Guide To Computer Forensics And Investigations

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Master the skills you need to conduct a successful digital investigation with Nelson/Phillips/Steuart's GUIDE TO COMPUTER FORENSICS AND INVESTIGATIONS, Sixth Edition--the most comprehensive forensics resource available. While other books offer just an overview of the field, this hands-on learning text provides clear instruction on the tools and techniques of the trade, walking you through every step of the computer forensics investigation--from lab setup to testifying in court. It also explains how to use current forensics software and provides free demo downloads. It includes the most up-to-date coverage available of Linux and Macintosh, virtual machine software such as VMware and Virtual Box, Android, mobile devices, handheld devices, cloud forensics, email, social media and the Internet of Anything. With its practical

applications, you can immediately put what you learn into practice.
WEB-BASED LABS FOR GUIDE TO COMPUTER FORENSICS AND INVESTIGATIONS, FOURTH EDITION provides step-by-step labs taken directly from GUIDE TO COMPUTER FORENSICS AND INVESTIGATIONS, FOURTH EDITION. Using a real lab environment over the Internet, learners can log on anywhere, anytime via a Web browser to gain essential hands-on experience in computer forensics.
Security Smarts for the Self-Guided IT Professional Find out how to excel in the field of computer forensics investigations. Learn what it takes to transition from an IT professional to a computer forensic examiner in the private sector. Written by a Certified Information Systems Security Professional, Computer Forensics: InfoSec Pro Guide is filled with real-world case studies that demonstrate the concepts covered in the book. You'll learn how to set up a forensics lab, select hardware and software, choose forensic imaging procedures, test your tools, capture evidence from different sources, follow a sound investigative process, safely store evidence, and verify your findings. Best practices for documenting your results, preparing reports, and presenting evidence in court are also covered in this detailed resource. Computer Forensics: InfoSec Pro Guide features: Lingo—Common security terms

defined so that you're in the know on the job IMHO—Frank and relevant opinions based on the author's years of industry experience Budget Note—Tips for getting security technologies and processes into your organization's budget In Actual Practice—Exceptions to the rules of security explained in real-world contexts Your Plan—Customizable checklists you can use on the job now Into Action—Tips on how, why, and when to apply new skills and techniques at work

To ensure a successful experience for instructors and students alike, this book includes the following sections for each lab: Lab Objectives - Every lab has a brief description and list of learning objectives Materials Required - Every lab includes information on the hardware, software, and other materials you need to complete the lab. Estimated Completion Time - Every lab has an estimated completion time, so that you can plan your activities accurately. Activity - The actual lab activity is presented in this section. Logical and precise step-by-step instructions guide you through the lab. Review Questions - Each lab includes follow-up questions to help reinforce concepts presented in the lab.

This Computer Forensic Guide is meant for IT professional who wants to enter into Computer Forensic domain.

This work introduces the reader to the world of digital forensics in a practical and accessible manner. The text

was written to fulfill a need for a book that introduces forensic methodology and sound forensic thinking, combined with hands-on examples for common tasks in a computer forensic examination. The author has several years of experience as a computer forensics examiner and is now working as a university-level lecturer. Guide to Digital Forensics: A Concise and Practical Introduction is intended for students that are looking for an introduction to computer forensics and can also be used as a collection of instructions for practitioners. The aim is to describe and explain the steps taken during a forensic examination, with the intent of making the reader aware of the constraints and considerations that apply during a fo rensic examination in law enforcement and in the private sector. Upon reading this book, the reader should have a proper overview of the field of digital forensics, starting them on the journey of becoming a computer forensics expert.

