



Introduction to Digital Forensics

MODULE 1

Computer Forensic First Responder Guide

Roberto Martinez



Computer Forensic First Responder Guide:

Handbook of Digital Forensics of Multimedia Data and Devices, Enhanced E-Book Anthony T. S. Ho, Shujun Li, 2016-05-20

Digital forensics and multimedia forensics are rapidly growing disciplines whereby electronic information is extracted and interpreted for use in a court of law. These two fields are finding increasing importance in law enforcement and the investigation of cybercrime as the ubiquity of personal computing and the internet becomes ever more apparent. Digital forensics involves investigating computer systems and digital artefacts in general while multimedia forensics is a sub topic of digital forensics focusing on evidence extracted from both normal computer systems and special multimedia devices such as digital cameras. This book focuses on the interface between digital forensics and multimedia forensics bringing two closely related fields of forensic expertise together to identify and understand the current state of the art in digital forensic investigation. Both fields are expertly attended to by contributions from researchers and forensic practitioners specializing in diverse topics such as forensic authentication, forensic triage, forensic photogrammetry, biometric forensics, multimedia device identification and image forgery detection among many others. Key features: Brings digital and multimedia forensics together with contributions from academia, law enforcement and the digital forensics industry for extensive coverage of all the major aspects of digital forensics of multimedia data and devices. Provides comprehensive and authoritative coverage of digital forensics of multimedia data and devices. Offers not only explanations of techniques but also real world and simulated case studies to illustrate how digital and multimedia forensics techniques work. Includes a companion website hosting continually updated supplementary materials ranging from extended and updated coverage of standards to best practice guides, test datasets and more case studies. **A Practical Guide to Computer Forensics Investigations** Darren R.

Hayes, 2014-12-17 Product Update: A Practical Guide to Digital Forensics Investigations ISBN 9780789759917 2nd Edition is now available. All you need to know to succeed in digital forensics: technical and investigative skills in one book. Complete practical and up to date. Thoroughly covers digital forensics for Windows, Mac, mobile hardware and networks. Addresses online and lab investigations, documentation, admissibility and more. By Dr Darren Hayes, founder of Pace University's Code Detectives forensics lab, one of America's Top 10 Computer Forensics Professors. Perfect for anyone pursuing a digital forensics career or working with examiners. Criminals go where the money is. Today trillions of dollars of assets are digital and digital crime is growing fast. In response, demand for digital forensics experts is soaring. To succeed in this exciting field you need strong technical and investigative skills. In this guide, one of the world's leading computer forensics experts teaches you all the skills you'll need. Writing for students and professionals at all levels, Dr Darren Hayes presents complete best practices for capturing and analyzing evidence, protecting the chain of custody, documenting investigations and scrupulously adhering to the law so your evidence can always be used. Hayes introduces today's latest technologies and technical challenges, offering detailed coverage of crucial topics such as mobile forensics, Mac forensics, cyberbullying and child

endangerment This guide's practical activities and case studies give you hands on mastery of modern digital forensics tools and techniques Its many realistic examples reflect the author's extensive and pioneering work as a forensics examiner in both criminal and civil investigations Understand what computer forensics examiners do and the types of digital evidence they work with Explore Windows and Mac computers understand how their features affect evidence gathering and use free tools to investigate their contents Extract data from diverse storage devices Establish a certified forensics lab and implement good practices for managing and processing evidence Gather data and perform investigations online Capture Internet communications video images and other content Write comprehensive reports that withstand defense objections and enable successful prosecution Follow strict search and surveillance rules to make your evidence admissible Investigate network breaches including dangerous Advanced Persistent Threats APTs Retrieve immense amounts of evidence from smartphones even without seizing them Successfully investigate financial fraud performed with digital devices Use digital photographic evidence including metadata and social media images

Digital Forensics Processing and Procedures David Lilburn Watson, Andrew Jones, 2013-08-30 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

First Responders Guide to Computer Forensics Richard Nolan, Colin O'Sullivan, Jake Branson, Cal Waits, Carnegie-Mellon University. Software Engineering Institute, United States Army Reserve. Information Operations Command, 2005

