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Digital Forensics: The Primer
For Getting Started In Digital
Forensics

*The Basics Of Digital
Forensics: The Primer
For Getting Started In
Digital Forensics*

The Basics of Digital Forensics provides a
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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

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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

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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,

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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

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intrusion response, and electronic discovery; as well as updated case studies, expert interviews, and expanded resources and references.

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

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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

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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

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considerations that apply during a forensic 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.

The highly experienced authors of the

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Essentials of Forensic Accounting define and explain the disciplined approaches to forensic accounting that lead to a thorough knowledge of the varied specialties within forensic accounting. Through illustrative examples and explanations, this book makes abstract concepts come to life for both seasoned

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professionals and students and it will help them understand and navigate successfully in this multifaceted area. The Essentials of Forensic Accounting is an indispensable resource delivering matchless knowledge to practitioners, financial managers and students in understanding the complex elements and factors that impact the

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forensic accounting practice areas. This vital reference resource focuses the elements that must come together to effectively diminish the incidence and impact of fraudulent activities. The book addresses the main themes of Professional Responsibilities and Practice Management Fundamental Forensic Knowledge, Laws,

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Courts, and Dispute Resolution
Specialized Forensic Knowledge,
Bankruptcy, Insolvency, and
Reorganization

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

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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.

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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

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Forensics
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

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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,

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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

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case example images Features real-word 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

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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.

Digital Forensics with Open Source Tools
Learn Computer Forensics

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Practical Linux Forensics

IPhone Forensics

Guide to Digital Forensics

The Basics of Cyber Safety

Digital Forensics for Legal

Professionals provides you with a
guide to digital technology forensics

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in plain English. In the authors' years of experience in working with attorneys as digital forensics experts, common questions arise again and again: “ What do I ask for?? “ Is the evidence relevant?? “ What does this item in the forensic report mean??

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“ What should I ask the other expert?? “ What should I ask you??

“ Can you explain that to a jury??

This book answers many of those questions in clear language that is understandable by non-technical people. With many illustrations and

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diagrams that will be usable in court, they explain technical concepts such as unallocated space, forensic copies, timeline artifacts and metadata in simple terms that make these concepts accessible to both attorneys and juries. The authors also explain how to

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determine what evidence to ask for, evidence might be that could be discoverable, and the methods for getting to it including relevant subpoena and motion language. Additionally, this book provides an overview of the current state of digital

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forensics, the right way to select a qualified expert, what to expect from a qualified expert and how to properly use experts before and during trial. Includes a companion Web site with: courtroom illustrations, and examples of discovery motions Provides

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examples of direct and cross examination questions for digital evidence Contains a reference of definitions of digital forensic terms, relevant case law, and resources for the attorney

The Digital Forensics Workbook is a

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filled with over 60 hands-on activities using over 40 different tools for digital forensic examiners who want to gain practice acquiring and analyzing digital data. Topics include analysis of media, network traffic, memory, and mobile apps. By becoming proficient

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in these activities, examiners can then focus on the recovered data and conduct in-depth analyses. This workbook was designed to augment existing digital forensics learning, whether it be formalized academic courses, industry training classes, on-

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the-job learning, or independent studying. The hands-on activities include step-by-step procedures for the reader so they obtain the identical results presented in the workbook. Activities include over 150 questions and answers to reinforce content.

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Additional exercises with answers are also provided so readers can apply what they have learned.

Digital Forensics, Investigation, and Response, Fourth Edition examines the fundamentals of system forensics, addresses the tools, techniques, and

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methods used to perform computer forensics and investigation, and explores incident and intrusion response,

Get up and running with collecting evidence using forensics best practices to present your findings in judicial or

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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

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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

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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

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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,

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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,

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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

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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

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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

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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

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digital forensics and interested in making a career in the cybersecurity domain.

