

# **Digital Forensics Laboratory**

## **LAB MANUAL**

# Digital Forensics Lab Manual

**Elizabeth Erickson**



## Digital Forensics Lab Manual:

**Lab Manual for Guide to Computer Forensics and Investigations** Andrew Blitz,2016      **Corporate Computer Forensics Training System Laboratory Manual Volume I** Cyber Defense Training Systems,J. A. Lewis,2007-07 This is the laboratory and exercise manual to accompany the text manual for Volume I of a corporate and law enforcement computer and digital forensics training system This training system consists of a text manual with explanations and descriptions with more than 200 pictures drawings and diagrams This laboratory and exercise manual contains more than 40 forensic exercises to help prepare students for entry into the profession as a corporate or law enforcement computer examiner The information presented in this training system is updated by industry practice and research This training system is designed to be used in a lecture demonstration environment and requires the use of associated case image files      **Lab Manual for Nelson/Phillips/Steuart's Guide to Computer Forensics and Investigations** Andrew Blitz,2011 To ensure a successful experience for instructors and students alike this book includes the following sections for each lab Lab Objectives Every lab has a brief description and list of learning objectives Materials Required Every lab includes information on the hardware software and other materials you need to complete the lab Estimated Completion Time Every lab has an estimated completion time so that you can plan your activities accurately Activity The actual lab activity is presented in this section Logical and precise step by step instructions guide you through the lab Review Questions Each lab includes follow up questions to help reinforce concepts presented in the lab      *Lab Manual for Nelson/Phillips/Steuart's Guide to Computer Forensics and Investigations, 5th* Course Technology,2015-08-28 The Laboratory Manual is a valuable tool designed to enhance your lab experience Lab activities objectives materials lists step by step procedures illustrations and review questions are commonly found in a Lab Manual      Criminalistics Laboratory Manual Elizabeth Erickson,2013-03-21 The Criminalistics Laboratory Manual The Basics of Forensic Investigation provides students with little to no prior knowledge of forensic science with a practical crime scene processing experience The manual starts with an original crime scene narrative setting up the crime students are to solve This narrative is picked up in each of the forensic science lab activities tying each forensic discipline together to show the integrated workings of a real crime lab After the completion of all of the exercises the student will be able to solve the homicide based on forensic evidence      Digital Forensics Processing and Procedures David Lilburn Watson,Andrew Jones,2013-08-30 This is the first digital forensics book that covers the complete lifecycle of digital evidence and the chain of custody This comprehensive handbook includes international procedures best practices compliance and a companion web site with downloadable forms Written by world renowned digital forensics experts this book is a must for any digital forensics lab It provides anyone who handles digital evidence with a guide to proper procedure throughout the chain of custody from incident response through analysis in the lab A step by step guide to designing building and using a digital forensics lab A comprehensive guide for all roles in a digital forensics laboratory Based on international

standards and certifications      Mastering Digital Forensics Cybellium, Discover the expert techniques and strategies to become a master in the field of digital forensics with Mastering Digital Forensics In this comprehensive guide Kris Hermans demystifies the complex world of digital investigation equipping you with the knowledge and skills needed to uncover crucial evidence solve crimes and protect organizations from digital threats With the rapid evolution of technology the need for digital forensics expertise has never been more critical From cybercrimes to data breaches the digital landscape is rife with potential threats that require a deep understanding of forensic methodologies In this book Hermans draws upon his extensive experience as a renowned digital forensics expert to provide a clear and practical roadmap for mastering this fascinating field Inside Mastering Digital Forensics you will

- 1 Gain a solid foundation Start with the fundamentals of digital forensics including understanding computer systems storage devices file systems and data recovery techniques Lay the groundwork for your digital investigation journey
- 2 Navigate through the forensic process Learn how to conduct a thorough investigation from acquiring and preserving evidence to analysing and reporting your findings Develop an effective methodology for approaching any case
- 3 Explore advanced techniques Dive deeper into the intricacies of digital forensics with topics such as memory analysis network forensics mobile device forensics and anti forensics Unlock the secrets hidden within various digital artifacts
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- 5 Stay ahead of emerging challenges Stay up to date with the latest trends and developments in digital forensics Explore topics like cloud forensics Internet of Things IoT investigations and the legal implications of digital evidence

