

Building A Digital Forensic Laboratory Establishing And Managin

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Practical Forensic Imaging Addison-Wesley Professional

Contemporary Digital Forensic Investigations of Cloud and Mobile Applications comprehensively discusses the implications of cloud (storage) services and mobile applications on digital forensic investigations. The book provides both digital forensic practitioners and researchers with an up-to-date and advanced knowledge of collecting and preserving electronic evidence from different types of cloud services, such as digital remnants of cloud applications accessed through mobile devices. This is the first book that covers the investigation of a wide range of cloud services. Dr. Kim-Kwang Raymond Choo and Dr. Ali Dehghantanha are leading researchers in cloud and mobile security and forensics, having organized research, led research, and been published widely in the field. Users will gain a deep overview of seminal research in the field while also identifying prospective future research topics and open challenges. Presents the most current, leading edge research on cloud and mobile application forensics, featuring a panel of top experts in the field Introduces the first

book to provide an in-depth overview of the issues surrounding digital forensic investigations in cloud and associated mobile apps Covers key technical topics and provides readers with a complete understanding of the most current research findings Includes discussions on future research directions and challenges

Handbook for Facility Planning, Design, Construction, and Moving Syngress

Linux Forensics is the most comprehensive and up-to-date resource for those wishing to quickly and efficiently perform forensicon Linux systems. It is also a great asset for anyone that would like to better understand Linux internals. Linux Forensics will guide you step by step through the process of investigating a computer running Linux. Everything you need to know from the moment you receive the call from someone who thinks they have been attacked until the final report is written is covered in this book. All of the tools discussed in this book are free and most are also open source. Dr. Philip Polstra shows how to leverage numerous tools such as Python, shell scripting, and MySQL to quickly, easily, and accurately analyze Linux systems. While readers will have a strong grasp of Python and shell scripting by the time they complete this book, no priorknowledge of either of these scripting languages is assumed. Linux Forensics begins by showing you how to determine if there was an incident with minimally invasive techniques. Once it appears likely that an incident has occurred, Dr. Polstra shows you how to collect data from a live system before shutting it down for the creation of filesystem images. Linux Forensics contains extensive coverage of

Linux ext2, ext3, and ext4 filesystems. A large collection of Python and shell scripts for creating, mounting, and analyzing filesystem images are presented in this book. Dr. Polstra introduces readers to the exciting new field of memory analysis using the Volatility framework. Discussions of advanced attacks and malware analysis round out the book. Book Highlights 370 pages in large, easy-to-read 8.5 x 11 inch format Over 9000 lines of Python scripts with explanations Over 800 lines of shell scripts with explanations A 102 page chapter containing up-to-date information on the ext4 filesystem Two scenarios described in detail with images available from the book website All scripts and other support files are available from the book website Chapter Contents First Steps General Principles Phases of Investigation High-level Process Building a Toolkit Determining If There Was an Incident Opening a Case Talking to Users Documenation Mounting Known-good Binaries Minimizing Disturbance to the Subject Automation With Scripting Live Analysis Getting Metadata Using Spreadsheets Getting Command Histories Getting Logs Using Hashes Dumping RAM Creating Images Shutting Down the System Image Formats DD DCFLDD Write Blocking Imaging Virtual Machines Imaging Physical Drives Mounting Images Master Boot Record Based Partions GUID Partition Tables Mounting Partitions In Linux Automating With Python Analyzing Mounted Images Getting Timestamps Using LibreOffice Using MySQL Creating Timelines Extended Filesystems Basics Superblocks Features Using Python Finding Things That Are Out Of Place Inodes Journaling Memory Analysis Volatility Creating Profiles Linux Commands Dealing With More Advanced

Attackers Malware Is It Malware?
 Malware Analysis Tools Static Analysis
 Dynamic Analysis Obfuscation The Road
 Ahead Learning More Communities
 Conferences Certifications

All Lab, No Lecture No Starch Press

"Digital Evidence and Computer Crime" provides the knowledge necessary to uncover and use digital evidence effectively in any kind of investigation. This completely updated edition provides the introductory materials that new students require, and also expands on the material presented in previous editions to help students develop these skills.

