# Hacking Exposed Unified Communications Voip Security Secrets Solutions Second Edition

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*Hacking Exposed Unified Communications Voip*
As organizations begin to rely more heavily on unified communications — the management ... move from a digital connection to an IP-based connection to receive and make phone calls, concern about ...

*Myth busting: Unified comms isn't a security nightmare*
The Russian hacking group REvil attacked Kaseya ’ s VSA unified remote monitoring and ... patches and is taking a transparent approach to communications with MSPs and customers to ensure it ...

*Kaseya attack leaves MSPs asking more security questions*
Hackers have been discovered launching opportunistic phishing attacks against victims that pretend to be security updates for the Kaseya VSA product, vulnerable software recently exposed to a ...

*Researchers spot opportunistic phishing attacks in wake of Kaseya VSA ransomware*
Recruitment platform LinkedIn has denied claims that it has suffered a data breach, claiming that 700 million user accounts have surfaced online due to 'data scraping'. Cyber security ...

*LinkedIn denies data breach that reportedly exposed 700 million user records*
The cult classic movie Office Space is a scathing critique of life for software engineers in a cubicle farm, and it did get a lot of things right even if it didn ’ t always mean to. One of those ...

*Linux ’ s Marketing Problem*
Omdia report shows that Genetec has been increasing their global markets share in both VMS and Windows-based recorders categories According to the latest report from research organisation Omdia, ...

*CCTV surveillance*
Open source intelligence (OSINT) is the practice of collecting information from published or otherwise publicly available sources. OSINT operations, whether practiced by IT security pros ...

*15 top open source intelligence tools*
How do you know Joe Biden is not truth-telling? Well, you know the old joke ’ s mouth-moving punchline. On (or better, against) the Second Amendment, the constitutional scholar / president has ...

*The Weekend Jolt*
Next wave of SoCs will turbocharge camera capabilities at the edge A new generation of video cameras is poised to boost capabilities dramatically at the edge of the IP network, including more powerful ...

*Mall security*
“ AWS Wavelength, Vodafone 5G and MEC technologies allow us to monitor our autonomous vehicles in real time, via safe and secure communications, ” said Simon Brewerton, chief technology officer ...

*Aurrigo gets into autonomous gear through Vodafone, AWS partnership*
As organizations begin to rely more heavily on unified communications ... connection to an IP-based connection to receive and make phone calls, concern about hacking grows.

*Myth busting: Unified comms isn't a security nightmare*
How do you know Joe Biden is not truth-telling? Well, you know the old joke ’ s mouth-moving punchline. On (or better, against) the Second Amendment, the constitutional scholar / president has ...

*The Weekend Jolt*
As organizations begin to rely more heavily on unified communications — the management ... move from a digital connection to an IP-based connection to receive and make phone calls, concern about ...

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

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

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

Computer security touches every part of our daily lives from our computers and connected devices to the wireless signals around us. Breaches have real and immediate financial, privacy, and safety consequences. This handbook has compiled advice from top professionals working in the real world about how to minimize the possibility of computer security breaches in your systems. Written for professionals and college students, it provides comprehensive best guidance about how to minimize hacking, fraud, human error, the effects of natural disasters, and more. This essential and highly-regarded reference maintains timeless lessons and is fully revised and updated with current information on security issues for social networks, cloud computing, virtualization, and more.

How secure is your network? The best way to find out is to attack it, using the same tactics attackers employ to identify and exploit weaknesses. With the third edition of this practical book, you ’ ll learn how to perform network-based penetration testing in a structured manner. Security expert Chris McNab demonstrates common vulnerabilities, and the steps you can take to identify them in your environment. System complexity and attack surfaces continue to grow. This book provides a process to help you mitigate risks posed to your network. Each chapter includes a checklist summarizing attacker techniques, along with effective countermeasures you can use immediately. Learn how to effectively test system components, including: Common services such as SSH, FTP, Kerberos, SNMP, and LDAP Microsoft services, including NetBIOS, SMB, RPC, and RDP SMTP, POP3, and IMAP email services IPsec and PPTP services that provide secure network access TLS protocols and features providing transport security Web server software, including Microsoft IIS, Apache, and Nginx Frameworks including Rails, Django, Microsoft ASP.NET, and PHP Database servers, storage protocols, and distributed key-value stores

Provides coverage of the security features in Windows Server 2003. This book is useful for network professionals working with a Windows Server 2003 and/or Windows XP system.

