

HACKING

VoIP

EXPOSED

Voice Over IP Security Secrets & Solutions

Edited by William E. Burcham

Hacking Exposed Voip Voice Over Ip Security Secrets Solutions

Dan York



Hacking Exposed Voip Voice Over Ip Security Secrets Solutions:

Hacking Exposed VoIP: Voice Over IP Security Secrets & Solutions David Endler, Mark Collier, 2006-11-28 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

Hacking Exposed Unified Communications & VoIP Security Secrets & Solutions, Second Edition Mark Collier, David Endler, 2013-12-20 The latest techniques for averting UC disaster 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

Information Security Practice and Experience Feng Bao, Hui Li, 2009-03-26 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

Hacking Exposed Web Applications, Third Edition Joel Scambray, Vincent Liu, Caleb Sima, 2010-10-22 The latest Web app attacks and countermeasures from world renowned practitioners Protect your Web applications from malicious attacks by mastering the weapons and thought processes of today's hacker Written by recognized security practitioners and thought leaders Hacking Exposed Web Applications Third Edition is fully updated to cover new infiltration methods and countermeasures Find out how to reinforce authentication and authorization plug holes in Firefox and IE reinforce against injection attacks and secure Web 2.0 features Integrating security into the Web development lifecycle SDL and into the broader enterprise information security program is also covered in this comprehensive resource Get full details on the hacker's footprinting scanning and profiling tools including SHODAN Maltego and OWASP DirBuster See new exploits of popular platforms like Sun Java System Web Server and Oracle WebLogic in operation Understand how attackers defeat commonly used Web authentication technologies See how real world session attacks leak sensitive data and how to fortify your applications Learn the most devastating methods used in today's hacks including SQL injection XSS XSRF phishing and XML injection techniques Find and fix vulnerabilities in ASP.NET PHP and J2EE execution environments Safety deploy XML social networking cloud computing and Web 2.0 services Defend against RIA Ajax UGC and browser based client side exploits Implement scalable threat modeling code review application scanning fuzzing and security testing procedures

Handbook of Communications Security F. Garzia, 2013 Communications represent a strategic sector for privacy protection and for personal company national and international security The interception damage or loss 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

VoIP Handbook Syed A. Ahson, Mohammad Ilyas, 2018-10-08 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

Mobile Application Security Himanshu Dwivedi,Chris Clark,David Thiel,2010-02-18 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

Information Hiding in Speech Signals for Secure Communication Zhijun Wu,2014-08-27 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 Seven Deadliest Unified Communications Attacks Dan York,2010-06-04 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 *Computer Security Handbook, Set* Seymour Bosworth,M. E. Kabay,Eric Whyne,2012-07-18 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 Hacking Exposed Windows: Microsoft Windows Security Secrets and Solutions, Third Edition Joel Scambray, 2007-12-04 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 Organizational, Legal, and Technological Dimensions of Information System Administration Portela, Irene Maria, Almeida, Fernando, 2013-09-30 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 Hacking Exposed Cisco Networks Andrew Vladimirov, Konstantin Gavrilenko, Andrei Mikhailovsky, 2006-01-06 Here is the first book to focus solely on Cisco network hacking security auditing and defense issues Using the proven Hacking Exposed methodology this book shows you how to locate and patch system vulnerabilities by

looking at your Cisco network through the eyes of a hacker The book covers device specific and network centered attacks and defenses and offers real world case studies *Future Challenges in Security and Privacy for Academia and Industry* Jan Camenisch, Simone Fischer-Hübner, Yuko Murayama, Armand Portmann, Carlos Rieder, 2011-05-24 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 **Hacking Exposed 5th Edition** Stuart McClure, Joel Scambray, George Kurtz, 2005-04-19 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 *Computer and Information Security Handbook* John R. Vacca, 2012-11-05 The second edition of this comprehensive handbook of computer and information security provides the most complete view of computer security and privacy available It offers in depth coverage of security theory technology and practice as they relate to established technologies as well as recent advances It explores practical solutions to many security issues Individual chapters are authored by leading experts in the field and address the immediate and long term challenges in the authors respective areas of expertise The book is organized into 10 parts comprised of 70 contributed chapters by leading experts in the areas of networking and systems security information management cyber warfare and security encryption technology privacy data storage physical security and a host of advanced security topics New to this edition are chapters on intrusion detection securing the cloud securing web apps ethical hacking cyber forensics physical security disaster recovery cyber attack deterrence and more Chapters by leaders in the field on theory and practice of computer and information security technology allowing the reader to develop a new level of technical expertise Comprehensive and up to date coverage of security issues 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 **Hacking Exposed Linux** ISECOM,2007-08-22 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 Hacking Exposed, Sixth Edition Stuart McClure,Joel Scambray,George Kurtz,2009-02-01 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 **Information Security and Digital Forensics** Dasun Weerasinghe,2010-01-13 ISDF 2009 the First International Conference on Information Security and Digital Forensics was held at City University London during September 7 8 2009 The c ference was organized as a meeting point for leading national and international perts of information security and digital forensics The conference was rewarding in many ways ISDF 2009 was an exciting and vibrant event with 4 keynote talks 25 invited talks and 18 full paper presentations and those attending had the opportunity to meet and talk with many distinguished people who are responsible for shaping the area of information security This conference was organized as part of two major research projects funded by the UK Engineering and Physical Sciences Research Council in the areas of Security and Digital Forensics I would like to thank all the people who contributed to the technical program The most apparent of these are the Indian delegates who all accepted our invite to give presentations at this conference Less apparent perhaps is the terrific work of the members of the Technical Program Committee especially in reviewing the papers which is a critical and time consuming task I would like to

thank Raj Rajarajan City University London for making the idea of the ISDF 2009 conference a reality with his hard work
Last but not least I would like to thank all the authors who submitted papers making the conference possible and the authors
of accepted papers for their cooperation Dasun Weerasinghe **Ace the IT Interview** Paula Moreira,2007-12-11 Proven
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