

Windows Exploitation – Smashing The Stack Hitz #7

Pendahuluan

Eksperimen basic stack overflow kali ini kita akan coba pada aplikasi Free CD to MP3 Converter. Exploit untuk program ini sudah ada di internet, tepatnya di situs ExploitDB (<http://www.exploit-db.com/exploits/15480/>).

Proses debugging aplikasi Free CD to MP3 Converter dilakukan pada sistem operasi Windows XP SP3 versi NIST FDCC (Federal Desktop Core Configuration) dan pembuatan script exploit pada Backtrack Linux 4 R2. Silakan download filenya.

- Free CD to MP3 Converter (<http://www.exploit-db.com/application/15480/>)
- Immunity Debugger (<http://www.immunityinc.com/products-immdbg.shtml>)
- pvefindaddr.py (<http://redmine.corelan.be:8800/projects/pvefindaddr>)
- Metasploit Framework (<http://www.metasploit.com/framework>)

Untuk memulai eksperimen, silakan install aplikasi debugger. Ada beberapa aplikasi debugger seperti WinDbg, Immunity Debugger, atau OllyDbg. Saya akan menggunakan Immunity Debugger untuk percobaan ini.

Sedikit Pengetahuan tentang CPU Register

Ketika kita bermain dengan Buffer Overflow, pengetahuan tentang CPU Register wajib diketahui. Sebuah CPU berbasis Intel x86 menggunakan 8 register sebagai tujuan umum, yaitu: EAX, EDX, ECX, ESI, EDI, EBP, ESP dan EBX.

Setiap register di desain untuk tujuan tertentu, dan masing-masing melaksanakan fungsinya yang memungkinkan CPU untuk memproses informasi secara efisien.

Register EAX, digunakan untuk melakukan perhitungan serta menyimpan nilai kembali dari pemanggilan fungsi (function calls). Operasi dasar seperti menambah, mengurangi, dan membandingkan dioptimalkan pada penggunaan register EAX. Khusus operasi lainnya seperti perkalian dan pembagian juga **hanya di dalam** register EAX.

Register EDX adalah Data Register. Pada dasarnya merupakan perpanjangan dari EAX untuk (membantu) menyimpan data tambahan untuk operasi kompleks. Hal tersebut juga dapat digunakan untuk general purpose data storage.

Windows Stack Exploitation

R Bogdan

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Windows Stack Exploitation:

Windows Stack Exploitation Samuel Huntley, 2015-02-07 This book gives intrinsic details of exploiting stack overflows in Windows applications It walks the reader through various steps that are necessary for identifying stack overflow vulnerabilities in Windows applications It also teaches how a reader should actually go about exploiting these vulnerabilities and bypass various Windows protections Overall this is a great tutorial for beginners as well as people who are inclined to understand the inner details of Windows protection mechanisms and bypass [Windows Exploitation Course](#) Samuel Huntley, 2015-11-21 This course gives intrinsic details of exploiting stack and heap overflows in Windows software applications It walks the students through all the steps that are necessary for bug hunting from reverse engineering to fuzzing to actually writing exploits in Windows software applications It also teaches how a student should actually go about exploiting these vulnerabilities and bypassing the various Windows protection mechanisms Overall this is a course worth the money It is one of the best tutorial for beginners as well as people who are inclined to understand the inner details of Windows protection mechanisms and bypass them *Windows Stack Exploitation 2* Samuel Huntley, 2017-01-06 This book gives intrinsic details of exploiting stack overflows in Windows applications It walks the reader through various steps that are necessary for identifying stack overflow vulnerabilities in Windows applications It also teaches how a reader should actually go about exploiting these vulnerabilities and bypass various Windows protections Overall this is a great tutorial for beginners as well as people who are inclined to understand the inner details of Windows protection mechanisms and bypass In the second version we have added how to create a fuzzer for network service and also how to port the exploits to exploitation framework **A Guide to Kernel Exploitation** Enrico Perla, Massimiliano Oldani, 2010-10-28 A Guide to Kernel Exploitation Attacking the Core discusses the theoretical techniques and approaches needed to develop reliable and effective kernel level exploits and applies them to different operating systems namely UNIX derivatives Mac OS X and Windows Concepts and tactics are presented categorically so that even when a specifically detailed vulnerability has been patched the foundational information provided will help hackers in writing a newer better attack or help pen testers auditors and the like develop a more concrete design and defensive structure The book is organized into four parts Part I introduces the kernel and sets out the theoretical basis on which to build the rest of the book Part II focuses on different operating systems and describes exploits for them that target various bug classes Part III on remote kernel exploitation analyzes the effects of the remote scenario and presents new techniques to target remote issues It includes a step by step analysis of the development of a reliable one shot remote exploit for a real vulnerability a bug affecting the SCTP subsystem found in the Linux kernel Finally Part IV wraps up the analysis on kernel exploitation and looks at what the future may hold Covers a range of operating system families UNIX derivatives Mac OS X Windows Details common scenarios such as generic memory corruption stack overflow heap overflow etc issues logical bugs and race conditions Delivers the reader from user land

