

HANDBOOK OF

# DIGITAL FORENSICS AND INVESTIGATION

EDITED BY

EOGHAN CASEY



# Handbook Of Digital Forensics And Investigation

**Eoghan Casey**



## **Handbook Of Digital Forensics And Investigation:**

Handbook of Digital Forensics and Investigation Eoghan Casey, 2009-10-07 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

**Handbook of Digital Forensics and Investigation** Eoghan Casey, 2010 The 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 now in its third edition providing advanced material from specialists in each area of Digital Forensics 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 Handbook of Digital Forensics of Multimedia Data and Devices Anthony T. S. Ho, Shujun Li, 2015-09-28 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.

**Handbook of Computer Crime Investigation** Eoghan Casey, 2001-10-22. 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.

[Handbook of Digital and Multimedia Forensic Evidence](#) John J. Barbara, 2007-12-28. This volume presents an overview of computer forensics, perfect for beginners. A distinguished group of specialist authors have crafted chapters rich with detail yet accessible for readers who are not experts in the field. Tying together topics as diverse as applicable laws on search and seizure, investigating cybercrime and preparation for courtroom

testimony Handbook of Digital and Multimedia Evidence is an ideal overall reference for this multi faceted discipline

**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 *Studyguide for Handbook of Digital Forensics and Investigation [NOOK Book] by Eoghan Casey, ISBN 9780080921471* Cram101 Textbook Reviews, Cram101 Textbook Reviews Staff, Eoghan Casey, 2013-01-01 Never HIGHLIGHT a Book Again Virtually all of the testable terms concepts persons places and events from the textbook are included Cram101 Just the FACTS101 studyguides give all of the outlines highlights notes and quizzes for your textbook with optional online comprehensive practice tests Only Cram101 is Textbook Specific Accompanys 9780080921471 **Guide to Computer Forensics and Investigations** Bill Nelson, Amelia Phillips, Frank Enfinger, Christopher Steuart, 2008 Master the skills necessary to launch and complete a successful computer investigation with the updated edition of this highly successful book Guide to Computer Forensics and Investigations This text will teach readers how to conduct a high tech investigation from acquiring digital evidence to reporting its findings Coverage includes how to set up a forensics lab how to acquire the proper and necessary tools and how to conduct the investigation and subsequent digital analysis The comprehensive coverage and detailed know how led to the book being listed as recommended reading by the FBI Forensics Communications the United States Certified reading room The book features free downloads of the latest forensic software so students become familiar with the tools of the trade **Digital Forensics and Investigations** Jason Sachowski, 2018-05-16 Digital

forensics has been a discipline of Information Security for decades now. Its principles, methodologies, and techniques have remained consistent despite the evolution of technology, and ultimately it can be applied to any form of digital data. However, within a corporate environment, digital forensic professionals are particularly challenged. They must maintain the legal admissibility and forensic viability of digital evidence in support of a broad range of different business functions that include incident response, electronic discovery, ediscovery, and ensuring the controls and accountability of such information across networks. Digital Forensics and Investigations: People, Process, and Technologies to Defend the Enterprise provides the methodologies and strategies necessary for these key business functions to seamlessly integrate digital forensic capabilities to guarantee the admissibility and integrity of digital evidence. In many books, the focus on digital evidence is primarily in the technical software and investigative elements, of which there are numerous publications. What tends to get overlooked are the people and process elements within the organization. Taking a step back, the book outlines the importance of integrating and accounting for the people, process, and technology components of digital forensics. In essence, to establish a holistic paradigm and best practice procedure and policy approach to defending the enterprise. This book serves as a roadmap for professionals to successfully integrate an organization's people, process, and technology with other key business functions in an enterprise's digital forensic capabilities.

**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.

**Learn Computer Forensics** William Oettinger, 2020-04-30. Get up and running with collecting evidence using forensics best practices to present your findings in judicial or administrative proceedings. Key Features: Learn the core techniques of computer forensics to acquire and secure digital evidence skillfully. Conduct a digital forensic examination and document the digital evidence collected. Perform a variety of Windows forensic investigations to analyze and overcome complex challenges. Book Description: A computer forensics investigator must possess a variety of skills, including the ability to answer legal questions, gather and document evidence, and prepare for an investigation. This book will help you get up and

