



## OPEN-SOURCE DIGITAL FORENSICS & INCIDENT RESPONSE

# Open Source Software For Digital Forensics

**Ewa Huebner, Stefano Zanero**



## **Open Source Software For Digital Forensics:**

*Open Source Software for Digital Forensics* Ewa Huebner, Stefano Zanero, 2010-01-27 *Open Source Software for Digital Forensics* is the first book dedicated to the use of FLOSS Free Libre Open Source Software in computer forensics It presents the motivations for using FLOSS applications as tools for collection preservation and analysis of digital evidence in computer and network forensics It also covers extensively several forensic FLOSS tools their origins and evolution *Open Source Software for Digital Forensics* is based on the OSSCoNF workshop which was held in Milan Italy September 2008 at the World Computing Congress co located with OSS 2008 This edited volume is a collection of contributions from researchers and practitioners world wide *Open Source Software for Digital Forensics* is designed for advanced level students and researchers in computer science as a secondary text and reference book Computer programmers software developers and digital forensics professionals will also find this book to be a valuable asset

**Open Source Software for Digital Forensics** Ewa Huebner, Stefano Zanero, 2010-09-13      **File System Forensics** Fergus Toolan, 2025-02-17 Comprehensive forensic reference explaining how file systems function and how forensic tools might work on particular file systems *File System Forensics* delivers comprehensive knowledge of how file systems function and more importantly how digital forensic tools might function in relation to specific file systems It provides a step by step approach for file content and metadata recovery to allow the reader to manually recreate and validate results from file system forensic tools The book includes a supporting website that shares all of the data i e sample file systems used for demonstration in the text and provides teaching resources such as instructor guides extra material and more Written by a highly qualified associate professor and consultant in the field *File System Forensics* includes information on The necessary concepts required to understand file system forensics for anyone with basic computing experience File systems specific to Windows Linux and macOS with coverage of FAT ExFAT and NTFS Advanced topics such as deleted file recovery fragmented file recovery searching for particular files links checkpoints snapshots and RAID Issues facing file system forensics today and various issues that might evolve in the field in the coming years *File System Forensics* is an essential up to date reference on the subject for graduate and senior undergraduate students in digital forensics as well as digital forensic analysts and other law enforcement professionals

**Unleashing the Art of Digital Forensics** Keshav Kaushik, Rohit Tanwar, Susheela Dahiya, Komal Kumar Bhatia, Yulei Wu, 2022-08-11 *Unleashing the Art of Digital Forensics* is intended to describe and explain the steps taken during a forensic examination with the intent of making the reader aware of the constraints and considerations that apply during a forensic examination in law enforcement and in the private sector Key Features Discusses the recent advancements in Digital Forensics and Cybersecurity Reviews detailed applications of Digital Forensics for real life problems Addresses the challenges related to implementation of Digital Forensics and Anti Forensic approaches Includes case studies that will be helpful for researchers Offers both quantitative and qualitative research articles conceptual papers review papers etc

Identifies the future scope of research in the field of Digital Forensics and Cybersecurity This book is aimed primarily at and will be beneficial to graduates postgraduates and researchers in Digital Forensics and Cybersecurity Advanced Techniques and Applications of Cybersecurity and Forensics Keshav Kaushik,Mariya Ouaisa,Aryan Chaudhary,2024-07-22 The book showcases how advanced cybersecurity and forensic techniques can be applied to various computational issues It further covers the advanced exploitation tools that are used in the domain of ethical hacking and penetration testing Focuses on tools used in performing mobile and SIM forensics static and dynamic memory analysis and deep web forensics Covers advanced tools in the domain of data hiding and steganalysis Discusses the role and application of artificial intelligence and big data in cybersecurity Elaborates on the use of advanced cybersecurity and forensics techniques in computational issues Includes numerous open source tools such as NMAP Autopsy and Wireshark used in the domain of digital forensics The text is primarily written for senior undergraduates graduate students and academic researchers in the fields of computer science electrical engineering cybersecurity and forensics

