Digital Forensics Elsevier

Malware Forensics Field Guide for Windows Systems
X-Ways Forensics Practitioner’s Guide
Investigating Computer-Related Crime
Digital Triage Forensics
Encyclopedia of Forensic Sciences
Computer Incident Response and Forensics Team Management
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Digital Evidence and Computer Crime
Strategic Leadership in Digital Evidence
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Alternate Data Storage Forensics
Preserving Electronic Evidence for Trial
Digital Evidence and Computer Crime
Introduction to Environmental Forensics
Digital Forensics Processing and Procedures
The Basics of Digital Forensics
Investigating Windows Systems
Contemporary Digital Forensic Investigations of Cloud and Mobile Applications
Learn Computer Forensics – 2nd edition
Implementing Digital Forensic Readiness
Strategic Leadership in Digital Evidence
Digital Forensics, Investigation, and Response
Digital Forensics Trial Graphics
Digital Forensics for Legal Professionals
Malware Forensics Field Guide for Linux Systems
Digital Forensics Explained
Cyber Forensics
Operating System Forensics
The Best Damn Cybercrime and Digital Forensics Book Period
Digital Forensics for Network, Internet, and Cloud Computing
Digital Forensics with Open Source Tools
Seeking the Truth from Mobile Evidence
Digital Forensics
Handbook of Digital Forensics and Investigation
Digital and Document Examination

BRIDGET EUGENE

Malware Forensics Field Guide for Windows Systems Academic Press
Digital Forensics with Open Source Tools is the definitive book on investigating and analyzing computer systems and media using open source tools. The book is a technical procedural guide, and explains the use of open source tools on Mac, Linux and Windows systems as a platform for performing computer forensics. Both well-known and novel forensic methods are demonstrated using command-line and graphical open source computer forensic tools for examining a wide range of target systems and artifacts. Written by world-renowned forensic practitioners, this book uses the most current examination and analysis techniques in the field. It consists of 9 chapters that cover a range of topics such as the open source examination platform; disk and file system analysis; Windows systems and artifacts; Linux systems and artifacts; Mac OS X systems and artifacts; Internet artifacts; and automating analysis and extending capabilities. The book lends itself to use by students and those entering the field who do not have means to purchase new tools for different investigations. This book will appeal to forensic practitioners from areas including incident response teams and computer forensic investigators; forensic technicians from legal, audit, and consulting firms; and law enforcement agencies. Written by world-renowned forensic practitioners Details core concepts and techniques of forensic file system analysis Covers analysis of artifacts from the Windows, Mac, and Linux operating systems
X-Ways Forensics Practitioner’s Guide Elsevier
This is the first digital forensics book that covers the complete lifecycle of digital evidence and the chain of custody. This comprehensive handbook includes international procedures, best practices, compliance, and a companion web site with downloadable forms. Written by world-renowned digital forensics experts, this book is a must for any digital forensics lab. It provides anyone who handles digital evidence with a guide to proper procedure throughout the chain of custody--from incident response through analysis in the lab. A step-by-step guide to designing, building and using a digital forensics lab A comprehensive guide for all roles in a digital forensics laboratory

Based on international standards and certifications

Investigating Computer-Related Crime Syngress

The ability to preserve electronic evidence is critical to presenting a solid case for civil litigation, as well as in criminal and regulatory investigations. Preserving Electronic Evidence for Trial provides everyone connected with digital forensics investigation and litigation with a clear and practical hands-on guide to the best practices in preserving electronic evidence. Corporate management personnel (legal & IT) and outside counsel need reliable processes for the litigation hold – identifying, locating, and preserving electronic evidence. Preserving Electronic Evidence for Trial provides the road map, showing you how to organize the digital evidence team before the crisis, not in the middle of litigation. This practice handbook by an internationally known digital forensics expert and an experienced litigator focuses on what corporate and litigation counsel as well as IT managers and forensic consultants need to know to communicate effectively about electronic evidence. You will find tips on how all your team members can get up to speed on each other's areas of specialization before a crisis arises. The result is a plan to effectively identify and pre-train the critical electronic-evidence team members. You will be ready to lead the team to success when a triggering event indicates that litigation is likely, by knowing what to ask in coordinating effectively with litigation counsel and forensic consultants throughout the litigation progress. Your team can also be ready for action in various business strategies, such as merger evaluation and non-litigation conflict resolution. Destroy your electronic evidence, destroy your own case—learn how to avoid falling off this cliff Learn how to organize the digital evidence team before the crisis, not in the middle of litigation Learn effective communication among forensics consultants, litigators and corporate counsel and management for pre-litigation process planning Learn the critical forensics steps your corporate client must take in preserving electronic evidence when they suspect litigation is coming, and why cheerful neglect is not an option