Whether you are a seasoned professional looking to enhance your skills or a newcomer interested in entering the field of digital forensics Mastering Digital Forensics provides the essential knowledge and expertise to excel With real world case studies practical examples and hands on exercises this book is your definitive guide to becoming a proficient digital investigator      **Corporate Computer Forensics Training System Text Manual Volume I** Cyber Defense Training Systems,J. A. Lewis,2007-07 This is the text manual to accompany the laboratory manual for Volume I of a corporate and law enforcement computer and digital forensics training system This training system consists of a text manual with explanations and descriptions with more than 200 pictures drawings and diagrams The laboratory and exercise manual contains more than 40 forensic exercises to help prepare students for entry into the profession as a corporate or law enforcement computer examiner The information presented in this training system is updated by industry practice and research This training system is designed to be used in a lecture demonstration environment and requires the use of associated case image files      **TechnoSecurity's Guide to E-Discovery and Digital Forensics** Jack Wiles,2011-10-13 TechnoSecurity s Guide to E Discovery and Digital Forensics provides IT security professionals with the information hardware software and procedural requirements needed to create manage and sustain a digital forensics lab and investigative team that can accurately and effectively analyze forensic data

and recover digital evidence while preserving the integrity of the electronic evidence for discovery and trial Internationally known experts in computer forensics share their years of experience at the forefront of digital forensics Bonus chapters on how to build your own Forensics Lab 50% discount to the upcoming Techno Forensics conference for everyone who purchases a book     **LM Guide Computer Forensics/Investigations** Andrew Blitz,2018-06-21 The Laboratory Manual is a valuable tool designed to enhance your lab experience Lab activities objectives materials lists step by step procedures illustrations and review questions are found in the Lab manual     **Forensic Science Laboratory Manual and Workbook** Thomas Kubic,NICHOLAS PETRACO,2018-07-31 A laboratory companion to Forensic Science An Introduction to Scientific and Investigative Techniques and other undergraduate texts Forensic Science Laboratory Manual and Workbook Third Edition provides a plethora of basic hands on experiments that can be completed with inexpensive and accessible instrumentation making this an ideal workbook f     *Handbook of Digital Forensics of Multimedia Data and Devices* Anthony T. S. Ho,Shujun Li,2015-07-24 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     **Integrity and Internal Control in Information Systems V** Michael Gertz,2013-06-05 Integrity and Internal Control in Information Systems V represents a continuation of the dialogue between researchers information security specialists internal control specialists and the business community The objectives of this dialogue are To present methods and techniques that will help business achieve the desired level of integrity in information systems and data To present the results of research that may be used in the near future to increase

the level of integrity or help management maintain the desired level of integrity To investigate the shortcomings in the technologies presently in use shortcomings that require attention in order to protect the integrity of systems in general The book contains a collection of papers from the Fifth International Working Conference on Integrity and Internal Control in Information Systems IICIS sponsored by the International Federation for Information Processing IFIP and held in Bonn Germany in November 2002

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**Principles of Computer Security Lab Manual, Fourth Edition** Vincent J. Nestler,Keith Harrison,Matthew P. Hirsch,Wm. Arthur Conklin,2014-10-31 Practice the Computer Security Skills You Need to Succeed 40 lab exercises challenge you to solve problems based on realistic case studies Step by step scenarios require you to think critically Lab analysis tests measure your understanding of lab results Key term quizzes help build your vocabulary Labs can be performed on a Windows Linux or Mac platform with the use of virtual machines In this Lab Manual you ll practice Configuring workstation network connectivity Analyzing network communication Establishing secure network application communication using TCP IP protocols Penetration testing with Nmap metasploit password cracking Cobalt Strike and other tools Defending against network application attacks including SQL injection web browser exploits and email attacks Combatting Trojans man in the middle attacks and steganography Hardening a host computer using antivirus applications and configuring firewalls Securing network communications with encryption secure shell SSH secure copy SCP certificates SSL and IPsec Preparing for and detecting attacks Backing up and restoring data Handling digital forensics and incident response Instructor resources available This lab manual supplements the textbook Principles of Computer Security Fourth Edition which is available separately Virtual machine files Solutions to the labs are not included in