Handbook of Research on
Multimedia Cyber Security

The Basics of Digital Forensics

The Basics of Digital Forensics, 2nd

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Edition

The Basics of Digital Forensics,
Second Edition

A Concise and Practical Introduction
Digital Forensic Education

*Network forensics is an evolution of
typical digital forensics, in which*

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evidence is gathered from network traffic in near real time. This book will help security and forensics professionals as well as network administrators build a solid foundation of processes and controls to identify incidents and gather

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*evidence from the network. Forensic
scientists and investigators are some of
the fastest growing jobs in the United
States with over 70,000 individuals
employed in 2008. Specifically in the
area of cybercrime and digital
forensics, the federal government is*

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conducting a talent search for 10,000 qualified specialists. Almost every technology company has developed or is developing a cloud computing strategy. To cut costs, many companies are moving toward network-based applications like SalesForce.com,

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PeopleSoft, and HR Direct. Every day, we are moving companies' proprietary data into a cloud, which can be hosted anywhere in the world. These companies need to understand how to identify where their data is going and what they are sending. Key network

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*forensics skills and tools are discussed-
for example, capturing network
traffic, using Snort for network-based
forensics, using NetWitness
Investigator for network traffic
analysis, and deciphering TCP/IP. The
current and future states of network*

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forensics analysis tools are addressed. The admissibility of network-based traffic is covered as well as the typical life cycle of a network forensics investigation.

Essay from the year 2015 in the subject Computer Science -

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*Miscellaneous, UNITEC New Zealand,
language: English, abstract: Nowadays
the use of computers is increasing
more and more. This has allowed the
development of the internet. In turn,
the Internet has brought many
benefits, but the internet has also*

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contributed to the rise of cyber-crime. So, with the rise of cybercrime, it has become critical to increase and develop computer systems security. Each time, the techniques used by cybercriminals are more sophisticated, making it more difficult to protect corporate networks.

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Because of this, the computer security of these companies has been violated, and it is here at this point when digital analysis forensic is needed to discover cybercriminals. So, with the rise of cybercrime, digital forensics is increasingly gaining importance in the

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area of information technology. For this reason, when a crime is done, the crime information is stored digitally. Therefore, it must use appropriate mechanisms for the collection, preservation, protection, analysis and presentation of digital evidence stored

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in electronic devices. It is here that the need arises for digital forensics. In this report, I am going to explain what digital forensics is. Also, I will describe some forensic software and hardware and the importance of suitable forensic labs. So, let's start.

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The field of computer forensics has experienced significant growth recently and those looking to get into the industry have significant opportunity for upward mobility. Focusing on the concepts investigators need to know to conduct a thorough

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investigation, Digital Forensics

*Explained provides an overall
description of the forensic practice
from a practitioner's perspective.
Starting with an overview, the text
describes best practices based on the
author's decades of experience*

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conducting investigations and working in information technology. It illustrates the forensic process, explains what it takes to be an investigator, and highlights emerging trends. Filled with helpful templates and contributions from seasoned

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experts in their respective fields, the book includes coverage of: Internet and email investigations Mobile forensics for cell phones, iPads, music players, and other small devices Cloud computing from an architecture perspective and its impact on digital

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*forensics Anti-forensic techniques that
may be employed to make a forensic
exam more difficult to conduct
Recoverability of information from
damaged media The progression of a
criminal case from start to finish
Tools that are often used in an*

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examination, including commercial, free, and open-source tools; computer and mobile tools; and things as simple as extension cords Social media and social engineering forensics Case documentation and presentation, including sample summary reports and

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*a cover sheet for a cell phone
investigation The text includes
acquisition forms, a sequential process
outline to guide your investigation, and
a checklist of supplies you'll need
when responding to an incident.
Providing you with the understanding*

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and the tools to deal with suspects who find ways to make their digital activities hard to trace, the book also considers cultural implications, ethics, and the psychological effects that digital forensics investigations can have on investigators.