Malware Forensics Field Guide for Windows Systems Cameron H. Malin, Eoghan Casey, James M. Aquilina, 2012-06-13 Addresses the legal concerns often encountered on site

A Practical Guide to Digital Forensics Investigations Darren R. Hayes, 2020-10-16 THE DEFINITIVE GUIDE TO DIGITAL FORENSICS NOW THOROUGHLY UPDATED WITH NEW TECHNIQUES TOOLS AND SOLUTIONS Complete practical coverage of both technical and investigative skills Thoroughly covers modern devices networks and the Internet Addresses online and lab investigations documentation admissibility and more Aligns closely with the NSA Knowledge Units and the NICE Cybersecurity Workforce Framework As digital crime soars so does the need for experts who can recover and evaluate evidence for successful prosecution Now Dr Darren Hayes has thoroughly updated his definitive guide to digital forensics investigations reflecting current best practices for securely seizing extracting and analyzing digital evidence protecting the integrity of the chain of custody effectively documenting investigations and scrupulously adhering to the law so that your evidence is admissible in court Every chapter of this new Second Edition is revised to reflect newer technologies the latest challenges technical

solutions and recent court decisions Hayes has added detailed coverage of wearable technologies IoT forensics 5G communications vehicle forensics and mobile app examinations advances in incident response and new iPhone and Android device examination techniques Through practical activities realistic examples and fascinating case studies you ll build hands on mastery and prepare to succeed in one of today s fastest growing fields LEARN HOW TO Understand what digital forensics examiners do the evidence they work with and the opportunities available to them Explore how modern device features affect evidence gathering and use diverse tools to investigate them Establish a certified forensics lab and implement best practices for managing and processing evidence Gather data online to investigate today s complex crimes Uncover indicators of compromise and master best practices for incident response Investigate financial fraud with digital evidence Use digital photographic evidence including metadata and social media images Investigate wearable technologies and other Internet of Things devices Learn new ways to extract a full fi le system image from many iPhones Capture extensive data and real time intelligence from popular apps Follow strict rules to make evidence admissible even after recent Supreme Court decisions

Incident Response with Threat Intelligence Roberto Martinez, 2022-06-24 Learn everything you need to know to respond to advanced cybersecurity incidents through threat hunting using threat intelligence Key Features Understand best practices for detecting containing and recovering from modern cyber threats Get practical experience embracing incident response using intelligence based threat hunting techniques Implement and orchestrate different incident response monitoring intelligence and investigation platforms Book Description With constantly evolving cyber threats developing a cybersecurity incident response capability to identify and contain threats is indispensable for any organization regardless of its size This book covers theoretical concepts and a variety of real life scenarios that will help you to apply these concepts within your organization Starting with the basics of incident response the book introduces you to professional practices and advanced concepts for integrating threat hunting and threat intelligence procedures in the identification contention and eradication stages of the incident response cycle As you progress through the chapters you ll cover the different aspects of developing an incident response program You ll learn the implementation and use of platforms such as TheHive and ELK and tools for evidence collection such as Velociraptor and KAPE before getting to grips with the integration of frameworks such as Cyber Kill Chain and MITRE ATT CK for analysis and investigation You ll also explore methodologies and tools for cyber threat hunting with Sigma and YARA rules By the end of this book you ll have learned everything you need to respond to cybersecurity incidents using threat intelligence What you will learn Explore the fundamentals of incident response and incident management Find out how to develop incident response capabilities Understand the development of incident response plans and playbooks Align incident response procedures with business continuity Identify incident response requirements and orchestrate people processes and technologies Discover methodologies and tools to integrate cyber threat intelligence and threat hunting into incident response Who this book is for If you are an information security professional or

