

"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

File System Forensic Analysis

**Alan E. Brill, Fletcher N.
Baldwin, Robert John Munro**



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

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

Special Issue of Ubiquitous Computing and Communication Journal - Applied Computing , 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 released versions of Windows Linux and Mac including both the 32 and 64 bit editions

Incident Response

& Computer Forensics, 2nd Ed. Kevin Mandia,Chris Prorise,2003-07-15 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

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

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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

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

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Principles of Computer Security, Fourth Edition Wm. Arthur Conklin,Greg White,Chuck Cothren,Roger L. Davis,Dwayne Williams,2016-01-01 Written by leading information security educators this fully revised full color computer security textbook covers CompTIA s fastest growing credential CompTIA Security Principles of Computer Security Fourth Edition is a student tested introductory computer security textbook that provides comprehensive coverage of computer and network security fundamentals in an engaging and dynamic full color design In addition to teaching key computer security

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Operating Systems William Stallings,2009 For a one semester undergraduate course in operating systems for computer science computer engineering and electrical engineering majors Winner of the 2009 Textbook Excellence Award from the Text and Academic Authors Association TAA Operating Systems Internals and Design Principles is a comprehensive and unified introduction to operating systems By using several innovative tools Stallings makes it possible to understand critical core concepts that can be fundamentally challenging The new edition includes the implementation of web based animations to aid visual learners At key points in the book students are directed to view an animation and then are provided with assignments to alter the animation input and analyze the results The concepts are then enhanced and supported by end of chapter case studies of UNIX Linux and Windows Vista These provide students with a solid understanding of the key mechanisms of modern operating systems and the types of design tradeoffs and decisions involved in OS design Because they are embedded into the text as end of chapter material students are able to apply them right at the point of discussion This approach is equally useful as a basic reference and as an up to date survey of the state of the art

Cybercrime & Security Alan E. Brill,Fletcher N. Baldwin,Robert John Munro,1998 Provides detailed coverage of a range of issues including encryption government surveillance privacy enhancing technologies online money laundering and pornography attacks on commerce crimes facilitated by information technology terrorism and obstacles to global cooperation

Electronics, Automation and Engineering of Power Systems Rong Qing Liang,2015-02-25 Selected peer reviewed papers

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