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*Digital Forensics Trial Graphics:
Teaching the Jury Through Effective
Use of Visuals helps digital forensic
practitioners explain complex
technical material to laypeople (i.e.,
juries, judges, etc.). The book includes
professional quality illustrations of*

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technology that help anyone understand the complex concepts behind the science. Users will find invaluable information on theory and best practices along with guidance on how to design and deliver successful explanations. Helps users learn skills

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*for the effective presentation of
digital forensic evidence via graphics
in a trial setting to laypeople such as
juries and judges Presents the
principles of visual learning and
graphic design as a foundation for
developing effective visuals*

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*Demonstrates the best practices of
slide design to develop effective
visuals for presentation of evidence
Professionally developed graphics,
designed specifically for digital
forensics, that you can use at trial
Downloadable graphics available at: h*

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Digital Forensics

Digital Forensics and Cyber Crime

A Guide for Digital Investigators

A Forensic Evidence Guide for

Moving Targets and Data

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***Digital Forensics, Investigation, and
Response***

Digital Forensics Explained

In a unique and systematic way, this book discusses the security and privacy aspects of the cloud, and the relevant cloud forensics. Cloud computing is an emerging yet revolutionary technology that has been

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changing the way people live and work. However, with the continuous growth of cloud computing and related services, security and privacy has become a critical issue. Written by some of the top experts in the field, this book specifically discusses security and privacy of the cloud, as well as the digital forensics of

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cloud data, applications, and services. The first half of the book enables readers to have a comprehensive understanding and background of cloud security, which will help them through the digital investigation guidance and recommendations found in the second half of the book. Part One of Security, Privacy and Digital Forensics in

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Forensics
the Cloud covers cloud infrastructure security; confidentiality of data; access control in cloud IaaS; cloud security and privacy management; hacking and countermeasures; risk management and disaster recovery; auditing and compliance; and security as a service (SaaS). Part Two addresses cloud

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forensics – model, challenges, and approaches; cyberterrorism in the cloud; digital forensic process and model in the cloud; data acquisition; digital evidence management, presentation, and court preparation; analysis of digital evidence; and forensics as a service (FaaS).

Thoroughly covers both security and

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privacy of cloud and digital forensics

Contributions by top researchers from the U.S., the European and other countries, and professionals active in the field of information and network security, digital and computer forensics, and cloud and big data Of interest to those focused upon security and implementation, and incident

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management Logical, well-structured, and organized to facilitate comprehension Security, Privacy and Digital Forensics in the Cloud is an ideal book for advanced undergraduate and master's-level students in information systems, information technology, computer and network forensics, as well as computer science. It

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Forensics
can also serve as a good reference book for security professionals, digital forensics practitioners and cloud service providers.

"This book is a must for anyone attempting to examine the iPhone. The level of forensic detail is excellent. If only all guides to forensics were written with this clarity!"-Andrew Sheldon, Director of

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Evidence Talks, computer forensics experts With iPhone use increasing in business networks, IT and security professionals face a serious challenge: these devices store an enormous amount of information. If your staff conducts business with an iPhone, you need to know how to recover, analyze, and

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securely destroy sensitive data. iPhone Forensics supplies the knowledge necessary to conduct complete and highly specialized forensic analysis of the iPhone, iPhone 3G, and iPod Touch. This book helps you: Determine what type of data is stored on the device Break v1.x and v2.x passcode-protected iPhones to gain access

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to the device Build a custom recovery
toolkit for the iPhone Interrupt iPhone
3G's "secure wipe" process Conduct data
recovery of a v1.x and v2.x iPhone user
disk partition, and preserve and recover
the entire raw user disk partition Recover
deleted voicemail, images, email, and
other personal data, using data carving

Access Free The Basics Of Digital Forensics: The Primer For Getting Started In Digital Forensics techniques Recover geotagged metadata from camera photos Discover Google map lookups, typing cache, and other data stored on the live file system Extract contact information from the iPhone's database Use different recovery strategies based on case needs And more. iPhone Forensics includes techniques used by

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more than 200 law enforcement agencies worldwide, and is a must-have for any corporate compliance and disaster recovery plan.

The Basics of Cyber Safety: Computer and Mobile Device Safety Made Easy presents modern tactics on how to secure computer and mobile devices, including what

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behaviors are safe while surfing, searching, and interacting with others in the virtual world. The book's author, Professor John Sammons, who teaches information security at Marshall University, introduces readers to the basic concepts of protecting their computer, mobile devices, and data during a time that

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is described as the most connected in history. This timely resource provides useful information for readers who know very little about the basic principles of keeping the devices they are connected to—or themselves—secure while online. In addition, the text discusses, in a non-technical way, the cost of connectedness

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to your privacy, and what you can do to it, including how to avoid all kinds of viruses, malware, cybercrime, and identity theft. Final sections provide the latest information on safe computing in the workplace and at school, and give parents steps they can take to keep young kids and teens safe online. Provides the most

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straightforward and up-to-date guide to cyber safety for anyone who ventures online for work, school, or personal use

Includes real world examples that demonstrate how cyber criminals commit their crimes, and what users can do to keep their data safe

Updated with the latest advances from the

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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

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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

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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.

