Big Data Forensics - Learning Hadoop Investigations

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Big Data Forensics Learning Hadoop Investigations

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Big Data Forensics Learning Hadoop Investigations:

Big Data Forensics – Learning Hadoop Investigations Joe Sremack,2015-09-24 Perform forensic investigations on Hadoop clusters with cutting edge tools and techniques About This Book Identify collect and analyze Hadoop evidence forensically Learn about Hadoop s internals and Big Data file storage concepts A step by step guide to help you perform forensic analysis using freely available tools Who This Book Is For This book is meant for statisticians and forensic analysts with basic knowledge of digital forensics They do not need to know Big Data Forensics If you are an IT professional law enforcement professional legal professional or a student interested in Big Data and forensics this book is the perfect hands on guide for learning how to conduct Hadoop forensic investigations Each topic and step in the forensic process is described in accessible language What You Will Learn Understand Hadoop internals and file storage Collect and analyze Hadoop forensic evidence Perform complex forensic analysis for fraud and other investigations Use state of the art forensic tools Conduct interviews to identify Hadoop evidence Create compelling presentations of your forensic findings Understand how Big Data clusters operate Apply advanced forensic techniques in an investigation including file carving statistical analysis and more In Detail Big Data forensics is an important type of digital investigation that involves the identification collection and analysis of large scale Big Data systems Hadoop is one of the most popular Big Data solutions and forensically investigating a Hadoop cluster requires specialized tools and techniques With the explosion of Big Data forensic investigators need to be prepared to analyze the petabytes of data stored in Hadoop clusters Understanding Hadoop s operational structure and performing forensic analysis with court accepted tools and best practices will help you conduct a successful investigation Discover how to perform a complete forensic investigation of large scale Hadoop clusters using the same tools and techniques employed by forensic experts This book begins by taking you through the process of forensic investigation and the pitfalls to avoid It will walk you through Hadoop s internals and architecture and you will discover what types of information Hadoop stores and how to access that data You will learn to identify Big Data evidence using techniques to survey a live system and interview witnesses After setting up your own Hadoop system you will collect evidence using techniques such as forensic imaging and application based extractions You will analyze Hadoop evidence using advanced tools and techniques to uncover events and statistical information Finally data visualization and evidence presentation techniques are covered to help you properly communicate your findings to any audience Style and approach This book is a complete guide that follows every step of the forensic analysis process in detail You will be guided through each key topic and step necessary to perform an investigation Hands on exercises are presented throughout the book and technical reference guides and sample documents are included for real world use **Big Data Forensics - Learning Hadoop Investigations** Joe Sremack,2015-08-25 Perform forensic investigations on Hadoop clusters with cutting edge tools and techniquesAbout This Book Identify collect and analyze Hadoop evidence forensically Learn about Hadoop s internals and Big Data file storage concepts A step by step guide to help