running with using digital forensic tools and techniques to investigate cybercrimes successfully Starting with an overview of forensics and all the open source and commercial tools needed to get the job done you ll learn core forensic practices for searching databases and analyzing data over networks personal devices and web applications You ll then learn how to acquire valuable information from different places such as filesystems e mails browser histories and search queries and capture data remotely As you advance this book will guide you through implementing forensic techniques on multiple platforms such as Windows Linux and macOS to demonstrate how to recover valuable information as evidence Finally you ll get to grips with presenting your findings efficiently in judicial or administrative proceedings By the end of this book you ll have developed a clear understanding of how to acquire analyze and present digital evidence like a proficient computer forensics investigator What you will learn Understand investigative processes the rules of evidence and ethical guidelines Recognize and document different types of computer hardware Understand the boot process covering BIOS UEFI and the boot sequence Validate forensic hardware and software Discover the locations of common Windows artifacts Document your findings using technically correct terminology Who this book is for If you re an IT beginner student or an investigator in the public or private sector this book is for you This book will also help professionals and investigators who are new to incident response and digital forensics and interested in making a career in the cybersecurity domain Individuals planning to pass the Certified Forensic Computer Examiner CFCE certification will also find this book useful

**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

**Digital Forensics Handbook** H. Mitchel, Digital Forensics Handbook by H Mitchel offers a

practical and accessible approach to the science of digital investigation Designed for students professionals and legal experts this guide walks you through the process of identifying preserving analyzing and presenting digital evidence in cybercrime cases Learn about forensic tools incident response file system analysis mobile forensics and more Whether you re working in law enforcement cybersecurity or digital litigation this book helps you uncover the truth in a world where evidence is often hidden in bits and bytes      Digital Forensics with Open Source Tools Harlan Carvey,Cory Altheide,2011-03-29 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      **Building a Digital Forensic Laboratory** Andrew Jones,Craig Valli,2011-04-19 The need to

professionally and successfully conduct computer forensic investigations of incidents and crimes has never been greater This has caused an increased requirement for information about the creation and management of computer forensic laboratories and the investigations themselves This includes a great need for information on how to cost effectively establish and manage a computer forensics laboratory This book meets that need a clearly written non technical book on the topic of computer forensics with emphasis on the establishment and management of a computer forensics laboratory and its subsequent support to successfully conducting computer related crime investigations Provides guidance on creating and managing a computer forensics lab Covers the regulatory and legislative environment in the US and Europe Meets the needs of IT professionals and law enforcement as well as consultants      A Practical Guide to Computer Forensics Investigations Darren

R. Hayes,2015 A Practical Guide to Computer Forensics Investigations introduces the newest technologies along with detailed information on how the evidence contained on these devices should be analyzed Packed with practical hands on activities students will learn unique subjects from chapters including Mac Forensics Mobile Forensics Cyberbullying and Child Endangerment This well developed book will prepare students for the rapidly growing field of computer forensics for a



career with law enforcement accounting firms banks and credit card companies private investigation companies or government agencies

**Handbook of Computer Crime Investigation** Eoghan Casey, 2001-10 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

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[Proceedings of the Seventh International Workshop on Digital Forensics and Incident Analysis \(WDFIA 2012\)](#) Nathan Clarke, Theodore Tryfonas, Ronald Dodge, 2012 The field of digital forensics is rapidly evolving and continues to gain significance in both the law enforcement and the scientific community Being intrinsically interdisciplinary it draws upon a wide range of subject areas such as information communication technologies law social sciences and business administration With this in mind the workshop on Digital Forensics and Incident Analysis WDFIA specifically addresses this multi faceted aspect with papers invited from the full spectrum of issues relating to digital forensics and incident analysis This book represents the proceedings from the 2012 event which was held in Crete Greece A total of 13 papers are included spanning a range of topics including systems and network investigation services and applications and supporting the forensic process All of the papers were subject to double blind peer review with each being reviewed by at least two members of the international programme committee

**Guide to Computer Forensics and Investigations, Loose-Leaf Version** Bill Nelson, Amelia Phillips, Christopher Steuart, 2024-04-03 Master the skills you need to conduct a successful digital investigation with Nelson Phillips Steuart's *GUIDE TO COMPUTER FORENSICS AND INVESTIGATIONS* 7th Edition Combining the latest advances in computer forensics with all encompassing topic coverage authoritative information from seasoned experts and real world applications you get the most comprehensive forensics resource available While other resources offer an overview of the field the hands on learning in *GUIDE TO COMPUTER FORENSICS AND INVESTIGATIONS* teaches you the tools and techniques of the trade introducing you to every step of the digital forensics investigation process from lab setup to testifying in court Designed to provide the most modern approach to the ins and outs of the profession of digital forensics investigation it is appropriate for

learners new to the field and an excellent refresher and technology update for current law enforcement investigations or information security professionals     The Basics of Digital Forensics John Sammons, 2012-02-24 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

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