

# **Cloud Storage Forensics**

Ali Dehghantanha, Mauro Conti, Tooska Dargahi

## **Cloud Storage Forensics:**

Cloud Storage Forensics Darren Quick, Ben Martini, Raymond Choo, 2013-11-16 To reduce the risk of digital forensic evidence being called into question in judicial proceedings it is important to have a rigorous methodology and set of procedures for conducting digital forensic investigations and examinations Digital forensic investigation in the cloud computing environment however is in infancy due to the comparatively recent prevalence of cloud computing Cloud Storage Forensics presents the first evidence based cloud forensic framework Using three popular cloud storage services and one private cloud storage service as case studies the authors show you how their framework can be used to undertake research into the data remnants on both cloud storage servers and client devices when a user undertakes a variety of methods to store upload and access data in the cloud By determining the data remnants on client devices you gain a better understanding of the types of terrestrial artifacts that are likely to remain at the Identification stage of an investigation Once it is determined that a cloud storage service account has potential evidence of relevance to an investigation you can communicate this to legal liaison points within service providers to enable them to respond and secure evidence in a timely manner Learn to use the methodology and tools from the first evidenced based cloud forensic framework Case studies provide detailed tools for analysis of cloud storage devices using popular cloud storage services Includes coverage of the legal implications of cloud storage forensic investigations Discussion of the future evolution of cloud storage and its impact on digital forensics

Cloud Storage Forensics Darren Quick, Ben Martini, Kim-Kwang Raymond Choo, 2013-12-11 This book presents the first evidence based cloud forensic framework Using three popular cloud storage services and one private cloud storage service as case studies the authors demonstrate how their framework can be used to undertake research into the data remnants on both cloud storage servers and client devices when a user undertakes a variety of methods to store upload and access data in the cloud Security, Privacy, and Digital Forensics in the Cloud Lei Chen, Hassan Takabi, Nhien-An Le-Khac, 2019-02-05 In a unique and systematic way this book discusses the security and privacy aspects of the cloud and the relevant cloud forensics Cloud computing is an emerging yet revolutionary technology that has been changing the way people live and work However with the continuous growth of cloud computing and related services security and privacy has become a critical issue Written by some of the top experts in the field this book specifically discusses security and privacy of the cloud as well as the digital forensics of cloud data applications and services. The first half of the book enables readers to have a comprehensive understanding and background of cloud security which will help them through the digital investigation quidance and recommendations found in the second half of the book Part One of Security Privacy and Digital Forensics in the Cloud covers cloud infrastructure security confidentiality of data access control in cloud IaaS cloud security and privacy management hacking and countermeasures risk management and disaster recovery auditing and compliance and security as a service SaaS Part Two addresses cloud forensics model challenges and approaches cyberterrorism in the cloud digital

forensic process and model in the cloud data acquisition digital evidence management presentation and court preparation analysis of digital evidence and forensics as a service FaaS Thoroughly covers both security and privacy of cloud and digital forensics Contributions by top researchers from the U S the European and other countries and professionals active in the field of information and network security digital and computer forensics and cloud and big data Of interest to those focused upon security and implementation and incident management Logical well structured and organized to facilitate comprehension Security Privacy and Digital Forensics in the Cloud is an ideal book for advanced undergraduate and master s level students in information systems information technology computer and network forensics as well as computer science It can also serve as a good reference book for security professionals digital forensics practitioners and cloud service providers