Handbook of Digital Forensics and Investigation builds on the success of the Handbook of Computer Crime Investigation, bringing together renowned experts in all areas of digital forensics and investigation to provide the consummate resource for practitioners in the field. It is also designed as an accompanying text to Digital Evidence and Computer Crime. This unique collection details how to conduct digital investigations in both criminal and civil contexts, and how to locate and utilize digital evidence on computers, networks, and embedded systems. Specifically, the Investigative Methodology section of the Handbook provides expert guidance in the three main areas of practice: Forensic Analysis,

Electronic Discovery, and Intrusion Investigation. The Technology section is extended and updated to reflect the state of the art in each area of specialization. The main areas of focus in the Technology section are forensic analysis of Windows, Unix, Macintosh, and embedded systems (including cellular telephones and other mobile devices), and investigations involving networks (including enterprise environments and mobile telecommunications technology). This handbook is an essential technical reference and on-the-job guide that IT professionals, forensic practitioners, law enforcement, and attorneys will rely on when confronted with computer related crime and digital evidence of any kind. *Provides methodologies proven in practice for conducting digital investigations of all kinds *Demonstrates how to locate and interpret a wide variety of digital evidence, and how it can be useful in investigations *Presents tools in the context of the investigative process, including EnCase, FTK, ProDiscover, foremost, XACT, Network Miner, Splunk, flow-tools, and many other specialized utilities and analysis platforms *Case examples in every chapter give readers a practical understanding of the technical, logistical, and legal challenges that arise in real investigations
Guide to Computer Forensics and InvestigationsGuide to Computer Forensics and InvestigationsCengage Learning
Would your company be prepared in the event of: * Computer-driven espionage * A devastating virus attack * A hacker's unauthorized access * A breach of data security? As the sophistication of computer technology

has grown, so has therate of computer-related criminal activity. Subsequently, Americancorporations now lose billions of dollars a year to hacking,identity theft, and other computer attacks. More than ever,businesses and professionals responsible for the critical data ofcountless customers and employees need to anticipate and safeguardagainst computer intruders and attacks. The first book to successfully speak to the nontechnicalprofessional in the fields of business and law on the topic ofcomputer crime, Computer Forensics: An Essential Guide forAccountants, Lawyers, and Managers provides valuable advice on thehidden difficulties that can blindside companies and result indamaging costs. Written by industry expert Michael Sheetz, this important bookprovides readers with an honest look at the computer crimes thatcan annoy, interrupt--and devastate--a business. Readers areequipped not only with a solid understanding of how computersfacilitate fraud and financial crime, but also how computers can beused to investigate, prosecute, and prevent these crimes. If you want to know how to protect your company from computercrimes but have a limited technical background, this book is foryou. Get Computer Forensics: An Essential Guide for Accountants,Lawyers, and Managers and get prepared. Get up and running with collecting evidence using forensics best practices to present your findings in judicial or administrative proceedings Key Features Learn the core techniques of computer forensics to acquire and secure digital evidence skillfully Conduct a digital forensic examination and document the digital

evidence collected Analyze security systems and overcome complex challenges with a variety of forensic investigations Book Description A computer forensics investigator must possess a variety of skills, including the ability to answer legal questions, gather and document evidence, and prepare for an investigation. This book will help you get up and running with using digital forensic tools and techniques to investigate cybercrimes successfully. Starting with an overview of forensics and all the open source and commercial tools needed to get the job done, you'll learn core forensic practices for searching databases and analyzing data over networks, personal devices, and web applications. You'll then learn how to acquire valuable information from different places, such as filesystems, e-mails, browser histories, and search queries, and capture data remotely. As you advance, this book will guide you through implementing forensic techniques on multiple platforms, such as Windows, Linux, and macOS, to demonstrate how to recover valuable information as evidence. Finally, you'll get to grips with presenting your findings efficiently in judicial or administrative proceedings. By the end of this book, you'll have developed a clear understanding of how to acquire, analyze, and present digital evidence like a proficient computer forensics investigator. What you will learn Understand investigative processes, the rules of evidence, and ethical guidelines Recognize and document different types of computer hardware Understand the boot process covering BIOS, UEFI, and the boot sequence Validate forensic hardware and software Discover the locations of common Windows

artifacts Document your findings using technically correct terminology Who this book is for If you're an IT beginner, student, or an investigator in the public or private sector this book is for you.This book will also help professionals and investigators who are new to incident response and digital forensics and interested in making a career in the cybersecurity domain.