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

The real-world guide to securing Cisco-based IP telephony applications, devices, and networks Cisco IP telephony leverages converged networks to dramatically reduce TCO and improve ROI. However, its critical importance to business communications and deep integration with enterprise IP networks make it susceptible to attacks that legacy telecom systems did not face. Now, there ’ s a comprehensive guide to securing the IP telephony components that ride atop data network infrastructures – and thereby providing IP telephony services that are safer, more resilient, more stable, and more scalable. Securing Cisco IP Telephony Networks provides comprehensive, up-to-date details for securing Cisco IP telephony equipment, underlying infrastructure, and telephony applications. Drawing on ten years of experience, senior network consultant Akhil Behl offers a complete security framework for use in any Cisco IP telephony environment. You ' ll find best practices and detailed configuration examples for securing Cisco Unified Communications Manager (CUCM), Cisco Unity/Unity Connection, Cisco Unified Presence, Cisco Voice Gateways, Cisco IP Telephony Endpoints, and many other Cisco IP Telephony applications. The book showcases easy-to-follow Cisco IP Telephony applications and network security-centric examples in every chapter. This guide is invaluable to every technical professional and IT decision-maker concerned with securing Cisco IP telephony networks, including network engineers, administrators, architects, managers, security analysts, IT directors, and consultants. Recognize vulnerabilities caused by IP network integration, as well as VoIP ' s unique security requirements Discover how hackers target IP telephony networks and proactively protect against each facet of their attacks Implement a flexible, proven methodology for end-to-end Cisco IP Telephony security Use a layered (defense-in-depth) approach that builds on underlying network security design Secure CUCM, Cisco Unity/Unity Connection, CUPS, CUCM Express, and Cisco Unity Express platforms against internal and external threats Establish physical security, Layer 2 and Layer 3 security, and Cisco ASA-based perimeter security Complete coverage of Cisco IP Telephony encryption and authentication fundamentals Configure Cisco IOS Voice Gateways to help prevent toll fraud and deter attacks Secure Cisco Voice Gatekeepers and Cisco Unified Border Element (CUBE) against rogue endpoints and other attack vectors Secure Cisco IP telephony endpoints – Cisco Unified IP Phones (wired, wireless, and soft phone) from malicious insiders and external threats 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.

Proven security tactics for today's mobile apps, devices, and networks "A great overview of the new threats created by mobile devices. ...The authors have heaps of experience in the topics and bring that to every chapter." -- Slashdot Hacking Exposed Mobile continues in the great tradition of the Hacking Exposed series, arming business leaders and technology practitioners with an in-depth understanding of the latest attacks and countermeasures--so they can leverage the power of mobile platforms while ensuring that security risks are contained." -- Jamil Farshchi, Senior Business Leader of Strategic Planning and Initiatives, VISA Identify and evade key threats across the expanding mobile risk landscape. Hacking Exposed Mobile: Security Secrets & Solutions covers the wide range of attacks to your mobile deployment alongside ready-to-use countermeasures. Find out how attackers compromise networks and devices, attack mobile services, and subvert mobile apps. Learn how to encrypt mobile data, fortify mobile platforms, and eradicate malware. This cutting-edge guide reveals secure mobile development guidelines, how to leverage mobile OS features and MDM to isolate apps and data, and the techniques the pros use to secure mobile payment systems. Tour the mobile risk ecosystem with expert guides to both attack and defense Learn how cellular network attacks compromise devices over-the-air See the latest Android and iOS attacks in action, and learn how to stop them Delve into mobile malware at the code level to understand how to write resilient apps Defend against server-side mobile attacks, including SQL and XML injection Discover mobile web attacks, including abuse of custom URI schemes and JavaScript bridges Develop stronger mobile authentication routines using OAuth and SAML Get comprehensive mobile app development security guidance covering everything from threat modeling to iOS- and Android-specific tips Get started quickly using our mobile pen testing and consumer security checklists

Voice Over Internet Protocol Security has been designed to help the reader fully understand, prepare for and mediate current security and QoS risks in today ' s complex and ever changing converged network environment and it will help you secure your VoIP network whether you are at the planning, implementation, or post-implementation phase of your VoIP infrastructure. * This book will teach you how to plan for and implement VoIP security solutions in converged network infrastructures. Whether you have picked up this book out of curiosity or professional interest . . . it is not too late to read this book and gain a deep understanding of what needs to be done in a VoIP implementation. * In the rush to be first to market or to implement the latest and greatest technology, many current implementations of VoIP infrastructures, both large and small, have been implemented with minimal thought to QoS and almost no thought to security and interoperability.