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# Digital Forensic Tools



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# Digital Forensics Open Source Tools

**Christian G. Meyer**



## **Digital Forensics Open Source Tools:**

**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

**Digital Forensics with Kali Linux** Shiva V. N. Parasram, 2023-04-14 Explore various digital forensics methodologies and frameworks and manage your cyber incidents effectively Purchase of the print or Kindle book includes a free PDF eBook Key Features Gain red blue and purple team tool insights and understand their link with digital forensics Perform DFIR investigation and get familiarized with Autopsy 4 Explore network discovery and forensics tools such as Nmap Wireshark Xplico and Shodan Book Description Kali Linux is a Linux based distribution that s widely used for penetration testing and digital forensics This third edition is updated with real world examples and detailed labs to help you take your investigation skills to the next level using powerful tools This new edition will help you explore modern techniques for analysis extraction and reporting using advanced tools such as FTK Imager Hex Editor and Axiom You ll cover the basics and advanced areas of digital forensics within the world of modern forensics while delving into the domain of operating systems As you advance through the chapters you ll explore various formats for file storage including secret hiding places unseen by the end user or even the operating system You ll also discover how to install Windows Emulator Autopsy 4 in Kali and how to use Nmap and NetDiscover to find device types and hosts on a network along with creating forensic images of data and maintaining integrity using hashing tools Finally you ll cover advanced topics such as autopsies and acquiring investigation data from networks memory and operating systems By the end of this digital forensics book you ll have gained hands on experience in implementing all the pillars of digital forensics acquisition extraction analysis and presentation all using Kali Linux s cutting edge tools What you will learn Install Kali Linux on Raspberry Pi 4 and various other platforms Run Windows applications in Kali Linux using Windows Emulator as Wine Recognize the importance of RAM file systems data and cache in DFIR Perform file recovery data carving and extraction using Magic Rescue Get to grips with the latest Volatility 3 framework and analyze the memory dump Explore the various ransomware types and discover artifacts for DFIR investigation Perform full DFIR automated analysis with Autopsy 4 Become familiar with network forensic analysis tools NFATs Who this book is for This book is for students forensic analysts digital

forensics investigators and incident responders security analysts and administrators penetration testers or anyone interested in enhancing their forensics abilities using the latest version of Kali Linux along with powerful automated analysis tools Basic knowledge of operating systems computer components and installation processes will help you gain a better understanding of the concepts covered

*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

*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

*Advances in Digital Forensics* Mark Pollitt, Sujeet Sheno, 2006-03-28 Digital forensics deals with the acquisition preservation examination analysis and presentation of electronic evidence Networked computing wireless communications and portable electronic devices have expanded the role of digital forensics beyond traditional computer crime investigations Practically every crime now involves some aspect of digital evidence digital forensics provides

the techniques and tools to articulate this evidence Digital forensics also has myriad intelligence applications Furthermore it has a vital role in information assurance investigations of security breaches yield valuable information that can be used to design more secure systems Advances in Digital Forensics describes original research results and innovative applications in the emerging discipline of digital forensics In addition it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations The areas of coverage include Themes and Issues in Digital Forensics Investigative Techniques Network Forensics Portable Electronic Device Forensics Linux and File System Forensics Applications and Techniques This book is the first volume of a new series produced by the International Federation for Information Processing IFIP Working Group 11 9 on Digital Forensics an international community of scientists engineers and practitioners dedicated to advancing the state of the art of research and practice in digital forensics The book contains a selection of twenty five edited papers from the First Annual IFIP WG 11 9 Conference on Digital Forensics held at the National Center for Forensic Science Orlando Florida USA in February 2005 Advances in Digital Forensics is an important resource for researchers faculty members and graduate students as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities Mark Pollitt is President of Digital Evidence Professional Services Inc Ellicott City Maryland USA Mr Pollitt who is retired from the Federal Bureau of Investigation FBI served as the Chief of the FBI s Computer Analysis Response Team and Director of the Regional Computer Forensic Laboratory National Program Sujeet Shenoi is the F P Walter Professor of Computer Science and a principal with the Center for Information Security at the University of Tulsa Tulsa Oklahoma USA For more information about the 300 other books in the IFIP series please visit [www.springeronline.com](http://www.springeronline.com) For more information about IFIP please visit [www.ifip.org](http://www.ifip.org)

**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 **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

**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 and organizational challenges Case studies straight from today s headlines cover IP theft mortgage fraud employee misconduct securities fraud embezzlement organized crime and consumer fraud cases Effectively uncover capture and prepare evidence for investigation Store and process collected data in a highly secure digital forensic lab Restore deleted documents partitions user activities and file systems Analyze evidence gathered from Windows Linux and Macintosh systems Use the latest Web and client based e mail tools to extract relevant artifacts Overcome the hacker s anti forensic encryption and obscurity techniques Unlock clues stored in cell phones PDAs and Windows Mobile devices Prepare legal documents that will hold up to judicial and defense scrutiny

**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

**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 [Hi Tech and Hi Touch in Developing Nations](#) ,2010 [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

**Open Source Software for Digital Forensics** Ewa Huebner,Stefano Zanero,2010-09-13 *File System Forensic Analysis* Brian Carrier,2005 Moves beyond the basics and shows how to use

tools to recover and analyse forensic evidence      *Hacking Exposed Computer Forensics* Chris Davis,David Cowen,Aaron Philipp,2005 Whether retracing the steps of a security breach or tracking down high tech crime this complete package shows how to be prepared with both the necessary tools and expert knowledge that ultimately helps the forensics stand up in court The bonus CD ROM contains the latest version of each of the forensic tools covered in the book and evidence files for real time investigation      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      *Incident Response & Computer Forensics, 2nd Ed.* Kevin Mandia,Chris Prosise,2003-07-17 Written by FBI insiders this updated best seller offers a look at the legal procedural and technical steps of incident response and computer forensics Including new chapters on forensic analysis and remediation and real world case studies this revealing book shows how to counteract and conquer today s hack attacks      *Anti-Hacker Tool Kit, Fourth Edition* Mike Shema,2014-02-07 Defend against today s most devious attacks Fully revised to include cutting edge new tools for your security arsenal Anti Hacker Tool Kit Fourth Edition reveals how to protect your network from a wide range of nefarious exploits You ll get detailed explanations of each tool s function along with best practices for configuration and implementation illustrated by code samples and up to date real world case studies This new edition includes references to short videos that demonstrate several of the tools in action Organized by category this practical guide makes it easy to quickly find the solution you need to safeguard your system from the latest most devastating hacks Demonstrates how to configure and use these and other essential tools Virtual machines and emulators Oracle VirtualBox VMware Player VirtualPC Parallels and open source options Vulnerability scanners OpenVAS Metasploit File system monitors AIDE Samhain Tripwire Windows auditing tools Nbtstat Cain MBSA PsTools Command line networking tools Netcat Cryptcat Ncat Socat Port forwarders and redirectors SSH Datapipe FPipe WinRelay Port scanners Nmap THC Amap Network sniffers and injectors WinDump Wireshark ettercap hping kismet aircrack snort Network defenses firewalls packet

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**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 [CHFI Computer Hacking Forensic Investigator Certification All-in-One Exam Guide](#) Charles L. 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

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