

 Microsoft

Windows Internals

Part 1

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

7
SEVENTH
EDITION



 Professional

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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

Evading EDR Matt Hand,2023-10-31
EDR demystified Stay a step ahead of attackers with this comprehensive guide to understanding the attack detection software running on Microsoft systems and how to evade it Nearly every enterprise uses an Endpoint Detection and Response EDR agent to monitor the devices on their network for signs of an attack But that doesn t mean security defenders grasp how these systems actually work This book demystifies EDR taking you on a deep dive into how EDRs detect adversary activity Chapter by chapter you ll learn that EDR is not a magical black box it s just a complex software application built around a few easy to understand components The author uses his years of experience as a red team operator to investigate each of the most common sensor components discussing their purpose explaining their implementation and showing the ways they collect various data points from the Microsoft operating system In addition to covering the theory behind designing an

effective EDR each chapter also reveals documented evasion strategies for bypassing EDRs that red teamers can use in their engagements

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