

# **READ CD AND DVD FORENSICS FREE**

## **CD and DVD Forensics**

CD and DVD Forensics will take the reader through all facets of handling, examining, and processing CD and DVD evidence for computer forensics. At a time where data forensics is becoming a major part of law enforcement and prosecution in the public sector, and corporate and system security in the private sector, the interest in this subject has just begun to blossom. CD and DVD Forensics is a how to book that will give the reader tools to be able to open CDs and DVDs in an effort to identify evidence of a crime. These tools can be applied in both the public and private sectors. Armed with this information, law enforcement, corporate security, and private investigators will be able to be more effective in their evidence related tasks. To accomplish this the book is divided into four basic parts: (a) CD and DVD physics dealing with the history, construction and technology of CD and DVD media, (b) file systems present on CDs and DVDs and how these are different from that which is found on hard disks, floppy disks and other media, (c) considerations for handling CD and DVD evidence to both recover the maximum amount of information present on a disc and to do so without destroying or altering the disc in any way, and (d) using the InfinaDyne product CD/DVD Inspector to examine discs in detail and collect evidence. This is the first book addressing using the CD/DVD Inspector product in a hands-on manner with a complete step-by-step guide for examining evidence discs See how to open CD's and DVD'd and extract all the crucial evidence they may contain

## **CD and DVD Forensics**

A useful guide to optical discs for the forensic professional or anyone that deals with optical media. Focus is on specifics that will insure proper handling and processing of discs to assure against loss of data and potential evidence. The author has been working with optical media since 1994 and is the author of a number of software products for writing optical media, recovering data from optical media and forensic examination of optical media. This is the second edition of this book and contains updated information and more focus on Blu-ray media.

## **Alternate Data Storage Forensics**

Learn to pull "digital fingerprints from alternate data storage (ADS) devices including: iPod, Xbox, digital cameras and more from the cyber sleuths who train the Secret Service, FBI, and Department of Defense in bleeding edge digital forensics techniques. This book sets a new forensic methodology standard for investigators to use. This book begins by describing how alternate data storage devices are used to both move and hide data. From here a series of case studies using bleeding edge forensic analysis tools demonstrate to readers how to perform forensic investigations on a variety of ADS devices including: Apple iPods, Digital Video Recorders, Cameras, Gaming Consoles (Xbox, PS2, and PSP), Bluetooth devices, and more using state of the art tools. Finally, the book takes a look into the future at "not yet every day devices which will soon be common repositories for hiding and moving data for both legitimate and illegitimate purposes. Authors are undisputed leaders who train the Secret Service, FBI, and Department of Defense Book presents \"one of a kind\" bleeding edge information that absolutely can not be found anywhere else Today the industry has exploded and cyber investigators can be found in almost every field

## **TOOLS AND TECHNIQUES FOR FIGHTING MALICIOUS CODE: MALWARE ANALYST'S COOKBOOK AND DVD (With CD )**

**Market\_Desc:** Primary audience: those working in IT with security responsibilities, incident responders, security administrators, forensic analysts, malware researchers  
Secondary audience: college and university students (majors: information security, information assurance, forensics, computer science, and computer engineering), hobbyists/hackers  
**Special Features:** · Authors are well-known malware experts with training, speaking, corporate blogging platforms· The DVD contains original, never-before-published custom programs demonstrating concepts in the recipes from the book, including files required to complete reverse-engineering challenges and files required for thwarting attacks.· Contains practical knowledge required to investigate and solve modern malware related computer crimes, along with unique and efficient techniques and tools for current security professionals and anyone looking to become a security professional· The number of jobs requiring security skills is dramatically increasing. In September 2009, the Department of Homeland Security announced 1000 new job openings for computer security experts.  
**About The Book:** This book is a collection of problems, solutions, and practical examples designed to enhance the analytical capabilities of anyone who works with malware. Whether you're tracking a Trojan across networks, performing an in-depth binary analysis, or inspecting a machine for potential infections, the recipes in this book will help you achieve your goals more quickly and accurately. The book goes beyond how to tackle challenges using free or inexpensive tools. It also includes a generous amount of source code in C, Python, and Perl that show how to extend your favorite tools or build your own from scratch.The DVD contains original, never-before-published custom programs from the authors to demonstrate concepts in the recipes. This tool set includes files required to complete reverse-engineering challenges and files required for the reader to follow along with exhibits/figures in the book.

