NirSoft

Nihad Ahmad Hassan,Rami Hijazi

Practical Digital Forensics Dr. Akashdeep Bhardwaj,Keshav Kaushik,2023-01-10 A Guide to Enter the Journey of a Digital Forensic Investigator KEY FEATURES ● Provides hands-on training in a forensics lab, allowing learners to conduct their investigations and analysis. ● Covers a wide range of forensics topics such as web, email, RAM, and mobile devices. ● Establishes a solid groundwork in digital forensics basics including evidence-gathering tools and methods. DESCRIPTION Forensics offers every IT and computer professional a wide opportunity of exciting and lucrative career. This book is a treasure trove of practical knowledge for anyone interested in forensics, including where to seek evidence and how to extract it from buried digital spaces. The book begins with the exploration of Digital Forensics with a brief overview of the field's most basic definitions, terms, and concepts about scientific investigations. The book lays down the groundwork for how digital forensics works and explains its primary objectives, including collecting, acquiring, and analyzing digital evidence. This book focuses on starting from the essentials of forensics and then practicing the primary tasks and activities that forensic analysts and investigators execute for every security incident. This book will provide you with the technical abilities necessary for Digital Forensics, from the ground up, in the form of stories, hints, notes, and links to further reading. Towards the end, you'll also have the opportunity to build up your lab, complete with

detailed instructions and a wide range of forensics tools, in which you may put your newly acquired knowledge to the test. WHAT YOU WILL LEARN ● Get familiar with the processes and procedures involved in establishing your own in-house digital forensics lab. ● Become confident in acquiring and analyzing data from RAM, HDD, and SSD. ● In-detail windows forensics and analyzing deleted files, USB, and IoT firmware. ● Get acquainted with email investigation, browser forensics, and different tools to collect the evidence. ● Develop proficiency with anti-forensic methods, including metadata manipulation, password cracking, and steganography. WHO THIS BOOK IS FOR Anyone working as a forensic analyst, forensic investigator, forensic specialist, network administrator, security engineer, cybersecurity analyst, or application engineer will benefit from reading this book. You only need a foundational knowledge of networking and hardware to get started with this book. TABLE OF CONTENTS 1. Introduction to Digital Forensics 2. Essential Technical Concepts 3. Hard Disks and File Systems 4. Requirements for a Computer Forensics Lab 5. Acquiring Digital Evidence 6. Analysis of Digital Evidence 7. Windows Forensic Analysis 8. Web Browser and E-mail Forensics 9. E-mail Forensics 10. Anti-Forensics Techniques and Report Writing 11. Hands-on Lab Practical

Data Hiding Techniques in Windows OS Nihad Ahmad Hassan,Rami Hijazi,2016-09-08 This unique book delves down into the capabilities of hiding and obscuring data object within the Windows Operating System. However, one of the most noticeable and

credible features of this publication is, it takes the reader from the very basics and background of data hiding techniques, and run's on the reading-road to arrive at some of the more complex methodologies employed for concealing data object from the human eye and/or the investigation. As a practitioner in the Digital Age, I can see this book siting on the shelves of Cyber Security Professionals, and those working in the world of Digital Forensics - it is a recommended read, and is in my opinion a very valuable asset to those who are interested in the landscape of unknown unknowns. This is a book which may well help to discover more about that which is not in immediate view of the onlooker, and open up the mind to expand its imagination beyond its accepted limitations of known knowns. - John Walker, CSIRT/SOC/Cyber Threat Intelligence Specialist Featured in Digital Forensics Magazine, February 2017 In the digital world, the need to protect online communications increase as the technology behind it evolves. There are many techniques currently available to encrypt and secure our communication channels. Data hiding techniques can take data confidentiality to a new level as we can hide our secret messages in ordinary, honest-looking data files. Steganography is the science of hiding data. It has several categorizations, and each type has its own techniques in hiding. Steganography has played a vital role in secret communication during wars since the dawn of history. In recent days, few computer users successfully manage to exploit their Windows® machine to conceal their private data. Businesses