the book and are only available to adopting instructors      A Practical Guide to Computer Forensics Investigations Darren R. Hayes, 2015 A Practical Guide to Computer Forensics Investigations introduces the newest technologies along with detailed information on how the evidence contained on these devices should be analyzed Packed with practical hands on activities students will learn unique subjects from chapters including Mac Forensics Mobile Forensics Cyberbullying and Child Endangerment This well developed book will prepare students for the rapidly growing field of computer forensics for a career with law enforcement accounting firms banks and credit card companies private investigation companies or government agencies      **Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks Lab Manual, Sixth Edition (Exam N10-008)** Jonathan S. Weissman, 2022-01-28 Practice the Skills Essential for a Successful IT Career 80 lab exercises challenge you to solve problems based on realistic case studies Step by step scenarios require you to think critically Lab Analysis tests measure your understanding of lab results Key Term Quizzes help build your vocabulary Mike Meyers CompTIA Network TM Guide to Managing and Troubleshooting Networks Lab Manual Sixth Edition covers Network models Cabling and topology Ethernet basics Ethernet standards Installing a physical network TCP IP basics Routing TCP IP applications Network naming Securing TCP IP Switch features IPv6 WAN connectivity Wireless networking Virtualization and cloud computing Data centers Integrating network devices Network operations Protecting your network Network monitoring Network troubleshooting      **Cyber Forensics** Albert Marcella Jr., Doug Menendez, 2010-12-19 Updating and expanding information on concealment techniques new technologies hardware software and relevant new legislation this second edition details scope of cyber forensics to reveal and track legal and illegal activity Designed as an introduction and overview to the field the authors guide you step by step through the basics of investigation and introduce the tools and procedures required to legally seize and forensically evaluate a suspect machine The book covers rules of evidence chain of custody standard operating procedures and the manipulation of technology to conceal illegal activities and how cyber forensics can uncover them      Principles of Computer Security: CompTIA Security+ and Beyond Lab Manual (Exam SY0-601) Jonathan S. Weissman, 2021-08-27 Practice the Skills Essential for a Successful Career in Cybersecurity This hands on guide contains more than 90 labs that challenge you to solve real world problems and help you to master key cybersecurity concepts Clear measurable lab results map to exam objectives offering direct correlation to Principles of Computer Security CompTIA Security TM and Beyond Sixth Edition Exam SY0 601 For each lab you will get a complete materials list step by step instructions and scenarios that require you to think critically Each chapter concludes with Lab Analysis questions and a Key Term quiz Beyond helping you prepare for the challenging exam this book teaches and reinforces the hands on real world skills that employers are looking for In this lab manual you ll gain knowledge and hands on experience with Linux systems administration and security Reconnaissance social engineering phishing Encryption hashing OpenPGP DNSSEC TLS SSH Hacking into systems routers and switches Routing and switching Port security ACLs

Password cracking Cracking WPA2 deauthentication attacks intercepting wireless traffic Snort IDS Active Directory file servers GPOs Malware reverse engineering Port scanning Packet sniffing packet crafting packet spoofing SPF DKIM and DMARC Microsoft Azure AWS SQL injection attacks Fileless malware with PowerShell Hacking with Metasploit and Armitage Computer forensics Shodan Google hacking Policies ethics and much more      *Information Assurance Handbook: Effective Computer Security and Risk Management Strategies* Corey Schou, Steven Hernandez, 2014-09-12 Best practices for protecting critical data and systems Information Assurance Handbook Effective Computer Security and Risk Management Strategies discusses the tools and techniques required to prevent detect contain correct and recover from security breaches and other information assurance failures This practical resource explains how to integrate information assurance into your enterprise planning in a non technical manner It leads you through building an IT strategy and offers an organizational approach to identifying implementing and controlling information assurance initiatives for small businesses and global enterprises alike Common threats and vulnerabilities are described and applicable controls based on risk profiles are provided Practical information assurance application examples are presented for select industries including healthcare retail and industrial control systems Chapter ending critical thinking exercises reinforce the material covered An extensive list of scholarly works and international government standards is also provided in this detailed guide Comprehensive coverage includes Basic information assurance principles and concepts Information assurance management system Current practices regulations and plans Impact of organizational structure Asset management Risk management and mitigation Human resource assurance Advantages of certification accreditation and assurance Information assurance in system development and acquisition Physical and environmental security controls Information assurance awareness training and education Access control Information security monitoring tools and methods Information assurance measurements and metrics Incident handling and computer forensics Business continuity management Backup and restoration Cloud computing and outsourcing strategies Information assurance big data concerns



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