

Note: this key outlines (but does not provide full details) of solutions. It provides what needs to be discussed for a full answer.

1. Fundamentals (5 pts)

Define digital forensics:

Preservation, identification, extraction, documentation, and interpretation of computer media for evidentiary and/or root cause analysis.

2. Roles (30 pts)

How does an investigator's role impact a forensic investigation? Be sure to include a discussion of what forms the basis and what is the primary source of guidance that establishes acceptable actions for each role: individuals, corporate investigators, and criminal investigators.

According to title 18, the individual owner can collect and analyze everything on their machine - analysis must not violate other laws, e.g., reverse engineering licensed software. Their analysis will focus on ensuring the security of their private system.

Corporate investigators are limited by corporate policy in addition to laws. Their analysis focuses on protecting the assets of the corporation. This will include: maintain system security, ensure operational continuity, investigate system misuse, and identify and manage compromise.

Criminal forensic investigators are guided by the law to protect the public welfare. Behavior during investigation is limited by laws that protect the rights of citizens. Some laws have extended what can be done, e.g., the Patriot Act. Federal, state, and local laws have impact on different classes of investigators. Investigations focus on:

- Investigate computer-related criminal activity
 - Fraud, theft, damage, use of IT in other crimes, etc.
- Investigate other criminal activity
 - Murder, kidnapping, fraud, etc.
- Counter-terrorism

3. Hard Drive Volumes (30 pts)

Using the linear HDD model below, draw and label each of the following constructs: Two partitions of approximately equal size (include MBR and disk parameter blocks), draw and label an NTFS file system on one partition, draw and label a 200 byte file, draw and label a 3 KB file, draw and label unallocated space, draw and label a particular slack space. Describe each term and its digital forensics relevance.



- The Master Boot Record is created and includes the Master Boot Code (MBC) and the Master Partition Table (MPT)—always at sector 1 on any bootable media
 - The MBC is executed at boot if the HDD is designated as the boot device
 - The MPT contains information about logical volumes (partitions), including the active partition, the partition whose Volume Boot Code (VBC) will be executed
 - Each partition has a Disk Parameter Block that stores information about extended partitions, file system type, date and time last mounted, etc.
- Inter-partition gaps are a collection of unused sectors.

Digital Forensics Midterm Name Nmt Computer Science And

Xiaodong Lin



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The Basics of Digital Forensics John Sammons, 2014-12-09 The Basics of Digital Forensics provides a foundation for people new to the digital forensics field This book offers guidance on 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 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 the reader with real world examples and all the key technologies used in digital forensics as well as new coverage of network intrusion response how hard drives are organized and electronic discovery This valuable resource also covers 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 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 intrusion response and electronic discovery as well as updated case studies and expert interviews

Unleashing the Art of Digital Forensics Keshav Kaushik, Rohit Tanwar, Susheela Dahiya, Komal Kumar Bhatia, Yulei Wu, 2022-08-11 Unleashing the Art of Digital Forensics is intended to describe and explain the steps taken during a forensic examination with the intent of making the reader aware of the constraints and considerations that apply during a forensic examination in law enforcement and in the private sector Key Features Discusses the recent advancements in Digital Forensics and Cybersecurity Reviews detailed applications of Digital Forensics for real life problems Addresses the challenges related to implementation of Digital Forensics and Anti Forensic approaches Includes case studies that will be helpful for researchers Offers both quantitative and qualitative research articles conceptual papers review papers etc Identifies the future scope of research in the field of Digital Forensics and Cybersecurity This book is aimed primarily at and will be beneficial to graduates postgraduates and researchers in Digital Forensics and Cybersecurity

Digital Forensics Explained Greg Gogolin, 2021-04-11 This book covers the full life cycle of conducting a mobile and computer digital forensic examination including planning and performing an investigation as well as report writing and testifying Case reviews in corporate civil and criminal situations are also described from both prosecution and defense perspectives Digital Forensics Explained Second Edition draws from years of experience in local state federal and international environments and highlights the challenges inherent in deficient cyber security practices Topics include the importance of following the scientific method and verification legal and ethical issues planning an investigation including tools and techniques incident response case project management and authorization social media and internet cloud anti forensics link and visual analysis and psychological considerations The book is a valuable resource for the academic environment law enforcement those in the legal profession and those working in the cyber security field Case reviews include cyber security breaches anti forensic challenges child exploitation and social media investigations