you perform forensic analysis using freely available toolsWho This Book Is ForThis book is meant for statisticians and forensic analysts with basic knowledge of digital forensics They do not need to know Big Data Forensics If you are an IT professional law enforcement professional legal professional or a student interested in Big Data and forensics this book is the perfect hands on guide for learning how to conduct Hadoop forensic investigations Each topic and step in the forensic process is described in accessible language What You Will Learn Understand Hadoop internals and file storage Collect and analyze Hadoop forensic evidence Perform complex forensic analysis for fraud and other investigations Use state of the art forensic tools Conduct interviews to identify Hadoop evidence Create compelling presentations of your forensic findings Understand how Big Data clusters operate Apply advanced forensic techniques in an investigation including file carving statistical analysis and moreIn DetailBig Data forensics is an important type of digital investigation that involves the identification collection and analysis of large scale Big Data systems Hadoop is one of the most popular Big Data solutions and forensically investigating a Hadoop cluster requires specialized tools and techniques With the explosion of Big Data forensic investigators need to be prepared to analyze the petabytes of data stored in Hadoop clusters Understanding Hadoop s operational structure and performing forensic analysis with court accepted tools and best practices will help you conduct a successful investigation Discover how to perform a complete forensic investigation of large scale Hadoop clusters using the same tools and techniques employed by forensic experts This book begins by taking you through the process of forensic investigation and the pitfalls to avoid It will walk you through Hadoop s internals and architecture and you will discover what types of information Hadoop stores and how to access that data You will learn to identify Big Data evidence using techniques to survey a live system and interview witnesses After setting up your own Hadoop system you will collect evidence using techniques such as forensic imaging and application based extractions You will analyze Hadoop evidence using advanced tools and techniques to uncover events and statistical information Finally data visualization and evidence presentation techniques are covered to help you properly communicate your findings to any audience Style and approachThis book is a complete guide that follows every step of the forensic analysis process in detail You will be guided through each key topic and step necessary to perform an investigation Hands on exercises are presented throughout the book and technical reference guides and sample documents are included for real world use *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 Mastering Python Forensics Dr. Michael Spreitzenbarth,Dr. Johann Uhrmann,2015-10-30 Master the art of digital forensics and analysis with Python About This Book Learn to perform forensic analysis and investigations with the help of Python and gain an advanced understanding of the various Python libraries and frameworks Analyze Python scripts to extract metadata and investigate forensic artifacts The writers Dr Michael Spreitzenbarth and Dr Johann Uhrmann have used their experience to craft this hands on guide to using Python for forensic analysis and investigations Who This Book Is For If you are a network security professional or forensics analyst who wants to gain a deeper understanding of performing forensic analysis with Python then this book is for you Some Python experience would be helpful What You Will Learn Explore the forensic analysis of different platforms such as Windows Android and vSphere Semi automatically reconstruct major parts of the system activity and time line Leverage Python ctypes for protocol decoding Examine artifacts from mobile Skype and browsers Discover how to utilize Python to improve the focus of your analysis Investigate in volatile memory with the help of volatility on the Android and Linux platforms In Detail Digital forensic analysis is the process of examining and extracting data digitally and examining it Python has the combination of power expressiveness and ease of use that makes it an essential complementary tool to the traditional off the shelf digital forensic tools This book will teach you how to perform forensic analysis and investigations by exploring the capabilities of various Python libraries The book starts by explaining the building blocks of the Python programming language especially ctypes in depth along with how to automate typical tasks in file system analysis common correlation tasks to discover anomalies as well as templates for investigations Next we ll show you cryptographic algorithms that can be used during forensic investigations to check for known files or to compare suspicious files with online services such as VirusTotal or Mobile Sandbox Moving on you ll learn how to sniff on the network generate and analyze network flows and

perform log correlation with the help of Python scripts and tools You ll get to know about the concepts of virtualization and how virtualization influences IT forensics and you ll discover how to perform forensic analysis of a jailbroken rooted mobile device that is based on iOS or Android Finally the book teaches you how to analyze volatile memory and search for known malware samples based on YARA rules Style and approach This easy to follow guide will demonstrate forensic analysis techniques by showing you how to solve real word scenarios step by step Digital Forensics in the Era of Artificial Intelligence Nour Moustafa,2022-07-18 Digital forensics plays a crucial role in identifying analysing and presenting cyber threats as evidence in a court of law Artificial intelligence particularly machine learning and deep learning enables automation of the digital investigation process This book provides an in depth look at the fundamental and advanced methods in digital forensics It also discusses how machine learning and deep learning algorithms can be used to detect and investigate cybercrimes This book demonstrates digital forensics and cyber investigating techniques with real world applications It examines hard disk analytics and style architectures including Master Boot Record and GUID Partition Table as part of the investigative process It also covers cyberattack analysis in Windows Linux and network systems using virtual machines in real world scenarios Digital Forensics in the Era of Artificial Intelligence will be helpful for those interested in digital forensics and using machine learning techniques in the investigation of cyberattacks and the detection of evidence in cybercrimes **Network Security Strategies** Aditya Mukherjee,2020-11-06 Build a resilient network and prevent advanced cyber attacks and breaches Key Features Explore modern cybersecurity techniques to protect your networks from ever evolving cyber threats Prevent cyber attacks by using robust cybersecurity strategies Unlock the secrets of network security Book Description With advanced cyber attacks severely impacting industry giants and the constantly evolving threat landscape organizations are adopting complex systems to maintain robust and secure environments Network Security Strategies will help you get well versed with the tools and techniques required to protect any network environment against modern cyber threats You ll understand how to identify security vulnerabilities across the network and how to effectively use a variety of network security techniques and platforms Next the book will show you how to design a robust network that provides top notch security to protect against traditional and new evolving attacks With the help of detailed solutions and explanations you ll be able to monitor networks skillfully and identify potential risks Finally the book will cover topics relating to thought leadership and the management aspects of network security By the end of this network security book you ll be well versed in defending your network from threats and be able to consistently maintain operational efficiency security and privacy in your environment What you will learn Understand network security essentials including concepts mechanisms and solutions to implement secure networks Get to grips with setting up and threat monitoring cloud and wireless networks Defend your network against emerging cyber threats in 2020 Discover tools frameworks and best practices for network penetration testing Understand digital forensics to enhance your network security skills Adopt a proactive approach to stay