Digital Triage Forensics Elsevier

Strategic Leadership in Digital Evidence: What Executives Need to Know provides leaders with broad knowledge and understanding of practical concepts in digital evidence, along with its impact on investigations. The book's chapters cover the differentiation of related fields, new market technologies, operating systems, social networking, and much more. This guide is written at the layperson level, although the audience is expected to have reached a level of achievement and seniority in their profession, principally law enforcement, security and intelligence. Additionally, this book will appeal to legal professionals and others in the broader justice system. Covers a broad range of challenges confronting investigators in the digital environment Addresses gaps in currently available resources and the future focus of a fast-moving field Written by a manager who has been a leader in the field of digital forensics for decades

Encyclopedia of Forensic Sciences Jones & Bartlett Learning

To reduce the risk of digital forensic evidence being called into question in judicial proceedings, it is important to have a rigorous methodology and set of procedures for conducting digital forensic investigations and examinations. Digital forensic investigation in the cloud computing environment, however, is in infancy due to the comparatively recent prevalence of cloud computing. Cloud Storage Forensics presents the first evidence-based cloud forensic framework. Using three popular cloud storage services and one private cloud storage service as case studies, the authors show you how their framework can be used to undertake research into the data remnants on both cloud storage servers and client devices when a user undertakes a variety of methods to store, upload, and access data in the cloud. By determining the data remnants on client devices, you gain a better understanding of the types of terrestrial artifacts that are likely to remain at the Identification stage of an investigation. Once it is determined that a cloud storage service account has potential evidence of relevance to an investigation, you can communicate this to legal liaison points within service providers to enable them to respond and secure evidence in a timely manner. Learn to use the methodology and tools from the first evidenced-based cloud forensic framework Case studies provide detailed tools for analysis of cloud storage devices using popular cloud storage services Includes coverage of the legal implications of cloud storage forensic investigations Discussion of the future evolution of cloud storage and its impact on digital forensics

Computer Incident Response and Forensics Team Management Academic Press

Learn Computer Forensics from a veteran investigator and technical trainer and explore how to properly document digital evidence collected Key Features Investigate the core methods of computer forensics to procure and secure advanced digital evidence skillfully Record the digital evidence collected and organize a forensic examination on it Perform an assortment of Windows scientific examinations to analyze and overcome complex challenges Book DescriptionComputer Forensics, being a broad topic, involves a variety of skills which will involve seizing electronic evidence, acquiring data from electronic evidence, data analysis, and finally developing a forensic report. This book will help you to build up the skills you need to work in a highly technical environment. This book's ideal goal is to get you up and running with forensics tools and techniques to successfully investigate crime and corporate misconduct. You will discover ways to collect personal information about an individual from online sources. You will also learn how criminal investigations are performed online while preserving data such as e-mails, images, and videos that may be important to a case. You will further explore networking and understand Network Topologies, IP Addressing, and Network Devices. Finally, you will how to write a proper forensic report, the most exciting portion of the forensic exam process. By the end of this book, you will have developed a clear understanding of how to acquire, analyze, and present digital evidence, like a proficient computer forensics investigator.What you will learn Explore the investigative process, rules of evidence, legal process, and ethical guidelines Understand the difference between sectors, clusters, volumes, and file slack Validate forensic equipment, computer program, and examination methods Create and validate forensically sterile media Gain the ability to draw conclusions based on the exam discoveries Record discoveries utilizing the technically correct terminology Discover the limitations and guidelines for RAM Capture and its tools Explore timeline analysis, media analysis, string searches, and recovery of deleted data Who this book is forThis book is for IT beginners, students, or an investigator in the public or private sector. This book will also help IT professionals who are new to incident response and digital forensics and are looking at choosing cybersecurity as their career. Individuals planning to pass the Certified Forensic Computer Examiner (CFCE) certification will also find this book useful.

