

THE BASICS OF DIGITAL FORENSICS

The Primer for Getting Started
in Digital Forensics

John Sammons



Digital Forensics Elsevier

Larry Daniel, Lars Daniel



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Digital Forensics John Sammons, 2015-12-07 Digital Forensics Threatscape and Best Practices surveys the problems and challenges confronting digital forensic professionals today including massive data sets and everchanging technology This book provides a coherent overview of the threatscape in a broad range of topics providing practitioners and students alike with a comprehensive coherent overview of the threat landscape and what can be done to manage and prepare for it Digital Forensics Threatscape and Best Practices delivers you with incisive analysis and best practices from a panel of expert authors led by John Sammons bestselling author of The Basics of Digital Forensics Learn the basics of cryptocurrencies like Bitcoin and the artifacts they generate Learn why examination planning matters and how to do it effectively Discover how to incorporate behavioral analysis into your digital forensics examinations Stay updated with the key artifacts created by the latest Mac OS OS X 10 11 El Capitan Discusses the threatscape and challenges facing mobile device forensics law enforcement and legal cases The power of applying the electronic discovery workflows to digital forensics Discover the value of and impact of social media forensics *Fundamentals of Digital Forensics* Joakim Kävrestad, Marcus Birath, Nathan Clarke, 2024-03-21 This textbook describes the theory and methodology of digital forensic examinations presenting examples developed in collaboration with police authorities to ensure relevance to real world practice The coverage includes discussions on forensic artifacts and constraints as well as forensic tools used for law enforcement and in the corporate sector Emphasis is placed on reinforcing sound forensic thinking and gaining experience in common tasks through hands on exercises This enhanced third edition describes practical digital forensics with open source tools and includes an outline of current challenges and research directions Topics and features Outlines what computer forensics is and what it can do as well as what its limitations are Discusses both the theoretical foundations and the fundamentals of forensic methodology Reviews broad principles that are applicable worldwide Explains how to find and interpret several important artifacts Describes free and open source software tools Features content on corporate forensics ethics SQLite databases triage and memory analysis Includes new supporting video lectures on YouTube This easy to follow primer is an essential resource for students of computer forensics and will also serve as a valuable reference for practitioners seeking instruction on performing forensic examinations

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

Intelligent Decision Support Systems for Sustainable Computing Arun Kumar

Sangaiah,Ajith Abraham,Patrick Siarry,Michael Sheng,2017-03-14 This unique book dicusses the latest research innovative ideas challenges and computational intelligence CI solutions in sustainable computing It presents novel in depth fundamental research on achieving a sustainable lifestyle for society either from a methodological or from an application perspective Sustainable computing has expanded to become a significant research area covering the fields of computer science and engineering electrical engineering and other engineering disciplines and there has been an increase in the amount of literature on aspects sustainable computing such as energy efficiency and natural resources conservation that emphasizes the role of ICT information and communications technology in achieving system design and operation objectives The energy impact design of more efficient IT infrastructures is a key challenge in realizing new computing paradigms The book explores the uses of computational intelligence CI techniques for intelligent decision support that can be exploited to create effectual computing systems and addresses sustainability problems in computing and information processing environments and technologies at the different levels of CI paradigms An excellent guide to surveying the state of the art in computational intelligence applied to challenging real world problems in sustainable computing it is intended for scientists practitioners researchers and academicians dealing with the new challenges and advances in area

Cyber Security, Forensics and National Security Vinay Aseri,Sumit Kumar Choudhary,Adarsh Kumar,2025-10-15

The book serves two very important purposes Firstly the concept of vulnerabilities due to cyberattacks in all walks of lives are explained along with how to detect and reduce the risk through digital forensics Secondly the book describes how such threats at a larger scale can threaten national security This book discusses for the first time various dimensions of national security the risks involved due to cyber threats and ultimately the detection and prevention of cyber threats through cyber forensics and cybersecurity architectures This book empowers readers with a deep comprehension of the various cyber threats targeting nations businesses and individuals allowing them to recognize and respond to these threats effectively It provides a comprehensive guide to digital investigation techniques including evidence collection analysis and presentation in a legal context addressing a vital need for cybersecurity professionals and law enforcement The book navigates the complex legal and policy considerations

surrounding cybercrime and national security ensuring readers are well versed in compliance and ethical aspects The primary purpose of Cybersecurity Forensics and National Security is to fill a critical gap in the realm of literature on cybersecurity digital forensics and their nexus with national security The need for this resource arises from the escalating threats posed by cyberattacks espionage and other digital crimes which demand a comprehensive understanding of how to investigate respond to and prevent such incidents Features 1 This book consists of content dedicated to national security to assist law enforcement and investigation agencies 2 The book will act as a compendium for undertaking the initiatives for research in securing digital data at the level of national security with the involvement of intelligence agencies 3 The book focuses on real world cases and national security from government agencies law enforcement and digital security firms offering readers valuable insights into practical applications and lessons learned in digital forensics as well as innovative methodologies aimed at enhancing the availability of digital forensics and national security tools and techniques 4 The book explores cutting edge technologies in the field of digital forensics and national security leveraging computational intelligence for enhanced reliability engineering sustainable practices and more

