



"This is the foundation book for file system analysis. Brian Carrier has done what needed to be done for this field."

—from the Foreword by **Mark M. Pollitt**, President, Digital Evidence Professional Services, Inc., and Retired Director of the FBI's Regional Computer Forensic Laboratory Program

# FILE SYSTEM FORENSIC ANALYSIS



**BRIAN CARRIER**

# Brian Carrier File System Forensic Analysis

**Ying Liu**



## **Brian Carrier File System Forensic Analysis:**

*File System Forensic Analysis* Brian Carrier, 2005 Moves beyond the basics and shows how to use tools to recover and analyse forensic evidence      **File System Forensic Analysis** Brian Carrier, 2005-03-17 The Definitive Guide to File System Analysis Key Concepts and Hands on Techniques Most digital evidence is stored within the computer's file system but understanding how file systems work is one of the most technically challenging concepts for a digital investigator because there exists little documentation Now security expert Brian Carrier has written the definitive reference for everyone who wants to understand and be able to testify about how file system analysis is performed Carrier begins with an overview of investigation and computer foundations and then gives an authoritative comprehensive and illustrated overview of contemporary volume and file systems Crucial information for discovering hidden evidence recovering deleted data and validating your tools Along the way he describes data structures analyzes example disk images provides advanced investigation scenarios and uses today's most valuable open source file system analysis tools including tools he personally developed Coverage includes Preserving the digital crime scene and duplicating hard disks for dead analysis Identifying hidden data on a disk's Host Protected Area HPA Reading source data Direct versus BIOS access dead versus live acquisition error handling and more Analyzing DOS Apple and GPT partitions BSD disk labels and Sun Volume Table of Contents using key concepts data structures and specific techniques Analyzing the contents of multiple disk volumes such as RAID and disk spanning Analyzing FAT NTFS Ext2 Ext3 UFS1 and UFS2 file systems using key concepts data structures and specific techniques Finding evidence File metadata recovery of deleted files data hiding locations and more Using The Sleuth Kit TSK Autopsy Forensic Browser and related open source tools When it comes to file system analysis no other book offers this much detail or expertise Whether you're a digital forensics specialist incident response team member law enforcement officer corporate security specialist or auditor this book will become an indispensable resource for forensic investigations no matter what analysis tools you use      *File System Forensics* Fergus Toolan, 2025-04-01 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 **Windows Forensic Analysis Toolkit** Harlan Carvey,2014-03-11 Harlan Carvey has updated Windows Forensic Analysis Toolkit now in its fourth edition to cover Windows 8 systems The primary focus of this edition is on analyzing Windows 8 systems and processes using free and open source tools The book covers live response file analysis malware detection timeline and much more Harlan Carvey presents real life experiences from the trenches making the material realistic and showing the why behind the how The companion and toolkit materials are hosted online This material consists of electronic printable checklists cheat sheets free custom tools and walk through demos This edition complements Windows Forensic Analysis Toolkit Second Edition which focuses primarily on XP and Windows Forensic Analysis Toolkit Third Edition which focuses primarily on Windows 7 This new fourth edition provides expanded coverage of many topics beyond Windows 8 as well including new cradle to grave case examples USB device analysis hacking and intrusion cases and how would I do this from Harlan s personal case files and questions he has received from readers The fourth edition also includes an all new chapter on reporting Complete coverage and examples of Windows 8 systems Contains lessons from the field case studies and war stories Companion online toolkit material including electronic printable checklists cheat sheets custom tools and walk throughs **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 **Practical Linux Forensics** Bruce Nikkel,2021-12-21 A resource to help forensic investigators locate analyze and understand digital evidence found on modern Linux systems after a crime security incident or cyber attack Practical Linux Forensics dives into the

