
The Art Of Memory Forensics Detecting Malware And

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*The Art Of Memory
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Practical Malware Analysis No Starch Press

This book constitutes the refereed proceedings of the 25th Nordic Conference on Secure IT Systems, NordSec 2020, which was organized by Linköping University, Sweden, and held online during November 23-24, 2020. The 15 papers presented in this volume were carefully reviewed and selected from 45 submissions. They were organized in topical sections named: malware and attacks; formal analysis; applied cryptography; security mechanisms and training; and applications and privacy.

Operating System Forensics Packt Publishing Ltd

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.

Rootkit Arsenal Packt Publishing Ltd Malware analysis is big business, and attacks can cost a company dearly. When malware breaches your defenses, you need to act quickly to cure current infections and prevent future ones from occurring. For those who want to stay ahead of the latest malware, *Practical Malware Analysis* will teach you the tools and techniques used by professional analysts. With this book as your guide, you'll be able to safely analyze, debug, and disassemble any malicious software that comes your way. You'll learn how to:

- Set up a safe virtual environment to analyze malware
- Quickly extract network signatures and host-based indicators
- Use key analysis tools like

IDA Pro, OllyDbg, and WinDbg

- Overcome malware tricks like obfuscation, anti-disassembly, anti-debugging, and anti-virtual machine techniques
- Use your newfound knowledge of Windows internals for malware analysis
- Develop a methodology for unpacking malware and get practical experience with five of the most popular packers
- Analyze special cases of malware with shellcode, C++, and 64-bit code

Hands-on labs throughout the book challenge you to practice and synthesize your skills as you dissect real malware samples, and pages of detailed dissections offer an over-the-shoulder look at how the pros do it. You'll learn how to crack open malware to see how it really works, determine what damage it has done, thoroughly clean your network, and ensure that the malware never comes back. Malware analysis is a cat-and-mouse game with rules that are constantly changing, so make sure you have the fundamentals. Whether you're tasked with securing one network or a thousand networks, or you're making a living as a malware analyst, you'll find what you need to succeed in *Practical Malware Analysis*.

Mastering Windows Network Forensics and Investigation Springer Nature

Secure Your Wireless Networks the Hacking Exposed Way Defend against the latest pervasive and devastating wireless attacks using the tactical security information contained in this comprehensive volume. *Hacking Exposed Wireless* reveals how hackers zero in on susceptible networks and peripherals, gain access, and execute debilitating attacks. Find out how to plug security holes in Wi-Fi/802.11 and Bluetooth systems and devices. You'll

also learn how to launch wireless exploits from Metasploit, employ bulletproof authentication and encryption, and sidestep insecure wireless hotspots. The book includes vital details on new, previously unpublished attacks alongside real-world countermeasures. Understand the concepts behind RF electronics, Wi-Fi/802.11, and Bluetooth Find out how hackers use NetStumbler, WiSPY, Kismet, KisMAC, and AiroPeek to target vulnerable wireless networks Defend against WEP key brute-force, aircrack, and traffic injection hacks Crack WEP at new speeds using Field Programmable Gate Arrays or your spare PS3 CPU cycles Prevent rogue AP and certificate authentication attacks Perform packet injection from Linux Launch DoS attacks using device driver-independent tools Exploit wireless device drivers using the Metasploit 3.0 Framework Identify and avoid malicious hotspots Deploy WPA/802.11i authentication and encryption using PEAP, FreeRADIUS, and WPA pre-shared keys

Malware Forensics Field Guide for Windows Systems Pearson Education Analyzing how hacks are done, so as to stop them in the future Reverse engineering is the process of analyzing hardware or software and understanding it, without having access to the sourcecode or design documents. Hackers are able to reverse engineersystems and exploit what they find with scary results. Now the goodguys can use the same tools to thwart these threats. PracticalReverse Engineering goes under the hood of reverse engineeringfor security analysts, security engineers, and system programmers,so they can learn how to use these same processes to stop hackersin their tracks. The book covers