Strategic Leadership in Digital Evidence Paul Reedy,2020-10-08 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 *Digital Forensics for Legal Professionals* Larry Daniel,Lars Daniel,2011-09-02 Section 1 What is Digital Forensics Chapter 1 Digital Evidence is Everywhere Chapter 2 Overview of Digital Forensics Chapter 3 Digital Forensics The Sub Disciplines Chapter 4 The Foundations of Digital Forensics Best Practices Chapter 5 Overview of Digital Forensics Tools Chapter 6 Digital Forensics at Work in the Legal System Section 2 Experts Chapter 7 Why Do I Need an Expert Chapter 8 The Difference between Computer Experts and Digital Forensic Experts Chapter 9 Selecting a Digital Forensics Expert Chapter 10 What to Expect from an Expert Chapter 11 Approaches by Different Types of Examiners Chapter 12 Spotting a Problem Expert Chapter 13 Qualifying an Expert in Court Sections 3 Motions and Discovery Chapter 14 Overview of Digital Evidence Discovery Chapter 15 Discovery of Digital Evidence in Criminal Cases Chapter 16 Discovery of Digital Evidence in Civil Cases Chapter 17 Discovery of Computers and Storage Media Chapter 18 Discovery of Video Evidence Ch [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

Digital Forensics Trial Graphics John Sammons, Lars Daniel, 2017-03-09 Digital Forensics Trial Graphics Teaching the Jury Through Effective Use of Visuals helps digital forensic practitioners explain complex technical material to laypeople i e juries judges etc The book includes professional quality illustrations of technology that help anyone understand the complex concepts behind the science Users will find invaluable information on theory and best practices along with guidance on how to design and deliver successful explanations Helps users learn skills for the effective presentation of digital forensic evidence via graphics in a trial setting to laypeople such as juries and judges Presents the principles of visual learning and graphic design as a foundation for developing effective visuals Demonstrates the best practices of slide design to develop effective visuals for presentation of evidence Professionally developed graphics designed specifically for digital forensics that you can use at trial Downloadable graphics available at <http://booksite.elsevier.com> 9780128034835 **Contemporary**

Digital Forensic Investigations of Cloud and Mobile Applications Kim-Kwang Raymond Choo, Ali Dehghantanha, 2016-11-29 Cloud storage services and applications have become part of everyday life in both developed and developing countries As with most evolving technologies cloud services and apps can be used for criminal exploitation Drawing upon the expertise of world renowned researchers and experts this book comprehensively discusses the implications of cloud storage services and mobile applications on digital forensic investigations The book provides both digital forensic practitioners and researchers an up to date and advanced knowledge of collecting preserving and preserving electronic evidence from different types of cloud services such as digital remnants of cloud application when accessed through mobile devices In addition this is the first book which covers investigation of a wide range of cloud services Dr Kim Kwang Raymond Choo and Dr Ali Dehghantanha are leading researchers in cloud and mobile security and forensics having organized and led research and having published widely in the field Contemporary Digital Forensic Investigations of Cloud and Mobile Applications provides a deep overview of seminal research in the field while also identifying prospective future research topics and open challenges Presents the most current and leading edge research on cloud and mobile application forensics featuring a panel of top experts in the field The first book to provide an in depth overview of the issues surrounding digital forensic investigations of cloud and associated mobile apps Covers key technical topics and provides readers with a complete understanding of the most current research findings along with future research directions and challenges **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

Preserving Electronic Evidence for Trial
Ernesto F. Rojas, Ann D. Zeigler, 2016-02-18 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

Linux Malware Incident Response: A Practitioner's Guide to Forensic Collection and Examination of Volatile Data Eoghan Casey, Cameron H. Malin, James

M. Aquilina, 2013-04-12 Linux Malware Incident Response is a first look at the Malware Forensics Field Guide for Linux Systems exhibiting the first steps in investigating Linux based incidents The Syngress Digital Forensics Field Guides series includes companions for any digital and computer forensic investigator and analyst Each book is a toolkit with checklists for specific tasks case studies of difficult situations and expert analyst tips This compendium of tools for computer forensics analysts and investigators is presented in a succinct outline format with cross references to supplemental appendices It is designed to provide the digital investigator clear and concise guidance in an easily accessible format for responding to an incident or conducting analysis in a lab Presented in a succinct outline format with cross references to included supplemental components and appendices Covers volatile data collection methodology as well as non volatile data collection from a live Linux system Addresses malware artifact discovery and extraction from a live Linux system **Guide to Information**

