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# HACKING Wireless EXPOSED

Wireless Security Secrets & Solutions

Johnny Cache & Vincent Liu

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# Hacking Exposed Wireless Second Edition Wireless Security Secrets And Solutions

**Stuart McClure, Joel Scambray, George  
Kurtz**



## **Hacking Exposed Wireless Second Edition Wireless Security Secrets And Solutions:**

**Hacking Exposed Wireless, Second Edition** Johnny Cache, Joshua Wright, Vincent Liu, 2010-08-05 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 *Hacking Exposed Wireless* Johnny Cache, Joshua Wright, Vincent Liu, 2010

**"Hacking Exposed" Wireless : Wireless Security Secrets & Solutions** Johnny Cache, 2007 This comprehensive volume provides real tactical wireless security implementation coverage by showing how to execute the attacks and implement the defenses This is an invaluable resource for any IT professional who works with wireless technology

**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 Safely 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

**Hacking Exposed Wireless, Third Edition** Joshua Wright, Johnny Cache, 2015-03-16 Exploit and defend against the latest wireless network attacks Learn to exploit weaknesses in wireless network environments using the innovative techniques in this thoroughly updated guide Inside you'll find concise technical overviews the latest attack methods and ready to deploy countermeasures Find out how to leverage wireless eavesdropping break encryption systems deliver remote exploits and manipulate 802.11 clients and learn how attackers impersonate cellular networks Hacking Exposed Wireless Third Edition features expert coverage of ever expanding threats that affect leading edge technologies including Bluetooth Low Energy Software Defined Radio SDR ZigBee and Z Wave Assemble a wireless attack toolkit and master the hacker's weapons Effectively scan and enumerate WiFi networks and client devices Leverage advanced wireless attack tools including Wifite Scapy Pyrit Metasploit KillerBee and the Aircrack-ng suite Develop and launch client side attacks using Ettercap and the WiFi Pineapple Hack cellular networks with Airprobe Kraken Pytacle and YateBTS Exploit holes in WPA and WPA2 personal and enterprise security schemes Leverage rogue hotspots to deliver remote access software through fraudulent software updates Eavesdrop on Bluetooth Classic and Bluetooth Low Energy traffic Capture and evaluate proprietary wireless technology with Software Defined Radio tools Explore vulnerabilities in ZigBee and Z Wave connected smart homes and offices Attack remote wireless networks using compromised Windows systems and built in tools

**Hacking Exposed 7 : Network Security Secrets & Solutions, Seventh Edition** Stuart McClure, Joel Scambray, George Kurtz, 2012-07-11 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 *IT Auditing Using Controls to Protect Information Assets, 2nd Edition* Chris Davis, Mike Schiller, Kevin Wheeler, 2011-02-05 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 **Security Metrics, A Beginner's Guide** Caroline Wong, 2011-10-06 Security Smarts for the Self Guided IT Professional An extraordinarily thorough and sophisticated explanation of why you need to measure the effectiveness of your security program and how to do it A must have for any quality security program Dave Cullinane CISSP CISO VP Global Fraud Risk Security eBay Learn how to communicate the value of an information security program enable investment planning and decision making and drive necessary change to improve the security of your organization Security Metrics A Beginner s Guide explains step by step how to develop and implement a successful security metrics program This practical resource covers project management communication analytics tools identifying targets defining objectives obtaining stakeholder buy in metrics automation data quality and resourcing You ll also get details on cloud based security metrics and process improvement Templates checklists and examples give you the hands on help you need to get started right away Security Metrics 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 author s 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 Caroline Wong CISSP was formerly the Chief of Staff for the Global Information Security Team at eBay where she built the security metrics program from the ground up She has been a featured speaker at RSA ITWeb Summit Metricon the Executive Women s Forum ISC2 and the Information Security Forum **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](http://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

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**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