## **Computer Forensics**

**Computer Forensics: Evidence Collection and Management** examines cyber-crime, E-commerce, and Internet activities that could be used to exploit the Internet, computers, and electronic devices. The book focuses on the numerous vulnerabilities and threats that are inherent on the Internet and networking environments and presents techniques and suggestions for corporate security personnel, investigators, and forensic examiners to successfully identify, retrieve, and protect valuable forensic evidence for litigation and prosecution. The book is divided into two major parts for easy reference. The first part explores various crimes, laws, policies, forensic tools, and the information needed to understand the underlying concepts of computer forensic investigations. The second part presents information relating to crime scene investigations and management, disk and file structure, laboratory construction and functions, and legal testimony. Separate chapters focus on investigations involving computer systems, e-mail, and wireless devices. Presenting information patterned after technical, legal, and managerial classes held by computer forensic professionals from Cyber Crime Summits held at Kennesaw State University in 2005 and 2006, this book is an invaluable resource for those who want to be both efficient and effective when conducting an investigation.

## **Computer Forensics JumpStart**

Essential reading for launching a career in computer forensics Internet crime is on the rise, catapulting the need for computer forensics specialists. This new edition presents you with a completely updated overview of the basic skills that are required as a computer forensics professional. The author team of technology security veterans introduces the latest software and tools that exist and they review the available certifications in this growing segment of IT that can help take your career to a new level. A variety of real-world practices take you behind the scenes to look at the root causes of security attacks and provides you with a unique perspective as you launch a career in this fast-growing field. Explores the profession of computer forensics, which is more in demand than ever due to the rise of Internet crime Details the ways to conduct a computer forensics investigation Highlights tips and techniques for finding hidden data, capturing images, documenting your case, and presenting evidence in court as an expert witness Walks you through identifying, collecting, and preserving computer evidence Explains how to understand encryption and examine encryption files **Computer Forensics JumpStart** is the resource you need to launch a career in computer forensics.

## **Digital Forensics with Kali Linux**

Learn the skills you need to take advantage of Kali Linux for digital forensics investigations using this comprehensive guide

**About This Book** Master powerful Kali Linux tools for digital investigation and analysis Perform evidence acquisition, preservation, and analysis using various tools within Kali Linux Implement the concept of cryptographic hashing and imaging using Kali Linux Perform memory forensics with Volatility and internet forensics with Xplico. Discover the capabilities of professional forensic tools such as Autopsy and DFF (Digital Forensic Framework) used by law enforcement and military personnel alike

**Who This Book Is For** This book is targeted at forensics and digital investigators, security analysts, or any stakeholder interested in learning digital forensics using Kali Linux. Basic knowledge of Kali Linux will be an advantage.

**What You Will Learn** Get to grips with the fundamentals of digital forensics and explore best practices Understand the workings of file systems, storage, and data fundamentals Discover incident response procedures and best practices Use DC3DD and Guymager for acquisition and preservation techniques Recover deleted data with Foremost and Scalpel Find evidence of accessed programs and malicious programs using Volatility. Perform network and internet capture analysis with Xplico Carry out professional digital forensics investigations using the DFF and Autopsy automated forensic suites

**In Detail** Kali Linux is a Linux-based distribution used mainly for penetration testing and digital forensics. It has a wide range of tools to help in forensics investigations and incident response mechanisms. You will start by understanding the fundamentals of digital forensics and setting up your Kali Linux environment to perform different investigation practices. The book will delve into the realm of operating systems and the various formats for file storage, including secret hiding places unseen by the end user or even the operating system. The book will also teach you to create forensic images of data and maintain integrity using hashing tools. Next, you will also master some advanced topics such as autopsies and acquiring investigation data from the network, operating system memory, and so on. The book introduces you to powerful tools that will take your forensic abilities and investigations to a professional level, catering for all aspects of full digital forensic investigations from hashing to reporting. By the end of this book, you will have had hands-on experience in implementing all the pillars of digital forensics—acquisition, extraction, analysis, and presentation using Kali Linux tools.

**Style and approach** While covering the best practices of digital forensics investigations, evidence acquisition, preservation, and analysis, this book delivers easy-to-follow practical examples and detailed labs for an easy approach to learning forensics. Following the guidelines within each lab, you can easily practice all readily available forensic tools in Kali Linux, within either a dedicated physical or virtual machine.