Computer Forensics No Starch Press

The Basics of Digital Forensics provides a foundation for people new to the digital forensics field. This book teaches you how to conduct examinations by discussing what digital forensics is, the methodologies used, key tactical concepts, and the tools needed to perform examinations. Details on digital forensics for computers, networks, cell phones, GPS, the cloud and the Internet are discussed. Also, learn how to collect evidence, document the scene, and how deleted data can be recovered. The new Second Edition of this book provides you with completely up-to-date real-world examples and all the key technologies used in digital forensics, as well as new coverage of network intrusion response, how hard drives are organized, and electronic discovery. You'll also learn how to incorporate quality assurance into an investigation, how to prioritize evidence items to examine (triage), case processing, and what goes into making an expert witness. The Second Edition also features expanded resources and references, including online resources that keep you current, sample legal

documents, and suggested further reading. Learn what Digital Forensics entails Build a toolkit and prepare an investigative plan Understand the common artifacts to look for in an exam Second Edition features all-new coverage of hard drives, triage, network intrusion response, and electronic discovery; as well as updated case studies, expert interviews, and expanded resources and references

File System Forensic Analysis
 National Academies Press

Given our increasing dependency on computing technology in daily business processes, and the growing opportunity to use engineering technologies to engage in illegal, unauthorized, and unethical acts aimed at corporate infrastructure, every organization is at risk. Cyber Forensics: A Field Manual for Collecting, Examining, and Preserving Evidence o

Linux Forensics Syngress

TechnoSecurity's Guide to E-Discovery and Digital Forensics provides IT security professionals with the information (hardware, software, and procedural requirements) needed to create, manage and sustain a digital forensics lab and investigative team that can accurately and effectively analyze forensic data and recover digital evidence, while preserving the integrity of the electronic evidence for discovery and trial. Internationally known experts in computer forensics share their years of experience at the forefront of digital forensics Bonus chapters on how to build your own Forensics Lab 50% discount to the upcoming Techno Forensics conference for everyone who purchases a book

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A Guide for Forensic Science Laboratories, Educational Institutions, and Students Maker Media, Inc.

The Criminalistics Laboratory Manual: The Basics of Forensic Investigation provides students with little to no prior knowledge of forensic science with a practical crime scene processing experience. The manual starts with an original crime scene narrative setting up the crime students are to solve. This narrative is picked up in each of the forensic science lab activities, tying each forensic discipline together to show the integrated workings of a real crime lab. After the completion of all of the exercises, the student will be able to solve the homicide based on forensic evidence.

Education and Training in Forensic Science

 Syngress

The definitive text for students of digital forensics, as well as professionals looking to deepen their understanding of

an increasingly critical field. Written by faculty members and associates of the world-renowned Norwegian Information Security Laboratory (NisLab) at the Norwegian University of Science and Technology (NTNU), this textbook takes a scientific approach to digital forensics ideally suited for university courses in digital forensics and information security. Each chapter was written by an accomplished expert in his or her field, many of them with extensive experience in law enforcement and industry. The author team comprises experts in digital forensics, cybercrime law, information security and related areas. Digital forensics is a key competency in meeting the growing risks of cybercrime, as well as for criminal investigation generally. Considering the astonishing pace at which new information technology – and new ways of exploiting information technology – is brought on line, researchers and practitioners regularly face new technical challenges, forcing them to continuously upgrade their investigatory skills. Designed to prepare the next generation to rise to those challenges, the material contained in Digital Forensics has been tested and refined by use in both graduate and undergraduate programs and subjected to formal evaluations for more than ten years. Encompasses all aspects of the field, including methodological, scientific, technical and legal matters. Based on the latest research, it provides novel insights for students, including an informed look at the future of digital forensics. Includes test questions from actual exam sets, multiple choice questions suitable for online use and numerous visuals, illustrations and case example images. Features real-world examples and scenarios, including court cases and technical problems, as well as

a rich library of academic references and references to online media. Digital Forensics is an excellent introductory text for programs in computer science and computer engineering and for master degree programs in military and police education. It is also a valuable reference for legal practitioners, police officers, investigators, and forensic practitioners seeking to gain a deeper understanding of digital forensics and cybercrime.

