Advanced Windows Exploitation Techniques

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Omer Yair - Exploiting Windows Exploit Mitigation for ROP Exploits - DEF CON 27 Conference ~~Windows Exploitation~~ Security BSides Amman 2019 - Advanced Windows Attacks \u0026 Defensive Techniques Windows 10 Hacking - Exploitation and Privilege Escalation ~~Hands-On Penetration Testing on Windows~~ Best Cybersecurity Books in 2019 - Comprehensive Guide from Beginner to Advanced! Windows 10 Kernel Mitigations and Exploitation w/ Jaime Geiger \u0026 Stephen Sims - SANS HackFest Summit ~~Heap Spray Exploit Technique~~ ~~Full Ethical Hacking Course - Network Penetration Testing for~~

Beginners (2019) Advanced Exploitation Techniques - 1 Introduction to Exploits Is Art of Exploitation Still Relevant? Tutorial Series: Ethical Hacking Practical - Windows Exploitation Top 10: Best Books For Hackers 24-hour OSCP Exam in Timelapse My Top 5 Cyber Security Book Recommendations Exploiting Web Application Vulnerabilities - Cyberseclabs Shock Linux Security Exploitation: RCE via MySQL How to study for the OSCP in 5 Steps Best Books to Learn Ethical Hacking

Basic Exploitation with Metasploit: Windows: OSGi Console

Top 5 Books To Learn Hacking(Best Cybersecurity Books to become a hacker) #Shorts DAY[0] Episode #11 - Offsec's OSWE/AWAE, Massive Security failures, and a handful of cool attacks

Windows Credentials Attacks, Mitigations \u0026 DefenseBest Books To Learn

Ethical Hacking For Beginners | Learn Ethical Hacking 2020 | Simplilearn ~~ALL NEW OSCP - REVAMPED 2020~~ #0 - Resources to Learn Hacking Metasploit For Beginners - #1 - The Basics - Modules, Exploits \u0026 Payloads ~~4 Most Difficult IT Security Certifications~~ The Secret step-by-step Guide to learn Hacking Advanced Windows Exploitation Techniques

Topics covered in Advanced Windows Exploitation include: NX/ASLR Bypass Using different techniques to bypass Data Execution; Prevention and Address Space Layout

Advanced Windows Exploitation (AWE) | Offensive Security

Offensive Security's Advanced Windows Exploitation Techniques will challenge you to think laterally and develop creative solutions in today's increasingly difficult

exploitation environment. Advanced Windows Exploitation provides an in-depth and hardcore drilldown into topics ranging from precision heap spraying to DEP and ASLR bypass techniques to real-world 64-bit kernel exploitation.

Black Hat USA 2013 | Advanced Windows Exploitation Techniques

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Advanced Windows Exploitation - Offensive Security

Advanced Windows Exploitation (AWE) Live-training format with ample student-instructor interaction; Develop creative solutions for the most difficult exploitation environments; Designed for experienced exploit developers, AWE is not an entry-

level course.

Advanced Windows Exploitation - XpCourse

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Advanced Windows Exploitation Techniques

The focus of this day is on the advanced exploitation of applications running on the Windows OS. For many years now memory corruption bugs have been the de facto standard regarding exploiting Windows applications. Examples include Use After Free (UAF) and Type Confusion bugs.

Advanced Exploit Development for Pen Testers | SANS SEC760

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The Advanced Software Exploitation course is based on cutting-edge research and real world experience accumulated over the years by our Red Team. Hands-on Lab Exercises.

Advanced Software Exploitation course - PSEC Courses

Topics covered in Advanced Windows Exploitation include: NX/ASLR Bypass Using different techniques to bypass Data Execution Prevention and Address Space Layout

Advanced Windows Exploitation Cyber Security Courses

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Offensive Security's Advanced Windows Exploitation Techniques will challenge you to think laterally and develop creative solutions in today's increasingly difficult exploitation environment. Advanced Windows Exploitation provides an in-depth and hardcore drilldown into topics ranging from precision heap spraying to DEP and ASLR bypass techniques to real-world 64-bit kernel exploitation.

Black Hat USA 2014

Advanced stack-based techniques such as disabling data execution prevention (DEP) are covered. Client-side exploitation will

be introduced, as it is a highly common area of attack.

Advanced Penetration Testing Training | Exploit Writing ...

As mentioned earlier in exploitation techniques, an e-mail PST file has very little defense against attack. If an attacker is able to acquire one of these e-mail archives, he or she can easily crack the passwords and encryption to read all of the user's backed-up messages.