## **Computer Forensics For Dummies**

Uncover a digital trail of e-evidence by using the helpful, easy-to-understand information in *Computer Forensics For Dummies*! Professional and armchair investigators alike can learn the basics of computer forensics, from digging out electronic evidence to solving the case. You won't need a computer science degree to master e-discovery. Find and filter data in mobile devices, e-mail, and other Web-based technologies. You'll learn all about e-mail and Web-based forensics, mobile forensics, passwords and encryption, and other e-evidence found through VoIP, voicemail, legacy mainframes, and databases. You'll discover how to use the latest forensic software, tools, and equipment to find the answers that you're looking for in record time. When you understand how data is stored, encrypted, and recovered, you'll be able to protect your personal privacy as well. By the time you finish reading this book, you'll know how to: Prepare for and conduct computer forensics investigations Find and filter data Protect personal privacy Transfer evidence without contaminating it Anticipate legal loopholes and opponents' methods Handle passwords and encrypted data Work with the courts and win the case Plus, *Computer Forensics for Dummies* includes lists of things that everyone interested in computer forensics should know, do, and build. Discover how to get qualified for a career in computer forensics, what to do to be a great investigator and expert witness, and how to build a forensics lab or toolkit. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

## **Computer forensics**

Launch Your Career in Computer Forensics—Quickly and Effectively Written by a team of computer forensics experts, Computer Forensics JumpStart provides all the core information you need to launch your career in this fast-growing field: Conducting a computer forensics investigation Examining the layout of a network Finding hidden data Capturing images Identifying, collecting, and preserving computer evidence Understanding encryption and examining encrypted files Documenting your case Evaluating common computer forensic tools Presenting computer evidence in court as an expert witness

### **Computer Forensics JumpStart**

Electronic discovery refers to a process in which electronic data is sought, located, secured, and searched with the intent of using it as evidence in a legal case. Computer forensics is the application of computer investigation and analysis techniques to perform an investigation to find out exactly what happened on a computer and who was responsible. IDC estimates that the U.S. market for computer forensics will be grow from \$252 million in 2004 to \$630 million by 2009. Business is strong outside the United States, as well. By 2011, the estimated international market will be \$1.8 billion dollars. The Techno Forensics Conference has increased in size by almost 50% in its second year; another example of the rapid growth in the market. This book is the first to combine cybercrime and digital forensic topics to provides law enforcement and IT security professionals with the information needed to manage a digital investigation. Everything needed for analyzing forensic data and recovering digital evidence can be found in one place, including instructions for building a digital forensics lab. \* Digital investigation and forensics is a growing industry \* Corporate I.T. departments investigating corporate espionage and criminal activities are learning as they go and need a comprehensive guide to e-discovery \* Appeals to law enforcement agencies with limited budgets

### **The Best Damn Cybercrime and Digital Forensics Book Period**

Approximately 80 percent of the world's population now owns a cell phone, which can hold evidence or contain logs about communications concerning a crime. Cameras, PDAs, and GPS devices can also contain information related to corporate policy infractions and crimes. Aimed to prepare investigators in the public and private sectors, Digital Forensics for Handheld Devices examines both the theoretical and practical aspects of investigating handheld digital devices. This book touches on all areas of mobile device forensics, including topics from the legal, technical, academic, and social aspects of the discipline. It provides guidance on how to seize data, examine it, and prepare it as evidence for court. This includes the use of chain of custody forms for seized evidence and Faraday Bags for digital devices to prevent further connectivity and tampering of evidence. Emphasizing the policies required in the work environment, the author provides readers with a clear understanding of the differences between a corporate investigation and a criminal investigation. The book also: Offers best practices for establishing an incident response policy and seizing data from company or privately owned digital devices Provides guidance in establishing dedicated examinations free of viruses, spyware, and connections to other devices that could taint evidence Supplies guidance on determining protocols for complicated crime scenes with external media and devices that may have connected with the handheld device Considering important privacy issues and the Fourth Amendment, this book facilitates an understanding of how to use digital forensic tools to investigate the complete range of available digital devices, including flash drives, cell phones, PDAs, digital cameras, and netbooks. It includes examples of commercially available digital forensic tools and ends with a discussion of the education and certifications required for various careers in mobile device forensics.

### **Digital Forensics for Handheld Devices**

For introductory and intermediate courses in computer forensics, digital investigations, or computer crime investigation By applying information systems, computer security, and criminal justice principles and practices to crime investigations and other legal actions, this text teaches students how to use forensically-

sound methodologies and software to acquire admissible electronic evidence (e-evidence) with coverage of computer and email forensics, cell phone and IM forensics, and PDA and Blackberry forensics. \

## **Computer Forensics**

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.