In recent years, there have been a record number of computer security related crimes and breeches than ever before. The more the technology advances, the more chances computer criminals will learn more ways of breaching computer security. Computer Forensics now aid in solving crimes We now live in a digital age where the computer permeates almost every aspect of our lives. Almost all transactions and records of our activities are now recorded electronically. Computers are digital devices are everywhere. Those who pursue a career in the field will be gainfully employed for a long time. There is more so in the computer forensics field and this book is here to help you AMONG THE OBJECTIVES OF WRITING THIS BOOK: - What is Computer Forensic Experts? - In general, we know that the jobs of a computer forensics expert are to extract and examine data to look for evidence or supportive evidence. In fact, their job scope is very wide. Let's have a better understanding on what digital forensics experts can do. You will be eager to join this line after knowing how wonderful they are. Computer Forensics Software - Computer forensics software programs are used to detect computer frauds, crimes, etc., automatically, without retaining the services of a computer forensic

specialist. Software solution processes detect operations done on a computer illegally or without authorization. How to Find the Best Software to Compare Recovered Data - Recovering data is not impossible to do anymore at the present time. Learn how you can spot the best application that will allow you to compare recovered data through this book. Cell Phone Forensics - Using Technology to Catch a Cheater - Learn from a private investigator that's an expert in infidelity investigations how you can use cell phone forensics to catch a cheater. These days, many cheaters, and otherwise unfaithfully married spouses, take advantage of technology to help them hide their extramarital activity. What Are the Skills Needed by a Computer Forensics Accountant? - The field of computer forensics has emerged as the best solution to investigate the types of crimes that are committed with computers. The job of a computer forensic accountant is to identify, preserve, extract, maintain and documenting all the related date involved in online criminal activity. In order to perform the tasks successfully, ones must equip themselves with necessary knowledge and practical skills. Internet and mobile technology are great. But with along with the excitement comes cybercrime. And computer forensic professionals are needed to catch cyber criminals. Find out some of your options in this book. Get Your Copy Now

Investigating Corporate Fraud Accounting Irregularities E-discovery Challenges Trade Secret Theft Social Networks Data Breaches The Cloud Hackers "Having worked with Erik on some of the most challenging

computer forensic investigations during the early years of this industry's formation as well as having competed with him earnestly in the marketplace...I can truly say that Erik is one of the unique pioneers of computer forensic investigations. He not only can distill complex technical information into easily understandable concepts, but he always retained a long-term global perspective on the relevancy of our work and on the impact of the information revolution on the social and business structures of tomorrow." —From the Foreword by James Gordon, Managing Director, Navigant Consulting, Inc. Get the knowledge you need to make informed decisions throughout the computer forensic investigation process Investigative Computer Forensics zeroes in on a real need felt by lawyers, jurists, accountants, administrators, senior managers, and business executives around the globe: to understand the forensic investigation landscape before having an immediate and dire need for the services of a forensic investigator. Author Erik Laykin—leader and pioneer of computer forensic investigations—presents complex technical information in easily understandable concepts, covering: A primer on computers and networks Computer forensic fundamentals Investigative fundamentals Objectives and challenges in investigative computer forensics E-discovery responsibilities The future of computer forensic investigations Get the knowledge you need to make tough decisions during an internal investigation or while engaging the capabilities of a computer forensic professional with the proven guidance found in Investigative Computer Forensics.