Greg Gogolin PhD CISSP is a Professor of Information Security and Intelligence at Ferris State University and a licensed Professional Investigator He has worked more than 100 cases in criminal civil and corporate environments

Crime Science and Digital Forensics Anthony C. Ijeh, Kevin Curran, 2021-09-14 This volume is a collation of articles on counter forensics practices and digital investigative methods from the perspective of crime science The book also shares alternative dialogue on information security techniques used to protect data from unauthorised access and manipulation Scandals such as those at OPCW and Gatwick Airport have reinforced the importance of crime science and the need to take proactive measures rather than a wait and see approach currently used by many organisations This book proposes a new approach in dealing with cybercrime and unsociable behavior involving remote technologies using a combination of evidence based disciplines in order to enhance cybersecurity and authorised controls It starts by providing a rationale for combining selected disciplines to enhance cybersecurity by discussing relevant theories and highlighting the features that strengthen privacy when mixed The essence of a holistic model is brought about by the challenge facing digital forensic professionals within environments where tested investigative practices are unable to provide satisfactory evidence and security This book will be of interest to students digital forensic and cyber security practitioners and policy makers It marks a new route in the study of combined disciplines to tackle cybercrime using digital investigations and crime science

Introductory Computer Forensics Xiaodong Lin, 2018-11-10 This textbook provides an introduction to digital forensics a rapidly evolving field for solving crimes Beginning with the basic concepts of computer forensics each of the book's 21 chapters focuses on a particular forensic topic composed of two parts background knowledge and hands on experience through practice exercises Each theoretical or background section concludes with a series of review questions which are prepared to test students understanding of the materials while the practice exercises are intended to afford students the opportunity to apply the concepts introduced in the section on background knowledge This experience oriented textbook is meant to assist students in gaining a better understanding of digital forensics through hands on practice in collecting and preserving digital evidence by completing various exercises With 20 student directed inquiry based practice exercises students will better understand digital forensic concepts and learn digital forensic investigation techniques This textbook is intended for upper undergraduate and graduate level students who are taking digital forensic related courses or working in digital forensics research It can also be used by digital forensics practitioners IT security analysts and security engineers working in the IT security industry particular IT professionals responsible for digital investigation and incident handling or researchers working in these related fields as a reference book

Big Data Analytics and Computing for Digital Forensic Investigations Suneeta Satpathy, Sachi Mohanty, 2020-03-17 Digital forensics has recently gained a notable development and become the most demanding area in today's information security requirement This book investigates the areas of digital forensics digital investigation and data analysis procedures as they apply to computer fraud and cybercrime with the main objective of

describing a variety of digital crimes and retrieving potential digital evidence Big Data Analytics and Computing for Digital Forensic Investigations gives a contemporary view on the problems of information security It presents the idea that protective mechanisms and software must be integrated along with forensic capabilities into existing forensic software using big data computing tools and techniques Features Describes trends of digital forensics served for big data and the challenges of evidence acquisition Enables digital forensic investigators and law enforcement agencies to enhance their digital investigation capabilities with the application of data science analytics algorithms and fusion technique This book is focused on helping professionals as well as researchers to get ready with next generation security systems to mount the rising challenges of computer fraud and cybercrimes as well as with digital forensic investigations Dr Suneeta Satpathy has more than ten years of teaching experience in different subjects of the Computer Science and Engineering discipline She is currently working as an associate professor in the Department of Computer Science and Engineering College of Bhubaneswar affiliated with Biju Patnaik University and Technology Odisha Her research interests include computer forensics cybersecurity data fusion data mining big data analysis and decision mining Dr Sachi Nandan Mohanty is an associate professor in the Department of Computer Science and Engineering at ICFAI Tech ICFAI Foundation for Higher Education Hyderabad India His research interests include data mining big data analysis cognitive science fuzzy decision making brain computer interface cognition and computational intelligence