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referenced within the product description
or the product text may not be available in
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Digital Forensics and Investigations

An Introduction

15th IFIP WG 11.9 International

Conference, Orlando, FL, USA, January

28–29, 2019, Revised Selected Papers

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Forensics
Essentials of Forensic Accounting
Cybercrime and Digital Forensics
Computer Forensics For Dummies
*Digital forensics has been a
discipline of Information
Security for decades now.
Its principles,*

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methodologies, and techniques have remained consistent despite the evolution of technology, and, ultimately, it and can be applied to any form of digital data. However, within a

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*corporate environment,
digital forensic professionals
are particularly challenged.
They must maintain the
legal admissibility and
forensic viability of digital
evidence in support of a*

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*broad range of different
business functions that
include incident response,
electronic discovery
(ediscovery), and ensuring
the controls and
accountability of such*

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Forensics
*information across
networks. Digital Forensics
and Investigations: People,
Process, and Technologies
to Defend the Enterprise
provides the methodologies
and strategies necessary for*

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*these key business functions
to seamlessly integrate
digital forensic capabilities
to guarantee the
admissibility and integrity of
digital evidence. In many
books, the focus on digital*

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evidence is primarily in the technical, software, and investigative elements, of which there are numerous publications. What tends to get overlooked are the people and process elements

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within the organization.

Taking a step back, the book outlines the importance of integrating and accounting for the people, process, and technology components of digital forensics. In essence,

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*to establish a holistic
paradigm—and best-practice
procedure and policy
approach—to defending the
enterprise. This book serves
as a roadmap for
professionals to successfully*

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*integrate an organization's
people, process, and
technology with other key
business functions in an
enterprise's digital forensic
capabilities.*

In this book, the editors

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*explain how students
enrolled in two digital
forensic courses at their
institution are exposed to
experiential learning
opportunities, where the
students acquire the*

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knowledge and skills of the subject-matter while also learning how to adapt to the ever-changing digital forensic landscape. Their findings (e.g., forensic examination of different IoT

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Forensics
*devices) are also presented
in the book. Digital forensics
is a topic of increasing
importance as our society
becomes “smarter” with
more of the “things” around
us been internet- and inter-*

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connected (e.g., Internet of Things (IoT) and smart home devices); thus, the increasing likelihood that we will need to acquire data from these things in a forensically sound manner.

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Forensics

This book is of interest to both digital forensic educators and digital forensic practitioners, as well as students seeking to learn about digital forensics.

Handbook of Digital

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For Getting Started In 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

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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

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For Getting Started In Digital
*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.*

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For Getting Started In Digital
Forensics

*Specifically, the
Investigative Methodology
section of the Handbook
provides expert guidance in
the three main areas of
practice: Forensic Analysis,
Electronic Discovery, and*

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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

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Forensics
*forensic analysis of
Windows, Unix, Macintosh,
and embedded systems
(including cellular
telephones and other mobile
devices), and investigations
involving networks*

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For Getting Started In Digital
Forensics
*(including enterprise
environments and mobile
telecommunications
technology). This handbook
is an essential technical
reference and on-the-job
guide that IT professionals,*

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*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*

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Forensics
*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*

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*tools in the context of the
investigative process,
including EnCase, FTK,
ProDiscover, foremost,
XACT, Network Miner,
Splunk, flow-tools, and many
other specialized utilities*

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Forensics
*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*

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For Getting Started In Digital

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

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forensics is, the methodologies used, key technical concepts and the tools needed to perform examinations. Details on digital forensics for computers, networks, cell

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Forensics
*phones, GPS, the cloud, and
Internet are discussed. Also
learn how to collect
evidence, document the
scene, and how deleted data
is recovered. Learn all about
what Digital Forensics*

