"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

Harlan Carvey,Cory Altheide

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,2025-02-17 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 **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 *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 **Introductory Computer Forensics** Xiaodong Lin,2018-11-10 This textbook provides an introduction to digital forensics a rapidly evolving field for solving crimes Beginning with the basic concepts of computer forensics each of the book s 21 chapters focuses on a particular forensic topic composed of two parts background knowledge and hands on experience through practice exercises Each theoretical or background section concludes with a series of review questions which are prepared to test students understanding of the materials while the practice exercises are intended to afford students the opportunity to apply the concepts introduced in the section on background knowledge This experience oriented textbook is meant to assist students in gaining a better understanding of digital forensics through hands on practice in collecting and preserving digital evidence by completing various exercises With 20 student directed inquiry based practice exercises students will better understand digital forensic concepts and learn digital forensic investigation techniques This textbook is intended for upper undergraduate and graduate level students who are taking digital forensic related courses or working in digital forensics research It can also be used by digital forensics practitioners IT security analysts and security engineers working in the IT security industry particular IT professionals responsible for digital investigation and incident handling or researchers working in these related fields as a

reference book Mobile Forensics – The File Format Handbook Christian Hummert,Dirk Pawlaszczyk,2022-05-03 This open access book summarizes knowledge about several file systems and file formats commonly used in mobile devices In addition to the fundamental description of the formats there are hints about the forensic value of possible artefacts along with an outline of tools that can decode the relevant data The book is organized into two distinct parts Part I describes several different file systems that are commonly used in mobile devices APFS is the file system that is used in all modern Apple devices including iPhones iPads and even Apple Computers like the MacBook series Ext4 is very common in Android devices and is the successor of the Ext2 and Ext3 file systems that were commonly used on Linux based computers The Flash Friendly File System F2FS is a Linux system designed explicitly for NAND Flash memory common in removable storage devices and mobile devices which Samsung Electronics developed in 2012 The QNX6 file system is present in Smartphones delivered by Blackberry e g devices that are using Blackberry 10 and modern vehicle infotainment systems that use QNX as their operating system Part II describes five different file formats that are commonly used on mobile devices SQLite is nearly omnipresent in mobile devices with an overwhelming majority of all mobile applications storing their data in such databases The second leading file format in the mobile world are Property Lists which are predominantly found on Apple devices Java Serialization is a popular technique for storing object states in the Java programming language Mobile application app developers very often resort to this technique to make their application state persistent The Realm database format has emerged over recent years as a possible successor to the now ageing SQLite format and has begun to appear as part of some modern applications on mobile devices Protocol Buffers provide a format for taking compiled data and serializing it by turning it into bytes represented in decimal values which is a technique commonly used in mobile devices The aim of this book is to act as a knowledge base and reference guide for digital forensic practitioners who need knowledge about a specific file system or file format It is also hoped to provide useful insight and knowledge for students or other aspiring professionals who want to work within the field of digital forensics The book is written with the assumption that the reader will have some existing knowledge and understanding about computers mobile devices file systems and file formats **Data Recovery Techniques for Computer Forensics** Alex Khang,2025-04-24 Data Recovery Techniques for Computer Forensics is a practical and comprehensive reference designed for professionals students and researchers in digital forensics data recovery and information security This handbook provides clear structured guidance on essential principles and practical techniques for recovering lost or compromised digital data in forensic investigations The book begins with the fundamentals of data recovery and examines the major causes of data loss including software errors and hardware failures It then explores contemporary data protection technologies and delves into the structure and organization of hard disks laying a solid foundation for understanding data storage systems Specialized chapters cover the recovery and management of various file systems including FAT16 FAT32 and NTFS along with methods for partition recovery and an introduction to dynamic disk

management The final section introduces essential data security software used to protect and recover digital information Key Features Covers basic and applied data recovery concepts for forensic applications Explains causes of data loss and modern data protection technologies Detailed chapters on hard disk structure data organization and partition recovery Practical guidance on managing and recovering FAT16 FAT32 and NTFS file systems Introduces dynamic disk configurations and essential data security tools **Digital Forensics in the Era of Artificial Intelligence** Nour Moustafa,2022-07-18 Digital forensics plays a crucial role in identifying analysing and presenting cyber threats as evidence in a court of law Artificial intelligence particularly machine learning and deep learning enables automation of the digital investigation process This book provides an in depth look at the fundamental and advanced methods in digital forensics It also discusses how machine learning and deep learning algorithms can be used to detect and investigate cybercrimes This book demonstrates digital forensics and cyber investigating techniques with real world applications It examines hard disk analytics and style architectures including Master Boot Record and GUID Partition Table as part of the investigative process It also covers cyberattack analysis in Windows Linux and network systems using virtual machines in real world scenarios Digital Forensics in the Era of Artificial Intelligence will be helpful for those interested in digital forensics and using machine learning techniques in the investigation of cyberattacks and the detection of evidence in cybercrimes

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