Contemporary Digital Forensic Investigations of Cloud and Mobile Applications Kim-Kwang Raymond Choo, Ali Dehghantanha, 2016-10-12 Contemporary Digital Forensic Investigations of Cloud and Mobile Applications comprehensively discusses the implications of cloud storage services and mobile applications on digital forensic investigations. The book provides both digital forensic practitioners and researchers with an up to date and advanced knowledge of collecting and preserving electronic evidence from different types of cloud services such as digital remnants of cloud applications accessed through mobile devices This is the first book that covers the investigation of a wide range of cloud services Dr Kim Kwang Raymond Choo and Dr Ali Dehghantanha are leading researchers in cloud and mobile security and forensics having organized research led research and been published widely in the field Users will gain a deep overview of seminal research in the field while also identifying prospective future research topics and open challenges Presents the most current leading edge research on cloud and mobile application forensics featuring a panel of top experts in the field Introduces the first book to provide an in depth overview of the issues surrounding digital forensic investigations in cloud and associated mobile apps Covers key technical topics and provides readers with a complete understanding of the most current research findings Includes discussions on future research directions and challenges Security, Privacy, and Digital Forensics in the Cloud Lei Chen, Hassan Takabi, Nhien-An Le-Khac, 2019-02-01 In a unique and systematic way this book discusses the security and privacy aspects of the cloud and the relevant cloud forensics Cloud computing is an emerging yet revolutionary technology that has been changing the way people live and work However with the continuous growth of cloud computing and related services security and privacy has become a critical issue Written by some of the top experts in the field this book specifically discusses security and privacy of the cloud as well as the digital forensics of cloud data applications and services The first half of the book enables readers to have a comprehensive understanding and background of cloud security which will help them through the digital investigation guidance and recommendations found in the second half of the book Part One of Security Privacy and Digital Forensics in the Cloud covers cloud infrastructure security confidentiality of data access control in cloud IaaS cloud security and privacy management hacking and countermeasures risk management and disaster

recovery auditing and compliance and security as a service SaaS Part Two addresses cloud forensics model challenges and approaches cyberterrorism in the cloud digital forensic process and model in the cloud data acquisition digital evidence management presentation and court preparation analysis of digital evidence and forensics as a service FaaS Thoroughly covers both security and privacy of cloud and digital forensics Contributions by top researchers from the U S the European and other countries and professionals active in the field of information and network security digital and computer forensics and cloud and big data Of interest to those focused upon security and implementation and incident management Logical well structured and organized to facilitate comprehension Security Privacy and Digital Forensics in the Cloud is an ideal book for advanced undergraduate and master s level students in information systems information technology computer and network forensics as well as computer science It can also serve as a good reference book for security professionals digital forensics practitioners and cloud service providers Digital-Forensics and Watermarking Yun-Qing Shi, Hyoung Joong Kim, Fernando Pérez-González, Ching-Nung Yang, 2015-06-24 This book constitutes the thoroughly refereed post conference proceedings of the 13th International Workshop on Digital Forensics and Watermarking IWDW 2014 held in Taipei Taiwan during October 2014 The 32 full and 14 poster papers presented together with 1 keynote speech were carefully reviewed and selected from 79 submissions The papers are organized in topical sections on forensics watermarking reversible data hiding visual Digital Forensics Handbook H. Mitchel, 2025-06-02 Digital cryptography and steganography and steganalysis Forensics Handbook by H Mitchel offers a practical and accessible approach to the science of digital investigation Designed for students professionals and legal experts this guide walks you through the process of identifying preserving analyzing and presenting digital evidence in cybercrime cases Learn about forensic tools incident response file system analysis mobile forensics and more Whether you re working in law enforcement cybersecurity or digital litigation this book helps you uncover the truth in a world where evidence is often hidden in bits and bytes Artificial Intelligence and Security Xingming Sun, Jinwei Wang, Elisa Bertino, 2020-09-12 The 3 volume set CCIS 1252 until CCIS 1254 constitutes the refereed proceedings of the 6th International Conference on Artificial Intelligence and Security ICAIS 2020 which was held in Hohhot China in July 2020 The conference was formerly called International Conference on Cloud Computing and Security with the acronym ICCCS The total of 178 full papers and 8 short papers presented in this 3 volume proceedings was carefully reviewed and selected from 1064 submissions The papers were organized in topical sections as follows Part I artificial intelligence Part II artificial intelligence Internet of things information security Part III information security big data and cloud computing <u>Digital Forensic Science</u> B Suresh Shetty, Pavanchand Shetty, 2020-09-30 It is our pleasure to information processing place before you the book Digital Forensic Science This book makes up a major part of the broad specialty of Digital Forensic Science comprising mainly of tools and technologies of cyber forensic experts for their future practice This book has been designed to merge a range of new ideas and unique works of authors from topics like fundamental principles of forensic