also have deep concerns about misusing data hiding techniques. Many employers are amazed at how easily their valuable information can get out of their company walls. In many legal cases a disgruntled employee would successfully steal company private data despite all security measures implemented using simple digital hiding techniques. Human right activists who live in countries controlled by oppressive regimes need ways to smuggle their online communications without attracting surveillance monitoring systems, continuously scan in/out internet traffic for interesting keywords and other artifacts. The same applies to journalists and whistleblowers all over the world. Computer forensic investigators, law enforcements officers, intelligence services and IT security professionals need a guide to tell them where criminals can conceal their data in Windows® OS & multimedia files and how they can discover concealed data quickly and retrieve it in a forensic way. Data Hiding Techniques in Windows OS is a response to all these concerns. Data hiding topics are usually approached in most books using an academic method, with long math equations about how each hiding technique algorithm works behind the scene, and are usually targeted at people who work in the academic arenas. This book teaches professionals and end users alike how they can hide their data and discover the hidden ones using a variety of ways under the most commonly used operating system on earth, Windows®.

  Executing Windows Command Line Investigations Chet Hosmer,Joshua Bartolomie,Rosanne Pelli,2016-06-11 The book Executing Windows

Command Line Investigations targets the needs of cyber security practitioners who focus on digital forensics and incident response. These are the individuals who are ultimately responsible for executing critical tasks such as incident response; forensic analysis and triage; damage assessments; espionage or other criminal investigations; malware analysis; and responding to human resource violations. The authors lead readers through the importance of Windows CLI, as well as optimal configuration and usage. Readers will then learn the importance of maintaining evidentiary integrity, evidence volatility, and gain appropriate insight into methodologies that limit the potential of inadvertently destroying or otherwise altering evidence. Next, readers will be given an overview on how to use the proprietary software that accompanies the book as a download from the companion website. This software, called Proactive Incident Response Command Shell (PIRCS), developed by Harris Corporation provides an interface similar to that of a Windows CLI that automates evidentiary chain of custody and reduces human error and documentation gaps during incident response. Includes a free download of the Proactive Incident Response Command Shell (PIRCS) software Learn about the technical details of Windows CLI so you can directly manage every aspect of incident response evidence acquisition and triage, while maintaining evidentiary integrity

   Malware Forensics Cameron H. Malin,Eoghan Casey,James M. Aquilina,2008-08-08 Malware Forensics: Investigating and Analyzing Malicious

Code covers the complete process of responding to a malicious code incident. Written by authors who have investigated and prosecuted federal malware cases, this book deals with the emerging and evolving field of live forensics, where investigators examine a computer system to collect and preserve critical live data that may be lost if the system is shut down. Unlike other forensic texts that discuss live forensics on a particular operating system, or in a generic context, this book emphasizes a live forensics and evidence collection methodology on both Windows and Linux operating systems in the context of identifying and capturing malicious code and evidence of its effect on the compromised system. It is the first book detailing how to perform live forensic techniques on malicious code. The book gives deep coverage on the tools and techniques of conducting runtime behavioral malware analysis (such as file, registry, network and port monitoring) and static code analysis (such as file identification and profiling, strings discovery, armoring/packing detection, disassembling, debugging), and more. It explores over 150 different tools for malware incident response and analysis, including forensic tools for preserving and analyzing computer memory. Readers from all educational and technical backgrounds will benefit from the clear and concise explanations of the applicable legal case law and statutes covered in every chapter. In addition to the technical topics discussed, this book also offers critical legal considerations addressing the legal ramifications and requirements governing the subject matter. This

book is intended for system administrators, information security professionals, network personnel, forensic examiners, attorneys, and law enforcement working with the inner-workings of computer memory and malicious code. * Winner of Best Book Bejtlich read in 2008! * http://taosecurity.blogspot.com/2008/12/best-book-bejtlich-read-in-2008.html * Authors have investigated and prosecuted federal malware cases, which allows them to provide unparalleled insight to the reader. * First book to detail how to perform live forensic techniques on malicous code. * In addition to the technical topics discussed, this book also offers critical legal considerations addressing the legal ramifications and requirements governing the subject matter