## **Practical Forensic Imaging**

Most Cyber Crime Professionals rely on a small core of books that are targeted specifically at their job responsibilities. These dog-eared volumes are used on a daily basis and are considered essential. But budgets and space often limit just how many books can be added to your cored library. The 2008 Cyber Crime Investigator's Professional CD solves this problem. It contains three of our best selling titles, providing the \next level\ of reference you will need for about less than half the price of the hard copy books purchased separately. The CD contains the complete PDF versions of the following Syngress titles: \* CD and DVD Forensics, ISBN: 978-1-59749-128-0 \* Windows Forensic Analysis Including DVD Toolkit, ISBN: 978-1-59749-156-3 \* Cyber Crime Investigations: Bridging the Gaps Between, Security Professionals, Law Enforcement, and Prosecutors, ISBN: 978-1-59749-133-4 \* Add over 1,033 pages to your Cyber Crime bookshelf \* Includes 3 best selling SYNGRESS Books in PDF Format

## **Cyber Crime Investigator's Professional 2008**

When it comes to computer crimes, the criminals got a big head start. But the law enforcement and IT security communities are now working diligently to develop the knowledge, skills, and tools to successfully investigate and prosecute Cybercrime cases. When the first edition of \Scene of the Cybercrime\ published in 2002, it was one of the first books that educated IT security professionals and law enforcement how to fight Cybercrime. Over the past 5 years a great deal has changed in how computer crimes are perpetrated and subsequently investigated. Also, the IT security and law enforcement communities have dramatically improved their ability to deal with Cybercrime, largely as a result of increased spending and training. According to the 2006 Computer Security Institute's and FBI's joint Cybercrime report: 52% of companies reported unauthorized use of computer systems in the prior 12 months. Each of these incidents is a Cybercrime requiring a certain level of investigation and remediation. And in many cases, an investigation is mandated by federal compliance regulations such as Sarbanes-Oxley, HIPAA, or the Payment Card Industry (PCI) Data Security Standard. Scene of the Cybercrime, Second Edition is a completely revised and updated

book which covers all of the technological, legal, and regulatory changes, which have occurred since the first edition. The book is written for dual audience; IT security professionals and members of law enforcement. It gives the technical experts a little peek into the law enforcement world, a highly structured environment where the "letter of the law" is paramount and procedures must be followed closely lest an investigation be contaminated and all the evidence collected rendered useless. It also provides law enforcement officers with an idea of some of the technical aspects of how cyber crimes are committed, and how technology can be used to track down and build a case against the criminals who commit them. Scene of the Cybercrime, Second Editions provides a roadmap that those on both sides of the table can use to navigate the legal and technical landscape to understand, prevent, detect, and successfully prosecute the criminal behavior that is as much a threat to the online community as "traditional" crime is to the neighborhoods in which we live. Also included is an all new chapter on Worldwide Forensics Acts and Laws. \* Companion Web site provides custom tools and scripts, which readers can download for conducting digital, forensic investigations. \* Special chapters outline how Cybercrime investigations must be reported and investigated by corporate IT staff to meet federal mandates from Sarbanes Oxley, and the Payment Card Industry (PCI) Data Security Standard \* Details forensic investigative techniques for the most common operating systems (Windows, Linux and UNIX) as well as cutting edge devices including iPods, Blackberries, and cell phones.

## **Real digital forensics**

This book provides digital forensic investigators, security professionals, and law enforcement with all of the information, tools, and utilities required to conduct forensic investigations of computers running any variant of the Macintosh OS X operating system, as well as the almost ubiquitous iPod and iPhone. Digital forensic investigators and security professionals subsequently can use data gathered from these devices to aid in the prosecution of criminal cases, litigate civil cases, audit adherence to federal regulatory compliance issues, and identify breach of corporate and government usage policies on networks. MAC Disks, Partitioning, and HFS+ File System Manage multiple partitions on a disk, and understand how the operating system stores data. FileVault and Time Machine Decrypt locked FileVault files and restore files backed up with Leopard's Time Machine. Recovering Browser History Uncover traces of Web-surfing activity in Safari with Web cache and .plist files Recovering Email Artifacts, iChat, and Other Chat Logs Expose communications data in iChat, Address Book, Apple's Mail, MobileMe, and Web-based email. Locating and Recovering Photos Use iPhoto, Spotlight, and shadow files to find artifacts of photos (e.g., thumbnails) when the originals no longer exist. Finding and Recovering QuickTime Movies and Other Video Understand video file formats--created with iSight, iMovie, or another application--and how to find them. PDF, Word, and Other Document Recovery Recover text documents and metadata with Microsoft Office, OpenOffice, Entourage, Adobe PDF, or other formats. Forensic Acquisition and Analysis of an iPod Document seizure of an iPod model and analyze the iPod image file and artifacts on a Mac. Forensic Acquisition and Analysis of an iPhone Acquire a physical image of an iPhone or iPod Touch and safely analyze without jailbreaking. Includes Unique Information about Mac OS X, iPod, iMac, and iPhone Forensic Analysis Unavailable Anywhere Else Authors Are Pioneering Researchers in the Field of Macintosh Forensics, with Combined Experience in Law Enforcement, Military, and Corporate Forensics