x86, x64, and ARM (the first book to cover allthree); Windows kernel-mode code rootkits and drivers; virtualmachine protection techniques; and much more. Best of all, itoffers a systematic approach to the material, with plenty ofhands-on exercises and real-world examples. Offers a systematic approach to understanding reverseengineering, with hands-on exercises and real-world examples Covers x86, x64, and advanced RISC machine (ARM) architecturesas well as deobfuscation and virtual machine protectiontechniques Provides special coverage of Windows kernel-mode code(rootkits/drivers), a topic not often covered elsewhere, andexplains how to analyze drivers step by step Demystifies topics that have a steep learning curve Includes a bonus chapter on reverse engineering tools Practical Reverse Engineering: Using x86, x64, ARM, WindowsKernel, and Reversing Tools provides crucial, up-to-dateguidance for a broad range of IT professionals.

Learning Network Forensics John Wiley & Sons

“This is a must-have work for anybody in information security, digital forensics, or involved with incident handling. As we move away from traditional disk-based analysis into the interconnectivity of the cloud, Sherri and Jonathan have created a framework and roadmap that will act as a seminal work in this developing field.” – Dr. Craig S. Wright (GSE), Asia Pacific Director at Global Institute for Cyber Security + Research. “It’s like a symphony meeting an encyclopedia meeting a spy novel.” –Michael Ford, Corero Network Security On the Internet, every action leaves a mark—in routers, firewalls, web proxies, and within network traffic itself. When a hacker breaks into a bank, or an insider

smuggles secrets to a competitor, evidence of the crime is always left behind. Learn to recognize hackers' tracks and uncover network-based evidence in *Network Forensics: Tracking Hackers through Cyberspace*. Carve suspicious email attachments from packet captures. Use flow records to track an intruder as he pivots through the network. Analyze a real-world wireless encryption-cracking attack (and then crack the key yourself). Reconstruct a suspect's web surfing history—and cached web pages, too—from a web proxy. Uncover DNS-tunneled traffic. Dissect the Operation Aurora exploit, caught on the wire. Throughout the text, step-by-step case studies guide you through the analysis of network-based evidence. You can download the evidence files from the authors' web site (imgsecurity.com), and follow along to gain hands-on experience. Hackers leave footprints all across the Internet. Can you find their tracks and solve the case? Pick up *Network Forensics* and find out. [Strengthening Forensic Science in the United States](#) "O'Reilly Media, Inc." Stop manually analyzing binary! *Practical Binary Analysis* is the first book of its kind to present advanced binary analysis topics, such as binary instrumentation, dynamic taint analysis, and symbolic execution, in an accessible way. As malware increasingly obfuscates itself and applies anti-analysis techniques to thwart our analysis, we need more sophisticated methods that allow us to raise that dark curtain designed to keep us out—binary analysis can help. The goal of all binary analysis is to determine (and possibly modify) the true properties of binary programs to understand what they really do, rather than what we think they should do. While reverse engineering and

disassembly are critical first steps in many forms of binary analysis, there is much more to be learned. This hands-on guide teaches you how to tackle the fascinating but challenging topics of binary analysis and instrumentation and helps you become proficient in an area typically only mastered by a small group of expert hackers. It will take you from basic concepts to state-of-the-art methods as you dig into topics like code injection, disassembly, dynamic taint analysis, and binary instrumentation. Written for security engineers, hackers, and those with a basic working knowledge of C/C++ and x86-64, *Practical Binary Analysis* will teach you in-depth how binary programs work and help you acquire the tools and techniques needed to gain more control and insight into binary programs. Once you've completed an introduction to basic binary formats, you'll learn how to analyze binaries using techniques like the GNU/Linux binary analysis toolchain, disassembly, and code injection. You'll then go on to implement profiling tools with Pin and learn how to build your own dynamic taint analysis tools with libdft and symbolic execution tools using Triton. You'll learn how to:

- Parse ELF and PE binaries and build a binary loader with libbfd
- Use data-flow analysis techniques like program tracing, slicing, and reaching definitions analysis to reason about runtime flow of your programs
- Modify ELF binaries with techniques like parasitic code injection and hex editing
- Build custom disassembly tools with Capstone
- Use binary instrumentation to circumvent anti-analysis tricks commonly used by malware
- Apply taint analysis to detect control hijacking and data leak attacks
- Use symbolic execution to build automatic exploitation tools

With

exercises at the end of each chapter to help solidify your skills, you'll go from understanding basic assembly to performing some of the most sophisticated binary analysis and instrumentation. Practical Binary Analysis gives you what you need to work effectively with binary programs and transform your knowledge from basic understanding to expert-level proficiency.