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Forensics

*entails Build a toolkit and
prepare an investigative
plan Understand the
common artifacts to look for
during an exam*

*The Primer for Getting
Started in Digital Forensics*

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Forensics

*Digital Forensics for Legal
Professionals*

Practical Digital Forensics

Digital Evidence and

Computer Crime

Digital Forensics Basics

Digital Forensics and

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Incident Response
Forensics

*This timely
text/reference presents
a detailed introduction
to the essential aspects
of computer network
forensics. The book*

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*considers not only how
to uncover information
hidden in email
messages, web pages and
web servers, but also
what this reveals about
the functioning of the*

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*Internet and its core
Forensics protocols. This, in
turn, enables the
identification of
shortcomings and
highlights where
improvements can be made*

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Forensics

*for a more secure
network. Topics and
features: provides
learning objectives in
every chapter, and
review questions
throughout the book to*

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*test understanding;
introduces the basic
concepts of network
process models, network
forensics frameworks and
network forensics tools;
discusses various*

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*techniques for the
acquisition of packets
in a network forensics
system, network
forensics analysis, and
attribution in network
forensics; examines a*

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Forensics
range of advanced
topics, including
botnet, smartphone, and
cloud forensics; reviews
a number of freely
available tools for
performing forensic

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activities.

*Use this hands-on,
introductory guide to
understand and implement
digital forensics to
investigate computer
crime using Windows, the*

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*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*

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Forensics
*evidence in a
forensically sound
manner to prosecute in a
court of law. Directed
toward users with no
experience in the
digital forensics field,*

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*this book provides
guidelines and best
practices when
conducting
investigations as well
as teaching you how to
use a variety of tools*

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*to investigate computer
crime. You will be
prepared to handle
problems such as law
violations, industrial
espionage, and use of
company resources for*

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*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*

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technique. Practical information is provided and users can read a task and then implement it directly on their devices. Some theoretical information

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*is presented to define
Forensics
terms used in each
technique and for users
with varying IT skills.
What You'll Learn
Assemble computer
forensics lab*

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Forensics
requirements, including
workstations, tools, and
more Document the
digital crime scene,
including preparing a
sample chain of custody
form Differentiate

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*between law enforcement
agency and corporate
investigations Gather
intelligence using OSINT
sources Acquire and
analyze digital evidence
Conduct in-depth*

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Forensics
*forensic analysis of
Windows operating
systems covering Windows
10-specific feature
forensics Utilize anti-
forensic techniques,
including steganography,*

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Forensics

*data destruction
techniques, encryption,
and anonymity techniques*

*Who This Book Is For
Police and other law
enforcement personnel,
judges (with no*

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*technical background),
corporate and nonprofit
management, IT
specialists and computer
security professionals,
incident response team
members, IT military and*

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*intelligence services
officers, system
administrators, e-
business security
professionals, and
banking and insurance
professionals*

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The widespread use of information and communications technology (ICT) has created a global platform for the exchange of ideas, goods

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Forensics
and services, the
benefits of which are
enormous. However, it
has also created
boundless opportunities
for fraud and deception.
Cybercrime is one of the

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biggest growth industries around the globe, whether it is in the form of violation of company policies, fraud, hate crime, extremism, or terrorism. It is

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Forensics

*therefore paramount that
the security industry
raises its game to
combat these threats.
Today's top priority is
to use computer
technology to fight*

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*computer crime, as our
commonwealth is
protected by firewalls
rather than firepower.
This is an issue of
global importance as new
technologies have*

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*provided a world of
opportunity for
criminals. This book is
a compilation of the
collaboration between
the researchers and
practitioners in the*

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Forensics
*security field; and
provides a comprehensive
literature on current
and future e-security
needs across
applications,
implementation, testing*

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Forensics
*or investigative
techniques, judicial
processes and criminal
intelligence. The
intended audience
includes members in
academia, the public and*

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For Getting Started In Digital
Forensics

*private sectors,
students and those who
are interested in and
will benefit from this
handbook.*

*The Basics of Digital
Forensics The Primer for*

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For Getting Started In Digital