Evidence Collection and Management CreateSpace

Maximize the power of Windows Forensics to perform highly effective forensic investigations. About This Book: Prepare and perform investigations using powerful tools for Windows, collect and validate evidence from suspects and computers and uncover clues that are otherwise difficult. Packed with powerful recipes to perform highly effective field investigations. Who This Book Is For: If you are a forensic analyst or incident response professional who wants to perform computer forensics investigations for the Windows platform and expand your tool kit, then this book is for you. What You Will Learn: Understand the challenges of acquiring evidence from Windows systems and overcome them. Acquire and analyze Windows memory and drive data with modern forensic tools. Extract and analyze data from Windows file systems, shadow copies and the registry. Understand the main Windows system artifacts and learn how to parse data from them using forensic tools. See a forensic analysis of common web browsers, mailboxes, and instant messenger services. Discover how Windows 10 differs from previous versions and how to overcome the

specific challenges it presents Create a graphical timeline and visualize data, which can then be incorporated into the final report Troubleshoot issues that arise while performing Windows forensics In Detail Windows Forensics Cookbook provides recipes to overcome forensic challenges and helps you carry out effective investigations easily on a Windows platform. You will begin with a refresher on digital forensics and evidence acquisition, which will help you to understand the challenges faced while acquiring evidence from Windows systems. Next you will learn to acquire Windows memory data and analyze Windows systems with modern forensic tools. We also cover some more in-depth elements of forensic analysis, such as how to analyze data from Windows system artifacts, parse data from the most commonly-used web browsers and email services, and effectively report on digital forensic investigations. You will see how Windows 10 is different from previous versions and how you can overcome the specific challenges it brings. Finally, you will learn to troubleshoot issues that arise while performing digital forensic investigations. By the end of the book, you will be able to carry out forensics investigations efficiently. Style and approach This practical guide filled with hands-on, actionable recipes to detect, capture, and recover digital artifacts and deliver impeccable forensic outcomes.

Illustrated Guide to Home Forensic Science Experiments South End Press

New technologies, including DNA and digital databases that can compare known and questioned exemplars, have transformed forensic science and greatly impacted the investigative process. They have also made the work more

complicated. Obtaining proper resources to provide quality and timely forensic services is frequently a challenge for forensic managers, who are often promoted from casework duties and must now learn a whole new set of leadership skills. The interdisciplinary and scientific nature of laboratories requires strong leadership ability to manage complex issues, often in adversarial settings. *Forensic Laboratory Management: Applying Business Principles* provides laboratory managers with business tools that apply the best science to the best evidence in a manner that increases the efficiency and effectiveness of their management decision making. The authors present a performance model with seven recommendations to implement, illustrating how forensic managers can serve as leaders and strategically improve the operation and management in scientific laboratories. Topics include: Key business metrics and cost-benefit analyses Ethical lapses: why they occur, possible motives, and how problems can be prevented Forensic training, education, and institutes ISO/IEC 17025 accreditation implementation The book includes case studies simulating a working laboratory in which readers can apply business tools with actual data reinforcing discussion concepts. Each chapter also includes a brief review of current literature of the best management theories and practice. The downloadable resources supply two mock trial transcripts and associated case files along with PowerPoint® slides from Dr. George Carmody's workshop on Forensic DNA Statistics and Dr. Doug Lucas's presentation on ethics.

A Field Manual for Collecting, Examining, and Preserving Evidence

of Computer Crimes Packt Publishing Ltd

This is the first digital forensics book that covers the complete lifecycle of digital evidence and the chain of custody. This comprehensive handbook includes international procedures, best practices, compliance, and a companion web site with downloadable forms. Written by world-renowned digital forensics experts, this book is a must for any digital forensics lab. It provides anyone who handles digital evidence with a guide to proper procedure throughout the chain of custody--from incident response through analysis in the lab. A step-by-step guide to designing, building and using a digital forensics lab A comprehensive guide for all roles in a digital forensics laboratory Based on international standards and certifications

A Practical Guide to Digital Forensics Investigations Routledge

Forensic image acquisition is an important part of postmortem incident response and evidence collection. Digital forensic investigators acquire, preserve, and manage digital evidence to support civil and criminal cases; examine organizational policy violations; resolve disputes; and analyze cyber attacks. Practical Forensic Imaging takes a detailed look at how to secure and manage digital evidence using Linux-based command line tools. This essential guide walks you through the entire forensic acquisition process and covers a wide range of practical scenarios and situations related to the imaging of storage media. You'll learn how to:

- Perform forensic imaging of magnetic hard disks, SSDs and flash drives, optical discs, magnetic tapes, and legacy technologies
- Protect attached evidence media from accidental modification