Secure IT Systems Columbia University Press

Handbook of Digital Forensics and Investigation builds on the success of the Handbook of Computer Crime Investigation, bringing together renowned experts in all areas of digital forensics and investigation to provide the consummate resource for practitioners in the field. It is also designed as an accompanying text to Digital Evidence and Computer Crime. This unique collection details how to conduct digital investigations in both criminal and civil contexts, and how to locate and utilize digital evidence on computers, networks, and embedded systems. Specifically, the Investigative Methodology section of the Handbook provides expert guidance in the three main areas of practice: Forensic Analysis, Electronic Discovery, and Intrusion Investigation. The Technology section is extended and updated to reflect the state of the art in each area of specialization. The main areas of focus in the Technology section are forensic analysis of Windows, Unix, Macintosh, and embedded systems (including cellular telephones and other mobile devices), and investigations involving networks (including enterprise environments and mobile telecommunications technology). This handbook is an essential technical

reference and on-the-job guide that IT professionals, forensic practitioners, law enforcement, and attorneys will rely on when confronted with computer related crime and digital evidence of any kind. *Provides methodologies proven in practice for conducting digital investigations of all kinds *Demonstrates how to locate and interpret a wide variety of digital evidence, and how it can be useful in investigations *Presents tools in the context of the investigative process, including EnCase, FTK, ProDiscover, foremost, XACT, Network Miner, Splunk, flow-tools, and many other specialized utilities and analysis platforms *Case examples in every chapter give readers a practical understanding of the technical, logistical, and legal challenges that arise in real investigations

Visual Culture and the Forensic Academic Press

David Houston Jones builds a bridge between practices conventionally understood as forensic, such as crime scene investigation, and the broader field of activity which the forensic now designates, for example in performance and installation art as well as photography. Contemporary work in these areas responds both to forensic evidence, including crime scene photography, and to some of the assumptions underpinning its consumption. It asks how we look, and in whose name, foregrounding and scrutinising the enduring presence of voyeurism in visual media and instituting new forms of ethical engagement. Such work responds to the object-oriented culture associated with the forensic and offers a reassessment of the relationship of human voice and material evidence. It displays an enduring debt to the discursive model of testimony which has

so far been insufficiently recognised, and which forms the basis for a new ethical understanding of the forensic. Jones's analysis brings this methodology to bear upon a strand of contemporary visual activity that has the power to significantly redefine our understandings of the production, analysis and deployment of evidence. Artists examined include Forensic Architecture, Simon Norfolk, Melanie Pullen, Angela Strassheim, John Gerrard, Julian Charrière, Trevor Paglen, Laura Poitras and Sophie Ristelhueber. The book will be of interest to scholars working in art history, visual culture, literary studies, modern languages, photography and critical theory.

File System Forensic Analysis Elsevier
A computer forensics "how-to" for fighting malicious code and analyzing incidents With our ever-increasing reliance on computers comes an ever-growing risk of malware. Security professionals will find plenty of solutions in this book to the problems posed by viruses, Trojan horses, worms, spyware, rootkits, adware, and other invasive software. Written by well-known malware experts, this guide reveals solutions to numerous problems and includes a DVD of custom programs and tools that illustrate the concepts, enhancing your skills. Security professionals face a constant battle against malicious software; this practical manual will improve your analytical capabilities and provide dozens of valuable and innovative solutions. Covers classifying malware, packing and unpacking, dynamic malware analysis, decoding and decrypting, rootkit detection, memory forensics, open source malware research, and much more. Includes generous amounts of source code in C, Python, and Perl to

extend your favorite tools or build new ones, and custom programs on the DVD to demonstrate the solutions. *Malware Analyst's Cookbook* is indispensable to IT security administrators, incident responders, forensic analysts, and malware researchers.

