



# Introduction to Digital Forensics

## MODULE 1

# Computer Forensics First Responders Guide

**Anthony T. S. Ho, Shujun Li**



## **Computer Forensics First Responders Guide:**

**First Responders Guide to Computer Forensics** Richard Nolan, Colin O'Sullivan, Jake Branson, Cal Waits, Carnegie-Mellon University. Software Engineering Institute, United States Army Reserve. Information Operations Command, 2005 [Handbook of Digital Forensics of Multimedia Data and Devices, Enhanced E-Book](#) Anthony T. S. Ho, Shujun Li, 2016-05-20 Digital forensics and multimedia forensics are rapidly growing disciplines whereby electronic information is extracted and interpreted for use in a court of law These two fields are finding increasing importance in law enforcement and the investigation of cybercrime as the ubiquity of personal computing and the internet becomes ever more apparent Digital forensics involves investigating computer systems and digital artefacts in general while multimedia forensics is a sub topic of digital forensics focusing on evidence extracted from both normal computer systems and special multimedia devices such as digital cameras This book focuses on the interface between digital forensics and multimedia forensics bringing two closely related fields of forensic expertise together to identify and understand the current state of the art in digital forensic investigation Both fields are expertly attended to by contributions from researchers and forensic practitioners specializing in diverse topics such as forensic authentication forensic triage forensic photogrammetry biometric forensics multimedia device identification and image forgery detection among many others Key features Brings digital and multimedia forensics together with contributions from academia law enforcement and the digital forensics industry for extensive coverage of all the major aspects of digital forensics of multimedia data and devices Provides comprehensive and authoritative coverage of digital forensics of multimedia data and devices Offers not only explanations of techniques but also real world and simulated case studies to illustrate how digital and multimedia forensics techniques work Includes a companion website hosting continually updated supplementary materials ranging from extended and updated coverage of standards to best practice guides test datasets and more case studies

**First Responders Guide to Computer Forensics: Advanced Topics**, 2005 First Responders Guide to Computer Forensics Advanced Topics expands on the technical material presented in SEI handbook CMU SEI 2005 HB 001 First Responders Guide to Computer Forensics Nolan 05 While the latter presented techniques for forensically sound collection of data and reviewed the fundamentals of admissibility pertaining to electronic files this handbook focuses exclusively on more advanced technical operations like process characterization and spoofed email It is designed for experienced security and network professionals who already have a fundamental understanding of forensic methodology Therefore emphasis is placed on technical procedures and not forensic methodology The first module focuses on log file analysis as well as exploring techniques for using common analysis tools such as Swatch and Log Parser The second module focuses on advanced techniques for process characterization analysis and volatile data recovery The third module demonstrates advanced usage of the dd command line utility Topics include how to slice an image and reassemble it with dd carving out a section of data with dd and imaging a running process

with dd The fourth and final module examines spoofed email messages This module looks at the RFCs for email describes how email messages are spoofed and presents some techniques for identifying and tracing spoofed email Our focus is to provide system and network administrators with advanced methodologies tools and procedures for applying sound computer forensics best practices when performing routine log file reviews network alert verifications and other routine interactions with systems and networks The final goal is to create trained system and network professionals who are able to understand the fundamentals of computer forensics so that in the normal course of their duties they can safely preserve technical information related to network alerts and other security issues     *A Blueprint for Implementing Best Practice Procedures in a Digital Forensic Laboratory* David Lilburn Watson, Andrew Jones, 2023-11-09 Digital Forensic Processing and Procedures Meeting the Requirements of ISO 17020 ISO 17025 ISO 27001 and Best Practice Requirements Second Edition provides a one stop shop for a set of procedures that meet international best practices and standards for handling digital evidence during its complete lifecycle The book includes procedures forms and software providing anyone who handles digital evidence with a guide to proper procedures throughout chain of custody from incident response straight through to analysis in the lab This book addresses the whole lifecycle of digital evidence Provides a step by step guide on designing building and using a digital forensic lab Addresses all recent developments in the field Includes international standards and best practices