Exploitation Technique - an overview | ScienceDirect Topics

Overview. Advanced Windows Exploitation (AWE) Develop exploits in modern Windows Enviroments. Live-training format with ample student-instructor interaction. Develop creative solutions for the most difficult exploitation environments. Designed for experienced

exploit developers, AWE is not an entry-level course.

Advanced Windows Exploitation (AWE) (QAOFFSECAWE)

Original release date: December 17, 2020 Summary This Alert uses the MITRE Adversarial Tactics, Techniques, and Common Knowledge (ATT&CK®) version 8 framework. See the ATT&CK for Enterprise version 8 for all referenced threat actor tactics and techniques. The Cybersecurity and Infrastructure...

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.

Master the art of identifying vulnerabilities within the Windows OS and develop the desired solutions for it using Kali Linux. Key Features Identify the vulnerabilities in your system using Kali Linux 2018.02 Discover the art of exploiting Windows kernel drivers Get to know several bypassing techniques to gain control of your Windows environment Book Description Windows has always been the go-to platform for users around the globe

to perform administration and ad hoc tasks, in settings that range from small offices to global enterprises, and this massive footprint makes securing Windows a unique challenge. This book will enable you to distinguish yourself to your clients. In this book, you'll learn advanced techniques to attack Windows environments from the indispensable toolkit that is Kali Linux. We'll work through core network hacking concepts and advanced Windows exploitation techniques, such as stack and heap overflows, precision heap spraying, and kernel exploitation, using coding principles that allow you to leverage powerful Python scripts and shellcode. We'll wrap up with post-exploitation strategies that enable you to go deeper and keep your access. Finally, we'll introduce kernel hacking fundamentals and fuzzing testing, so you can discover vulnerabilities

and write custom exploits. By the end of this book, you'll be well-versed in identifying vulnerabilities within the Windows OS and developing the desired solutions for them. What you will learn Get to know advanced pen testing techniques with Kali Linux Gain an understanding of Kali Linux tools and methods from behind the scenes See how to use Kali Linux at an advanced level Understand the exploitation of Windows kernel drivers Understand advanced Windows concepts and protections, and how to bypass them using Kali Linux Discover Windows exploitation techniques, such as stack and heap overflows and kernel exploitation, through coding principles Who this book is for This book is for penetration testers, ethical hackers, and individuals breaking into the pentesting role after demonstrating an advanced skill in boot camps. Prior

experience with Windows exploitation, Kali Linux, and some Windows debugging tools is necessary

Get up to speed with various penetration testing techniques and resolve security threats of varying complexity Key Features Enhance your penetration testing skills to tackle security threats Learn to gather information, find vulnerabilities, and exploit enterprise defenses Navigate secured systems with the most up-to-date version of Kali Linux (2019.1) and Metasploit (5.0.0) Book Description Sending information via the internet is not entirely private, as evidenced by the rise in hacking, malware attacks, and security threats. With the help of this book, you'll learn crucial penetration testing techniques to help you evaluate enterprise defenses. You'll start by understanding each stage of pentesting and deploying target virtual

machines, including Linux and Windows. Next, the book will guide you through performing intermediate penetration testing in a controlled environment. With the help of practical use cases, you'll also be able to implement your learning in real-world scenarios. By studying everything from setting up your lab, information gathering and password attacks, through to social engineering and post exploitation, you'll be able to successfully overcome security threats. The book will even help you leverage the best tools, such as Kali Linux, Metasploit, Burp Suite, and other open source pentesting tools to perform these techniques. Toward the later chapters, you'll focus on best practices to quickly resolve security threats. By the end of this book, you'll be well versed with various penetration testing techniques so as to be able to tackle security threats effectively What you will learn Perform

entry-level penetration tests by learning various concepts and techniques Understand both common and not-so-common vulnerabilities from an attacker's perspective Get familiar with intermediate attack methods that can be used in real-world scenarios Understand how vulnerabilities are created by developers and how to fix some of them at source code level Become well versed with basic tools for ethical hacking purposes Exploit known vulnerable services with tools such as Metasploit Who this book is for If you're just getting started with penetration testing and want to explore various security domains, this book is for you. Security professionals, network engineers, and amateur ethical hackers will also find this book useful. Prior knowledge of penetration testing and ethical hacking is not necessary.