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countermeasures Find out how to leverage wireless eavesdropping break encryption systems deliver remote exploits and manipulate 802.11 clients and learn how attackers impersonate cellular networks Hacking Exposed Wireless Third Edition features expert coverage of ever expanding threats that affect leading edge technologies including Bluetooth Low Energy Software Defined Radio SDR ZigBee and Z Wave Assemble a wireless attack toolkit and master the hacker's weapons Effectively scan and enumerate WiFi networks and client devices Leverage advanced wireless attack tools including Wifite Scapy Pyrit Metasploit KillerBee and the Aircrack-ng suite Develop and launch client side attacks using Ettercap and the WiFi Pineapple Hack cellular networks with Airprobe Kraken Pytacle and YateBTS Exploit holes in WPA and WPA2 personal and enterprise security schemes Leverage rogue hotspots to deliver remote access software through fraudulent software updates Eavesdrop on Bluetooth Classic and Bluetooth Low Energy traffic Capture and evaluate proprietary wireless technology with Software Defined Radio tools Explore vulnerabilities in ZigBee and Z Wave connected smart homes and offices Attack remote wireless networks using compromised Windows systems and built-in tools

**Hacking Exposed Wireless** Johnny Cache, Vincent Liu, 2007-04-10 Secure Your Wireless Networks the Hacking Exposed Way Defend against the latest pervasive and devastating wireless attacks using the tactical security information contained in this comprehensive volume Hacking Exposed Wireless reveals how hackers zero in on susceptible networks and peripherals gain access and execute debilitating attacks Find out how to plug security holes in Wi-Fi 802.11 and Bluetooth systems and devices You'll also learn how to launch wireless exploits from Metasploit employ bulletproof authentication and encryption and sidestep insecure wireless hotspots The book includes vital details on new previously unpublished attacks alongside real world countermeasures Understand the concepts behind RF electronics Wi-Fi 802.11 and Bluetooth Find out how hackers use NetStumbler WiSPY Kismet KisMAC and AiroPeek to target vulnerable wireless networks Defend against WEP key brute force aircrack and traffic injection hacks Crack WEP at new speeds using Field Programmable Gate Arrays or your spare PS3 CPU cycles Prevent rogue AP and certificate authentication attacks Perform packet injection from Linux Launch DoS attacks using device driver independent tools Exploit wireless device drivers using the Metasploit 3.0 Framework Identify and avoid malicious hotspots Deploy WPA 802.11i authentication and encryption using PEAP FreeRADIUS and WPA pre-shared keys

**Gray Hat Hacking The Ethical Hackers Handbook, 3rd Edition** Allen Harper, Shon Harris, Jonathan Ness, Chris Eagle, Gideon Lenkey, Terron Williams, 2011-02-05 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



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**Information Security The Complete Reference, Second Edition** Mark Rhodes-Ousley, 2013-04-03 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

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**Network Security A Beginner's Guide 3/E** Eric Maiwald,2012-09-25 Security Smarts for the Self Guided IT Professional Defend your network against a wide range of existing and emerging threats Written by a Certified Information Systems Security Professional with more than 20 years of experience in the field Network Security A Beginner s Guide Third Edition is fully updated to include the latest and most effective security strategies You ll learn about the four basic types of attacks how hackers exploit them and how to implement information security services to protect information and systems Perimeter monitoring and encryption technologies are discussed in detail The book explains how to create and deploy an effective security policy manage and assess risk and perform audits Information security best practices and standards including ISO IEC 27002 are covered in this practical resource Network Security A Beginner s Guide Third Edition features Lingo Common security terms defined so that you re in the know on the job IMHO Frank and relevant opinions based on the author s 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

The Computer Incident Response Planning Handbook: Executable Plans for Protecting Information at Risk N.K. McCarthy,Matthew Todd,Jeff Klaben,2012-08-07 Annotation Based on proven rock solid computer incident response plans this handbook is derived from real world incident response plans that work and have survived audits and repeated execution during data breaches and due diligence The book provides an overview of attack and breach types strategies for assessing an organization and more

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