

WHAT TAKES PLACE IN A CYBER CRIME INVESTIGATION?

Cyber crime investigators perform many tasks including:



Determining the nature of a cyber crime



Performing digital forensics on devices



Conducting an initial investigation



Securing digital devices and evidence



Identifying possible digital evidence



Presenting evidence in the judicial system

Sources: International Association of Chiefs of Police, National Initiative for Cybersecurity Careers and Studies, SecurityTrails

Investigating Computer Crime

Robert Moore



Investigating Computer Crime:

Investigating Computer-Related Crime Peter Stephenson, Keith Gilbert, 2013-04-19 Since the last edition of this book was written more than a decade ago cybercrime has evolved Motives have not changed but new means and opportunities have arisen with the advancement of the digital age Investigating Computer Related Crime Second Edition incorporates the results of research and practice in a variety of venues growth in the fi Investigating Computer Crime Franklin Clark, Ken Diliberto, 1996-07-11 Investigating Computer Crime presents practical methods for gathering electronic evidence and dealing with crimes involving computers Based on material gathered from hundreds of investigators all over the world it contains an incredible amount of practical directly applicable information It follows a step by step approach to the investigation seizure and evaluation of computer evidence The material in the book has been used at the Federal Law Enforcement Training Center and the Canadian Police College for teaching computer classes in white collar crime and sex crime investigations and by U S Army Intelligence in cooperation with NATO in Europe It has also been used to teach a one week course in computer crime investigation to agents from the IRS Secret Service and state and local agencies Computers reach into every aspect of our lives today and as their use grows so does the possibility of their abuse This book is directly applicable and useful to virtually everyone working in all aspects of law enforcement From attorneys to police investigators from judges to students of criminology this book guides you step by step through computer crime investigation Don t be without this powerful tool for fighting this new form of crime Digital Evidence and Computer Crime Eoghan Casey, 2011-04-20 Though an increasing number of criminals are using computers and computer networks few investigators are well versed in the issues related to digital evidence This work explains how computer networks function and how they can be used in a crime **Investigating Computer Crime** Ronald L. Mendell, 1998 Emphasizes traditional investigative skills as the key to solving computer crimes Builds on a foundation of fundamental investigative methods such as observation and logic to cover topics including retail computer security crimes arising from e mail and the Internet and intelligence gathering techniques Discusses how to establish evidence of a crime how to develop the case for prosecution and how to prove damages For students and professionals in security and law enforcement Paper edition unseen 30 95 Annotation copyrighted by Book News Inc Portland OR **Cyber Crime Investigations** James Steele, Anthony Reyes, Richard Britton, Kevin O'Shea, 2011-04-18 Written by a former NYPD cyber cop this is the only book available that discusses the hard questions cyber crime investigators are asking The book begins with the chapter What is Cyber Crime This introductory chapter describes the most common challenges faced by cyber investigators today The following chapters discuss the methodologies behind cyber investigations and frequently encountered pitfalls Issues relating to cyber crime definitions the electronic crime scene computer forensics and preparing and presenting a cyber crime investigation in court will be examined Not only will these topics be generally be discussed and explained for the novice but the hard questions the questions that have the power to divide this community

will also be examined in a comprehensive and thoughtful manner This book will serve as a foundational text for the cyber crime community to begin to move past current difficulties into its next evolution This book has been written by a retired NYPD cyber cop who has worked many high profile computer crime cases Discusses the complex relationship between the public and private sector with regards to cyber crime Provides essential information for IT security professionals and first responders on maintaining chain of evidence Computer Crime Investigation Catherine H. Conly,1993-04 **Forensic Computer Crime Investigation** Thomas A. Johnson,2005-09-19 The Digital Age offers many far reaching opportunities opportunities that allow for fast global communications efficient business transactions and stealthily executed cyber crimes Featuring contributions from digital forensic experts the editor of Forensic Computer Crime Investigation presents a vital resource that outlines the latest strategy **Computer Forensics** Warren G. Kruse II,Jay G. Heiser,2001-09-26 Every computer crime leaves tracks you just have to know where to find them This book shows you how to collect and analyze the digital evidence left behind in a digital crime scene Computers have always been susceptible to unwanted intrusions but as the sophistication of computer technology increases so does the need to anticipate and safeguard against a corresponding rise in computer related criminal activity Computer forensics the newest branch of computer security focuses on the aftermath of a computer security incident The goal of computer forensics is to conduct a structured investigation to determine exactly what happened who was responsible and to perform the investigation in such a way that the results are useful in a criminal proceeding Written by two experts in digital investigation Computer Forensics provides extensive information on how to handle the computer as evidence Kruse and Heiser walk the reader through the complete forensics process from the initial collection of evidence through the final report Topics include an overview of the forensic relevance of encryption the examination of digital evidence for clues and the most effective way to present your evidence and conclusions in court Unique forensic issues associated with both the Unix and the Windows NT 2000 operating systems are thoroughly covered This book provides a detailed methodology for collecting preserving and effectively using evidence by addressing the three A s of computer forensics Acquire the evidence without altering or damaging the original data Authenticate that your recorded evidence is the same as the original seized data Analyze the data without modifying the recovered data Computer Forensics is written for everyone who is responsible for investigating digital criminal incidents or who may be interested in the techniques that such investigators use It is equally helpful to those investigating hacked web servers and those who are investigating the source of illegal pornography **Investigating Computer Crime in the 21st Century** Ronald L. Mendell,2004 Handbook of Computer Crime Investigation Eoghan Casey,2001-10-22 Following on the success of his introductory text Digital Evidence and Computer Crime Eoghan Casey brings together a few top experts to create the first detailed guide for professionals who are already familiar with digital evidence The Handbook of Computer Crime Investigation helps readers master the forensic analysis of computer systems with a three part approach covering tools