*Getting Started in
Digital*

Forensics Syngress

A Research Perspective

An Experiential Learning

Approach

Theory, Methods, and

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Forensics
*Real-Life Applications
People, Process, and
Technologies to Defend
the Enterprise
Advances in Digital
Forensics XV
Meeting the Requirements*
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For Getting Started In Digital
Forensics
of ISO 17020, ISO 17025,
ISO 27001 and Best
Practice Requirements

**Uncover a digital trail of
e-evidence by using the
helpful, easy-to-
understand information**

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Forensics

***in Computer Forensics
For Dummies!***

***Professional and
armchair investigators
alike can learn the basics
of computer forensics,
from digging out***

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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

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***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***

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**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**

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***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***

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For Getting Started In Digital
Forensics

***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***

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***Transfer evidence without
contaminating it
Anticipate legal loopholes
and opponents' methods
Handle passwords and
encrypted data Work with
the courts and win the***

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***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***

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***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.
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***other supplementary
materials are not
included as part of eBook
file.***

***"Digital Evidence and
Computer Crime"
provides the knowledge***

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***necessary to uncover and
use digital evidence
effectively in any kind of
investigation. This
completely updated
edition provides the
introductory materials***

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***that new students
require, and also expands
on the material presented
in previous editions to
help students develop
these skills.***

Get started with the art

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***and science of digital
forensics with this
practical, hands-on guide!***
About This Book
***Champion the skills of
digital forensics by
understanding the nature***

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Forensics

***of recovering and
preserving digital
information which is
essential for legal or
disciplinary proceedings
Explore new and
promising forensic***

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***processes and tools based
on 'disruptive technology'
to regain control of
caseloads. Richard
Boddington, with 10+
years of digital forensics,
demonstrates real life***

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**scenarios with a
pragmatic approach Who
This Book Is For This
book is for anyone who
wants to get into the field
of digital forensics. Prior
knowledge of**

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For Getting Started In Digital
**programming languages
(any) will be of great
help, but not a
compulsory prerequisite.
What You Will Learn Gain
familiarity with a range of
different digital devices**

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***and operating and
application systems that
store digital evidence.
Appreciate and
understand the function
and capability of forensic
processes and tools to***

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Forensics

***locate and recover digital
evidence. Develop an
understanding of the
critical importance of
recovering digital
evidence in pristine
condition and ensuring***

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Forensics
***its safe handling from
seizure to tendering it in
evidence in court.***

***Recognise the attributes
of digital evidence and
where it may be hidden
and is often located on a***

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***range of digital devices.
Understand the
importance and challenge
of digital evidence
analysis and how it can
assist investigations and
court cases. Explore***

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***emerging technologies
and processes that
empower forensic
practitioners and other
stakeholders to harness
digital evidence more
effectively. In Detail***

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Digital Forensics is a methodology which includes using various tools, techniques, and programming language. This book will get you started with digital

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***forensics and then follow
on to preparing
investigation plan and
preparing toolkit for
investigation. In this book
you will explore new and
promising forensic***

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***processes and tools based
on 'disruptive technology'
that offer experienced
and budding practitioners
the means to regain
control of their caseloads.
During the course of the***

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For Getting Started In Digital
***book, you will get to know
about the technical side
of digital forensics and
various tools that are
needed to perform digital
forensics. This book will
begin with giving a quick***

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***insight into the nature of
digital evidence, where it
is located and how it can
be recovered and
forensically examined to
assist investigators. This
book will take you***

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***through a series of
chapters that look at the
nature and circumstances
of digital forensic
examinations and
explains the processes of
evidence recovery and***

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***preservation from a range
of digital devices,
including mobile phones,
and other media. This
book has a range of case
studies and simulations
will allow you to apply the***

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***knowledge of the theory
gained to real-life
situations. By the end of
this book you will have
gained a sound insight
into digital forensics and
its key components. Style***

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Forensics
***and approach The book
takes the reader through
a series of chapters that
look at the nature and
circumstances of digital
forensic examinations
and explains the***

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***processes of evidence
recovery and preservation
from a range of digital
devices, including mobile
phones, and other media.
The mystery of digital
forensics is swept aside***

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and the reader will gain a quick insight into the nature of digital evidence, where it is located and how it can be recovered and forensically examined to assist investigators.