  Cyber Fraud Rick Howard,2009-04-23 With millions lost each year, cyber crime has evolved from a minor nuisance to a major concern involving well-organized actors and highly sophisticated organizations. Combining the best of investigative journalism and technical analysis, Cyber Fraud: Tactics, Techniques, and Procedures documents changes in the culture of cyber criminals and explores the innovations that are the result of those changes. The book uses the term Botnet as a metaphor for the evolving changes represented by this underground economy. Copiously illustrated, this engaging and engrossing book explores the state of threats present in the cyber fraud underground. It discusses phishing and pharming, trojans and toolkits, direct threats, pump-and-dump scams, and other fraud-related activities of the booming cyber-underground economy. By

examining the geopolitical and socio-economic foundations of a cyber threat landscape, the book specifically examines telecommunications infrastructure development, patterns and trends of internet adoption and use, profiles of specific malicious actors, threat types, and trends in these areas. This eye-opening work includes a variety of case studies – including the cyber threat landscape in Russia and Brazil. An in-depth discussion is provided on the Russian Business Network's (RBN) role in global cyber crime as well as new evidence on how these criminals steal, package, buy, sell, and profit from the personal financial information of consumers. Armed with this invaluable information, organizations and individuals will be better able to secure their systems and develop countermeasures to disrupt underground fraud.

  Malware Forensics Field Guide for Windows Systems Cameron H. Malin,Eoghan Casey,James M. Aquilina,2012-05-11 Malware Forensics Field Guide for Windows 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 Windows-based systems, the largest running OS in the world. 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 Windows system; analysis of physical and process memory dumps for malware artifacts; post-mortem forensics - discovering and extracting malware and associated artifacts from Windows systems; legal considerations; file identification and profiling initial analysis of a suspect file on a Windows system; and analysis of a suspect program. This field guide is intended for computer forensic investigators, analysts, and specialists. A condensed hand-held guide complete with on-the-job tasks and checklists Specific for Windows-based systems, the largest running OS in the world Authors are world-renowned leaders in investigating and analyzing malicious code

  Advances in Digital Forensics X Gilbert Peterson,Sujeet Shenoi,2014-10-09 Digital forensics deals with the acquisition, preservation, examination, analysis and presentation of electronic evidence. Networked computing, wireless communications and portable electronic devices have expanded the role of digital forensics beyond traditional computer crime investigations. Practically every crime now involves some aspect of digital evidence; digital forensics provides the techniques and tools to articulate this evidence. Digital forensics also has myriad intelligence applications. Furthermore,

it has a vital role in information assurance -- investigations of security breaches yield valuable information that can be used to design more secure systems. Advances in Digital Forensics X describes original research results and innovative applications in the discipline of digital forensics. In addition, it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations. The areas of coverage include: - Internet Crime Investigations; - Forensic Techniques; - Mobile Device Forensics; - Forensic Tools and Training. This book is the 10th volume in the annual series produced by the International Federation for Information Processing (IFIP) Working Group 11.9 on Digital Forensics, an international community of scientists, engineers and practitioners dedicated to advancing the state of the art of research and practice in digital forensics. The book contains a selection of twenty-two edited papers from the 10th Annual IFIP WG 11.9 International Conference on Digital Forensics, held in Vienna, Austria in the winter of 2014. Advances in Digital Forensics X is an important resource for researchers, faculty members and graduate students, as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities.

Seven Deadliest USB Attacks Brian Anderson,Barbara Anderson,2010-06-03 Seven Deadliest USB Attacks provides a comprehensive view of the most serious types of Universal Serial Bus (USB) attacks. While the book focuses on

Windows systems, Mac, Linux, and UNIX systems are equally susceptible to similar attacks. If you need to keep up with the latest hacks, attacks, and exploits effecting USB technology, then this book is for you. This book pinpoints the most dangerous hacks and exploits specific to USB, laying out the anatomy of these attacks including how to make your system more secure. You will discover the best ways to defend against these vicious hacks with step-by-step instruction and learn techniques to make your computer and network impenetrable. The attacks outlined in this book are intended for individuals with moderate Microsoft Windows proficiency. The book provides the tools, tricks, and detailed instructions necessary to reconstruct and mitigate these activities while peering into the risks and future aspects surrounding the respective technologies. There are seven chapters that cover the following: USB Hacksaw; the USB Switchblade; viruses and malicious codes; USB-based heap overflow; the evolution of forensics in computer security; pod slurping; and the human element of security, including the risks, rewards, and controversy surrounding social-engineering engagements. This book was written to target a vast audience including students, technical staff, business leaders, or anyone seeking to understand fully the removable-media risk for Windows systems. It will be a valuable resource for information security professionals of all levels, as well as web application developers and recreational hackers. Knowledge is power, find out about the most dominant attacks currently waging war on computers

and networks globally Discover the best ways to
defend against these vicious attacks; step-by-step
instruction shows you how Institute
countermeasures, don't be caught defenseless
again, and learn techniques to make your computer
and network impenetrable