Now extensively updated, this authoritative, intensely practical guide to digital forensics draws upon the author's wide-ranging experience in law enforcement, including his pioneering work as a forensics examiner in both criminal and civil investigations. Writing for students and other readers at all levels of experience, Dr. Darren Hayes presents comprehensive, modern best practices for capturing and analyzing evidence, protecting the chain of custody, documenting investigations, and more -- all designed for application in actual crime scenes. In this edition, Hayes tightly aligns his coverage with widely-respected government curricula, including NSA Knowledge Units; and with key professional certifications such as AccessData Certified Examiner (ACE). A Practical Guide to Digital Forensics Investigations, Second Edition presents more hands-on activities and case studies than any book of its kind, including short questions, essay questions, and discussion questions in every chapter. It addresses issues ranging from device hardware and software to law, privacy and ethics; scientific and government protocols to techniques for investigation and reporting. Reflecting his deep specialized knowledge, this edition offers unsurpassed coverage of mobile forensics, including a full chapter on mobile apps. It also adds new discussions of capturing investigatory data from today's ubiquitous Internet of Things (IoT) devices; as well as digital forensics techniques for incident response and related cybersecurity tasks. Throughout, Hayes presents detailed chapters on crucial topics that competitive books gloss over, including Mac forensics and investigating

child endangerment.

All you need to know to succeed in digital forensics: technical and investigative skills, in one book Complete, practical, and up-to-date Thoroughly covers digital forensics for Windows, Mac, mobile, hardware, and networks Addresses online and lab investigations, documentation, admissibility, and more By Dr. Darren Hayes, founder of Pace University's Code Detectives forensics lab–one of America's "Top 10 Computer Forensics Professors" Perfect for anyone pursuing a digital forensics career or working with examiners Criminals go where the money is. Today, trillions of dollars of assets are digital, and digital crime is growing fast. In response, demand for digital forensics experts is soaring. To succeed in this exciting field, you need strong technical and investigative skills. In this guide, one of the world's leading computer orensics experts teaches you all the skills you'll need. Writing for students and professionals at all levels, Dr. Darren Hayes presents complete best practices for capturing and analyzing evidence, protecting the chain of custody, documenting investigations, and scrupulously adhering to the law, so your evidence can always be used. Hayes introduces today's latest technologies and technical challenges, offering detailed coverage of crucial topics such as mobile forensics, Mac forensics, cyberbullying, and child endangerment. This guide's practical activities and case studies give you hands-on mastery of modern digital forensics tools and techniques. Its many realistic examples reflect the author's extensive and pioneering work as a forensics examiner in both criminal and civil

investigations. Understand what computer forensics examiners do, and the types of digital evidence they work with Explore Windows and Mac computers, understand how their features affect evidence gathering, and use free tools to investigate their contents Extract data from diverse storage devices Establish a certified forensics lab and implement good practices for managing and processing evidence Gather data and perform investigations online Capture Internet communications, video, images, and other content Write comprehensive reports that withstand defense objections and enable successful prosecution Follow strict search and surveillance rules to make your evidence admissible Investigate network breaches, including dangerous Advanced Persistent Threats (APTs) Retrieve immense amounts of evidence from smartphones, even without seizing them Successfully investigate financial fraud performed with digital devices Use digital photographic evidence, including metadata and social media images Dissecting the dark side of the Internet with its infectious worms, botnets, rootkits, and Trojan horse programs (known as malware) is a treaterous condition for any forensic investigator or analyst. Written by information security experts with real-world investigative experience, Malware Forensics Field Guide for Windows Systems is a "tool" with checklists for specific tasks, case studies of difficult situations, and expert analyst tips. *A condensed hand-held guide complete with on-the-job tasks and checklists *Specific for Windows-based systems, the largest running OS in the world *Authors are world-renowned leaders in investigating and analyzing