**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 Advanced Technologies, Systems, and Applications IV -Proceedings of the International Symposium on Innovative and Interdisciplinary Applications of Advanced Technologies (IAT 2019) Samir Avdaković,Aljo Mujčić,Adnan Mujezinović,Tarik Uzunović,Ismar Volić,2019-07-12 This book presents the scientific outcomes of the conference 11th Days of Bosnian Herzegovinian American Academy of Arts and Sciences held in Sarajevo Bosnia and Herzegovina June 20 23 2019 Including innovative applications of advanced technologies it offers a uniquely comprehensive multidisciplinary and interdisciplinary overview of the latest developments in a broad range of technologies and methodologies viewed through the prism of computing networking information technology robotics complex systems communications energy mechanical engineering economics and medicine among others

**Cybercrime and Digital Forensics** Thomas J. Holt,Adam M. Bossler,Kathryn C. Seigfried-Spellar,2015-02-11 The emergence of the World Wide Web smartphones and Computer Mediated Communications CMCs profoundly affect the way in which people interact online and offline Individuals who engage in socially unacceptable or outright criminal acts increasingly utilize technology to connect with one another in ways that are not otherwise possible in the real world due to

shame social stigma or risk of detection As a consequence there are now myriad opportunities for wrongdoing and abuse through technology This book offers a comprehensive and integrative introduction to cybercrime It is the first to connect the disparate literature on the various types of cybercrime the investigation and detection of cybercrime and the role of digital information and the wider role of technology as a facilitator for social relationships between deviants and criminals It includes coverage of key theoretical and methodological perspectives computer hacking and digital piracy economic crime and online fraud pornography and online sex crime cyber bullying and cyber stalking cyber terrorism and extremism digital forensic investigation and its legal context cybercrime policy This book includes lively and engaging features such as discussion questions boxed examples of unique events and key figures in offending quotes from interviews with active offenders and a full glossary of terms It is supplemented by a companion website that includes further students exercises and instructor resources This text is essential reading for courses on cybercrime cyber deviancy digital forensics cybercrime investigation and the sociology of technology

Computer Forensics InfoSec Pro Guide David Cowen,2013-03-19 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

*Hacking Exposed Computer Forensics, Second Edition* Aaron Philipp,David Cowen,Chris Davis,2009-10-06 Provides the right mix of practical how to knowledge in a straightforward informative fashion that ties it all the complex pieces together with real world case studies Delivers the most valuable insight on the market The authors cut to the chase of what people must understand to effectively perform computer forensic investigations Brian H Karney COO AccessData Corporation The latest strategies for investigating cyber crime Identify and investigate computer criminals of all stripes with help from this fully updated real world resource Hacking Exposed Computer Forensics Second Edition explains how to construct a high tech forensic lab collect prosecutable evidence discover e mail and system file clues track wireless activity and recover obscured documents Learn how to re create an attacker s footsteps communicate with counsel prepare court ready reports and work through legal

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**Mobile Forensic Investigations: A Guide to Evidence Collection, Analysis, and Presentation, Second Edition** Lee Reiber, 2018-12-06 Master the tools and techniques of mobile forensic investigations Conduct mobile forensic investigations that are legal ethical and highly effective using the detailed information contained in this practical guide Mobile Forensic Investigations A Guide to Evidence Collection Analysis and Presentation Second Edition fully explains the latest tools and methods along with features examples and real world case studies Find out how to assemble a mobile forensics lab collect prosecutable evidence uncover hidden files and lock down the chain of custody This comprehensive resource shows not only how to collect and analyze mobile device data but also how to accurately document your investigations to deliver court ready documents Legally seize mobile devices USB drives SD cards and SIM cards Uncover sensitive data through both physical and logical techniques Properly package document transport and store evidence Work with free open source and commercial forensic software Perform a deep dive analysis of iOS Android and Windows Phone file systems Extract evidence from application cache and user storage files Extract and analyze data from IoT devices drones wearables and infotainment systems Build SQLite queries and Python scripts for mobile device file interrogation Prepare reports that will hold up to judicial and defense scrutiny