anyone who wants to learn the principles of incident management first response threat hunting and threat intelligence using a variety of platforms and tools this book is for you Although not necessary basic knowledge of Linux Windows internals and network protocols will be helpful *Computer Forensics* Marie-Helen Maras,2014-02-17 Updated to include the most current events and information on cyberterrorism the second edition of *Computer Forensics Cybercriminals Laws and Evidence* continues to balance technicality and legal analysis as it enters into the world of cybercrime by exploring what it is how it is investigated and the regulatory laws around the collection and use of electronic evidence Students are introduced to the technology involved in computer forensic investigations and the technical and legal difficulties involved in searching extracting maintaining and storing electronic evidence while simultaneously looking at the legal implications of such investigations and the rules of legal procedure relevant to electronic evidence Significant and current computer forensic developments are examined as well as the implications for a variety of fields including computer science security criminology law public policy and administration **A Blueprint for Implementing Best Practice Procedures in a Digital Forensic Laboratory** David Lilburn Watson,Andrew Jones,2023-11-09 Digital Forensic Processing and Procedures Meeting the Requirements of ISO 17020 ISO 17025 ISO 27001 and Best Practice Requirements Second Edition provides a one stop shop for a set of procedures that meet international best practices and standards for handling digital evidence during its complete lifecycle The book includes procedures forms and software providing anyone who handles digital evidence with a guide to proper procedures throughout chain of custody from incident response straight through to analysis in the lab This book addresses the whole lifecycle of digital evidence Provides a step by step guide on designing building and using a digital forensic lab Addresses all recent developments in the field Includes international standards and best practices

Handbook of Public Information Systems Judith Graham,Alison Kelly,2010-03-10 Delivering IT projects on time and within budget while maintaining privacy security and accountability remains one of the major public challenges of our time In the four short years since the publication of the second edition of the *Handbook of Public Information Systems* the field of public information systems has continued to evolve This ev **Digital or Computer Forensics** Mr. Rohit Manglik,2024-03-24 Covers digital forensics focusing on evidence recovery analysis and investigative techniques for cybercrime and digital incidents **Computer Forensics** Robert C. Newman,2007-03-09 *Computer Forensics Evidence Collection and Management* examines cyber crime E commerce and Internet activities that could be used to exploit the Internet computers and electronic devices The book focuses on the numerous vulnerabilities and threats that are inherent on the Internet and networking environments and presents techniques and suggestions for corporate security personnel investigators and forensic examiners to successfully identify retrieve and protect valuable forensic evidence for litigation and prosecution The book is divided into two major parts for easy reference The first part explores various crimes laws policies forensic tools and the information needed to understand the underlying concepts of computer forensic investigations The

second part presents information relating to crime scene investigations and management disk and file structure laboratory construction and functions and legal testimony Separate chapters focus on investigations involving computer systems e mail and wireless devices Presenting information patterned after technical legal and managerial classes held by computer forensic professionals from Cyber Crime Summits held at Kennesaw State University in 2005 and 2006 this book is an invaluable resource for those who want to be both efficient and effective when conducting an investigation

Handbook of Electronic Security and Digital Forensics Hamid Jahankhani, 2010 The widespread use of information and communications technology ICT has created a global platform for the exchange of ideas goods and services the benefits of which are enormous However it has also created boundless opportunities for fraud and deception Cybercrime is one of the biggest growth industries around the globe whether it is in the form of violation of company policies fraud hate crime extremism or terrorism It is therefore paramount that the security industry raises its game to combat these threats Today's top priority is to use computer technology to fight computer crime as our commonwealth is protected by firewalls rather than firepower This is an issue of global importance as new technologies have provided a world of opportunity for criminals This book is a compilation of the collaboration between the researchers and practitioners in the security field and provides a comprehensive literature on current and future e security needs across applications implementation testing or investigative techniques judicial processes and criminal intelligence The intended audience includes members in academia the public and private sectors students and those who are interested in and will benefit from this handbook