ahead in network security Who this book is for This book is for anyone looking to explore information security privacy malware and cyber threats Security experts who want to enhance their skill set will also find this book useful A prior understanding of cyber threats and information security will help you understand the key concepts covered in the book more effectively **Deep Learning Techniques for IoT Security and Privacy** Mohamed Abdel-Basset,Nour Moustafa,Hossam Hawash,Weiping Ding,2021-12-05 This book states that the major aim audience are people who have some familiarity with Internet of things IoT but interested to get a comprehensive interpretation of the role of deep Learning in maintaining the security and privacy of IoT A reader should be friendly with Python and the basics of machine learning and deep learning Interpretation of statistics and probability theory will be a plus but is not certainly vital for identifying most of the book s material **Forensic Innovations in Criminal Investigations** Nishchal Soni,2025-04-17 Forensic science continues to evolve at a remarkable pace standing at the crossroads of innovation and justice As new technologies emerge and investigative challenges grow more complex the field must adapt pushing boundaries and embracing fresh perspectives Forensic Innovations in Criminal Investigations brings together a collection of work that highlights just how dynamic and multidisciplinary forensic science has become This book is the result of the dedication knowledge and collaborative spirit of its contributors Each chapter delves into a specialized area ranging from forensic palynology and next generation DNA sequencing to forensic epigenetics IoT applications and the use of augmented and virtual reality in investigations These topics have been thoughtfully presented to make cutting edge science both accessible and relevant not just for students and researchers but also for professionals in the field The consistent structure across chapters ensures clarity making it easier for readers from diverse backgrounds to engage with complex ideas Whether you re preparing for exams keeping up with the latest advancements or exploring interdisciplinary approaches to forensic investigation this book offers valuable insights and practical guidance As the editor I feel honored to have worked with such talented authors whose contributions make this compilation both meaningful and impactful I extend my heartfelt thanks to each of them for their hard work research and commitment to advancing forensic science I m also grateful to my organization and mentors for supporting me throughout the editorial process and to my family colleagues and peers for their constant encouragement It is my sincere hope that this book will not only inform but also inspire to ignite curiosity encourage innovation and serve as a useful resource for all those committed to uncovering the truth and delivering justice **Securing IoT and Big Data** Vijayalakshmi Saravanan,Alagan Anpalagan,T. Poongodi,Firoz Khan,2020-12-16 This book covers IoT and Big Data from a technical and business point of view The book explains the design principles algorithms technical knowledge and marketing for IoT systems It emphasizes applications of big data and IoT It includes scientific algorithms and key techniques for fusion of both areas Real case applications from different industries are offering to facilitate ease of understanding the approach The book goes on to address the significance of security algorithms in combing IoT and big data which is currently evolving in communication

technologies The book is written for researchers professionals and academicians from interdisciplinary and transdisciplinary areas The readers will get an opportunity to know the conceptual ideas with step by step pragmatic examples which makes ease of understanding no matter the level of the reader Emerging Trends in Intelligent Systems & Network Security Mohamed Ben Ahmed,Boudhir Anouar Abdelhakim,Bernadetta Kwintiana Ane,Didi Rosiyadi,2022-08-31 This book covers selected research works presented at the fifth International Conference on Networking Information Systems and Security NISS 2022 organized by the Research Center for Data and Information Sciences at the National Research and Innovation Agency BRIN Republic of Indonesia and Moroccan Mediterranean Association of Sciences and Sustainable Development Morocco during March 30 31 2022 hosted in online mode in Bandung Indonesia Building on the successful history of the conference series in the recent four years this book aims to present the paramount role of connecting researchers around the world to disseminate and share new ideas in intelligent information systems cyber security and networking technologies The 49 chapters presented in this book were carefully reviewed and selected from 115 submissions They focus on delivering intelligent solutions through leveraging advanced information systems networking and security for competitive advantage and cost savings in modern industrial sectors as well as public business and education sectors Authors are eminent academicians scientists researchers and scholars in their respective fields from across the world

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