Computer-Forensik Alexander
Geschonneck,2014-03-25 Unternehmen und Behörden
schützen ihre IT-Systeme mit umfangreichen
Sicherheitsmaßnahmen. Trotzdem werden diese
Systeme immer wieder für kriminelle Zwecke
missbraucht bzw. von böswilligen Hackern
angegriffen. Nach solchen Vorfällen will man
erfahren, wie es dazu kam, wie folgenreich der
Einbruch ist, wer der Übeltäter war und wie man
ihn zur Verantwortung ziehen kann. Dafür bedient
man sich der Computer-Forensik. Ähnlich der
klassischen Strafverfolgung stehen auch für den
Computer-Forensiker folgende Informationen im
Vordergrund: Wer, Was, Wo, Wann, Womit, Wie und
Weshalb. Dieses Buch gibt einen Überblick darüber,
wie man bei der computerforensischen Arbeit
vorgeht - sowohl im Fall der Fälle als auch bei
den Vorbereitungen auf mögliche Angriffe bzw.
Computerstraftaten. Ausführlich und anhand
zahlreicher Beispiele wird gezeigt, welche
Werkzeuge und Methoden zur Verfügung stehen und
wie man sie effizient einsetzt. Der Leser lernt
dadurch praxisnah, • wo man nach Beweisspuren
suchen sollte, • wie man sie erkennen kann, • wie
sie zu bewerten sind, • wie sie gerichtsverwendbar
gesichert werden. Ein eigenes Kapitel befasst sich
mit der Rolle des privaten Ermittlers, beschreibt
die Zusammenarbeit mit den Ermittlungsbehörden und

erläutert die Möglichkeiten der zivil- und strafrechtlichen Verfolgung in Deutschland. In der 6. Auflage wurden Statistiken und Toolbeschreibungen aktualisiert sowie neueste rechtliche Entwicklungen aufgenommen. Hinzugekommen sind neue Ansätze der strukturierten Untersuchung von Hauptspeicherinhalten und die Analyse von Malware.

  Messenger & Mail Hacking + CD ,

  WHOIS Running the Internet Garth O. Bruen,2015-11-02 Discusses the evolution of WHOIS and how policy changes will affect WHOIS' place in IT today and in the future This book provides a comprehensive overview of WHOIS. The text begins with an introduction to WHOIS and an in-depth coverage of its forty-year history. Afterwards it examines how to use WHOIS and how WHOIS fits in the overall structure of the Domain Name System (DNS). Other technical topics covered include WHOIS query code and WHOIS server details. The book also discusses current policy developments and implementations, reviews critical policy documents, and explains how they will affect the future of the Internet and WHOIS. Additional resources and content updates will be provided through a supplementary website. Includes an appendix with information on current and authoritative WHOIS services around the world Provides illustrations of actual WHOIS records and screenshots of web-based WHOIS query interfaces with instructions for navigating them Explains network dependencies and processes related to WHOIS utilizing flowcharts Contains advanced coding for programmers Visit the book's companion

website http://whois.knujon.com for technical and policy documents concerning WHOIS, WHOIS code examples, internet locations for WHOIS databases and more. WHOIS Running the Internet: Protocol, Policy, and Privacy is written primarily for internet developers, policy developers, industry professionals in law enforcement, digital forensic investigators, and intellectual property attorneys. Garth O. Bruen is an Internet policy and security researcher whose work has been published in the Wall Street Journal and the Washington Post. Since 2012 Garth Bruen has served as the North American At-Large Chair to the Internet Corporation of Assigned Names and Numbers (ICANN). In 2003 Bruen created KnujOn.com with his late father, Dr. Robert Bruen, to process and investigate Internet abuse complaints (SPAM) from consumers. Bruen has trained and advised law enforcement at the federal and local levels on malicious use of the Domain Name System in the way it relates to the WHOIS record system. He has presented multiple times to the High Technology Crime Investigation Association (HTCIA) as well as other cybercrime venues including the Anti-Phishing Working Group (APWG) and the National Center for Justice and the Rule of Law at The University of Mississippi School of Law. Bruen also teaches the Fisher College Criminal Justice School in Boston where he develops new approaches to digital crime.

