger ou Google Talk sont entrés dans les habitudes, sans parler de la téléphonie mobile qui devient hybride et s'adonne aux bienfaits du réseau IP. Ce livre offre un vaste panorama des technologies et des solutions de téléphonie sur IP. Qu'apporte ce modèle par rapport au réseau téléphonique traditionnel ? Quels sont les protocoles mis en oeuvre ? Comment garantir la qualité de service, la sécurité et le nomadisme ? Quelles sont les difficultés rencontrées et comment les contourner ? Quelles sont les architectures types à déployer en entreprise ? Quels sont les logiciels grand public qui proposent ce type de service et comment les utiliser ? Comment installer et maintenir gratuitement son propre PBX avec Asterisk ? Que nous réserve la téléphonie du futur ? Telles sont les questions auxquelles ce livre tente d'apporter une réponse. Cette seconde édition s'enrichit de nombreux compléments et exemples sur les dernières évolutions des technologies et des solutions logicielles et inclut, en particulier, un nouveau chapitre dédié à l'architecture IMS (IP Multimedia Subsystem). In addition to capital infrastructure and consumers, digital information created by individual and corporate consumers of information technology is quickly being recognized as a key economic resource and an extremely valuable asset to a company. Organizational, Legal, and Technological Dimensions of Information System Administration recognizes the importance of information technology by addressing the most crucial issues, challenges, opportunities, and solutions related to the role and responsibility of an information system. Highlighting various aspects of the organizational and legal implications of system administration, this reference work will be useful to managers, IT professionals, and graduate students who seek to gain an understanding in this discipline. The Latest Linux Security Solutions This authoritative guide will help you secure your Linux network--whether you use Linux as a desktop OS, for Internet services, for telecommunications, or for wireless services. Completely rewritten the ISECOM way, Hacking Exposed Linux, Third Edition provides the most up-to-date coverage available from a large team of topic-focused experts. The book is based on the latest ISECOM security research and shows you, in full detail, how to lock out intruders and defend your Linux systems against catastrophic attacks. Secure Linux by using attacks and countermeasures from the latest OSSTMM research Follow attack techniques of PSTN, ISDN, and PSDN over Linux Harden VoIP, Bluetooth, RF, RFID, and IR devices on Linux Block Linux signal jamming, cloning, and eavesdropping attacks Apply Trusted Computing and cryptography tools for your best defense Fix vulnerabilities in DNS, SMTP, and Web 2.0 services Prevent SPAM, Trojan, phishing, DoS, and DDoS exploits Find and repair errors in C code with static analysis and Hoare Logic This book constitutes the refereed joint proceedings of seven international workshops held in conjunction with the 5th International Symposium on Parallel and Distributed Processing and Applications, ISPA 2007, held in Niagara Falls, Canada in August 2007. The 53 revised full papers presented were carefully selected from many high quality submissions. The workshops contribute to enlarging the spectrum of the more general topics treated in the ISPA 2007 main conference. Exploiting our boundless desire to access everything all the time, digital technology is breaking down whatever boundaries still exist between the state, the market, and the private realm. Bernard Harcourt offers a powerful critique of what he calls the expository society, revealing just how unfree we are becoming and how little we seem to care.

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