exploitation to the world of kernel land OS exploits attacks with a particular focus on the steps that lead to the creation of successful techniques in order to give to the reader something more than just a set of tricks **The Shellcoder's Handbook** Chris Anley, John Heasman, Felix Lindner, Gerardo Richarte, 2011-02-16 This much anticipated revision written by the ultimate group of top security experts in the world features 40 percent new content on how to find security holes in any operating system or application New material addresses the many new exploitation techniques that have been discovered since the first edition including attacking unbreakable software packages such as McAfee's Enterecept Mac OS X XP Office 2003 and Vista Also features the first ever published information on exploiting Cisco's IOS with content that has never before been explored The companion Web site features downloadable code files [The NICE Cyber Security Framework](#) Izzat Alsmadi, 2019-01-24 This textbook is for courses in cyber security education that follow National Initiative for Cybersecurity Education NICE KSAs work roles and framework that adopt the Competency Based Education CBE method The book follows the CBT KSA general framework meaning each chapter contains three sections knowledge and questions and skills labs for Skills and Abilities The author makes an explicit balance between knowledge and skills material in information security giving readers immediate applicable skills The book is divided into seven parts Securely Provision Operate and Maintain Oversee and Govern Protect and Defend Analysis Operate and Collect Investigate All classroom materials in the book and ancillary adhere to the NICE framework Mirrors classes set up by the National Initiative for Cybersecurity Education NICE Adopts the Competency Based Education CBE method of teaching used by universities corporations and in government training Includes content and ancillaries that provide skill based instruction on compliance laws information security standards risk response and recovery and more [Penetration Testing](#) Georgia Weidman, 2014-06-14 Penetration testers simulate cyber attacks to find security weaknesses in networks operating systems and applications Information security experts worldwide use penetration techniques to evaluate enterprise defenses In Penetration Testing security expert researcher and trainer Georgia Weidman introduces you to the core skills and techniques that every pentester needs Using a virtual machine based lab that includes Kali Linux and vulnerable operating systems you'll run through a series of practical lessons with tools like Wireshark Nmap and Burp Suite As you follow along with the labs and launch attacks you'll experience the key stages of an actual assessment including information gathering finding exploitable vulnerabilities gaining access to systems post exploitation and more Learn how to Crack passwords and wireless network keys with brute forcing and wordlists Test web applications for vulnerabilities Use the Metasploit Framework to launch exploits and write your own Metasploit modules Automate social engineering attacks Bypass antivirus software Turn access to one machine into total control of the enterprise in the post exploitation phase You'll even explore writing your own exploits Then it's on to mobile hacking Weidman's particular area of research with her tool the Smartphone Pentest Framework With its collection of hands-on lessons that cover key tools and strategies Penetration Testing is the introduction that every aspiring hacker needs

The Mobile Application Hacker's Handbook Dominic Chell,Tyrone Erasmus,Shaun Colley,Ollie Whitehouse,2015-02-17

See your app through a hacker's eyes to find the real sources of vulnerability The Mobile Application Hacker's Handbook is a comprehensive guide to securing all mobile applications by approaching the issue from a hacker's point of view Heavily practical this book provides expert guidance toward discovering and exploiting flaws in mobile applications on the iOS Android Blackberry and Windows Phone platforms You will learn a proven methodology for approaching mobile application assessments and the techniques used to prevent disrupt and remediate the various types of attacks Coverage includes data storage cryptography transport layers data leakage injection attacks runtime manipulation security controls and cross platform apps with vulnerabilities highlighted and detailed information on the methods hackers use to get around standard security Mobile applications are widely used in the consumer and enterprise markets to process and or store sensitive data There is currently little published on the topic of mobile security but with over a million apps in the Apple App Store alone the attack surface is significant This book helps you secure mobile apps by demonstrating the ways in which hackers exploit weak points and flaws to gain access to data Understand the ways data can be stored and how cryptography is defeated Set up an environment for identifying insecurities and the data leakages that arise Develop extensions to bypass security controls and perform injection attacks Learn the different attacks that apply specifically to cross platform apps IT security breaches have made big headlines with millions of consumers vulnerable as major corporations come under attack Learning the tricks of the hacker's trade allows security professionals to lock the app up tight For better mobile security and less vulnerable data The Mobile Application Hacker's Handbook is a practical comprehensive guide

Secure Coding in C and C++ Robert C. Seacord,2013-03-23 Learn the Root Causes of Software Vulnerabilities and How to Avoid Them Commonly exploited software vulnerabilities are usually caused by avoidable software defects Having analyzed tens of thousands of vulnerability reports since 1988 CERT has determined that a relatively small number of root causes account for most of the vulnerabilities *Secure Coding in C and C++ Second Edition* identifies and explains these root causes and shows the steps that can be taken to prevent exploitation Moreover this book encourages programmers to adopt security best practices and to develop a security mindset that can help protect software from tomorrow's attacks not just today's Drawing on the CERT's reports and conclusions Robert C Seacord systematically identifies the program errors most likely to lead to security breaches shows how they can be exploited reviews the potential consequences and presents secure alternatives Coverage includes technical detail on how to Improve the overall security of any C or C++ application Thwart buffer overflows stack smashing and return oriented programming attacks that exploit insecure string manipulation logic Avoid vulnerabilities and security flaws resulting from the incorrect use of dynamic memory management functions Eliminate integer related problems resulting from signed integer overflows unsigned integer wrapping and truncation errors Perform secure I/O avoiding file system vulnerabilities Correctly use formatted output functions without introducing format string vulnerabilities Avoid race conditions and other

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