Practical Binary Analysis Addison-Wesley Professional

In recent years, a little-known research group named Forensic Architecture began using novel research methods to undertake a series of investigations into human rights abuses. Today, the group provides crucial evidence for international courts and works with a wide range of activist groups, NGOs, Amnesty International, and the UN. Beyond shedding new light on human rights violations and state crimes across the globe, Forensic Architecture has also created a new form of investigative practice that bears its name. The group uses architecture as an optical device to investigate armed conflicts and environmental destruction, as well as to cross-reference a variety of evidence sources, such as new media, remote sensing, material analysis, witness testimony, and crowd-sourcing. In *Forensic Architecture*, Eyal Weizman, the group's founder, provides, for the first time, an in-depth introduction to the history, practice, assumptions, potentials, and double binds of this practice. The book includes an extensive array of images, maps, and detailed documentation that records the intricate work the group has performed. Included in this volume are case studies that traverse multiple scales and durations, ranging from the analysis of the shrapnel fragments in a room struck by drones in Pakistan, the reconstruction of a contested shooting in the West Bank, the architectural recreation of a secret

Syrian detention center from the memory of its survivors, a blow-by-blow account of a day-long battle in Gaza, and an investigation of environmental violence and climate change in the Guatemalan highlands and elsewhere. Weizman's Forensic Architecture, stunning and shocking in its critical narrative, powerful images, and daring investigations, presents a new form of public truth, technologically, architecturally, and aesthetically produced. Their practice calls for a transformative politics in which architecture as a field of knowledge and a mode of interpretation exposes and confronts ever-new forms of state violence and secrecy.

Investigating Windows Systems Packt Publishing Ltd

A practical handbook to cybersecurity for both tech and non-tech professionals As reports of major data breaches fill the headlines, it has become impossible for any business, large or small, to ignore the importance of cybersecurity. Most books on the subject, however, are either too specialized for the non-technical professional or too general for positions in the IT trenches. Thanks to author Nadean Tanner's wide array of experience from teaching at a University to working for the Department of Defense, the Cybersecurity Blue Team Toolkit strikes the perfect balance of substantive and accessible, making it equally useful to those in IT or management positions across a variety of industries. This handy guide takes a simple and strategic look at best practices and tools available to both cybersecurity management and hands-on professionals, whether they be new to the field or looking to expand their expertise. Tanner gives comprehensive coverage to such crucial topics as

security assessment and configuration, strategies for protection and defense, offensive measures, and remediation while aligning the concept with the right tool using the CIS Controls version 7 as a guide. Readers will learn why and how to use fundamental open source and free tools such as ping, tracert, PuTTY, pathping, sysinternals, NMAP, OpenVAS, Nexpose Community, OSSEC, Hamachi, InSSIDer, Nexpose Community, Wireshark, Solarwinds Kiwi Syslog Server, Metasploit, Burp, Clonezilla and many more. Up-to-date and practical cybersecurity instruction, applicable to both management and technical positions • Straightforward explanations of the theory behind cybersecurity best practices • Designed to be an easily navigated tool for daily use • Includes training appendix on Linux, how to build a virtual lab and glossary of key terms The Cybersecurity Blue Team Toolkit is an excellent resource for anyone working in digital policy as well as IT security professionals, technical analysts, program managers, and Chief Information and Technology Officers. This is one handbook that won't gather dust on the shelf, but remain a valuable reference at any career level, from student to executive.

Digital Forensics and Incident Response Elsevier

Beginning with a basic primer on reverse engineering-including computer internals, operating systems, and assembly language-and then discussing the various applications of reverse engineering, this book provides readers with practical, in-depth techniques for software reverse engineering. The book is broken into two parts, the first deals with security-related reverse engineering and the second explores the more practical aspects of reverse engineering.