Cloud Storage Forensics Syngress

Windows Forensic Analysis DVD Toolkit, 2nd Edition, is a completely updated and expanded version of Harlan Carvey's best-selling forensics book on incident response and investigating cybercrime on Windows systems. With this book, you will learn how to analyze data during live and post-mortem investigations. New to this edition is Forensic Analysis on a Budget, which collects freely available tools that are essential for small labs,

state (or below) law enforcement, and educational organizations. The book also includes new pedagogical elements, Lessons from the Field, Case Studies, and War Stories that present real-life experiences by an expert in the trenches, making the material real and showing the why behind the how. The companion DVD contains significant, and unique, materials (movies, spreadsheet, code, etc.) not available anyplace else because they were created by the author. This book will appeal to digital forensic investigators, IT security professionals, engineers, and system administrators as well as students and consultants. Best-Selling Windows Digital Forensic book completely updated in this 2nd Edition Learn how to Analyze Data During Live and Post-Mortem Investigations DVD Includes Custom Tools, Updated Code, Movies, and Spreadsheets!

Windows Forensic Analysis DVD Toolkit Syngress

Unlike other books, courses and training that expect an analyst to piece together individual instructions into a cohesive investigation, Investigating Windows Systems provides a walk-through of the analysis process, with descriptions of the thought process and analysis decisions along the way. Investigating Windows Systems will not address topics which have been covered in other books, but will expect the reader to have some ability to discover the detailed usage of tools and to perform their own research. The focus of this volume is to provide a walk-through of the analysis process, with descriptions of the thought process and the analysis decisions made along the way. A must-have guide for those in the field of digital forensic analysis and incident response. Provides the reader with a detailed walk-through of the analysis process, with decision points along the way, assisting the user in understanding the resulting data Coverage will include malware detection, user activity, and how to set up a testing environment Written at a beginner to intermediate level for anyone engaging in the field of digital forensic analysis and incident response

Implementing Digital Forensic Readiness Syngress

"Android Forensics" covers an open source mobile device platform based on the Linux 2.6 kernel and managed by the Open Handset Alliance. This book provides a thorough review of the Android platform including supported hardware devices, the structure of the Android development project, and implementation of core services (wireless communication, data storage, and other low-level functions).

Placing the Suspect Behind the Keyboard Newnes

The Basics of Digital Forensics provides a foundation for people new to the digital forensics field. This book teaches you how to conduct examinations by discussing what digital forensics is, the methodologies used, key tactical concepts, and the tools needed to perform examinations. Details on digital forensics for computers, networks, cell phones, GPS, the cloud and the Internet are discussed. Also, learn how to collect evidence, document the scene, and how deleted data can be recovered. The new Second Edition of this book provides you with completely up-to-date real-world examples and all the key technologies used in digital forensics, as well as new coverage of network intrusion response, how hard drives are organized, and electronic discovery. You'll also learn how to incorporate quality assurance into an investigation, how to prioritize evidence items to examine (triage), case processing, and what goes into making an expert witness. The Second Edition also features expanded resources and references, including online resources that keep you current, sample legal documents, and suggested further reading. Learn what Digital Forensics entails Build a toolkit and prepare an investigative plan Understand the common artifacts to look for in an exam Second Edition features all-new coverage of hard drives, triage, network intrusion response, and electronic discovery; as well as updated case studies, expert interviews, and expanded resources and references