technology and case studies The Tools section provides the details on leading software programs with each chapter written by that product's creator The section ends with an objective comparison of the strengths and limitations of each tool The main Technology section provides the technical how to information for collecting and analyzing digital evidence in common situations starting with computers moving on to networks and culminating with embedded systems The Case Examples section gives readers a sense of the technical legal and practical challenges that arise in real computer investigations The Tools section provides details of leading hardware and software The main Technology section provides the technical how to information for collecting and analysing digital evidence in common situations Case Examples give readers a sense of the technical legal and practical challenges that arise in real computer investigations

Incident Response Chris Prosise, Kevin Mandia, 2001 Incident response is a multidisciplinary science that resolves computer crime and complex legal issues chronological methodologies and technical computer techniques The commercial industry has embraced and adopted technology that detects hacker incidents Companies are swamped with real attacks yet very few have any methodology or knowledge to resolve these attacks Incident Response Investigating Computer Crime will be the only book on the market that provides the information on incident response that network professionals need to conquer attacks

Investigating Computer-Related Crime Peter Stephenson, Keith Gilbert, 1999-09-28 Written by an experienced information security specialist Investigating Computer Related Crime is tailored to the needs of corporate information professionals and investigators It gives a step by step approach to understanding and investigating security problems and offers the technical information legal information and computer forensic techn

Investigating Computer-Related Crime, Second Edition Peter Stephenson, Keith Gilbert, 2013-06-13 Since the last edition of this book was written more than a decade ago cybercrime has evolved Motives have not changed but new means and opportunities have arisen with the advancement of the digital age Investigating Computer Related Crime Second Edition incorporates the results of research and practice in a variety of venues growth in the field and new technology to offer a fresh look at the topic of digital investigation Following an introduction to cybercrime and its impact on society this book examines Malware and the important differences between targeted attacks and general attacks The framework for conducting a digital investigation how it is conducted and some of the key issues that arise over the course of an investigation How the computer forensic process fits into an investigation The concept of system glitches vs cybercrime and the importance of weeding out incidents that don't need investigating Investigative politics that occur during the course of an investigation whether to involve law enforcement and when an investigation should be stopped How to prepare for cybercrime before it happens End to end digital investigation Evidence collection preservation management and effective use How to critique your investigation and maximize lessons learned This edition reflects a heightened focus on cyber stalking and cybercrime scene assessment updates the tools used by digital forensic examiners and places increased emphases on following the cyber trail and the concept of end to end digital investigation Discussion

questions at the end of each chapter are designed to stimulate further debate into this fascinating field **Digital Evidence and Computer Crime** Eoghan Casey, 2004-02-23 Digital Evidence and Computer Crime Second Edition is a hands on resource that aims to educate students and professionals in the law enforcement forensic science computer security and legal communities about digital evidence and computer crime This textbook explains how computers and networks function how they can be involved in crimes and how they can be used as a source of evidence In addition to gaining a practical understanding of how computers and networks function and how they can be used as evidence of a crime students will learn about relevant legal issues and will be introduced to deductive criminal profiling a systematic approach to focusing an investigation and understanding criminal motivations Readers will receive unlimited access to the author's accompanying website which contains simulated cases that integrate many of the topics covered in the text This text is required reading for anyone involved in computer investigations or computer administration including computer forensic consultants law enforcement computer security professionals government agencies IRS FBI CIA Dept of Justice fraud examiners system administrators and lawyers Provides a thorough explanation of how computers and networks function how they can be involved in crimes and how they can be used as a source of evidence Offers readers information about relevant legal issues Features coverage of the abuse of computer networks and privacy and security issues on computer networks