## **Scene of the Cybercrime**

Updated with the latest advances from the field, GUIDE TO COMPUTER FORENSICS AND INVESTIGATIONS, Fifth Edition combines all-encompassing topic coverage and authoritative information from seasoned experts to deliver the most comprehensive forensics resource available. This proven author team's wide ranging areas of expertise mirror the breadth of coverage provided in the book, which focuses on techniques and practices for gathering and analyzing evidence used to solve crimes involving computers. Providing clear instruction on the tools and techniques of the trade, it introduces readers to every step of the computer forensics investigation--from lab set-up to testifying in court. It also details step-by-step guidance on how to use current forensics software. Appropriate for learners new to the field, it is also an excellent refresher and technology update for professionals in law enforcement, investigations, or computer security.

Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

## **Mac OS X, iPod, and iPhone Forensic Analysis DVD Toolkit**

"Incorporating real-world examples and exercises throughout, Security Strategies in Linux Platforms and Applications discusses every major aspect of security on a Linux system, including coverage of the latest Linux distributions and kernels. Written by industry experts, the text opens with a review of the risks, threats, and vulnerabilities associated with Linux as an operating system. Part 2 discusses how to take advantage of the layers of security available to Linux - user and group options, filesystems, and security options for important services. The text concludes with a look at the use of both open source and proprietary tools when building a layered security strategy for Linux operating system environments"--

## **Guide to Computer Forensics and Investigations**

A practical guide to deploying digital forensic techniques in response to cyber security incidents About This Book Learn incident response fundamentals and create an effective incident response framework Master forensics investigation utilizing digital investigative techniques Contains real-life scenarios that effectively use threat intelligence and modeling techniques Who This Book Is For This book is targeted at Information Security professionals, forensics practitioners, and students with knowledge and experience in the use of software applications and basic command-line experience. It will also help professionals who are new to the incident response/digital forensics role within their organization. What You Will Learn Create and deploy incident response capabilities within your organization Build a solid foundation for acquiring and handling suitable evidence for later analysis Analyze collected evidence and determine the root cause of a security incident Learn to integrate digital forensic techniques and procedures into the overall incident response process Integrate threat intelligence in digital evidence analysis Prepare written documentation for use internally or with external parties such as regulators or law enforcement agencies In Detail Digital Forensics and Incident Response will guide you through the entire spectrum of tasks associated with incident response, starting with preparatory activities associated with creating an incident response plan and creating a digital forensics capability within your own organization. You will then begin a detailed examination of digital forensic techniques including acquiring evidence, examining volatile memory, hard drive assessment, and network-based evidence. You will also explore the role that threat intelligence plays in the incident response process. Finally, a detailed section on preparing reports will help you prepare a written report for use either internally or in a courtroom. By the end of the book, you will have mastered forensic techniques and incident response and you will have a solid foundation on which to increase your ability to investigate such incidents in your organization. Style and approach The book covers practical scenarios and examples in an enterprise setting to give you an understanding of how digital forensics integrates with the overall response to cyber security incidents. You will also learn the proper use of tools and techniques to investigate common cyber security incidents such as malware infestation, memory analysis, disk analysis, and network analysis.

## **Security Strategies in Linux Platforms and Applications**

Comprehensive guide to forensic medicine and toxicology, with almost 1000 images and illustrations.

## **Digital Forensics and Incident Response**

Windows Forensic Analysis DVD Toolkit, 2nd Edition, is a completely updated and expanded version of Harlan Carvey's best-selling forensics book on incident response and investigating cybercrime on Windows systems. With this book, you will learn how to analyze data during live and post-mortem investigations. New to this edition is Forensic Analysis on a Budget, which collects freely available tools that are essential for small labs, state (or below) law enforcement, and educational organizations. The book also includes new pedagogical elements, Lessons from the Field, Case Studies, and War Stories that present real-life

experiences by an expert in the trenches, making the material real and showing the why behind the how. The companion DVD contains significant, and unique, materials (movies, spreadsheet, code, etc.) not available anywhere else because they were created by the author. This book will appeal to digital forensic investigators, IT security professionals, engineers, and system administrators as well as students and consultants. Best-Selling Windows Digital Forensic book completely updated in this 2nd Edition Learn how to Analyze Data During Live and Post-Mortem Investigations DVD Includes Custom Tools, Updated Code, Movies, and Spreadsheets!