Android Forensics Elsevier

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 browers 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

Windows Registry Forensics CRC Press

Implementing Digital Forensic Readiness: From Reactive to Proactive Process, Second Edition presents the optimal way for digital forensic and IT security professionals to implement a proactive approach to digital forensics. The book details how digital forensic processes can align strategically with business operations and an already existing information and data security program. Detailing proper collection, preservation, storage, and presentation of digital evidence, the procedures outlined illustrate how digital evidence can be an essential tool in mitigating risk and redusing the impact of both internal and external, digital incidents, disputes, and crimes. By utilizing a digital forensic readiness approach and stances, a company’s preparedness and ability to take action quickly and respond as needed. In addition, this approach enhances the ability to gather evidence, as well as the relevance, reliability, and credibility of any such evidence. New chapters to this edition include Chapter 4 on Code of Ethics and Standards, Chapter 5 on Digital Forensics as a Business, and Chapter 10 on Establishing Legal Admissibility. This book offers best practices to professionals on enhancing their digital forensic program, or how to start and develop one the right way for effective forensic readiness in any corporate or enterprise setting.

Digital Evidence and Computer Crime Academic Press

Strategic Leadership in Digital Evidence: What Executives Need to Know provides leaders with broad knowledge and understanding of practical concepts in digital evidence, along with its impact on investigations. The book's chapters cover the differentiation of related fields, new market technologies, operating systems, social networking, and much more. This guide is written at the layperson level, although the audience is expected to have reached a level of achievement and seniority in their profession, principally law enforcement, security and

intelligence. Additionally, this book will appeal to legal professionals and others in the broader justice system. Covers a broad range of challenges confronting investigators in the digital environment Addresses gaps in currently available resources and the future focus of a fast-moving field Written by a manager who has been a leader in the field of digital forensics for decades

Strategic Leadership in Digital Evidence Newnes

Learn to pull “digital fingerprints from alternate data storage (ADS) devices including: iPod, Xbox, digital cameras and more from the cyber sleuths who train the Secret Service, FBI, and Department of Defense in bleeding edge digital forensics techniques. This book sets a new forensic methodology standard for investigators to use. This book begins by describing how alternate data storage devices are used to both move and hide data. From here a series of case studies using bleeding edge forensic analysis tools demonstrate to readers how to perform forensic investigations on a variety of ADS devices including: Apple iPods, Digital Video Recorders, Cameras, Gaming Consoles (Xbox, PS2, and PSP), Bluetooth devices, and more using state of the art tools. Finally, the book takes a look into the future at “not yet every day devices which will soon be common repositories for hiding and moving data for both legitimate and illegitimate purposes. Authors are undisputed leaders who train the Secret Service, FBI, and Department of Defense Book presents "one of a kind" bleeding edge information that absolutely can not be found anywhere else Today the industry has exploded and cyber investigators can be found in almost every field

Handbook of Computer Crime Investigation Elsevier

Computer Incident Response and Forensics Team Management provides security professionals with a complete handbook of computer incident response from the perspective of forensics team management. This unique approach teaches readers the concepts and principles they need to conduct a successful incident response investigation, ensuring that proven policies and procedures are established and followed by all team members. Leighton R. Johnson III describes the processes within an incident response event and shows the crucial importance of skillful forensics team management, including when and where the transition to forensics investigation should occur during an incident response event. The book also provides discussions of key incident response components. Provides readers with a complete handbook on computer incident response from the perspective of forensics team management Identify the key steps to completing a successful computer incident response investigation Defines the qualities necessary to become a successful forensics investigation team member, as well as the interpersonal relationship skills necessary for successful incident response and forensics investigation teams