Digital Forensics and Cyber Crime Pavel Gladyshev, Marcus K. Rogers, 2012-11-28 This book contains a selection of thoroughly refereed and revised papers from the Third International ICST Conference on Digital Forensics and Cyber Crime ICDF2C 2011 held October 26 28 in Dublin Ireland 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 finance networking data mining and criminal justice The 24 papers in this volume cover a variety of topics ranging from tactics of cyber crime investigations to digital forensic education network forensics and the use of formal methods in digital investigations There is a large section addressing forensics of mobile digital devices

Advances in Digital Forensics II Martin S. Olivier, Sujeet Sheno, 2010-04-02 Digital forensics deals with the acquisition preservation examination analysis and presentation of electronic evidence Networked computing wireless communications and portable electronic devices have expanded the role of digital forensics beyond traditional computer crime investigations Practically every crime now involves some aspect of digital evidence digital forensics provides the techniques and tools to articulate this evidence Digital forensics also has myriad intelligence applications Furthermore it has a vital role in information assurance investigations of security breaches yield valuable information that can be used to design more secure systems Advances in Digital Forensics II describes original research results and innovative applications in the emerging discipline of digital forensics In addition it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations The

areas of coverage include Themes and Issues in Digital Forensics Evidence Collecting and Handling Forensic Techniques Operating System and File System Forensics Network Forensics Portable Electronic Device Forensics Linux and File System Forensics Training Governance and Legal Issues This book is the second volume in the annual series 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 contains a selection of twenty five edited papers from the First Annual IFIP WG 11.9 Conference on Digital Forensics held at the National Center for Forensic Science Orlando Florida USA in the spring of 2006 Advances in Digital Forensics is an important resource for researchers faculty members and graduate students as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities Martin S Olivier is a Professor of Computer Science and co manager of the Information and Computer Security Architectures Research Group at the University of Pretoria Pretoria South Africa Sujeet Shenoi is the F P Walter Professor of Computer Science and a principal with the Center for Information Security at the University of Tulsa Tulsa Oklahoma USA For more information about the 300 other books in the IFIP series please visit www.springeronline.com For more information about IFIP please visit www.ifip.org Cybercrime and Digital Forensics Thomas J. Holt, Adam M. Bossler, Kathryn C.

Seigfried-Spellar, 2022-05-30 This book offers a comprehensive and integrative introduction to cybercrime It provides an authoritative synthesis of the disparate literature on the various types of cybercrime the global 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 malicious software digital piracy and intellectual theft economic crime and online fraud pornography and online sex crime cyber bullying and cyber stalking cyber terrorism and extremism the rise of the Dark Web digital forensic investigation and its legal context around the world the law enforcement response to cybercrime transnationally cybercrime policy and legislation across the globe The new edition has been revised and updated featuring two new chapters the first offering an expanded discussion of cyberwarfare and information operations online and the second discussing illicit market operations for all sorts of products on both the Open and Dark Web 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 exercises for students and instructor resources This text is essential reading for courses on cybercrime cyber deviancy digital forensics cybercrime investigation and the sociology of technology *Digital Forensics, Investigation, and Response* Chuck Easttom, 2021-08-10 Digital Forensics Investigation and Response Fourth Edition examines the fundamentals of system forensics addresses the tools techniques and methods used to perform computer forensics and investigation and explores incident and intrusion response

Digital Forensics André Årnes, 2017-05-18 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 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 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 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 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 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 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 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

