



Forensic Computing Forensic Computing

**Gulshan Shrivastava,Deepak
Gupta,Kavita Sharma**



Forensic Computing Forensic Computing:

Cyber Crime and Forensic Computing Gulshan Shrivastava, Deepak Gupta, Kavita Sharma, 2021-09-07 This book presents a comprehensive study of different tools and techniques available to perform network forensics. Also, various aspects of network forensics are reviewed as well as related technologies and their limitations. This helps security practitioners and researchers in better understanding of the problem, current solution space, and future research scope to detect and investigate various network intrusions against such attacks efficiently. Forensic computing is rapidly gaining importance since the amount of crime involving digital systems is steadily increasing. Furthermore, the area is still underdeveloped and poses many technical and legal challenges. The rapid development of the Internet over the past decade appeared to have facilitated an increase in the incidents of online attacks. There are many reasons which are motivating the attackers to be fearless in carrying out the attacks. For example, the speed with which an attack can be carried out, the anonymity provided by the medium, the nature of the medium where digital information is stolen without actually removing it, increased availability of potential victims, and the global impact of the attacks are some of the aspects. Forensic analysis is performed at two different levels: Computer Forensics and Network Forensics. Computer forensics deals with the collection and analysis of data from computer systems, networks, communication streams, and storage media in a manner admissible in a court of law. Network forensics deals with the capture, recording, or analysis of network events in order to discover evidential information about the source of security attacks in a court of law. Network forensics is not another term for network security. It is an extended phase of network security as the data for forensic analysis are collected from security products like firewalls and intrusion detection systems. The results of this data analysis are utilized for investigating the attacks. Network forensics generally refers to the collection and analysis of network data such as network traffic, firewall logs, IDS logs, etc. Technically, it is a member of the already existing and expanding field of digital forensics. Analogously, network forensics is defined as the use of scientifically proved techniques to collect, identify, examine, correlate, analyze, and document digital evidence from multiple active processing and transmitting digital sources for the purpose of uncovering facts related to the planned intent or measured success of unauthorized activities meant to disrupt, corrupt, and/or compromise system components as well as providing information to assist in response to or recovery from these activities. Network forensics plays a significant role in the security of today's organizations. On the one hand, it helps to learn the details of external attacks, ensuring similar future attacks are thwarted. Additionally, network forensics is essential for investigating insiders' abuses that constitute the second costliest type of attack within organizations. Finally, law enforcement requires network forensics for crimes in which a computer or digital system is either being the target of a crime or being used as a tool in carrying a crime. Network security protects the system against attack, while network forensics focuses on recording evidence of the attack. Network security products are generalized and look for possible harmful behaviors. This monitoring is a continuous process and is performed

all through the day However network forensics involves post mortem investigation of the attack and is initiated after crime notification There are many tools which assist in capturing data transferred over the networks so that an attack or the malicious intent of the intrusions may be investigated Similarly various network forensic frameworks are proposed in the literature

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

Cloud Storage Forensics Darren Quick, Ben Martini, Raymond Choo, 2013-11-16 To reduce the risk of digital forensic evidence being called into question in judicial proceedings it is important to have a rigorous methodology and set of procedures for conducting digital forensic investigations and examinations Digital forensic investigation in the cloud computing environment however is in infancy due to the comparatively recent prevalence of cloud

computing Cloud Storage Forensics presents the first evidence based cloud forensic framework Using three popular cloud storage services and one private cloud storage service as case studies the authors show you how their framework can be used to undertake research into the data remnants on both cloud storage servers and client devices when a user undertakes a variety of methods to store upload and access data in the cloud By determining the data remnants on client devices you gain a better understanding of the types of terrestrial artifacts that are likely to remain at the Identification stage of an investigation Once it is determined that a cloud storage service account has potential evidence of relevance to an investigation you can communicate this to legal liaison points within service providers to enable them to respond and secure evidence in a timely manner Learn to use the methodology and tools from the first evidenced based cloud forensic framework Case studies provide detailed tools for analysis of cloud storage devices using popular cloud storage services Includes coverage of the legal implications of cloud storage forensic investigations Discussion of the future evolution of cloud storage and its impact on digital forensics

