

Windows Internals

7
SEVENTH
EDITION

Part 1

System architecture, processes,
threads, memory management,
and more



Professional


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Advanced Kernel Mode Programming: APCs In Kernel Mode Apriorit Inc.,Artem Kotovsky,2020-09-17 This e book was written for developers by Apriorit experts who share their experience working with Asynchronous Procedure Calls APCs in kernel mode on Windows and describe what pitfalls to expect It goes in depth on how to implement an APC in the Windows 10 kernel explains the APC delivery scheme and shows several undocumented ways of working with APCs from kernel mode An Asynchronous Procedure Call provides a way to execute code within the context of a specific thread How to use APCs in user mode is well documented but how to use APCs from kernel mode isn t However that doesn t mean it s impossible Applying undocumented approaches for working with an APC from a kernel mode driver may lead to unexpected consequences Therefore we ve come up with several methods and used our knowledge and experience to try them all ourselves in order to save your time and efforts In this e book you ll find 1 A concise answer to what an APC is and how APCs can be used in Windows systems 2 Approaches and disadvantages of working with an APC from a kernel mode driver 3 A safe APC implementation based on reference counting of the kernel object 4 Examples of using an APC in the Windows kernel This guide contains detailed descriptions of major approaches to working with an APC from a kernel mode driver including using only alertable threads forcing APC delivery using an unloadable driver and counting object driver references It also explores the mechanism of assembler stub implementation for x86 and x64 This e book will be useful for anyone interested in alternative ways of working with APCs and anyone who wants to learn how to use APCs in the Windows kernel mode Table of contents What is an Asynchronous Procedure Call Using an APC in kernel mode Alertable and non alertable threads Using only alertable threads Forcing APC delivery Using the unexportable KeRemoveQueueApc function Using an unloadable driver Using object driver reference counting Assembler stub implementation for x86 Assembler stub implementation for x64 Examples of using an APC in the Windows kernel References **Learning Malware Analysis** Monnappa K A,2018-06-29 Understand malware analysis and its practical implementation Key Features Explore the key concepts of malware analysis and memory forensics using real world examples Learn the art of detecting analyzing and investigating malware threats Understand adversary tactics and techniques Book Description Malware analysis and memory forensics are powerful analysis and investigation techniques used in reverse engineering digital forensics and incident response With adversaries becoming

sophisticated and carrying out advanced malware attacks on critical infrastructures data centers and private and public organizations detecting responding to and investigating such intrusions is critical to information security professionals Malware analysis and memory forensics have become must have skills to fight advanced malware targeted attacks and security breaches This book teaches you the concepts techniques and tools to understand the behavior and characteristics of malware through malware analysis It also teaches you techniques to investigate and hunt malware using memory forensics This book introduces you to the basics of malware analysis and then gradually progresses into the more advanced concepts of code analysis and memory forensics It uses real world malware samples infected memory images and visual diagrams to help you gain a better understanding of the subject and to equip you with the skills required to analyze investigate and respond to malware related incidents What you will learn Create a safe and isolated lab environment for malware analysis Extract the metadata associated with malware Determine malware s interaction with the system Perform code analysis using IDA Pro and x64dbg Reverse engineer various malware functionalities Reverse engineer and decode common encoding encryption algorithms Reverse engineer malware code injection and hooking techniques Investigate and hunt malware using memory forensics Who this book is for This book is for incident responders cyber security investigators system administrators malware analyst forensic practitioners student or curious security professionals interested in learning malware analysis and memory forensics Knowledge of programming languages such as C and Python is helpful but is not mandatory If you have written few lines of code and have a basic understanding of programming concepts you ll be able to get most out of this book

ECIW2008- 7th European Conference on Information Warfare and Security Dr Dan Remenyi,2008 *Digital Forensic Science* Vassil Roussev,2022-05-31 Digital forensic science or digital forensics is the application of scientific tools and methods to identify collect and analyze digital data artifacts in support of legal proceedings From a more technical perspective it is the process of reconstructing the relevant sequence of events that have led to the currently observable state of a target IT system or digital artifacts Over the last three decades the importance of digital evidence has grown in lockstep with the fast societal adoption of information technology which has resulted in the continuous accumulation of data at an exponential rate Simultaneously there has been a rapid growth in network connectivity and the complexity of IT systems leading to more complex behavior that needs to be investigated The goal of this book is to provide a systematic technical overview of digital forensic techniques primarily from the point of view of computer science This allows us to put the field in the broader perspective of a host of related areas and gain better insight into the computational challenges facing forensics as well as draw inspiration for addressing them This is needed as some of the challenges faced by digital forensics such as cloud computing require qualitatively different approaches the sheer volume of data to be examined also requires new means of processing it **Windows Internals, Part 1** ,2017 *Microsoft Windows Internals* David A. Solomon,2005

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