

"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

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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. Lutgens, 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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