## **Principles of Forensic Medicine & Toxicology**

**BENEFIT:** This easy to read, comprehensive primer is written by criminal justice professionals specifically for criminal justice students. It reviews 89 specific and timely forensic areas of academic investigation and its discussions are tempered with significant day-to-day field application experience. Its chapter-opening outlines and end-of-chapter learning features strive to make the material relevant for readers and its goal is to encourage students to understand how they will use forensic science in the criminal justice field. **TOPICS:** Discusses forensic topics as they relate to the world of the CJ professional. Includes topics such as the history of the field, the scope of forensic mental health, the trial consultant, treating offenders, and family court issues. Explores forensics around the world, the future of forensics and ethical considerations. Criminal justice students.

## **Windows Forensic Analysis DVD Toolkit**

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.

## **Forensics!**

Virtualization and Forensics: A Digital Forensic Investigators Guide to Virtual Environments offers an in-depth view into the world of virtualized environments and the implications they have on forensic investigations. Named a 2011 Best Digital Forensics Book by InfoSec Reviews, this guide gives you the end-to-end knowledge needed to identify server, desktop, and portable virtual environments, including: VMware, Parallels, Microsoft, and Sun. It covers technological advances in virtualization tools, methods, and issues in digital forensic investigations, and explores trends and emerging technologies surrounding virtualization technology. This book consists of three parts. Part I explains the process of virtualization and the different types of virtualized environments. Part II details how virtualization interacts with the basic forensic process,



describing the methods used to find virtualization artifacts in dead and live environments as well as identifying the virtual activities that affect the examination process. Part III addresses advanced virtualization issues, such as the challenges of virtualized environments, cloud computing, and the future of virtualization. This book will be a valuable resource for forensic investigators (corporate and law enforcement) and incident response professionals. Named a 2011 Best Digital Forensics Book by InfoSec Reviews Gives you the end-to-end knowledge needed to identify server, desktop, and portable virtual environments, including: VMware, Parallels, Microsoft, and Sun Covers technological advances in virtualization tools, methods, and issues in digital forensic investigations Explores trends and emerging technologies surrounding virtualization technology

## **Practical Forensic Imaging**

A computer forensics "how-to" for fighting malicious code and analyzing incidents With our ever-increasing reliance on computers comes an ever-growing risk of malware. Security professionals will find plenty of solutions in this book to the problems posed by viruses, Trojan horses, worms, spyware, rootkits, adware, and other invasive software. Written by well-known malware experts, this guide reveals solutions to numerous problems and includes a DVD of custom programs and tools that illustrate the concepts, enhancing your skills. Security professionals face a constant battle against malicious software; this practical manual will improve your analytical capabilities and provide dozens of valuable and innovative solutions Covers classifying malware, packing and unpacking, dynamic malware analysis, decoding and decrypting, rootkit detection, memory forensics, open source malware research, and much more Includes generous amounts of source code in C, Python, and Perl to extend your favorite tools or build new ones, and custom programs on the DVD to demonstrate the solutions Malware Analyst's Cookbook is indispensable to IT security administrators, incident responders, forensic analysts, and malware researchers.

## **Virtualization and Forensics**

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

## **Malware Analyst's Cookbook and DVD**

The X-Ways Forensics Practitioner's Guide is more than a manual-it's a complete reference guide to the full use of one of the most powerful forensic applications available, software that is used by a wide array of law enforcement agencies and private forensic examiners on a daily basis. In the X-Ways Forensics Practitioner's Guide, the authors provide you with complete coverage of this powerful tool, walking you through configuration and X-Ways fundamentals, and then moving through case flow, creating and importing hash databases, digging into OS artifacts, and conducting searches. With X-Ways Forensics Practitioner's Guide, you will be able to use X-Ways Forensics to its fullest potential without any additional training. The book takes you from installation to the most advanced features of the software. Once you are familiar with the basic components of X-Ways, the authors demonstrate never-before-documented features using real life examples and information on how to present investigation results. The book culminates with chapters on reporting, triage and preview methods, as well as electronic discovery and cool X-Ways apps. Provides detailed explanations of the complete forensic investigation processes using X-Ways Forensics. Goes beyond the basics: hands-on case demonstrations of never-before-documented features of X-Ways. Provides the best resource of hands-on information to use X-Ways Forensics.