In addition, the author explains how to reverse engineer a third-party software library to improve interfacing and how to reverse engineer a competitor's software to build a better product. * The first popular book to show how software reverse engineering can help defend against security threats, speed up development, and unlock the secrets of competitive products * Helps developers plug security holes by demonstrating how hackers exploit reverse engineering techniques to crack copy-protection schemes and identify software targets for viruses and other malware * Offers a primer on advanced reverse-engineering, delving into "disassembly"-code-level reverse engineering-and explaining how to decipher assembly language

The Art of Memory Forensics McGraw Hill Professional

Maximize the power of Windows Forensics to perform highly effective forensic investigations About This Book Prepare and perform investigations using powerful tools for Windows, Collect and validate evidence from suspects and computers and uncover clues that are otherwise difficult Packed with powerful recipes to perform highly effective field investigations Who This Book Is For If you are a forensic analyst or incident response professional who wants to perform computer forensics investigations for the Windows platform and expand your tool kit, then this book is for you. What You Will Learn Understand the challenges of acquiring evidence from Windows systems and overcome them Acquire and analyze Windows memory and drive data with modern forensic tools. Extract and analyze data from Windows file systems, shadow copies and the registry Understand the main Windows system

artifacts and learn how to parse data from them using forensic tools See a forensic analysis of common web browsers, mailboxes, and instant messenger services Discover how Windows 10 differs from previous versions and how to overcome the specific challenges it presents Create a graphical timeline and visualize data, which can then be incorporated into the final report Troubleshoot issues that arise while performing Windows forensics In Detail Windows Forensics Cookbook provides recipes to overcome forensic challenges and helps you carry out effective investigations easily on a Windows platform. You will begin with a refresher on digital forensics and evidence acquisition, which will help you to understand the challenges faced while acquiring evidence from Windows systems. Next you will learn to acquire Windows memory data and analyze Windows systems with modern forensic tools. We also cover some more in-depth elements of forensic analysis, such as how to analyze data from Windows system artifacts, parse data from the most commonly-used web browsers and email services, and effectively report on digital forensic investigations. You will see how Windows 10 is different from previous versions and how you can overcome the specific challenges it brings. Finally, you will learn to troubleshoot issues that arise while performing digital forensic investigations. By the end of the book, you will be able to carry out forensics investigations efficiently. Style and approach This practical guide filled with hands-on, actionable recipes to detect, capture, and recover digital artifacts and deliver impeccable forensic outcomes. [Mastering Python Forensics](#) John Wiley & Sons

In the second edition of this very successful book, Tony Sammes and Brian Jenkinson show how the contents of computer systems can be recovered, even when hidden or subverted by criminals. Equally important, they demonstrate how to insure that computer evidence is admissible in court. Updated to meet ACPO 2003 guidelines, *Forensic Computing: A Practitioner's Guide* offers: methods for recovering evidence information from computer systems; principles of password protection and data encryption; evaluation procedures used in circumventing a system's internal security safeguards, and full search and seizure protocols for experts and police officers.

Forensic Computing Routledge
Identify and safeguard your network against both internal and external threats, hackers, and malware attacks
About This Book Lay your hands on physical and virtual evidence to understand the sort of crime committed by capturing and analyzing network traffic
Connect the dots by understanding web proxies, firewalls, and routers to close in on your suspect
A hands-on guide to help you solve your case with malware forensic methods and network behaviors
Who This Book Is For
If you are a network administrator, system administrator, information security, or forensics professional and wish to learn network forensic to track the intrusions through network-based evidence, then this book is for you. Basic knowledge of Linux and networking concepts is expected.
What You Will Learn Understand Internetworking, sources of network-based evidence and other basic technical fundamentals, including the tools that will be used throughout the book
Acquire evidence

using traffic acquisition software and know how to manage and handle the evidence
Perform packet analysis by capturing and collecting data, along with content analysis
Locate wireless devices, as well as capturing and analyzing wireless traffic data packets
Implement protocol analysis and content matching; acquire evidence from NIDS/NIPS
Act upon the data and evidence gathered by being able to connect the dots and draw links between various events
Apply logging and interfaces, along with analyzing web proxies and understanding encrypted web traffic
Use IOCs (Indicators of Compromise) and build real-world forensic solutions, dealing with malware
In Detail We live in a highly networked world. Every digital device—phone, tablet, or computer is connected to each other, in one way or another. In this new age of connected networks, there is network crime. Network forensics is the brave new frontier of digital investigation and information security professionals to extend their abilities to catch miscreants on the network. The book starts with an introduction to the world of network forensics and investigations. You will begin by getting an understanding of how to gather both physical and virtual evidence, intercepting and analyzing network data, wireless data packets, investigating intrusions, and so on. You will further explore the technology, tools, and investigating methods using malware forensics, network tunneling, and behaviors. By the end of the book, you will gain a complete understanding of how to successfully close a case. Style and approach An easy-to-follow book filled with real-world case studies and applications. Each topic is explained along with all the practical tools and software needed, allowing the reader to

use a completely hands-on approach.