A Handbook on Cyber Law: Understanding Legal Aspects of the Digital World Dr. Amarjyoti Sarma, 2023 In this concise edition of Cyber Law Understanding Legal Aspects of the Digital World I navigate you through the complexities of Cyber Law in the digital era The book embarks on a historical journey from the internet's inception to today's advanced technologies like AI and blockchain focusing on foundational legal principles It discusses international conventions national laws and regulatory roles vital for anyone in the global digital landscape The book tackles critical issues such as digital privacy data protection and intellectual property rights making sense of challenges and solutions for individuals and corporations It dives into the legal intricacies of cybercrime and cybersecurity offering essential insights for those in charge of digital asset protection I also delve into e commerce laws electronic contracts and consumer protection as well as scrutinize legal dimensions of social media freedom of expression and online harassment

Digital Forensics Basics Nihad A. Hassan, 2019-02-25 Use this hands on introductory guide to understand and implement digital forensics to investigate computer crime using Windows the most widely used operating system This book provides you with the necessary skills to identify an intruder's footprints and to gather the necessary digital evidence in a forensically sound manner to prosecute in a court of law Directed toward users with no experience in the digital forensics field this book provides guidelines and best practices when conducting investigations as well as teaching you how to use a variety of tools to investigate computer crime You will be prepared to handle problems

such as law violations industrial espionage and use of company resources for private use Digital Forensics Basics is written as a series of tutorials with each task demonstrating how to use a specific computer forensics tool or technique Practical information is provided and users can read a task and then implement it directly on their devices Some theoretical information is presented to define terms used in each technique and for users with varying IT skills What You ll Learn Assemble computer forensics lab requirements including workstations tools and more Document the digital crime scene including preparing a sample chain of custody form Differentiate between law enforcement agency and corporate investigations Gather intelligence using OSINT sources Acquire and analyze digital evidence Conduct in depth forensic analysis of Windows operating systems covering Windows 10 specific feature forensics Utilize anti forensic techniques including steganography data destruction techniques encryption and anonymity techniques Who This Book Is For Police and other law enforcement personnel judges with no technical background corporate and nonprofit management IT specialists and computer security professionals incident response team members IT military and intelligence services officers system administrators e business security professionals and banking and insurance professionals **Computer Forensics** Mr. Rohit Manglik,2024-06-11 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Practical Forensic Imaging Bruce Nikkel,2016-09-01 Forensic image acquisition is an important part of postmortem incident response and evidence collection Digital forensic investigators acquire preserve and manage digital evidence to support civil and criminal cases examine organizational policy violations resolve disputes and analyze cyber attacks Practical Forensic Imaging takes a detailed look at how to secure and manage digital evidence using Linux based command line tools This essential guide walks you through the entire forensic acquisition process and covers a wide range of practical scenarios and situations related to the imaging of storage media You ll learn how to Perform forensic imaging of magnetic hard disks SSDs and flash drives optical discs magnetic tapes and legacy technologies Protect attached evidence media from accidental modification Manage large forensic image files storage capacity image format conversion compression splitting duplication secure transfer and storage and secure disposal Preserve and verify evidence integrity with cryptographic and piecewise hashing public key signatures and RFC 3161 timestamping Work with newer drive and interface technologies like NVMe SATA Express 4K native sector drives SSHDs SAS UASP USB3x and Thunderbolt Manage drive security such as ATA passwords encrypted thumb drives Opal self encrypting drives OS encrypted drives using BitLocker FileVault and TrueCrypt and others Acquire usable images from more complex or challenging situations such as RAID systems virtual machine images and damaged media With its unique focus on digital forensic acquisition and evidence preservation Practical Forensic Imaging is a valuable resource for experienced digital forensic investigators wanting to advance their Linux skills and

experienced Linux administrators wanting to learn digital forensics This is a must have reference for every digital forensics lab