Cyber Forensics Up and Running Tarun Vashishth,2023-12-12 Empowering you to investigate, analyze, and secure the digital realm KEY FEATURES ● Comprehensive coverage of all

digital forensics concepts. ● Real-world case studies and examples to illustrate techniques. ● Step-by-step instructions for setting up and using essential forensic tools. ● In-depth exploration of volatile and non-volatile data analysis. DESCRIPTION Digital forensics is the art and science of extracting the hidden truth and this book is your hands-on companion, bringing the world of digital forensics to life. Starting with the core principles of digital forensics, the book explores the significance of various case types, the interconnectedness of the field with cybersecurity, and the ever-expanding digital world's challenges. As you progress, you will explore data acquisition, image formats, digital evidence preservation, file carving, metadata extraction, and the practical use of essential forensic tools like HxD, The Sleuth Kit, Autopsy, Volatility, and PowerForensics. The book offers step-by-step instructions, real-world case studies, and practical examples, ensuring that beginners can confidently set up and use forensic tools. Experienced professionals, on the other hand, will find advanced insights into memory analysis, network forensics, anti-forensic techniques, and more. This book empowers you to become a digital detective, capable of uncovering data secrets, investigating networks, exploring volatile and non-volatile evidence, and understanding the intricacies of modern browsers and emails. WHAT YOU WILL LEARN ● Learn how to set up and use digital forensic tools, including virtual environments. ● Learn about live forensics, incident response, and timeline

examination. ● In-depth exploration of Windows Registry and USBs. ● Network forensics, PCAPs, and malware scenarios. ● Memory forensics, malware detection, and file carving. ● Advance tools like PowerForensics and Autopsy. WHO THIS BOOK IS FOR Whether you are a tech-savvy detective, a curious student, or a seasoned cybersecurity pro seeking to amplify your skillset. Network admins, law enforcement officers, incident responders, aspiring analysts, and even legal professionals will find invaluable tools and techniques within these pages. TABLE OF CONTENTS 1. Introduction to Essential Concepts of Digital Forensics 2. Digital Forensics Lab Setup 3. Data Collection: Volatile and Non-Volatile 4. Forensics Analysis: Live Response 5. File System and Log Analysis 6. Windows Registry and Artifacts 7. Network Data Collection and Analysis 8. Memory Forensics: Techniques and Tools 9. Browser and Email Forensics 10. Advanced Forensics Tools, Commands and Methods 11. Anti-Digital Forensics Techniques and Methods

  Defense against the Black Arts Jesse Varsalone,Matthew McFadden,2011-09-07 Exposing hacker methodology with concrete examples, this volume shows readers how to outwit computer predators. With screenshots and step by step instructions, the book discusses how to get into a Windows operating system without a username or password and how to hide an IP address to avoid detection. It explains how to find virtually anything on the Internet and explores techniques that hackers can use to exploit physical access, network access, and wireless vectors. The book

profiles a variety of attack tools and examines
how Facebook and other sites can be used to
conduct social networking attacks.

   Digital Privacy and Security Using Windows Nihad
Hassan,Rami Hijazi,2017-07-02 Use this hands-on
guide to understand the ever growing and complex
world of digital security. Learn how to protect
yourself from digital crime, secure your
communications, and become anonymous online using
sophisticated yet practical tools and techniques.
This book teaches you how to secure your online
identity and personal devices, encrypt your
digital data and online communications, protect
cloud data and Internet of Things (IoT), mitigate
social engineering attacks, keep your purchases
secret, and conceal your digital footprint. You
will understand best practices to harden your
operating system and delete digital traces using
the most widely used operating system, Windows.
Digital Privacy and Security Using Windows offers
a comprehensive list of practical digital privacy
tutorials in addition to being a complete
repository of free online resources and tools
assembled in one place. The book helps you build a
robust defense from electronic crime and corporate
surveillance. It covers general principles of
digital privacy and how to configure and use
various security applications to maintain your
privacy, such as TOR, VPN, and BitLocker. You will
learn to encrypt email communications using
Gpg4win and Thunderbird. What You'll Learn Know
the various parties interested in having your
private data Differentiate between government and
corporate surveillance, and the motivations behind