Alternate Data Storage Forensics Elsevier

Following on the success of his introductory text, Digital Evidence and Computer Crime, Eoghan Casey brings together a few top experts to create the first detailed guide for professionals who are already familiar with digital evidence. The Handbook of Computer Crime Investigation helps readers master the forensic analysis of computer systems with a three-part approach covering tools, technology, and case studies. The Tools section provides the details on leading software programs, with each chapter written by that product's creator. The section ends with an objective comparison of the strengths and limitations of each tool. The main Technology section provides the technical "how to" information for collecting and analyzing digital evidence in common situations, starting with computers, moving on to networks, and culminating with embedded systems. The Case Examples section gives readers a sense of the technical, legal, and practical challenges that arise in real computer investigations. The Tools section provides details of leading hardware and software The main Technology section provides the technical "how to" information for collecting and analysing digital evidence in common situations Case Examples give readers a sense of the technical, legal, and practical challenges that arise in real computer investigations

Preserving Electronic Evidence for Trial Academic Press

This book covers the full life cycle of conducting a mobile and computer digital forensic examination, including planning and performing an investigation as well as report writing and testifying. Case reviews in corporate, civil, and criminal situations are also described from both prosecution and defense perspectives. Digital Forensics Explained, Second Edition draws from years of experience in local, state, federal, and international environments and highlights the challenges inherent in deficient cyber security practices. Topics include the importance of following the scientific method and verification, legal and ethical issues, planning an investigation (including tools and techniques), incident response, case project management and authorization, social media and internet, cloud, anti-forensics, link and visual analysis, and psychological considerations. The book is a valuable resource for the academic environment, law enforcement, those in the legal profession, and those working in the cyber security field. Case reviews include cyber security breaches, anti-forensic challenges, child exploitation, and social media investigations. Greg Gogolin, PhD, CISSP, is a Professor of Information Security and Intelligence at Ferris State University and a licensed Professional Investigator. He has worked more than 100 cases in criminal, civil, and corporate environments.

Digital Evidence and Computer Crime Academic 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

Introduction to Environmental Forensics Packt Publishing Ltd

The third edition of Introduction to Environmental Forensics is a state-of-the-art reference for the practicing environmental

forensics consultant, regulator, student, academic, and scientist, with topics including compound-specific isotope analysis (CSIA), advanced multivariate statistical techniques, surrogate approaches for contaminant source identification and age dating, dendroecology, hydrofracking, releases from underground storage tanks and piping, and contaminant-transport modeling for forensic applications. Recognized international forensic scientists were selected to author chapters in their specific areas of expertise and case studies are included to illustrate the application of these methods in actual environmental forensic investigations. This edition provides updates on advances in various techniques and introduces several new topics. Provides a comprehensive review of all aspects of environmental forensics Coverage ranges from emerging statistical methods to state-of-the-art analytical techniques, such as gas chromatography-combustion-isotope ratio mass spectrometry and polytopic vector analysis Numerous examples and case studies are provided to illustrate the application of these forensic techniques in environmental investigations

Digital Forensics Processing and Procedures Elsevier

Malware Forensics Field Guide for Linux Systems is a handy reference that shows students the essential tools needed to do computer forensics analysis at the crime scene. It is part of Syngress Digital Forensics Field Guides, a series of companions for any digital and computer forensic student, investigator or analyst. Each Guide is a toolkit, with checklists for specific tasks, case studies of difficult situations, and expert analyst tips that will aid in recovering data from digital media that will be used in criminal prosecution. This book collects data from all methods of electronic data storage and transfer devices, including computers, laptops, PDAs and the images, spreadsheets and other types of files stored on these devices. It is specific for Linux-based systems, where new malware is developed every day. The authors are world-renowned leaders in investigating and analyzing malicious code. Chapters cover malware incident response - volatile data collection and examination on a live Linux system; analysis of physical and process memory dumps for malware artifacts; post-mortem forensics - discovering and extracting malware and associated artifacts from Linux systems; legal considerations; file identification and profiling initial analysis of a suspect file on a Linux system; and analysis of a suspect program. This book will appeal to computer forensic investigators, analysts, and specialists. A compendium of on-the-job tasks and checklists Specific for Linux-based systems in which new malware is developed every day Authors are world-renowned leaders in investigating and analyzing malicious code

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