technical details of analyzing postmortem forensic images of Linux systems which have been misused abused or the target of malicious attacks It helps forensic investigators locate and analyze digital evidence found on Linux desktops servers and IoT devices Throughout the book you learn how to identify digital artifacts which may be of interest to an investigation draw logical conclusions and reconstruct past activity from incidents You ll learn how Linux works from a digital forensics and investigation perspective and how to interpret evidence from Linux environments The techniques shown are intended to be independent of the forensic analysis platforms and tools used Learn how to Extract evidence from storage devices and analyze partition tables volume managers popular Linux filesystems Ext4 Btrfs and Xfs and encryption Investigate evidence from Linux logs including traditional syslog the systemd journal kernel and audit logs and logs from daemons and applications Reconstruct the Linux startup process from boot loaders UEFI and Grub and kernel initialization to systemd unit files and targets leading up to a graphical login Perform analysis of power temperature and the physical environment of a Linux machine and find evidence of sleep hibernation shutdowns reboots and crashes Examine installed software including distro installers package formats and package management systems from Debian Fedora SUSE Arch and other distros Perform analysis of time and Locale settings internationalization including language and keyboard settings and geolocation on a Linux system Reconstruct user login sessions shell X11 and Wayland desktops Gnome KDE and others and analyze keyrings wallets trash cans clipboards thumbnails recent files and other desktop artifacts Analyze network configuration including interfaces addresses network managers DNS wireless artifacts Wi Fi Bluetooth WWAN VPNs including WireGuard firewalls and proxy settings Identify traces of attached peripheral devices PCI USB Thunderbolt Bluetooth including external storage cameras and mobiles and reconstruct printing and scanning activity

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**Special Issue of Ubiquitous Computing and Communication Journal - Applied Computing , Incident Response & Computer Forensics, Third Edition** Jason T. Luttgens, Matthew Pepe, Kevin Mandia, 2014-08-01 The definitive guide to incident response updated for the first time in a decade Thoroughly revised to cover the latest and most effective tools and techniques Incident Response Computer Forensics Third Edition arms you with the information you need to get your organization out of trouble when data breaches occur This practical resource covers the entire lifecycle of incident response including preparation data collection data analysis and remediation Real world case studies reveal the methods behind and remediation strategies for today s most insidious attacks Architect an infrastructure that allows for methodical investigation and remediation Develop leads identify indicators of compromise and determine incident scope Collect and preserve live data Perform forensic duplication Analyze data from networks enterprise services and applications Investigate Windows and Mac OS X systems Perform malware triage Write detailed incident response reports Create and implement comprehensive remediation plans [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

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**Characteristics, Impact, and Tolerance of Partial Disk Failures** Lakshmi Narayanan Bairavasundaram, 2008

**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

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## **Table of Contents Brian Carrier File System Forensic Analysis**

1. Understanding the eBook Brian Carrier File System Forensic Analysis
  - The Rise of Digital Reading Brian Carrier File System Forensic Analysis
  - Advantages of eBooks Over Traditional Books
2. Identifying Brian Carrier File System Forensic Analysis
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Brian Carrier File System Forensic Analysis
  - User-Friendly Interface
4. Exploring eBook Recommendations from Brian Carrier File System Forensic Analysis
  - Personalized Recommendations
  - Brian Carrier File System Forensic Analysis User Reviews and Ratings
  - Brian Carrier File System Forensic Analysis and Bestseller Lists
5. Accessing Brian Carrier File System Forensic Analysis Free and Paid eBooks

- Brian Carrier File System Forensic Analysis Public Domain eBooks
- Brian Carrier File System Forensic Analysis eBook Subscription Services
- Brian Carrier File System Forensic Analysis Budget-Friendly Options
- 6. Navigating Brian Carrier File System Forensic Analysis eBook Formats
  - ePub, PDF, MOBI, and More
  - Brian Carrier File System Forensic Analysis Compatibility with Devices
  - Brian Carrier File System Forensic Analysis Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Brian Carrier File System Forensic Analysis
  - Highlighting and Note-Taking Brian Carrier File System Forensic Analysis
  - Interactive Elements Brian Carrier File System Forensic Analysis
- 8. Staying Engaged with Brian Carrier File System Forensic Analysis
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Brian Carrier File System Forensic Analysis
- 9. Balancing eBooks and Physical Books Brian Carrier File System Forensic Analysis
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Brian Carrier File System Forensic Analysis
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Brian Carrier File System Forensic Analysis
  - Setting Reading Goals Brian Carrier File System Forensic Analysis
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Brian Carrier File System Forensic Analysis
  - Fact-Checking eBook Content of Brian Carrier File System Forensic Analysis
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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