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Digital Forensics:
Threatscape and Best
Practices surveys the
problems and challenges
confronting digital
forensic professionals
today, including massive

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***data sets and
everchanging technology.
This book provides a
coherent overview of the
threatscape in a broad
range of topics, providing
practitioners and***

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***students alike with a
comprehensive, coherent
overview of the threat
landscape and what can
be done to manage and
prepare for it. Digital
Forensics: Threatscape***

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and Best Practices
delivers you with incisive
analysis and best
practices from a panel of
expert authors, led by
John Sammons,
bestselling author of The

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**Basics of Digital
Forensics. Learn the
basics of cryptocurrencies
(like Bitcoin) and the
artifacts they generate
Learn why examination
planning matters and how**

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to do it effectively

Discover how to

***incorporate behavioral
analysis into your digital
forensics examinations***

***Stay updated with the key
artifacts created by the***

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***latest Mac OS, OS X
10.11, El Capitan
Discusses the
threatscapes and
challenges facing mobile
device forensics, law
enforcement, and legal***

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*cases The power of
applying the electronic
discovery workflows to
digital forensics Discover
the value of and impact of
social media forensics
Recovering Evidence,*

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***Personal Data, and
Corporate Assets
Threatscape and Best
Practices
A Practical Guide Using
Windows OS***

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Forensics

***The Best Damn
Cybercrime and Digital
Forensics Book Period
Guide to Computer
Forensics and
Investigations***

This hands-on textbook provides

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an accessible introduction to the fundamentals of digital forensics. The text contains thorough coverage of the theoretical foundations, explaining what computer forensics is, what it can do, and

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also what it can't. A particular focus is presented on establishing sound forensic thinking and methodology, supported by practical guidance on performing typical tasks and using common forensic tools.

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Emphasis is also placed on universal principles, as opposed to content unique to specific legislation in individual countries. Topics and features: introduces the fundamental concepts in digital forensics, and

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the steps involved in a forensic examination in a digital environment; discusses the nature of what cybercrime is, and how digital evidence can be of use during criminal investigations into such crimes;

Access Free The Basics Of Digital Forensics: The Primer For Getting Started In Digital Forensics offers a practical overview of common practices for cracking encrypted data; reviews key artifacts that have proven to be important in several cases, highlighting where to find these and how to correctly interpret

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them; presents a survey of various different search techniques, and several forensic tools that are available for free; examines the functions of AccessData Forensic Toolkit and Registry Viewer; proposes

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methods for analyzing applications, timelining, determining the identity of the computer user, and deducing if the computer was remote controlled; describes the central concepts relating to computer

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memory management, and how to perform different types of memory analysis using the open source tool Volatility; provides review questions and practice tasks at the end of most chapters, and supporting video

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examinations in law
enforcement or in the private
sector.

Digital Forensics with Open
Source Tools is the definitive
book on investigating and
analyzing computer systems and

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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.

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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

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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

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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

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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

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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

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concepts and techniques of
forensic file system analysis

Covers analysis of artifacts from
the Windows, Mac, and Linux
operating systems

Because it makes the
distribution and transmission of

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digital information much easier and more cost effective, multimedia has emerged as a top resource in the modern era. In spite of the opportunities that multimedia creates for businesses and companies,

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information sharing remains vulnerable to cyber attacks and hacking due to the open channels in which this data is being transmitted. Protecting the authenticity and confidentiality of information is a top priority

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for all professional fields that currently use multimedia practices for distributing digital data. The Handbook of Research on Multimedia Cyber Security provides emerging research exploring the theoretical and

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Forensics
practical aspects of current
security practices and
techniques within multimedia
information and assessing
modern challenges. Featuring
coverage on a broad range of
topics such as cryptographic

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protocols, feature extraction, and
chaotic systems, this book is
ideally designed for scientists,
researchers, developers, security
analysts, network
administrators, scholars, IT
professionals, educators, and

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students seeking current research on developing strategies in multimedia security.

The emergence of the World Wide Web, smartphones, and Computer-Mediated

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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

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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

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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

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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

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methodological perspectives,
computer hacking and digital
piracy, economic crime and
online fraud, pornography and
online sex crime, cyber-bulling
and cyber-stalking, cyber-
terrorism and extremism, digital

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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

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cybercrime, cyber-deviancy,
digital forensics, cybercrime
investigation and the sociology
of technology.