**Computer Forensics InfoSec Pro Guide** David Cowen, 2013-04-19 Security Smarts for the Self Guided IT Professional Find out how to excel in the field of computer forensics investigations Learn what it takes to transition from an IT professional to a computer forensic examiner in the private sector Written by a Certified Information Systems Security Professional Computer Forensics InfoSec Pro Guide is filled with real world case studies that demonstrate the concepts covered in the book You ll learn how to set up a forensics lab select hardware and software choose forensic imaging procedures test your tools capture evidence from different sources follow a sound investigative process safely store evidence and verify your findings Best practices for documenting your results preparing reports and presenting evidence in court are also covered in this detailed resource Computer Forensics InfoSec Pro Guide features Lingo Common security terms defined so that you re in the know on the job IMHO Frank and relevant opinions based on the author s years of industry experience Budget Note Tips for getting security technologies and processes into your organization s budget In Actual Practice Exceptions to the rules of security explained in real world contexts Your Plan Customizable checklists you can use on the job now Into Action Tips on how why and when to apply new skills and techniques at work     [Electronic Crime Scene Investigation](#) ,2001     **SSCP Systems Security Certified Practitioner All-in-One Exam Guide** Darril Gibson, 2011-12-08 This authoritative exam guide prepares readers to take the first step towards the coveted CISSP certification the SSCP Systems Security Certified Practitioner credential     **Handbook of Information Security, Information Warfare, Social, Legal, and International Issues and Security Foundations** Hossein Bidgoli, 2006 The Handbook of Information Security

is a definitive 3 volume handbook that offers coverage of both established and cutting edge theories and developments on information and computer security The text contains 180 articles from over 200 leading experts providing the benchmark resource for information security network security information privacy and information warfare      **Electronic Crime Scene Investigation** U.s. Department of Justice,Office of Justice Programs,National Institute of Justice,2012-07-19 This guide is intended to assist State and local law enforcement and other first responders who may be responsible for preserving an electronic crime scene and for recognizing collecting and safeguarding digital evidence It is not all inclusive but addresses situations encountered with electronic crime scenes and digital evidence All crime scenes are unique and the judgment of the first responder agency protocols and prevailing technology should all be considered when implementing the information in this guide First responders to electronic crime scenes should adjust their practices as circumstances including level of experience conditions and available equipment warrant The circumstances of individual crime scenes and Federal State and local laws may dictate actions or a particular order of actions other than those described in this guide First responders should be familiar with all the information in this guide and perform their duties and responsibilities as circumstances dictate When dealing with digital evidence general forensic and procedural principles should be applied The process of collecting securing and transporting digital evidence should not change the evidence Digital evidence should be examined only by those trained specifically for that purpose Everything done during the seizure transportation and storage of digital evidence should be fully documented preserved and available for review First responders must use caution when they seize electronic devices Improperly accessing data stored on electronic devices may violate Federal laws including the Electronic Communications Privacy Act of 1986 and the Privacy Protection Act of 1980 First responders may need to obtain additional legal authority before they proceed They should consult the prosecuting attorney for the appropriate jurisdiction to ensure that they have proper legal authority to seize the digital evidence at the scene In addition to the legal ramifications of improperly accessing data that is stored on a computer first responders must understand that computer data and other digital evidence are fragile Only properly trained personnel should attempt to examine and analyze digital evidence      Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks, Sixth Edition (Exam N10-008) Mike Meyers,Scott Jernigan,2022-03-25 This fully updated four color textbook is designed for classroom use and covers every topic on the latest version of the challenging CompTIA Network exam Written by Mike Meyers the leading CompTIA certification and training expert this full color resource prepares students for the CompTIA Network exam and puts you on the path to becoming an expert networking professional Thoroughly revised for the current version of the CompTIA Network exam the book contains helpful on the job advice hands on examples chapter summaries key terms quizzes review questions lab projects and hundreds of photographs and illustrations Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Sixth Edition Exam N10 008 covers the latest concepts and technologies including basic datacenter cloud and