Practical Linux Forensics Bruce Nikkel,2021-12-21 A resource to help forensic investigators locate analyze and understand digital evidence found on modern Linux systems after a crime security incident or cyber attack Practical Linux Forensics dives into the technical details of analyzing postmortem forensic images of Linux systems which have been misused abused or the target of malicious attacks It helps forensic investigators locate and analyze digital evidence found on Linux desktops servers and IoT devices Throughout the book you learn how to identify digital artifacts which may be of interest to an investigation draw logical conclusions and reconstruct past activity from incidents You ll learn how Linux works from a digital forensics and investigation perspective and how to interpret evidence from Linux environments The techniques shown are intended to be independent of the forensic analysis platforms and tools used Learn how to Extract evidence from storage devices and analyze partition tables volume managers popular Linux filesystems Ext4 Btrfs and Xfs and encryption Investigate evidence from Linux logs including traditional syslog the systemd journal kernel and audit logs and logs from daemons and applications Reconstruct the Linux startup process from boot loaders UEFI and Grub and kernel initialization to systemd unit files and targets leading up to a graphical login Perform analysis of power temperature and the physical environment of a Linux machine and find evidence of sleep hibernation shutdowns reboots and crashes Examine installed software including distro installers package formats and package management systems from Debian Fedora SUSE Arch and other distros Perform analysis of time and Locale settings internationalization including language and keyboard settings and geolocation on a Linux system Reconstruct user login sessions shell X11 and Wayland desktops Gnome KDE and others and analyze keyrings wallets trash cans clipboards thumbnails recent files and other desktop artifacts Analyze network configuration including interfaces addresses network managers DNS wireless artifacts Wi Fi Bluetooth WWAN VPNs including WireGuard firewalls and proxy settings Identify traces of attached peripheral devices PCI USB Thunderbolt Bluetooth including external storage cameras and mobiles and reconstruct printing and scanning activity

The Basics of Digital Forensics John Sammons,2012-04-02 The Basics of Digital Forensics provides a foundation for people new to the field of digital forensics This book teaches you how to conduct examinations by explaining what digital forensics is the methodologies used key technical concepts and the tools needed to perform examinations Details on digital forensics for computers networks cell phones GPS the cloud and Internet are discussed Readers will also learn how to collect evidence document the scene and recover deleted data This is the only resource your students need to get a jump start into digital forensics investigations This book is organized into 11 chapters After an introduction to the basics of digital forensics the book proceeds with a discussion of key technical concepts Succeeding chapters cover labs and tools collecting evidence Windows system artifacts anti forensics Internet and email network forensics and mobile device forensics The book concludes by outlining challenges and concerns associated with digital forensics PowerPoint lecture slides are also available

This book will be a valuable resource for entry level digital forensics professionals as well as those in complimentary fields including law enforcement legal and general information security Learn all about what Digital Forensics entails Build a toolkit and prepare an investigative plan Understand the common artifacts to look for during an exam

Digital Triage Forensics Stephen Pearson, Richard Watson, 2010-07-13 Digital Triage Forensics Processing the Digital Crime Scene provides the tools training and techniques in Digital Triage Forensics DTF a procedural model for the investigation of digital crime scenes including both traditional crime scenes and the more complex battlefield crime scenes The DTF is used by the U S Army and other traditional police agencies for current digital forensic applications The tools training and techniques from this practice are being brought to the public in this book for the first time Now corporations law enforcement and consultants can benefit from the unique perspectives of the experts who coined Digital Triage Forensics The text covers the collection of digital media and data from cellular devices and SIM cards It also presents outlines of pre and post blast investigations This book is divided into six chapters that present an overview of the age of warfare key concepts of digital triage and battlefield forensics and methods of conducting pre post blast investigations The first chapter considers how improvised explosive devices IEDs have changed from basic booby traps to the primary attack method of the insurgents in Iraq and Afghanistan It also covers the emergence of a sustainable vehicle for prosecuting enemy combatants under the Rule of Law in Iraq as U S airmen marines sailors and soldiers perform roles outside their normal military duties and responsibilities The remaining chapters detail the benefits of DTF model the roles and responsibilities of the weapons intelligence team WIT and the challenges and issues of collecting digital media in battlefield situations Moreover data collection and processing as well as debates on the changing role of digital forensics investigators are explored This book will be helpful to forensic scientists investigators and military personnel as well as to students and beginners in forensics Includes coverage on collecting digital media Outlines pre and post blast investigations Features content on collecting data from cellular devices and SIM cards

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