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

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 Fundamental Computing Forensics for Africa Aamo Iorliam,2018-06-28 This book presents a general introduction to the computational aspects of forensic science covering the different tools needed for forensic investigations the importance of forensics and biometrics and the use of Benford s law for biometrics and network traffic analysis It specifically focuses on the application of these techniques in Africa and how they can be of benefit in the investigation of crime in Nigeria in particular **Forensic Computing** Anthony Sammes,Brian Jenkinson,2013-04-17 In this book Tony Sammes and Brian Jenkinson show how information held in computer systems can be recovered and how it may be deliberately hidden or subverted for criminal purposes Forensic Computing A Practitioner s Guide is illustrated by plenty of case studies and worked examples and will help practitioners and students gain a clear understanding of how to recover information from computer systems in such a way as to ensure that its integrity cannot be challenged and that it will be accepted as admissible evidence in court the principles involved in password protection and data encryption the evaluation procedures used in circumventing these safeguards the particular legal issues associated with computer generated evidence and how to ensure admissibility of such evidence Computer Forensics Marie-Helen Maras,2014-02-17 An Updated Edition of the Definitive Computer Forensics Text 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 See Dr Maras discuss the dark reality of identity theft and cybercrime in an interview with CBS News Read the full article here Praise for the first edition This book really covers a big gap that we have had with textbooks on introductory level classes for Digital Forensics It explains the definition of the terms that students will

encounter in cybercrime investigations as well as the laws pertaining to Cybercrime Investigations The author does a nice job of making the content flow and allowing intro students the ability to follow and grasp the material David Papargiris Bristol Community College This book should be considered a high priority read for criminal investigators computer security professionals and even casual Internet users Understanding the extent of cybercrime and the tactics of computer criminals is a great start but understanding the process of investigation and what evidence can be collected and used for prosecution is a vital distinction in which this book excels T D Richardson South University Includes a new chapter on cyberterrorism as well as new coverage on social engineering Features information on Red October Aurora and Night Dragon operations Provides comprehensive coverage of civil criminal and corporate investigations and the legal issues that arise with such investigations Includes case studies discussion and review questions practical exercises and links to relevant websites to stimulate the critical thinking skills of students Downloadable instructor resources created by the author include an Instructor s Manual Test Bank and PowerPoint Lecture Outlines This text is appropriate for undergraduate or introductory graduate Computer Forensics courses 2015 408 pages *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 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

Computer Forensics For Dummies Carol Pollard, Reynaldo Anzaldúa, 2008-11-24 Uncover a digital trail of e evidence by using the helpful easy to understand information in Computer Forensics For Dummies Professional and armchair investigators alike can learn the basics of computer forensics from digging out electronic evidence to solving the case You won't need a computer science degree to master e discovery Find and filter data in mobile devices e mail and other Web based technologies You'll learn all about e mail and Web based forensics mobile forensics passwords and encryption and other e evidence found through VoIP voicemail legacy mainframes and databases You'll discover how to use the latest forensic software tools and equipment to find the answers that you're looking for in record time When you understand how data is stored encrypted and recovered you'll be able to protect your personal privacy as well By the time you finish reading this book you'll know how to Prepare for and conduct computer forensics investigations Find and filter data Protect personal privacy Transfer evidence without contaminating it Anticipate legal loopholes and opponents methods Handle passwords and encrypted data Work with the courts and win the case Plus Computer Forensics for Dummies includes lists of things that everyone interested in computer forensics should know do and build Discover how to get qualified for a career in computer forensics what to do to be a great investigator and expert witness and how to build a forensics lab or toolkit Note CD ROM DVD and other supplementary materials are not included as part of eBook file

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 Forensic Computing A. J. Sammes, Brian Jenkinson, 2000 The field of forensic computing is rapidly developing due to its increased importance This book covers forensic computing analysis and its capabilities of searching finding and presenting any form of digital document as admissible evidence in a court of law

Computer Forensics InfoSec Pro Guide David Cowen, 2013-04-19 Security Smarts for the Self Guided IT Professional Find out how to excel in the field of computer forensics investigations Learn what it takes to transition from an IT professional to a computer forensic examiner in the private sector Written by a Certified Information Systems Security Professional Computer Forensics InfoSec Pro Guide is filled with real world case studies that demonstrate the concepts covered in the book You ll learn how to set up a forensics lab select hardware and software choose forensic imaging procedures test your tools capture evidence from different sources follow a sound investigative process safely store evidence and verify your findings Best practices for documenting your results preparing reports and presenting evidence in court are also covered in this detailed resource Computer Forensics InfoSec Pro Guide features Lingo Common security terms defined so that you re in the know on the job IMHO Frank and relevant opinions based on the author s years of industry experience Budget Note Tips for getting security technologies and processes into your organization s budget In Actual Practice Exceptions to the rules of security explained in real world contexts Your Plan Customizable checklists you can use on the job now Into Action Tips on how why and when to apply new skills and techniques at work **Digital Crime and Forensic Science in Cyberspace** Panagiotis Kanellis, Evangelos Kiountouzis, Nicholas Kolokotronis, 2006-01-01 Digital forensics is the science of collecting the evidence that can be used in a court of law to prosecute the individuals who engage in electronic crime Provided by publisher

Computer Forensics JumpStart Micah Solomon, Diane Barrett, Neil Broom, 2006-07-14 Launch Your Career in Computer Forensics Quickly and Effectively Written by a team of computer forensics experts Computer Forensics JumpStart provides all the core information you need to launch your career in this fast growing field Conducting a computer forensics investigation Examining the layout of a network Finding hidden data Capturing images Identifying collecting and preserving computer evidence Understanding encryption and examining encrypted files Documenting your case Evaluating common computer forensic tools Presenting computer evidence in court as an expert witness **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