A global security expert draws on psychological insights to help you master the art of social engineering—human hacking. Make friends, influence people, and leave them feeling better for having met you by being more empathetic, generous, and kind. Eroding social conventions, technology, and rapid economic change are making human beings more stressed and socially awkward and isolated than ever. We live in our own bubbles, reluctant to connect, and feeling increasingly powerless, insecure, and apprehensive when communicating with others. A pioneer in the field of social engineering and a master hacker, Christopher Hadnagy specializes in understanding how malicious attackers exploit principles of human communication to access information and resources through manipulation and deceit. Now, he shows you how to use social

engineering as a force for good—to help you regain your confidence and control. Human Hacking provides tools that will help you establish rapport with strangers, use body language and verbal cues to your advantage, steer conversations and influence other's decisions, and protect yourself from manipulators. Ultimately, you'll become far more self-aware about how you're presenting yourself—and able to use it to improve your life. Hadnagy includes lessons and interactive "missions"—exercises spread throughout the book to help you learn the skills, practice them, and master them. With Human Hacking, you'll soon be winning friends, influencing people, and achieving your goals.

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 vulnerabilitya 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

Contrary to popular belief, there has never been any shortage of Macintosh-related

security issues. OS9 had issues that warranted attention. However, due to both ignorance and a lack of research, many of these issues never saw the light of day. No solid techniques were published for executing arbitrary code on OS9, and there are no notable legacy Macintosh exploits. Due to the combined lack of obvious vulnerabilities and accompanying exploits, Macintosh appeared to be a solid platform. Threats to Macintosh's OS X operating system are increasing in sophistication and number. Whether it is the exploitation of an increasing number of holes, use of rootkits for post-compromise concealment or disturbed denial of service, knowing why the system is vulnerable and understanding how to defend it is critical to computer security. Macintosh OS X Boot Process and Forensic Software All the power, all the tools, and all the geekery of Linux is present in Mac OS X. Shell

scripts, X11 apps, processes, kernel extensions...it's a UNIX platform....Now, you can master the boot process, and Macintosh forensic software Look Back Before the Flood and Forward Through the 21st Century Threatscape Back in the day, a misunderstanding of Macintosh security was more or less industry-wide. Neither the administrators nor the attackers knew much about the platform. Learn from Kevin Finisterre how and why that has all changed! Malicious Macs: Malware and the Mac As OS X moves further from desktops, laptops, and servers into the world of consumer technology (iPhones, iPods, and so on), what are the implications for the further spread of malware and other security breaches? Find out from David Harley Malware Detection and the Mac Understand why the continuing insistence of vociferous Mac zealots that it "can't happen here" is likely

to aid OS X exploitationg Mac OS X for Pen Testers With its BSD roots, super-slick graphical interface, and near-bulletproof reliability, Apple's Mac OS X provides a great platform for pen testing WarDriving and Wireless Penetration Testing with OS X Configure and utilize the KisMAC WLAN discovery tool to WarDrive. Next, use the information obtained during a WarDrive, to successfully penetrate a customer's wireless network Leopard and Tiger Evasion Follow Larry Hernandez through exploitation techniques, tricks, and features of both OS X Tiger and Leopard, using real-world scenarios for explaining and demonstrating the concepts behind them Encryption Technologies and OS X Apple has come a long way from the bleak days of OS9. THere is now a wide array of encryption choices within Mac OS X. Let Gareth Poreus show you what they are.

Cuts through the hype with a serious discussion of the security vulnerabilities of the Mac OS X operating system Reveals techniques by which OS X can be "owned" Details procedures to defeat these techniques Offers a sober look at emerging threats and trends

Build your own secure enterprise or home penetration testing lab to dig into the various hacking techniques About This Book Design and build an extendable penetration testing lab with wireless access suitable for home and enterprise use Fill the lab with various components and customize them according to your own needs and skill level Secure your lab from unauthorized access and external attacks Who This Book Is For If you are a beginner or a security professional who wishes to learn to build a home or enterprise lab environment where you can

safely practice penetration testing techniques and improve your hacking skills, then this book is for you. No prior penetration testing experience is required, as the lab environment is suitable for various skill levels and is used for a wide range of techniques from basic to advance. Whether you are brand new to online learning or you are a seasoned expert, you will be able to set up your own hacking playground depending on your tasks. What You Will Learn Determine your needs and choose the appropriate lab components for them Build a virtual or hardware lab network Imitate an enterprise network and prepare intentionally vulnerable software and services Secure wired and wireless access to your lab Choose a penetration testing framework according to your needs Arm your own wireless hacking platform Get to know the methods to create a strong defense mechanism for your system In

Detail Starting with the basics of wireless networking and its associated risks, we will guide you through the stages of creating a penetration testing lab with wireless access and preparing your wireless penetration testing machine. This book will guide you through configuring hardware and virtual network devices, filling the lab network with applications and security solutions, and making it look and work like a real enterprise network. The resulting lab protected with WPA-Enterprise will let you practice most of the attack techniques used in penetration testing projects. Along with a review of penetration testing frameworks, this book is also a detailed manual on preparing a platform for wireless penetration testing. By the end of this book, you will be at the point when you can practice, and research without worrying about your lab environment for every task. Style and

approach This is an easy-to-follow guide full of hands-on examples and recipes. Each topic is explained thoroughly and supplies you with the necessary configuration settings. You can pick the recipes you want to follow depending on the task you need to perform.