virtual networking concepts Students will learn networking fundamentals and best practices and networking fundamentals while following the path to becoming an effective networking professional Special design elements throughout reinforce salient points while preparing you for exam day Contains 100% coverage of every objective for CompTIA Network exam N10 008 Online content includes 100 accurate practice questions a self assessment practice exam engine videos and lab simulations from Mike Meyers and on the job tools and utilities Written by CompTIA certification and training guru Mike Meyers Instructor materials and answer keys are available to adopting instructors through your McGraw Hill sales representative answers are not printed in the book      *CompTIA Security+ Certification Study Guide (Exam SY0-301)* Glen E. Clarke, 2011-07-22 The best fully integrated study system available Official CompTIA Content Prepare for CompTIA Security Exam SY0 301 with McGraw Hill a Gold Level CompTIA Authorized Partner offering Official CompTIA Approved Quality Content to give you the competitive edge on exam day With hundreds of practice questions and hands on exercises CompTIA Security Certification Study Guide covers what you need to know and shows you how to prepare for this challenging exam 100% complete coverage of all official objectives for the exam Exam Readiness Checklist you re ready for the exam when all objectives on the list are checked off Inside the Exam sections in every chapter highlight key exam topics covered Two Minute Drills for quick review at the end of every chapter Simulated exam questions match the format tone topics and difficulty of the real exam Covers all the exam topics including Networking Basics and Terminology Security Terminology Security Policies and Standards Types of Attacks System Security Threats Mitigating Security Threats Implementing System Security Securing the Network Infrastructure Wireless Networking and Security Authentication Access Control Cryptography Managing a Public Key Infrastructure Physical Security Risk Analysis Disaster Recovery and Business Continuity Computer Forensics Security Assessments and Audits Monitoring and Auditing Electronic content includes Complete MasterExam practice testing engine featuring One full practice exam Detailed answers with explanations Score Report performance assessment tool 20 CertCam videos from the author 200 Flash Trainer E flashcards Lab Exercise PDF with solutions with free online registration Bonus downloadable Master Exam practice test      *CHFI Computer Hacking Forensic Investigator Certification All-in-One Exam Guide* Charles L. Brooks, 2014-09-26 An all new exam guide for version 8 of the Computer Hacking Forensic Investigator CHFI exam from EC Council Get complete coverage of all the material included on version 8 of the EC Council s Computer Hacking Forensic Investigator exam from this comprehensive resource Written by an expert information security professional and educator this authoritative guide addresses the tools and techniques required to successfully conduct a computer forensic investigation You ll find learning objectives at the beginning of each chapter exam tips practice exam questions and in depth explanations Designed to help you pass this challenging exam this definitive volume also serves as an essential on the job reference CHFI Computer Hacking Forensic Investigator Certification All in One Exam Guide covers all exam topics including Computer forensics investigation process Setting up a computer forensics

lab First responder procedures Search and seizure laws Collecting and transporting digital evidence Understanding hard disks and file systems Recovering deleted files and partitions Windows forensics Forensics investigations using the AccessData Forensic Toolkit FTK and Guidance Software s EnCase Forensic Network wireless and mobile forensics Investigating web attacks Preparing investigative reports Becoming an expert witness Electronic content includes 300 practice exam questions Test engine that provides full length practice exams and customized quizzes by chapter or by exam domain

**Mike Meyers CompTIA Network+ Guide to Managing and Troubleshooting Networks, Fourth Edition (Exam N10-006)** Mike Meyers, 2015-05-29 Essential Skills for a Successful IT Career Written by Mike Meyers the leading expert on CompTIA certification and training this up to date full color text will prepare you for CompTIA Network exam N10 006 and help you become an expert networking technician Fully revised for the latest CompTIA Network exam including coverage of performance based questions the book contains helpful on the job tips end of chapter practice questions and hundreds of photographs and illustrations Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Fourth Edition covers Network architectures Cabling and topology Ethernet basics Network installation TCP IP applications and network protocols Routing Network naming Advanced networking devices IPv6 Remote connectivity Wireless networking Virtualization and cloud computing Network operations Managing risk Network security Network monitoring and troubleshooting Electronic content includes 100 practice exam questions in a customizable test engine 20 lab simulations to help you prepare for the performance based questions One hour of video training from Mike Meyers Mike s favorite shareware and freeware networking tools and utilities Each chapter features Learning objectives Photographs and illustrations Real world examples Try This and Cross Check exercises Key terms highlighted Tech Tips Notes and Warnings Exam Tips End of chapter quizzes and lab projects Instructor resources available Instructor s Manual Power Point slides for each chapter with photographs and illustrations from the book Test Bank cartridges with hundreds of questions for use as quizzes and exams Answers to the end of chapter sections are not printed in the book and are only available to adopting instructors

*Cybercrime & Security* Alan E. Brill, Fletcher N. Baldwin, Robert John Munro, 1998 Provides detailed coverage of a range of issues including encryption government surveillance privacy enhancing technologies online money laundering and pornography attacks on commerce crimes facilitated by information technology terrorism and obstacles to global cooperation