Advances in Digital Forensics VIII Gilbert Peterson, Sujeet Shenoi, 2012-12-09 Digital forensics deals with the acquisition preservation examination analysis and presentation of electronic evidence Networked computing wireless communications and portable electronic devices have expanded the role of digital forensics beyond traditional computer crime investigations Practically every crime now involves some aspect of digital evidence digital forensics provides the techniques and tools to articulate this evidence Digital forensics also has myriad intelligence applications Furthermore it has a vital role in information assurance investigations of security breaches yield valuable information that can be used to design more secure systems *Advances in Digital Forensics VIII* describes original research results and innovative applications in the discipline of digital forensics In addition it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations The areas of coverage include themes and issues forensic techniques mobile phone forensics cloud forensics network forensics and advanced forensic techniques This book is the eighth volume in the annual series 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 contains a selection of twenty two edited papers from the Eighth Annual IFIP WG 11.9 International Conference on Digital Forensics held at the University of Pretoria Pretoria South Africa in the spring of 2012 Advances in Digital Forensics VIII is an important resource for researchers faculty members and graduate students as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities Gilbert Peterson is an Associate Professor of Computer Engineering at the Air Force Institute of Technology Wright Patterson Air Force Base Ohio USA Sujeet Sheno is the F P Walter Professor of Computer Science and a Professor of Chemical Engineering at the University of Tulsa Tulsa Oklahoma USA *Guide to Digital Forensics* Joakim Kävrestad, 2017-09-27 This work introduces the reader to the world of digital forensics in a practical and accessible manner The text was written to fulfill a need for a book that introduces forensic methodology and sound forensic thinking combined with hands on examples for common tasks in a computer forensic examination The author has several years of experience as a computer forensics examiner and is now working as a university level lecturer *Guide to Digital Forensics A Concise and Practical Introduction* is intended for students that are looking for an introduction to computer forensics and can also be used as a collection of instructions for practitioners The aim is to describe and explain the steps taken during a forensic examination with the intent of making the reader aware of the constraints and considerations that apply during a 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 **Digital Forensics and Cyber Crime** Sanjay Goel, Pavel Gladyshev, Daryl Johnson, Makan Pourzandi, Suryadipta Majumdar, 2021-02-06 This book constitutes the refereed proceedings of the 11th International Conference on Digital Forensics and Cyber Crime ICDF2C 2020 held in Boston MA in October 2020 Due to COVID 19 pandemic the conference was held virtually The 11 reviewed full papers and 4 short papers were selected from 35 submissions and are grouped in topical sections on digital forensics cyber physical system Forensics event reconstruction in digital forensics emerging topics in forensics cybersecurity and digital forensics **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 **Digital Forensics and Cyber**

Crime Investigation Ahmed A. Abd El-Latif, Lo'ai Tawalbeh, Manoranjan Mohanty, Brij B. Gupta, Konstantinos E.

Psannis, 2024-10-07 In the ever evolving landscape of digital forensics and cybercrime investigation staying ahead with the latest advancements is not just advantageous it's imperative *Digital Forensics and Cyber Crime Investigation Recent Advances and Future Directions* serves as a crucial bridge connecting the dots between the present knowledge base and the fast paced developments in this dynamic field Through a collection of meticulous research and expert insights this book dissects various facets of digital forensics and cyber security providing readers with a comprehensive look at current trends and future possibilities Distinguished by its in depth analysis and forward looking perspective this volume sets itself apart as an indispensable resource for those keen on navigating the complexities of securing the digital domain Key features of this book include Innovative Strategies for Web Application Security Insights into Moving Target Defense MTD techniques Blockchain Applications in Smart Cities An examination of how blockchain technology can fortify data security and trust Latest Developments in Digital Forensics A thorough overview of cutting edge techniques and methodologies Advancements in Intrusion Detection The role of Convolutional Neural Networks CNN in enhancing network security Augmented Reality in Crime Scene Investigations How AR technology is transforming forensic science Emerging Techniques for Data Protection From chaotic watermarking in multimedia to deep learning models for forgery detection This book aims to serve as a beacon for practitioners researchers and students who are navigating the intricate world of digital forensics and cyber security By offering a blend of recent advancements and speculative future directions it not only enriches the reader's understanding of the subject matter but also inspires innovative thinking and applications in the field Whether you're a seasoned investigator an academic or a technology enthusiast *Digital Forensics and Cyber Crime Investigation Recent Advances and Future Directions* promises to be a valuable addition to your collection pushing the boundaries of what's possible in digital forensics and beyond