Cybercrime Robert Moore, 2014-09-25 This innovative text provides an excellent introduction to technology assisted crime and the basics of investigating such crime from the criminal justice perspective It presents clear concise explanations for students and professionals who need not be technically proficient to find the material easy to understand and practical The book begins by identifying and defining the most prevalent and emerging high technology crimes and exploring their history their original methods of commission and their current methods of commission Then it delineates the requisite procedural issues associated with investigating technology assisted crime In addition the text provides a basic introduction to computer forensics explores legal issues in the admission of digital evidence and then examines the future of high technology crime including legal responses Handbook of Digital Forensics and Investigation Eoghan Casey, 2009-10-07 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

The Development and Evaluation of a Computer Crime Investigative Distance-learning Program for the National Cybercrime Training Partnership Richard Gissel, 2005-08 The purpose of this project was to develop and evaluate a computer crime investigative distance learning program for the National Cybercrime Training Partnership It had been alleged that the current training system did not meet the specific needs of individual law enforcement agencies resulting in a lack of computer crime investigators A computer crime investigative distance learning prototype and evaluative instrument were developed to answer each of the five research questions Conclusions and recommendations were also included in the study

Cyber Crime Investigator's Field Guide Bruce Middleton, 2004-08-02 Long gone are the days when a computer took up an entire room Now we have computers at home laptops that travel just about anywhere and data networks that allow us to transmit information from virtually any location in a timely and efficient manner What have these advancements brought us Another arena for criminal activity If someone wants to focus and target something more than likely they will obtain what they want We shouldn't expect it to be any different in cyberspace Cyber Crime Field Handbook provides the details of investigating computer crime from soup to nuts It covers everything from what to do upon arrival at the scene until the investigation is complete including chain of evidence You get easy access to information such as Questions to ask the client Steps to follow when you arrive at the client's site Procedures for collecting evidence Details on how to use various evidence collection and analysis tools How to recover lost passwords or documents that are password protected Commonly asked questions with appropriate answers Recommended reference materials A case study to see the computer forensic tools in action Commonly used UNIX Linux commands Port number references for various services and applications Computer forensic software tools commands synopsis Attack signatures Cisco PIX firewall commands We now have software and hardware to protect our data communication systems We have laws that provide law enforcement more teeth to take a bite out of cyber crime Now we need to combine understanding investigative techniques and technical knowledge of cyberspace That's what this book does Cyber Crime Field Handbook provides the investigative framework a knowledge of how cyberspace really works and the tools to investigate cyber crime tools that tell you the who where what when why and how

Computer Crime David J.

Icove, Karl A. Seger, William VonStorch, 1995 Aimed at those who need to understand investigate and prosecute computer crimes of all kinds this book discusses computer crimes the criminals and laws and profiles the computer criminal using techniques developed for the FBI and other law enforcement agencies It outlines the risks to computer systems and personnel operational physical and communications measures that can be taken to prevent computer crimes *Cybercrime and Digital Forensics* Thomas J. Holt, Adam M. Bossler, Kathryn C. Seigfried-Spellar, 2015-02-11 The emergence of the World Wide Web smartphones and Computer Mediated Communications CMCs profoundly affect the way in which people interact online and offline Individuals who engage in socially unacceptable or outright criminal acts increasingly utilize technology to connect with one another in ways that are not otherwise possible in the real world due to shame social stigma or risk of detection As a consequence there are now myriad opportunities for wrongdoing and abuse through technology This book offers a comprehensive and integrative introduction to cybercrime It is the first to connect the disparate literature on the various types of cybercrime the investigation and detection of cybercrime and the role of digital information and the wider role of technology as a facilitator for social relationships between deviants and criminals It includes coverage of key theoretical and methodological perspectives computer hacking and digital piracy economic crime and online fraud pornography and online sex crime cyber bullying and cyber stalking cyber terrorism and extremism digital forensic investigation and its legal context cybercrime policy This book includes lively and engaging features such as discussion questions boxed examples of unique events and key figures in offending quotes from interviews with active offenders and a full glossary of terms It is supplemented by a companion website that includes further students exercises and instructor resources This text is essential reading for courses on cybercrime cyber deviancy digital forensics cybercrime investigation and the sociology of technology

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