each one Understand how online tracking works technically Protect digital data, secure online communications, and become anonymous online Cover and destroy your digital traces using Windows OS Secure your data in transit and at rest Be aware of cyber security risks and countermeasures Who This Book Is For End users, information security professionals, management, infosec students

  Digital Forensics and Cyber Crime Frank Breitinger,Ibrahim Baggili,2018-12-29 This book constitutes the refereed proceedings of the 10th International Conference on Digital Forensics and Cyber Crime, ICDF2C 2018, held in New Orleans, LA, USA, in September 2018. The 11 reviewed full papers and 1 short paper were selected from 33 submissions and are grouped in topical sections on carving and data hiding, android, forensic readiness, hard drives and digital forensics, artefact correlation.

  PCStation CG,2020-08-10

  Sécurité informatique - Ethical Hacking ACISSI.,2009

  Seguridad informática - Hacking Ético Raphaël RAULT,Laurent SCHALKWIJK,ACISSI,Marion AGÉ,Nicolas CROCFER,Robert CROCFER,David DUMAS,Franck EBEL,Guillaume FORTUNATO,Jérôme HENNECART,Sébastien LASSON,2015-09-01 Este libro sobre seguridad informática (y hacking etico) está dirigido a todo informático sensibilizado con el concepto de la seguridad informática aunque sea novato o principiante en el dominio de la seguridad de los sistemas de información. Tiene como objetivo iniciar al lector en las técnicas de

los atacantes para, así, aprender a defenderse. Esta nueva edición tiene en cuenta las novedades en el campo de la seguridad informática e incluye tres nuevos capítulos que abarcan: la investigación forense, basada principalmente en la investigación de la evidencia digital, ataques más orientados al hardware (como tarjetas con chip y otros) y los routers, omnipresentes en nuestros hogares, poniendo de relieve que no son infalibles y la necesidad de saber configurarlos para evitar problemas. Después de una definición precisa de los diferentes tipos de hackers y de sus objetivos, los autores presentan la metodología de un ataque y los medios para reparar los fallos de seguridad empleados para introducirse en un sistema. El capítulo sobre Ingeniería social, o manipulación social, completamente revisado en esta edición, ilustra que más de un 60% de los ataques con éxito se debe a errores humanos. La captura de huellas digitales, imprescindible antes de lanzar un ataque, se desarrolla ampliamente. Llegamos al corazón de la materia con los fallos físicos, que permiten un acceso directo a ordenadores, y los fallos de red y Wi-Fi se presentan e ilustran cada uno con propuestas de contramedidas. También se presenta la seguridad en la web y los fallos actuales identificados gracias a la ayuda de herramientas que el lector puede implantar fácilmente en sus propios sistemas. El objetivo es identificar siempre los posibles fallos para establecer después la estrategia de protección adecuada. Siguen, los fallos de sistemasen Windows o Linux con la llegada de nuevas versiones de estos sistemas. Los fallos de

aplicación, que introduce algunos elementos para familiarizarse con el lenguaje ensamblador y comprender mejor las posibilidades de ataque. Los tres nuevos capítulos llegan finalmente con el Análisis Forense, los Routers, y los fallos Hardware. El Cloud Computing es abordado (su historia, funcionamiento) para controlar mejor la seguridad. Los autores de este libro forman un equipo de personas con la convicción de que la seguridad informática esté al alcance de todos: conocer el ataque para una mejor defensa es su lema. Hackers de alma blanca, abren al lector las puertas del conocimiento underground. Los capítulos del libro: Introducción y definiciones – Metodología de un ataque – Elementos de ingeniería social – Toma de huellas – Los fallos físicos – Los fallos de red – Cloud Computing: puntos fuertes y débiles – Los fallos Web – Los fallos de sistema operativo – Los fallos de aplicación – Análisis forense – La seguridad de los routers – Los fallos de hardware