Forensic Computer Crime Investigation Thomas A. Johnson, 2005-09-19 The Digital Age offers many far reaching opportunities opportunities that allow for fast global communications efficient business transactions and stealthily executed cyber crimes Featuring contributions from digital forensic experts the editor of Forensic Computer Crime Investigation presents a vital resource that outlines the latest strategi

Security, Privacy, and Digital Forensics in the Cloud Lei Chen, Hassan Takabi, Nhien-An Le-Khac, 2019-04-29 In a unique and systematic way this book discusses the security and privacy aspects of the cloud and the relevant cloud forensics Cloud computing is an emerging yet revolutionary technology that has been changing the way people live and work However with the continuous growth of cloud computing and related services security and privacy has become a critical issue Written by some of the top experts in the field this book specifically discusses security and privacy of the cloud as well as the digital forensics of cloud data applications and services The first half of the book enables readers to have a comprehensive understanding and background of cloud security which will help them through the digital investigation guidance and recommendations found in the second half of the book Part One of Security Privacy and Digital Forensics in the Cloud covers cloud infrastructure security confidentiality of data access control in cloud IaaS cloud security and privacy management hacking and countermeasures risk management and disaster recovery auditing and compliance and security as a service SaaS Part Two addresses cloud forensics model challenges and approaches cyberterrorism in the cloud digital forensic process and model in the cloud data acquisition digital evidence management presentation and court preparation analysis of digital evidence and forensics as a service FaaS Thoroughly covers both security and privacy of cloud and digital forensics Contributions by top researchers from the U S the European and other countries and professionals active in the field of information and network security digital and computer forensics and cloud and big data Of interest to those focused upon security and implementation and incident management Logical well structured and organized to facilitate comprehension Security Privacy and Digital Forensics in the Cloud is an ideal book for

advanced undergraduate and master s level students in information systems information technology computer and network forensics as well as computer science It can also serve as a good reference book for security professionals digital forensics practitioners and cloud service providers

Cyber Crime and Forensic Computing Gulshan Shrivastava,Deepak Gupta,Kavita Sharma,2021-09-07 This book presents a comprehensive study of different tools and techniques available to perform network forensics Also various aspects of network forensics are reviewed as well as related technologies and their limitations This helps security practitioners and researchers in better understanding of the problem current solution space and future research scope to detect and investigate various network intrusions against such attacks efficiently Forensic computing is rapidly gaining importance since the amount of crime involving digital systems is steadily increasing Furthermore the area is still underdeveloped and poses many technical and legal challenges The rapid development of the Internet over the past decade appeared to have facilitated an increase in the incidents of online attacks There are many reasons which are motivating the attackers to be fearless in carrying out the attacks For example the speed with which an attack can be carried out the anonymity provided by the medium nature of medium where digital information is stolen without actually removing it increased availability of potential victims and the global impact of the attacks are some of the aspects Forensic analysis is performed at two different levels Computer Forensics and Network Forensics Computer forensics deals with the collection and analysis of data from computer systems networks communication streams and storage media in a manner admissible in a court of law Network forensics deals with the capture recording or analysis of network events in order to discover evidential information about the source of security attacks in a court of law Network forensics is not another term for network security It is an extended phase of network security as the data for forensic analysis are collected from security products like firewalls and intrusion detection systems The results of this data analysis are utilized for investigating the attacks Network forensics generally refers to the collection and analysis of network data such as network traffic firewall logs IDS logs etc Technically it is a member of the already existing and expanding the field of digital forensics Analogously network forensics is defined as The use of scientifically proved techniques to collect fuses identifies examine correlate analyze and document digital evidence from multiple actively processing and transmitting digital sources for the purpose of uncovering facts related to the planned intent or measured success of unauthorized activities meant to disrupt corrupt and or compromise system components as well as providing information to assist in response to or recovery from these activities Network forensics plays a significant role in the security of today s organizations On the one hand it helps to learn the details of external attacks ensuring similar future attacks are thwarted Additionally network forensics is essential for investigating insiders abuses that constitute the second costliest type of attack within organizations Finally law enforcement requires network forensics for crimes in which a computer or digital system is either being the target of a crime or being used as a tool in carrying a crime Network security protects the system against attack while network forensics

focuses on recording evidence of the attack Network security products are generalized and look for possible harmful behaviors This monitoring is a continuous process and is performed all through the day However network forensics involves post mortem investigation of the attack and is initiated after crime notification There are many tools which assist in capturing data transferred over the networks so that an attack or the malicious intent of the intrusions may be investigated Similarly various network forensic frameworks are proposed in the literature

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Forensic Computing Forensic Computing Introduction

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