**Computer Forensics and Digital Investigation with EnCase Forensic v7** Suzanne Widup, 2014-05-30 Conduct repeatable defensible investigations with EnCase Forensic v7 Maximize the powerful tools and features of the industry leading digital investigation software Computer Forensics and Digital Investigation with EnCase Forensic v7 reveals step by step how to detect illicit activity capture and verify evidence recover deleted and encrypted artifacts prepare court ready documents and ensure legal and regulatory compliance The book illustrates each concept using downloadable evidence from the National Institute of Standards and Technology CFReDS Customizable sample procedures are included throughout this practical guide Install EnCase Forensic v7 and customize the user interface Prepare your investigation and set up a new case Collect and verify evidence from suspect computers and networks Use the EnCase Evidence Processor and Case Analyzer Uncover clues using keyword searches and filter results through GREP Work with bookmarks timelines hash sets and libraries Handle case closure final disposition and evidence destruction Carry out field investigations using EnCase Portable Learn to program in EnCase EnScript

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Brooks,2014-09-26 An all new exam guide for version 8 of the Computer Hacking Forensic Investigator CHFI exam from EC Council Get complete coverage of all the material included on version 8 of the EC Council s Computer Hacking Forensic Investigator exam from this comprehensive resource Written by an expert information security professional and educator this authoritative guide addresses the tools and techniques required to successfully conduct a computer forensic investigation You ll find learning objectives at the beginning of each chapter exam tips practice exam questions and in depth explanations Designed to help you pass this challenging exam this definitive volume also serves as an essential on the job reference CHFI Computer Hacking Forensic Investigator Certification All in One Exam Guide covers all exam topics including Computer forensics investigation process Setting up a computer forensics lab First responder procedures Search and seizure laws Collecting and transporting digital evidence Understanding hard disks and file systems Recovering deleted files and partitions Windows forensics Forensics investigations using the AccessData Forensic Toolkit FTK and Guidance Software s EnCase Forensic Network wireless and mobile forensics Investigating web attacks Preparing investigative reports Becoming an expert witness Electronic content includes 300 practice exam questions Test engine that provides full length practice exams and customized quizzes by chapter or by exam domain

**Mobile Forensic Investigations: A Guide to Evidence Collection, Analysis, and Presentation** Lee Reiber,2015-11-22 This in depth guide reveals the art of mobile forensics investigation with comprehensive coverage of the entire mobile forensics investigation lifecycle from evidence collection through advanced data analysis to reporting and presenting findings Mobile Forensics Investigation A Guide to Evidence Collection Analysis and Presentation leads examiners through the mobile forensics investigation process from isolation and seizure of devices to evidence extraction and analysis and finally through the process of documenting and presenting findings This book gives you not only the knowledge of how to use mobile forensics tools but also the understanding of how and what these tools are doing enabling you to present your findings and your processes in a court of law This holistic approach to mobile forensics featuring the technical alongside the legal aspects of the investigation process sets this book apart from the competition This timely guide is a much needed resource in today s mobile computing landscape Notes offer personal insights from the author s years in law enforcement Tips highlight useful mobile forensics software applications including open source applications that anyone can use free of charge Case studies document actual cases taken from submissions to the author s podcast series Photographs demonstrate proper legal protocols including seizure and storage of devices and screenshots showcase mobile forensics software at work Provides you with a holistic understanding of mobile forensics

**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 **Paradigm** ,2007 **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 *The Art of Memory Forensics* Michael Hale Ligh,Andrew Case,Jamie Levy,Aaron Walters,2014-07-28 Memory forensics provides cutting edge technology to help investigate digital attacks Memory forensics is the art of analyzing computer memory RAM to solve digital crimes As a follow up to the best seller Malware Analyst s Cookbook experts in the fields of malware security and digital forensics bring you a step by step guide to memory forensics now the most sought after skill in the digital forensics and incident response fields Beginning with introductory concepts and moving toward the advanced The Art of Memory Forensics Detecting Malware and Threats in Windows Linux and Mac Memory is based on a five day training course that the authors have presented to hundreds of students It is the only book on the market that focuses exclusively on memory forensics and how to deploy such techniques properly Discover memory forensics techniques How volatile memory analysis improves digital investigations Proper investigative steps for detecting stealth malware and advanced threats How to use free open source tools for conducting thorough memory forensics Ways to acquire memory from suspect systems in a forensically sound manner The next era of malware and security breaches are more sophisticated and targeted and the volatile memory of a computer is often overlooked or destroyed as part of the incident response process The Art of Memory Forensics explains the latest technological innovations in digital forensics to help bridge this gap It covers the most popular and recently



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