Digital Forensics for Network,
Internet, and Cloud Computing
Hands-On Activities in Digital

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Teaching the Jury through
Effective Use of Visuals
Fundamentals of Digital
Forensics

Second International ICST
Conference, ICDF2C 2010, Abu

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Forensics
Dhabi, United Arab Emirates,
October 4-6, 2010, Revised
Selected Papers
Understanding Digital Evidence
from the Warrant to the
Courtroom

Digital forensics deals with the

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acquisition, preservation, examination, analysis and presentation of electronic evidence. Computer networks, cloud computing, smartphones, embedded devices and the Internet of Things have expanded the role of digital forensics beyond traditional computer crime investigations. Practically every

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crime now involves some aspect of digital evidence; digital forensics provides the techniques and tools to articulate this evidence in legal proceedings. Digital forensics also has myriad intelligence applications; furthermore, it has a vital role in cyber security -- investigations of security

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breaches yield valuable information that can be used to design more secure and resilient systems.

Advances in Digital Forensics XV describes original research results and innovative applications in the discipline of digital forensics. In addition, it highlights some of the major technical

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Forensics and legal issues related to digital evidence and electronic crime investigations. The areas of coverage include: forensic models, mobile and embedded device forensics, filesystem forensics, image forensics, and forensic techniques. This book is the fifteenth volume in the annual series

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*produced by the International
Federation for Information Processing
(IFIP) Working Group 11.9 on Digital
Forensics, an international community
of scientists, engineers and
practitioners dedicated to advancing
the state of the art of research and
practice in digital forensics. The book*

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contains a selection of fourteen edited papers from the Fifteenth Annual IFIP WG 11.9 International Conference on Digital Forensics, held in Orlando, Florida, USA in the winter of 2019. Advances in Digital Forensics XV is an important resource for researchers, faculty members and graduate

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students, as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities.

A resource to help forensic investigators locate, analyze, and understand digital evidence found on

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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

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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

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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

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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,

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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 •

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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

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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

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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,

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*and mobiles, and reconstruct printing
and scanning activity*

*This book contains a selection of
thoroughly refereed and revised
papers from the Second International
ICST Conference on Digital Forensics
and Cyber Crime, ICDF2C 2010, held
October 4-6, 2010 in Abu Dhabi,*

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United Arab Emirates. The field of digital forensics is becoming increasingly important for law enforcement, network security, and information assurance. It is a multidisciplinary area that encompasses a number of fields, including law, computer science,

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finance, networking, data mining, and criminal justice. The 14 papers in this volume describe the various applications of this technology and cover a wide range of topics including law enforcement, disaster recovery, accounting frauds, homeland security, and information warfare.

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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

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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

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\$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

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*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*

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Forensics
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
Digital Forensics Tools and

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Techniques

Fundamentals of Network Forensics

*Digital Forensics Processing and
Procedures*

Digital Forensics Trial Graphics

*Security, Privacy, and Digital
Forensics in the Cloud*

Forensic Science, Computers and the

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Internet

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

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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,

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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

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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

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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

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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

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***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,***

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***and expanded resources and
references***

***A practical guide to deploying
digital forensic techniques in
response to cyber security
incidents About This Book Learn
incident response fundamentals***

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***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***

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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.

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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

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***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***

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***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***

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*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*

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***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***

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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.

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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

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***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***

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***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***

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**common cyber security incidents
such as malware infestation,
memory analysis, disk analysis,
and network analysis.
This is the first digital forensics
book that covers the complete
lifecycle of digital evidence and**

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the chain of custody. This comprehensive handbook includes international procedures, best practices, compliance, and a companion web site with downloadable forms. Written by world-

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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

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***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***

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**international standards and
certifications**

**Handbook of Digital Forensics
and Investigation**

**Handbook of Electronic Security
and Digital Forensics**

A beginner's guide to searching,

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*analyzing, and securing digital
evidence*

*Digital Forensics Workbook
Computer and Mobile Device
Safety Made Easy*