Forensic Discovery Syngress

Memory forensics provides cutting edge technology to help investigate digital attacks. Memory forensics is the art of analyzing computer memory (RAM) to solve digital crimes. As a follow-up to the best seller *Malware Analyst's Cookbook*, experts in the fields of malware, security, and digital forensics bring you a step-by-step guide to memory forensics—now the most sought after skill in the digital forensics and incident response fields. Beginning with introductory concepts and moving toward the advanced, *The Art of Memory Forensics: Detecting Malware and Threats in Windows, Linux, and Mac* Memory is based on a five day training course that the authors have presented to hundreds of students. It is the only book on the market that focuses exclusively on memory forensics and how to deploy such techniques properly. Discover memory forensics techniques: How volatile memory analysis improves digital investigations Proper investigative steps for detecting stealth malware and advanced threats How to use free, open source tools for conducting thorough memory forensics Ways to acquire memory from suspect systems in a forensically sound manner The next era of malware and security breaches are more sophisticated and targeted, and the volatile memory of a computer is often overlooked or destroyed as part of the incident response process. *The Art of Memory Forensics* explains the latest technological innovations in digital forensics to help bridge this gap. It covers the most popular and recently released versions of Windows, Linux, and Mac, including both the 32 and 64-bit editions.

The Art of Memory Forensics John Wiley & Sons

Operating System Forensics is the first book to cover all three critical operating systems for digital forensic investigations in one comprehensive reference. Users will learn how to conduct successful digital forensic examinations in Windows, Linux, and Mac OS, the methodologies used, key technical concepts, and the tools needed to perform examinations. Mobile operating systems such as Android, iOS, Windows, and Blackberry are also covered, providing everything practitioners need to conduct a forensic investigation of the most commonly used operating systems, including technical details of how each operating system works and how to find artifacts. This book walks you through the critical components of investigation and operating system functionality, including file systems, data recovery, memory forensics, system configuration, Internet access, cloud computing, tracking artifacts, executable layouts, malware, and log files. You'll find coverage of key technical topics like Windows Registry, /etc directory, Web browsers caches, Mbox, PST files, GPS data, ELF, and more. Hands-on exercises in each chapter drive home the concepts covered in the book. You'll get everything you need for a successful forensics examination, including incident response tactics and legal requirements. *Operating System Forensics* is the only place you'll find all this covered in one book. Covers digital forensic investigations of the three major operating systems, including Windows, Linux, and Mac OS Presents the technical details of each operating system, allowing users to find artifacts that might be missed using automated tools Hands-

on exercises drive home key concepts covered in the book. Includes discussions of cloud, Internet, and major mobile operating systems such as Android and iOS

Advances in Digital Forensics III

Princeton University Press

An authoritative guide to investigating high-technology crimes. Internet crime is seemingly ever on the rise, making the need for a comprehensive resource on how to investigate these crimes even more dire. This professional-level book--aimed at law enforcement personnel, prosecutors, and corporate investigators--provides you with the training you need in order to acquire the sophisticated skills and software solutions to stay one step ahead of computer criminals. Specifies the techniques needed to investigate, analyze, and document a criminal act on a Windows computer or network. Places a

special emphasis on how to thoroughly investigate criminal activity and now just perform the initial response. Walks you through ways to present technically complicated material in simple terms that will hold up in court. Features content fully updated for Windows Server 2008 R2 and Windows 7. Covers the emerging field of Windows Mobile forensics. Also included is a classroom support package to ensure academic adoption, *Mastering Windows Network Forensics and Investigation, 2nd Edition* offers help for investigating high-technology crimes. [Intelligence-Driven Incident Response](#)
John Wiley & Sons

Though an increasing number of criminals are using computers and computer networks, few investigators are well versed in the issues related to digital evidence. This work explains how computer networks function and how they can be used in a crime.