malicious code

Use this hands-on, introductory guide to understand and implement digital forensics to investigate computer crime using Windows, the most widely used operating system. This book provides you with the necessary skills to identify an intruder's footprints and to gather the necessary digital evidence in a forensically sound manner to prosecute in a court of law. Directed toward users with no experience in the digital forensics field, this book provides guidelines and best practices when conducting investigations as well as teaching you how to use a variety of tools to investigate computer crime. You will be prepared to handle problems such as law violations, industrial espionage, and use of company resources for private use. Digital Forensics Basics is written as a series of tutorials with each task demonstrating how to use a specific computer forensics tool or technique. Practical information is provided and users can read a task and then implement it directly on their devices. Some theoretical information is presented to define terms used in each technique and for users with varying IT skills. What You'll Learn Assemble computer forensics lab requirements, including workstations, tools, and more Document the digital crime scene, including preparing a sample chain of custody form Differentiate between law enforcement agency and corporate investigations Gather intelligence using OSINT sources Acquire and analyze digital evidence Conduct in-depth forensic analysis of Windows operating systems covering Windows 10–specific feature forensics Utilize anti-forensic techniques, including steganography, data

destruction techniques, encryption, and anonymity techniques Who This Book Is For Police and other law enforcement personnel, judges (with no technical background), corporate and nonprofit management, IT specialists and computer security professionals, incident response team members, IT military and intelligence services officers, system administrators, e-business security professionals, and banking and insurance professionals

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.

Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events

from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780073378152 .

The primary purpose of computer forensics is to enable organisations to pinpoint where the malware has infected their computer systems and which files have been infected, so that they can close the vulnerability. More and more organisations have realised that they need to acquire a forensic capability to ensure they are ready to cope with an information security incident. This pocket guide illustrates the technical complexities involved in computer forensics, and shows managers what makes the discipline relevant to their organisation. For technical staff, the book offers an invaluable insight into the key processes and procedures that are required.

Digital Forensics with Open Source Tools is the definitive book on investigating and analyzing computer systems and media using open source tools. The book is a technical procedural guide, and explains the use of open source tools on Mac, Linux and Windows systems as a platform for performing computer forensics. Both well-known and novel forensic methods are demonstrated using command-line and graphical open source computer forensic tools for examining a wide range of target systems and artifacts. Written by world-renowned forensic practitioners, this book uses the most current examination and analysis techniques in the field. It consists of 9 chapters that cover a range of topics such

as the open source examination platform; disk and file system analysis; Windows systems and artifacts; Linux systems and artifacts; Mac OS X systems and artifacts; Internet artifacts; and automating analysis and extending capabilities. The book lends itself to use by students and those entering the field who do not have means to purchase new tools for different investigations. This book will appeal to forensic practitioners from areas including incident response teams and computer forensic investigators; forensic technicians from legal, audit, and consulting firms; and law enforcement agencies. Written by world-renowned forensic practitioners Details core concepts and techniques of forensic file system analysis Covers analysis of artifacts from the Windows, Mac, and Linux operating systems 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.

The Laboratory Manual is a valuable tool designed to enhance your lab experience. Lab activities, objectives, materials lists, step-by-step procedures, illustrations, and review questions are commonly found in a Lab Manual. Which are the user accounts that are present in the computer? What number of events are in each log for your computer? What is the difference between an expert and a lay witness? How is the data to be collected and analyzed determined in computer forensics investigation? How many computers will be at the location? This easy Computer Forensics self-assessment will make you the dependable Computer Forensics domain authority by revealing just what you need to know to be fluent and ready for any Computer Forensics challenge. How do I reduce the effort in the Computer Forensics work to be done to get problems solved? How can I ensure that plans of action include every Computer Forensics task and that every Computer Forensics outcome is in place? How will I save time investigating strategic and tactical options and ensuring Computer Forensics costs are low? How can I deliver tailored Computer Forensics advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all

Computer Forensics essentials are covered, from every angle: the Computer Forensics self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Computer Forensics outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Computer Forensics practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Computer Forensics are maximized with professional results. Your purchase includes access details to the Computer Forensics self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Computer Forensics Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the

most accurate information at your fingertips.
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