- Manage large forensic image files, storage capacity, image format conversion, compression, splitting, duplication, secure transfer and storage, and secure disposal
- Preserve and verify evidence integrity with cryptographic and piecewise hashing, public key signatures, and RFC-3161 timestamping
- Work with newer drive and interface technologies like NVME, SATA Express, 4K-native sector drives, SSHDs, SAS, UASP/USB3x, and Thunderbolt
- Manage drive security such as ATA passwords; encrypted thumb drives; Opal self-encrypting drives; OS-encrypted drives using BitLocker, FileVault, and TrueCrypt; and others
- Acquire usable images from more complex or challenging situations such as RAID systems, virtual machine images, and damaged media

With its unique focus on digital forensic acquisition and evidence preservation, Practical Forensic Imaging is a valuable resource for experienced digital forensic investigators wanting to advance their Linux skills and experienced Linux administrators wanting to learn digital forensics. This is a must-have reference for every digital forensics lab.

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[Securing Digital Evidence with Linux Tools](#) CRC Press

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational

structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

The Best Damn Cybercrime and Digital Forensics Book Period Packt Publishing Ltd

Have you ever wondered whether the forensic science you've seen on TV is anything like the real thing? There's no better way to find out than to roll up your sleeves and do it yourself. This full-color book offers advice for setting up an inexpensive home lab, and includes more than 50 hands-on lab sessions that deal with forensic science experiments in biology, chemistry, and physics. You'll learn the practical skills and fundamental knowledge needed to pursue forensics as a lifelong hobby—or even a career. The forensic science procedures in this book are not merely educational, they're the real deal. Each chapter includes one or more lab sessions devoted to a particular topic. You'll find a complete list of equipment and chemicals you need for each session. Analyze soil, hair, and fibers Match glass and plastic specimens Develop latent fingerprints and reveal blood traces Conduct drug and toxicology tests Analyze gunshot and explosives residues Detect forgeries and fakes Analyze impressions, such as tool marks and footprints Match pollen and diatom samples Extract, isolate, and visualize DNA samples Through their company, The Home Scientist, LLC (thehomescientist.com/forensics), the

authors also offer inexpensive custom kits that provide specialized equipment and supplies you'll need to complete the experiments. Add a microscope and some common household items and you're good to go.

Meeting the Requirements of ISO 17020, ISO 17025, ISO 27001 and Best Practice Requirements National Academies Press

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

X-Ways Forensics Practitioner's Guide Newnes

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.

Digital Forensic Evidence

Examination CreateSpace

'This extraordinarily lucid book demonstrates that women from all walks of life get the short end of the stick because of their gender. From welfare mothers to corporate executives, Albelda and Tilly show and why the powers-that-be benefit from scapegoating and marginalizing women.' Professor Mimi Abramowitz, author, *Regulating the Lives of Women* A cogent analysis of the economic and social realities for women in the United States, across class lines. In an age when the right wing manipulates the dialogue around women's issues to separate middle- and upper-class women from their poorer sisters this book's facts, figures, and analysis provide a much needed antidote.

Building a Digital Forensic Laboratory Building a Digital Forensic Laboratory Establishing and Managing a Successful Facility

In November 1996, the National Institute of Justice (NIJ), the National Institute of Standards and Technology's (NIST) Law Enforcement Standards Office (OLES), and the American Society of Crime Laboratory Directors held a joint workshop to develop guidelines for planning, designing, constructing, and moving into crime laboratories. The workshop's by-product, *Forensic Laboratories: Handbook for Facility Planning, Design, Construction, and Moving*, was published in April 1998 and was still in use up to the publication of this update. Over the 15 years since its original publication, however, significant changes have developed within the design and construction industry, specifically in regards to its focus on energy and sustainability. Additionally, dramatic advances in forensic science

and research, and the resultant increased demand for forensic services have necessitated this first update to the 1998 handbook.

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REVIEW OF BUILDING A DIGITAL FORENSIC LABORATORY ESTABLISHING AND MANAGIN

- This book was not nearly as good as I'd hoped it would be. The chapters are jumpy, skipping several decades at a time. The author does not seem to really know anything about art history. Her descriptions of the artwork are superficial and "fluffy." If you like a good fictional book about art read "The girl with a pearl earring" instead!
- I just finished reading *Mystic Island*. It was great!! I loved it. It is a very exciting story with a likeable main character. I would start reading with the intention of stealing a little time for myself to read a chapter or two, and soon an hour or two had passed! There was enough romance

in this book to be interesting, but not theories are fascinating. All in all, I would
raunchy. The historical references and highly recommend this book!