## **Practical Linux Forensics**

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

## **X-Ways Forensics Practitioner's Guide**

The need to professionally and successfully conduct computer forensic investigations of incidents and crimes has never been greater. This has caused an increased requirement for information about the creation and management of computer forensic laboratories and the investigations themselves. This includes a great need for information on how to cost-effectively establish and manage a computer forensics laboratory. This book meets that need: a clearly written, non-technical book on the topic of computer forensics with emphasis on the establishment and management of a computer forensics laboratory and its subsequent support to successfully conducting computer-related crime investigations. Provides guidance on creating and managing a computer forensics lab Covers the regulatory and legislative environment in the US and Europe Meets the needs of IT professionals and law enforcement as well as consultants

## **Digital Forensics Processing and Procedures**

This is the official CHFI (Computer Hacking Forensics Investigator) study guide for professionals studying for the forensics exams and for professionals needing the skills to identify an intruder's footprints and properly gather the necessary evidence to prosecute. The EC-Council offers certification for ethical hacking and computer forensics. Their ethical hacker exam has become very popular as an industry gauge and we expect the forensics exam to follow suit. Material is presented in a logical learning sequence: a section builds upon previous sections and a chapter on previous chapters. All concepts, simple and complex, are defined and explained when they appear for the first time. This book includes: Exam objectives covered in a chapter are clearly explained in the beginning of the chapter, Notes and Alerts highlight crucial points, Exam's Eye View emphasizes the important points from the exam's perspective, Key Terms present definitions of key terms used in the chapter, Review Questions contains the questions modeled after real exam questions based on the material covered in the chapter. Answers to the questions are presented with explanations. Also

included is a full practice exam modeled after the real exam. The only study guide for CHFI, provides 100% coverage of all exam objectives. CHFI Training runs hundreds of dollars for self tests to thousands of dollars for classroom training.

## **Building a Digital Forensic Laboratory**

This is a guide to recommended practices for crime scene investigation. The guide is presented in five major sections, with sub-sections as noted: (1) Arriving at the Scene: Initial Response/Prioritization of Efforts (receipt of information, safety procedures, emergency care, secure and control persons at the scene, boundaries, turn over control of the scene and brief investigator/s in charge, document actions and observations); (2) Preliminary Documentation and Evaluation of the Scene (scene assessment, \"walk-through\" and initial documentation); (3) Processing the Scene (team composition, contamination control, documentation and prioritize, collect, preserve, inventory, package, transport, and submit evidence); (4) Completing and Recording the Crime Scene Investigation (establish debriefing team, perform final survey, document the scene); and (5) Crime Scene Equipment (initial responding officers, investigator/evidence technician, evidence collection kits).

## **The Official CHFI Study Guide (Exam 312-49)**

The official, Guidance Software-approved book on the newest EnCE exam! The EnCE exam tests that computer forensic analysts and examiners have thoroughly mastered computer investigation methodologies, as well as the use of Guidance Software's EnCase Forensic 7. The only official Guidance-endorsed study guide on the topic, this book prepares you for the exam with extensive coverage of all exam topics, real-world scenarios, hands-on exercises, up-to-date legal information, and sample evidence files, flashcards, and more. Guides readers through preparation for the newest EnCase Certified Examiner (EnCE) exam Prepares candidates for both Phase 1 and Phase 2 of the exam, as well as for practical use of the certification Covers identifying and searching hardware and files systems, handling evidence on the scene, and acquiring digital evidence using EnCase Forensic 7 Includes hands-on exercises, practice questions, and up-to-date legal information Sample evidence files, Sybex Test Engine, electronic flashcards, and more If you're preparing for the new EnCE exam, this is the study guide you need.

## **Crime Scene Investigation**

The emergence of the World Wide Web, smartphones, and Computer-Mediated Communications (CMCs) profoundly affect the way in which people interact online and offline. Individuals who engage in socially unacceptable or outright criminal acts increasingly utilize technology to connect with one another in ways that are not otherwise possible in the real world due to shame, social stigma, or risk of detection. As a consequence, there are now myriad opportunities for wrongdoing and abuse through technology. This book offers a comprehensive and integrative introduction to cybercrime. It is the first to connect the disparate literature on the various types of cybercrime, the investigation and detection of cybercrime and the role of digital information, and the wider role of technology as a facilitator for social relationships between deviants and criminals. It includes coverage of: key theoretical and methodological perspectives, computer hacking and digital piracy, economic crime and online fraud, pornography and online sex crime, cyber-bullying and cyber-stalking, cyber-terrorism and extremism, digital forensic investigation and its legal context, cybercrime policy. This book includes lively and engaging features, such as discussion questions, boxed examples of unique events and key figures in offending, quotes from interviews with active offenders and a full glossary of terms. It is supplemented by a companion website that includes further students exercises and instructor resources. This text is essential reading for courses on cybercrime, cyber-deviancy, digital forensics, cybercrime investigation and the sociology of technology.