Digital Forensics and Cyber Crime Sanjay Goel, 2010-01-13 The First International Conference on Digital Forensics and Cyber Crime ICDF2C was held in Albany from September 30 to October 2 2009 The field of digital forensics is growing rapidly with implications for several fields including law enforcement network security disaster recovery and accounting This is a multidisciplinary area that requires expertise in several areas including law computer science finance networking data mining and criminal justice This conference brought together practitioners and researchers from diverse fields providing opportunities for business and intellectual engagement among attendees All the conference sessions were very well attended with vigorous discussions and strong audience interest The conference featured an excellent program comprising high quality paper presentations and invited speakers from all around the world The first day featured a plenary session including George Philip President of University at Albany Harry Corbit Superintendent of New York State Police and William Pelgrin Director of New York State Office of Cyber Security and Critical Infrastructure Coordination An outstanding keynote was provided by Miklos Vasarhelyi on continuous auditing This was followed by two parallel sessions on accounting

fraud financial crime and multimedia and handheld forensics The second day of the conference featured a mesmerizing keynote talk by Nitesh Dhanjani from Ernst and Young that focused on psychological profiling based on open source intelligence from social network analysis The third day of the conference featured both basic and advanced tutorials on open source forensics

Digital Forensics Basics Nihad A. Hassan, 2019-02-25 Use this hands on introductory guide to understand and implement digital forensics to investigate computer crime using Windows the most widely used operating system This book provides you with the necessary skills to identify an intruder's footprints and to gather the necessary digital evidence in a forensically sound manner to prosecute in a court of law Directed toward users with no experience in the digital forensics field this book provides guidelines and best practices when conducting investigations as well as teaching you how to use a variety of tools to investigate computer crime You will be prepared to handle problems such as law violations industrial espionage and use of company resources for private use Digital Forensics Basics is written as a series of tutorials with each task demonstrating how to use a specific computer forensics tool or technique Practical information is provided and users can read a task and then implement it directly on their devices Some theoretical information is presented to define terms used in each technique and for users with varying IT skills What You'll Learn Assemble computer forensics lab requirements including workstations tools and more Document the digital crime scene including preparing a sample chain of custody form Differentiate between law enforcement agency and corporate investigations Gather intelligence using OSINT sources Acquire and analyze digital evidence Conduct in depth forensic analysis of Windows operating systems covering Windows 10 specific feature forensics Utilize anti forensic techniques including steganography data destruction techniques encryption and anonymity techniques Who This Book Is For Police and other law enforcement personnel judges with no technical background corporate and nonprofit management IT specialists and computer security professionals incident response team members IT military and intelligence services officers system administrators e business security professionals and banking and insurance professionals

Advances in Digital Forensics Mark Pollitt, Sujeet Sheno, 2006-03-28 Digital forensics deals with the acquisition preservation examination analysis and presentation of electronic evidence Networked computing wireless communications and portable electronic devices have expanded the role of digital forensics beyond traditional computer crime investigations Practically every crime now involves some aspect of digital evidence digital forensics provides the techniques and tools to articulate this evidence Digital forensics also has myriad intelligence applications Furthermore it has a vital role in information assurance investigations of security breaches yield valuable information that can be used to design more secure systems Advances in Digital Forensics describes original research results and innovative applications in the emerging discipline of digital forensics In addition it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations The areas of coverage include Themes and Issues in Digital Forensics Investigative Techniques Network Forensics Portable Electronic Device Forensics Linux and File System Forensics

Applications and Techniques This book is the first volume of a new series 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 contains a selection of twenty five edited papers from the First Annual IFIP WG 11.9 Conference on Digital Forensics held at the National Center for Forensic Science Orlando Florida USA in February 2005 Advances in Digital Forensics is an important resource for researchers faculty members and graduate students as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities Mark Pollitt is President of Digital Evidence Professional Services Inc Ellicott City Maryland USA Mr Pollitt who is retired from the Federal Bureau of Investigation FBI served as the Chief of the FBI's Computer Analysis Response Team and Director of the Regional Computer Forensic Laboratory National Program Sujeet Shenoi is the F. P. Walter Professor of Computer Science and a principal with the Center for Information Security at the University of Tulsa Tulsa Oklahoma USA For more information about the 300 other books in the IFIP series please visit www.springeronline.com For more information about IFIP please visit www.ifip.org

Digital Forensics for Handheld Devices Eamon P. Doherty, 2012-08-17 Approximately 80 percent of the world's population now owns a cell phone which can hold evidence or contain logs about communications concerning a crime Cameras PDAs and GPS devices can also contain information related to corporate policy infractions and crimes Aimed to prepare investigators in the public and private sectors Digital Forensics

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