# THE BASICS OF DIGITAL FORENSICS

The Primer for Getting Started in Digital Forensics



John Sammons

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**John Sammons** 

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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 behaviorial 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 threatscapes 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 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 quide 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

**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

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 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 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 <u>Digital Forensics Trial Graphics</u> 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 <u>Digital Forensics in the Era of Artificial Intelligence</u> Nour Moustafa, 2022-07-18 Digital forensics com 9780128034835 plays a crucial role in identifying analysing and presenting cyber threats as evidence in a court of law Artificial intelligence particularly machine learning and deep learning enables automation of the digital investigation process This book provides an in depth look at the fundamental and advanced methods in digital forensics It also discusses how machine learning and deep learning algorithms can be used to detect and investigate cybercrimes This book demonstrates digital forensics and cyber investigating techniques with real world applications It examines hard disk analytics and style architectures including Master Boot Record and GUID Partition Table as part of the investigative process It also covers cyberattack analysis in Windows Linux and network systems using virtual machines in real world scenarios Digital Forensics in the Era of Artificial Intelligence will be helpful for those interested in digital forensics and using machine learning techniques in the investigation of cyberattacks and the detection of evidence in cybercrimes **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 and 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 speople process and technology with

other key business functions in an enterprise s digital forensic capabilities **Digital Evidence and Computer Crime** Eoghan Casey, 2011-04-12 Digital Evidence and Computer Crime Third Edition provides the knowledge necessary to uncover and use digital evidence effectively in any kind of investigation It offers a thorough explanation of how computer networks function how they can be involved in crimes and how they can be used as a source of evidence In particular it addresses the abuse of computer networks as well as privacy and security issues on computer networks This updated edition is organized into five parts Part 1 is about digital forensics and covers topics ranging from the use of digital evidence in the courtroom to cybercrime law Part 2 explores topics such as how digital investigations are conducted handling a digital crime scene and investigative reconstruction with digital evidence Part 3 deals with apprehending offenders whereas Part 4 focuses on the use of computers in digital investigation The book concludes with Part 5 which includes the application of forensic science to networks New to this edition are updated information on dedicated to networked Windows Unix and Macintosh computers as well as Personal Digital Assistants coverage of developments in related technology and tools updated language for search warrant and coverage of legal developments in the US impacting computer forensics and discussion of legislation from other countries to provide international scope There are detailed case examples that demonstrate key concepts and give students a practical applied understanding of the topics along with ancillary materials that include an Instructor's Manual and PowerPoint slides This book will prove valuable to computer forensic students and professionals lawyers law enforcement and government agencies IRS FBI CIA CCIPS etc Named The 2011 Best Digital Forensics Book by InfoSec Reviews Provides a thorough explanation of how computers networks function how they can be involved in crimes and how they can be used as evidence Features coverage of the abuse of computer networks and privacy and security issues on computer networks

Digital Forensics André Årnes,2017-05-18 The definitive text for students of digital forensics as well as professionals looking to deepen their understanding of an increasingly critical field Written by faculty members and associates of the world renowned Norwegian Information Security Laboratory NisLab at the Norwegian University of Science and Technology NTNU this textbook takes a scientific approach to digital forensics ideally suited for university courses in digital forensics and information security Each chapter was written by an accomplished expert in his or her field many of them with extensive experience in law enforcement and industry The author team comprises experts in digital forensics cybercrime law information security and related areas Digital forensics is a key competency in meeting the growing risks of cybercrime as well as for criminal investigation generally Considering the astonishing pace at which new information technology and new ways of exploiting information technology is brought on line researchers and practitioners regularly face new technical challenges forcing them to continuously upgrade their investigatory skills Designed to prepare the next generation to rise to those challenges the material contained in Digital Forensics has been tested and refined by use in both graduate and undergraduate programs and subjected to formal evaluations for more than ten years Encompasses all aspects of the field

including methodological scientific technical and legal matters Based on the latest research it provides novel insights for students including an informed look at the future of digital forensics Includes test questions from actual exam sets multiple choice questions suitable for online use and numerous visuals illustrations and case example images Features real word examples and scenarios including court cases and technical problems as well as a rich library of academic references and references to online media Digital Forensics is an excellent introductory text for programs in computer science and computer engineering and for master degree programs in military and police education It is also a valuable reference for legal practitioners police officers investigators and forensic practitioners seeking to gain a deeper understanding of digital forensics and cybercrime Big Digital Forensic Data Darren Quick, Kim-Kwang Raymond Choo, 2018-04-24 This book provides an in depth understanding of big data challenges to digital forensic investigations also known as big digital forensic data It also develops the basis of using data mining in big forensic data analysis including data reduction knowledge management intelligence and data mining principles to achieve faster analysis in digital forensic investigations By collecting and assembling a corpus of test data from a range of devices in the real world it outlines a process of big data reduction and evidence and intelligence extraction methods Further it includes the experimental results on vast volumes of real digital forensic data The book is a valuable resource for digital forensic practitioners researchers in big data cyber threat hunting and intelligence data mining and other related areas **Digital Forensics and Cyber Crime** Marcus K. Rogers, Kathryn C. Seigfried-Spellar, 2013-10-01 This book contains a selection of thoroughly refereed and revised papers from the Fourth International ICST Conference on Digital Forensics and Cyber Crime ICDF2C 2012 held in October 2012 in Lafayette Indiana USA The 20 papers in this volume are grouped in the following topical sections cloud investigation malware behavioral law mobile device forensics and cybercrime investigations 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 *Digital-Forensics and Watermarking* Yun-Qing Shi, Hyoung Joong Kim, Fernando Pérez-González, Ching-Nung Yang, 2015-06-24 This book constitutes the thoroughly refereed post conference proceedings of the 13th International Workshop on Digital Forensics and Watermarking IWDW 2014 held in Taipei Taiwan during October 2014 The 32 full and 14 poster papers presented together with 1 keynote speech were carefully reviewed and selected from 79 submissions The papers are organized in topical sections on forensics watermarking reversible data hiding visual cryptography and steganography and steganalysis