Sources in the Forensic Sciences Cynthia Holt, 2006 Thanks to the O J Simpson case not to mention the overwhelming success of the CSI franchise the general public is both aware of and curious about the world of forensics i e the investigation and establishment of facts or evidence in a court of law The forensic sciences incorporate the application of principles and methods from a cadre of specialized scientific and technical disciplines to a vast array of criminal and civil legal questions To this end Cynthia Holt has compiled a comprehensive bibliography of resources recommended to support research in the forensic sciences and its various subspecialties Holt s introductory chapter clarifies the distinctions between the major forensic sciences specialties in addition it provides an overview of the hierarchy of various classification systems for the forensics literature The bibliography itself is grouped by type of material e g journals abstracts and indexes books Topics include ballistics DNA analysis etymology expert witnessing and facial imaging reconstruction as well as contributions from academic fields such as anthropology linguistics and engineering Tools are primarily in English with a few non English titles included for reasons of significance With a preface by Professor Moses S Schanfield Chair of the Department of Forensic Sciences at George Washington University **Malware Forensics Field Guide for Linux Systems** Eoghan

Casey, Cameron H. Malin, James M. Aquilina, 2013-12-07 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 First International Workshop on Systematic Approaches to Digital Forensic Engineering ,2005 The SADFE International Workshop is intended to further the advancement of computer forensic engineering by promoting innovative and leading edge systematic approaches to cyber crime investigation The workshop brings together top digital forensic researchers advanced tool product builders and expert law enforcement from around the world for information exchange and R D collaboration In addition to advanced digital evidence discovery gathering and correlation SADFE recognizes the value of solid digital forensic engineering processes based on both technical and legal grounds SADFE further recognizes the need of advanced forensic enabled and proactive monitoring response technologies SADFE 2005 addresses broad based innovative digital forensic engineering technology practical experience and process areas Big Data Analytics and Computing for Digital Forensic Investigations Suneeta Satpathy,Sachi Mohanty,2020-03-17 Digital forensics has recently gained a notable development and become the most demanding area in today s information security requirement This book investigates the areas of digital forensics digital investigation and data analysis procedures as they apply to computer fraud and cybercrime with the main objective of describing a variety of digital crimes and retrieving potential digital evidence Big Data Analytics and Computing for Digital Forensic Investigations gives a contemporary view on the problems of information security It presents the idea that protective mechanisms and software must be integrated along with forensic capabilities into existing forensic software using big data computing tools and techniques Features Describes trends of digital forensics served for big data and the challenges of evidence acquisition Enables digital forensic investigators and law enforcement agencies to enhance their digital investigation capabilities with the application of data science analytics algorithms and fusion technique This book is focused on helping professionals as well as researchers to get ready with next generation security systems to mount the rising challenges of computer fraud and cybercrimes as well as with digital forensic investigations Dr Suneeta Satpathy has more than ten years of teaching experience in different subjects of the Computer Science and Engineering discipline She is currently working as an associate professor in the Department of Computer Science and Engineering College of Bhubaneswar affiliated with Biju Patnaik University and Technology Odisha Her research interests include computer forensics cybersecurity data fusion data mining big data analysis and decision mining Dr Sachi Nandan Mohanty is an associate professor in the Department of Computer Science and Engineering at ICFAI Tech ICFAI Foundation for Higher Education Hyderabad India His research interests include data mining big data analysis cognitive science fuzzy decision making brain computer interface cognition and

computational intelligence Digital Evidence and Computer Crime Eoghan Casey,2011-04-20 Though an increasing number of criminals are using computers and computer networks few investigators are well versed in the issues related to digital evidence This work explains how computer networks function and how they can be used in a crime Digital and Document Examination Max M. Houck,2018-01-27 The Advanced Forensic Science Series grew out of the recommendations from the 2009 NAS Report Strengthening Forensic Science A Path Forward This volume Digital and Document Examination will serve as a graduate level text for those studying and teaching digital forensics and forensic document examination as well as an excellent reference for forensic scientist s libraries or use in their casework Coverage includes digital devices transportation types of documents forensic accounting and professional issues Edited by a world renowned leading forensic expert the Advanced Forensic Science Series is a long overdue solution for the forensic science community Provides basic principles of forensic science and an overview of digital forensics and document examination Contains sections on digital devices transportation types of documents and forensic accounting Includes sections on professional issues such as from crime scene to court forensic laboratory reports and health and safety Incorporates effective pedagogy key terms review questions discussion questions and additional reading suggestions The Basics of Digital Forensics John Sammons,2014-12-09 The Basics of Digital Forensics provides a foundation for people new to the digital forensics field This book offers guidance on 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 the reader with 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 This valuable resource also covers 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 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 and expert interviews

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