Practical Memory Forensics Svetlana Ostrovskaya,Oleg Skulkin,2022-03-17 A practical guide to enhancing your digital investigations with cutting-edge memory forensics techniques Key FeaturesExplore memory forensics, one of the vital branches of digital investigationLearn the art of user activities reconstruction and malware detection using volatile memoryGet acquainted with a range of open-source tools and techniques for memory forensicsBook Description Memory Forensics is a powerful analysis technique that can be used in different areas, from incident response to malware analysis. With memory forensics, you can

not only gain key insights into the user's context but also look for unique traces of malware, in some cases, to piece together the puzzle of a sophisticated targeted attack. Starting with an introduction to memory forensics, this book will gradually take you through more modern concepts of hunting and investigating advanced malware using free tools and memory analysis frameworks. This book takes a practical approach and uses memory images from real incidents to help you gain a better understanding of the subject and develop the skills required to investigate and respond to malware-related incidents and complex targeted attacks. You'll cover Windows, Linux, and macOS internals and explore techniques and tools to detect, investigate, and hunt threats using memory forensics. Equipped with this knowledge, you'll be able to create and analyze memory dumps on your own, examine user activity, detect traces of fileless and memory-based malware, and reconstruct the actions taken by threat actors. By the end of this book, you'll be well-versed in memory forensics and have gained hands-on experience of using various tools associated with it. What you will learnUnderstand the fundamental concepts of memory organizationDiscover how to perform a forensic investigation of random access memoryCreate full memory dumps as well as dumps of individual processes in Windows, Linux, and macOSAnalyze hibernation files, swap files, and crash dumpsApply various methods to analyze user activitiesUse multiple approaches to search for traces of malicious activityReconstruct threat actor tactics and techniques using random access

memory analysisWho this book is for This book is for incident responders, digital forensic specialists, cybersecurity analysts, system administrators, malware analysts, students, and curious security professionals new to this field and interested in learning memory forensics. A basic understanding of malware and its working is expected. Although not mandatory, knowledge of operating systems internals will be helpful. For those new to this field, the book covers all the necessary concepts.

   Policing Digital Crime Robin Bryant,2016-04-22 By its very nature digital crime may present a number of specific detection and investigative challenges. The use of steganography to hide child abuse images for example, can pose the kind of technical and legislative problems inconceivable just two decades ago. The volatile nature of much digital evidence can also pose problems, particularly in terms of the actions of the 'first officer on the scene'. There are also concerns over the depth of understanding that 'generic' police investigators may have concerning the possible value (or even existence) of digitally based evidence. Furthermore, although it is perhaps a cliché to claim that digital crime (and cybercrime in particular) respects no national boundaries, it is certainly the case that a significant proportion of investigations are likely to involve multinational cooperation, with all the complexities that follow from this. This groundbreaking volume offers a theoretical perspective on the policing of digital crime in the western world. Using numerous case-study

examples to illustrate the theoretical material introduced this volume examine the organisational context for policing digital crime as well as crime prevention and detection. This work is a must-read for all academics, police practitioners and investigators working in the field of digital crime.

NirSoft Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **NirSoft**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

- Considering Fiction vs. Non-Fiction
- Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an NirSoft
    - User-Friendly Interface
4. Exploring eBook Recommendations from NirSoft
    - Personalized Recommendations
    - NirSoft User Reviews and Ratings
    - NirSoft and Bestseller Lists
5. Accessing NirSoft Free and Paid eBooks
    - NirSoft Public Domain eBooks
    - NirSoft eBook Subscription Services
        - NirSoft Budget-Friendly Options
6. Navigating NirSoft eBook Formats
    - ePub, PDF, MOBI, and More
    - NirSoft Compatibility with Devices
    - NirSoft Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of NirSoft
    - Highlighting and Note-Taking NirSoft
    - Interactive Elements NirSoft
8. Staying Engaged with NirSoft
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following

NirSoft Introduction

In the digital age,
access to information
has become easier than
ever before. The ability
to download NirSoft has
revolutionized the way
we consume written
content. Whether you are
a student looking for
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