Encyclopedia of Information Communication Technology Antonio Cartelli, 2009 The Encyclopedia of Information Communication Technology ICT is a comprehensive resource describing the influence of information communication technology in scientific knowledge construction and spreading with emphasis on the roles of product technologies process technologies and context technologies A reference point for studies on the use and application of information science in scientific knowledge construction the Encyclopedia of Information Communication Technology covers the materials and instruments of information technology from ICT in education to software engineering the influence of ICT

on different environments including ecommerce decision support systems knowledge management and more and the most pervasive presence of information technology including studies and research on knowledge management the human side of ICT ICT in healthcare and virtual organizations among many others Addressing many of the fundamental issues of information communication technology these estimable volumes will be a top shelf resource for any reference library

*Computer Forensics and Digital Investigation with EnCase Forensic v7* Suzanne Widup,2014-05-30 Conduct repeatable defensible investigations with EnCase Forensic v7 Maximize the powerful tools and features of the industry leading digital investigation software Computer Forensics and Digital Investigation with EnCase Forensic v7 reveals step by step how to detect illicit activity capture and verify evidence recover deleted and encrypted artifacts prepare court ready documents and ensure legal and regulatory compliance The book illustrates each concept using downloadable evidence from the National Institute of Standards and Technology CFReDS Customizable sample procedures are included throughout this practical guide Install EnCase Forensic v7 and customize the user interface Prepare your investigation and set up a new case Collect and verify evidence from suspect computers and networks Use the EnCase Evidence Processor and Case Analyzer Uncover clues using keyword searches and filter results through GREP Work with bookmarks timelines hash sets and libraries Handle case closure final disposition and evidence destruction Carry out field investigations using EnCase Portable Learn to program in EnCase EnScript

**SSCP Systems Security Certified Practitioner All-in-One Exam Guide, Second Edition** Darril Gibson,2015-10-16 This fully updated integrated self study system offers complete coverage of the revised 2015 Systems Security Certified Practitioner SSCP exam domains Thoroughly revised for the April 2015 exam update SSCP Systems Security Certified Practitioner All in One Exam Guide Second Edition enables you to take the exam with complete confidence To aid in self study each chapter includes Exam Tips that highlight key exam information chapter summaries that reinforce salient points and end of chapter questions that are an accurate reflection of the content and question format of the real exam Beyond exam prep the practical examples and real world insights offered in this guide make it an ideal on the job reference for IT security professionals You will learn the security concepts tools and procedures needed to employ and enforce solid security policies and effectively react to security incidents Features 100% coverage of the revised SSCP Common Body of Knowledge CBK effective April 2015 Electronic content contains two full length customizable practice exams in the Total Tester exam engine Written by a bestselling IT security certification and training expert

**Electronic Crime Scene Investigation** National Institute of Justice (U.S.),2010 Will assist State and local law enforcement and other first responders who may be responsible for preserving an electronic crime scene and for recognizing collecting and safeguarding digital evidence Addresses situations encountered with electronic crime scenes and digital evidence All crime scenes are unique and the judgment of the first responder agency protocols and prevailing technology should all be considered when implementing the information in this guide First responders to electronic crime scenes should adjust their

practices as circumstances warrant The circumstances of crime scenes and Federal State and local laws may dictate actions or a particular order of actions other than those described in this guide

**CompTIA Security+ Certification Study Guide, Third Edition (Exam SY0-501)** Glen E. Clarke, 2017-11-10 This fully updated exam focused study aid covers everything you need to know and shows you how to prepare for the CompTIA Security exam Thoroughly revised to cover every objective on the latest version of the CompTIA Security exam SY0 501 this powerful self study resource offers more than 400 questions that accurately mirror those on the actual test Authored by training and certification expert Glen Clarke the book provides in depth explanations for both correct and incorrect answer choices CompTIA Security Certification Study Guide Third Edition offers three complete practice exams one pre assessment test and two final exams intended to measure progress and prepare for the live test Within the customizable test engine questions may be organized by chapter and exam domain allowing readers to focus on specific topics and tailor a highly effective course of study Provides 100% coverage of all objectives on the CompTIA Security exam SY0 501 Includes coverage of performance based questions Electronic content includes training videos from the author all 50 exercises from the book in a Lab Book PDF a pre assessment exam 2 complete practice exams Glossary and a secured book PDF

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