Delve inside Windows architecture and internals—and see how core components work behind the scenes. Led by three renowned internals experts, this classic guide is fully updated for Windows 7 and Windows Server 2008 R2—and now presents its coverage in two volumes. As always, you get critical insider perspectives on how Windows operates. And through hands-on experiments, you'll experience its internal behavior firsthand—knowledge you can apply to improve application design, debugging, system performance, and support. In Part

2, you'll examine: Core subsystems for I/O, storage, memory management, cache manager, and file systems Startup and shutdown processes Crash-dump analysis, including troubleshooting tools and techniques

A highly detailed guide to performing powerful attack vectors in many hands-on scenarios and defending significant security flaws in your company's infrastructure Key Features Advanced exploitation techniques to breach modern operating systems and complex network devices Learn about Docker breakouts, Active Directory delegation, and CRON jobs Practical use cases to deliver an intelligent endpoint-protected system Book Description It has always been difficult to gain hands-on experience and a comprehensive understanding of advanced penetration testing techniques and

vulnerability assessment and management. This book will be your one-stop solution to compromising complex network devices and modern operating systems. This book provides you with advanced penetration testing techniques that will help you exploit databases, web and application servers, switches or routers, Docker, VLAN, VoIP, and VPN. With this book, you will explore exploitation abilities such as offensive PowerShell tools and techniques, CI servers, database exploitation, Active Directory delegation, kernel exploits, cron jobs, VLAN hopping, and Docker breakouts. Moving on, this book will not only walk you through managing vulnerabilities, but will also teach you how to ensure endpoint protection. Toward the end of this book, you will also discover post-exploitation tips, tools, and methodologies to help your organization build an intelligent security

system. By the end of this book, you will have mastered the skills and methodologies needed to breach infrastructures and provide complete endpoint protection for your system. What you will learn Exposure to advanced infrastructure penetration testing techniques and methodologies Gain hands-on experience of penetration testing in Linux system vulnerabilities and memory exploitation Understand what it takes to break into enterprise networks Learn to secure the configuration management environment and continuous delivery pipeline Gain an understanding of how to exploit networks and IoT devices Discover real-world, post-exploitation techniques and countermeasures Who this book is for If you are a system administrator, SOC analyst, penetration tester, or a network engineer and want to take your penetration testing skills and security knowledge to

the next level, then this book is for you. Some prior experience with penetration testing tools and knowledge of Linux and Windows command-line syntax is beneficial.

Build a better defense against motivated, organized, professional attacks Advanced Penetration Testing: Hacking the World's Most Secure Networks takes hacking far beyond Kali linux and Metasploit to provide a more complex attack simulation. Featuring techniques not taught in any certification prep or covered by common defensive scanners, this book integrates social engineering, programming, and vulnerability exploits into a multidisciplinary approach for targeting and compromising high security environments. From discovering and creating attack vectors, and moving unseen through a target enterprise, to

establishing command and exfiltrating data—even from organizations without a direct Internet connection—this guide contains the crucial techniques that provide a more accurate picture of your system's defense. Custom coding examples use VBA, Windows Scripting Host, C, Java, JavaScript, Flash, and more, with coverage of standard library applications and the use of scanning tools to bypass common defensive measures. Typical penetration testing consists of low-level hackers attacking a system with a list of known vulnerabilities, and defenders preventing those hacks using an equally well-known list of defensive scans. The professional hackers and nation states on the forefront of today's threats operate at a much more complex level—and this book shows you how to defend your high security network. Use targeted social engineering pretexts to create the initial

compromise Leave a command and control structure in place for long-term access Escalate privilege and breach networks, operating systems, and trust structures Infiltrate further using harvested credentials while expanding control Today's threats are organized, professionally-run, and very much for-profit. Financial institutions, health care organizations, law enforcement, government agencies, and other high-value targets need to harden their IT infrastructure and human capital against targeted advanced attacks from motivated professionals. Advanced Penetration Testing goes beyond Kali linux and Metasploit and to provide you advanced pen testing for high security networks.

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