## **EnCase Computer Forensics -- The Official EnCE**

Digital imaging technology has been used in forensics since at least 1992, yet until now there has been no practical instruction available to address the unique issues of image processing in an everyday forensic environment. Photoshop CS3 for Forensics Professionals serves the everyday, real-world needs of law enforcement and legal personnel dealing with digital images (including both photos and video stills). This book is an excellent tool for: Law enforcement personnel, from crime scene and arson investigators, detectives, and patrol officers to forensic photographers, fingerprint examiners, video analysts, tool mark and footwear examiners, and criminalists. Security pros in such fields as private investigation, insurance, fraud detection, and loss prevention. Scientific and technical users of Photoshop with workflows similar to law enforcement, such as medical photographers, research imaging experts, engineering and architecture staff, and industrial photographers. Staff responsible for maintaining a photo archive or printing images for court. Photoshop CS3 for Forensics Professionals is the only book to provide forensics professionals with specific answers to their imaging questions. This is the perfect resource for those who want to move from simple theory to the essential skills needed to be more effective. This resource is divided into three parts: Part I: The Essentials is about setting up your workflow, archiving your images, and familiarizing yourself with Adobe Photoshop and Adobe Bridge, including the setting up of preferences. Also covered are the best practices in writing reports and providing courtroom testimony. Part II: The Digital Darkroom teaches how to use Photoshop to accomplish what traditionally was done in the darkroom, from correcting color casts to making prints and exhibits for courtroom use. Part III: Image Analysis & Enhancement covers techniques for clarifying images so that details can be better viewed and used for analysis or comparison, from contrast enhancement and pattern removal to even forensic video analysis. The companion CD-ROM provides sample images—including various accident and crime scenes—you can use to practice the techniques from the book while following along with the tutorials. It also includes several scripts, plug-ins, and actions so you can work more effectively. In addition, instructor's materials are available so you can use book in workshops and training seminars. Order this one-of-a-kind resource today! Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

## **Cybercrime and Digital Forensics**

As computer and internet technologies continue to advance at a fast pace, the rate of cybercrimes is increasing. Crimes employing mobile devices, data embedding/mining systems, computers, network communications, or any malware impose a huge threat to data security, while cyberbullying, cyberstalking, child pornography, and trafficking crimes are made easier through the anonymity of the internet. New developments in digital forensics tools and an understanding of current criminal activities can greatly assist in minimizing attacks on individuals, organizations, and society as a whole. Digital Forensics and Forensic Investigations: Breakthroughs in Research and Practice addresses current challenges and issues emerging in cyber forensics and new investigative tools and methods that can be adopted and implemented to address these issues and counter security breaches within various organizations. It also examines a variety of topics such as advanced techniques for forensic developments in computer and communication-link environments and legal perspectives including procedures for cyber investigations, standards, and policies. Highlighting a range of topics such as cybercrime, threat detection, and forensic science, this publication is an ideal reference source for security analysts, law enforcement, lawmakers, government officials, IT professionals, researchers, practitioners, academicians, and students currently investigating the up-and-coming aspects surrounding network security, computer science, and security engineering.

## **Photoshop CS3 for Forensics Professionals**

Windows Registry Forensics provides the background of the Windows Registry to help develop an understanding of the binary structure of Registry hive files. Approaches to live response and analysis are included, and tools and techniques for postmortem analysis are discussed at length. Tools and techniques are presented that take the student and analyst beyond the current use of viewers and into real analysis of data contained in the Registry, demonstrating the forensic value of the Registry. Named a 2011 Best Digital Forensics Book by InfoSec Reviews, this book is packed with real-world examples using freely available

open source tools. It also includes case studies and a CD containing code and author-created tools discussed in the book. This book will appeal to computer forensic and incident response professionals, including federal government and commercial/private sector contractors, consultants, etc. Named a 2011 Best Digital Forensics Book by InfoSec Reviews Packed with real-world examples using freely available open source tools Deep explanation and understanding of the Windows Registry – the most difficult part of Windows to analyze forensically Includes a CD containing code and author-created tools discussed in the book

## **Digital Forensics and Forensic Investigations: Breakthroughs in Research and Practice**

This guide prepares readers for both the CBT and practical phases of the exam that validates mastery of EnCase. The accompanying CD-ROM includes tools to help readers prepare for Phase II of the certification.

## **Windows Registry Forensics**

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.

## **EnCase Computer Forensics: The Official EnCE**

Introductory Computer Forensics

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