Cybercrime, Digital Forensics and Jurisdiction Mohamed Chawki, Ashraf Darwish, Mohammad Ayoub Khan, Sapna Tyaqi,2015-02-26 The purpose of law is to prevent the society from harm by declaring what conduct is criminal and prescribing the punishment to be imposed for such conduct The pervasiveness of the internet and its anonymous nature make cyberspace a lawless frontier where anarchy prevails Historically economic value has been assigned to visible and tangible assets With the increasing appreciation that intangible data disseminated through an intangible medium can possess economic value cybercrime is also being recognized as an economic asset The Cybercrime Digital Forensics and Jurisdiction disseminate knowledge for everyone involved with understanding and preventing cybercrime business entities private citizens and government agencies The book is firmly rooted in the law demonstrating that a viable strategy to confront cybercrime must be international in scope LAWS OF ELECTRONIC EVIDENCE AND DIGITAL FORENSICS KAUR, GAGANDEEP, DHAWAN, ANSHIKA, 2024-04-15 This widely researched and meticulously written book is a valuable resource for the students pursuing relevant courses in the field of electronic evidence and digital forensics Also it is a ready reference for the experts seeking a comprehensive understanding of the subject and its importance in the legal and investigative domains The book deftly negotiates the complexities of electronic evidence offering perceptive talks on state of the art methods instruments and techniques for identifying conserving and analysing digital artefacts With a foundation in theoretical concepts and real world applications the authors clarify the difficulties that arise when conducting digital investigations related to fraud cybercrime and other digital offences. The book gives readers the skills necessary to carry out exhaustive and legally acceptable digital forensic investigations with a special emphasis on ethical and legal issues The landmark judgements passed by the Supreme Court and High Courts on electronic evidence and Case laws are highlighted in the book for deep understanding of digital forensics in the pursuit of justice and the protection of digital assets The legal environment of the digital age is shaped in large part by landmark rulings on electronic evidence which address the particular difficulties brought about by technological advancements In addition to setting legal precedents these decisions offer crucial direction for judges and professionals navigating the complexities of electronic evidence Historic rulings aid in the development of a strong and logical legal framework by elucidating the requirements for admission the nature of

authentication and the importance of digital data Overall the book will prove to be of immense value to those aspiring careers in law enforcement legal studies forensics and cyber security TARGET AUDIENCE LLB LLM B Sc in Digital and Cyber Forensics M Sc in Digital Forensics and Information Security B Tech in Computer Science Cyber Security and Digital Forensics PG Diploma in Cyber Security and Digital Forensics Electronic Devices and Circuit Design Suman Lata Tripathi, Smrity Dwivedi, 2022-02-02 This new volume offers a broad view of the challenges of electronic devices and circuits for IoT applications The book presents the basic concepts and fundamentals behind new low power high speed efficient devices circuits and systems in addition to CMOS It provides an understanding of new materials to improve device performance with smaller dimensions and lower costs It also looks at the new methodologies to enhance system performance and provides key parameters for exploring the devices and circuit performance based on smart applications. The chapters delve into myriad aspects of circuit design including MOSFET structures depending on their low power applications for IoT enabled systems advanced sensor design and fabrication using MEMS indirect bootstrap techniques efficient CMOS comparators various encryption decryption algorithms IoT video forensics applications microstrip patch antennas in embedded IoT applications real time object detection using sound IOT and nanotechnologies based wireless sensors and Digital Forensics and Cyber Crime Sanjay Goel, Pavel Gladyshev, Akatyev Nikolay, George Markowsky, Daryl much more Johnson, 2023-07-15 This book constitutes the refereed proceedings of the 13th EAI International Conference on Practical Aspects of Digital Forensics and Cyber Crime ICDF2C 2022 held in Boston MA during November 16 18 2022 The 28 full papers included in this book were carefully reviewed and selected from 80 submissions. They were organized in topical sections as follows Image Forensics Forensics Analysis spread spectrum analysis traffic analysis and monitoring malware analysis security risk management privacy and security **Handbook of Research on Cyber Crime and Information Privacy** Cruz-Cunha, Maria Manuela, Mateus-Coelho, Nuno, 2020-08-21 In recent years industries have transitioned into the digital realm as companies and organizations are adopting certain forms of technology to assist in information storage and efficient methods of production This dependence has significantly increased the risk of cyber crime and breaches in data security Fortunately research in the area of cyber security and information protection is flourishing however it is the responsibility of industry professionals to keep pace with the current trends within this field The Handbook of Research on Cyber Crime and Information Privacy is a collection of innovative research on the modern methods of crime and misconduct within cyber space It presents novel solutions to securing and preserving digital information through practical examples and case studies While highlighting topics including virus detection surveillance technology and social networks this book is ideally designed for cybersecurity professionals researchers developers practitioners programmers computer scientists academicians security analysts educators and students seeking up to date research on advanced approaches and developments in cyber security and information protection

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