cyber analysis and protocols and rules needed for the best digital forensics. We hope that it will be useful to practitioners of forensic medicine experts cyber experts law makers investigating authorities and undergraduate and postgraduate medical Intelligent Systems and Applications W.C.-C. Chu, H.-C. Chao, S.J.-H. Yang, 2015-04-14 This school graduates of medicine book presents the proceedings of the International Computer Symposium 2014 ICS 2014 held at Tunghai University Taichung Taiwan in December ICS is a biennial symposium founded in 1973 and offers a platform for researchers educators and professionals to exchange their discoveries and practices to share research experiences and to discuss potential new trends in the ICT industry Topics covered in the ICS 2014 workshops include algorithms and computation theory artificial intelligence and fuzzy systems computer architecture embedded systems SoC and VLSI EDA cryptography and information security databases data mining big data and information retrieval mobile computing wireless communications and vehicular technologies software engineering and programming languages healthcare and bioinformatics among others There was also a workshop on information technology innovation industrial application and the Internet of Things ICS is one of Taiwan s most prestigious international IT symposiums and this book will be of interest to all those involved in the world of information Cyber Threat Intelligence Ali Dehghantanha, Mauro Conti, Tooska Dargahi, 2018-04-27 This book provides technology readers with up to date research of emerging cyber threats and defensive mechanisms which are timely and essential It covers cyber threat intelligence concepts against a range of threat actors and threat tools i e ransomware in cutting edge technologies i e Internet of Things IoT Cloud computing and mobile devices This book also provides the technical information on cyber threat detection methods required for the researcher and digital forensics experts in order to build intelligent automated systems to fight against advanced cybercrimes The ever increasing number of cyber attacks requires the cyber security and forensic specialists to detect analyze and defend against the cyber threats in almost real time and with such a large number of attacks is not possible without deeply perusing the attack features and taking corresponding intelligent defensive actions this in essence defines cyber threat intelligence notion However such intelligence would not be possible without the aid of artificial intelligence machine learning and advanced data mining techniques to collect analyze and interpret cyber attack campaigns which is covered in this book This book will focus on cutting edge research from both academia and industry with a particular emphasis on providing wider knowledge of the field novelty of approaches combination of tools and so forth to perceive reason learn and act on a wide range of data collected from different cyber security and forensics solutions This book introduces the notion of cyber threat intelligence and analytics and presents different attempts in utilizing machine learning and data mining techniques to create threat feeds for a range of consumers Moreover this book sheds light on existing and emerging trends in the field which could pave the way for future works The inter disciplinary nature of this book makes it suitable for a wide range of audiences with backgrounds in artificial intelligence cyber security forensics big data and data mining distributed systems and computer networks This would include industry professionals advanced level students and researchers that work within these related fields <u>Digital Forensics</u> Aamer Khan,2025-03-15 This book Ethical Hacking Digital Forensics is for those who desire to learn more about investigating and fighting digital crimes It covers latest challenges faced in digital forensic like email forensic mobile forensic and cloud forensic It also sequentially explains disk forensic network forensic memory forensic mobile forensic and cloud forensic The lucid content of the book and the questions provided in each chapter help the learners to prepare themselves for digital forensic competitive exams It covers complete Ethical Hacking with Practicals Digital Forensics

Web-Based Services: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2015-11-09 The recent explosion of digital media online networking and e commerce has generated great new opportunities for those Internet savvy individuals who see potential in new technologies and can turn those possibilities into reality It is vital for such forward thinking innovators to stay abreast of all the latest technologies Web Based Services Concepts Methodologies Tools and Applications provides readers with comprehensive coverage of some of the latest tools and technologies in the digital industry The chapters in this multi volume book describe a diverse range of applications and methodologies made possible in a world connected by the global network providing researchers computer scientists web developers and digital experts with the latest knowledge and developments in Internet technologies Digital Forensics Explained Greg Gogolin, 2021-04-12 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 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

Mobile Forensics - Advanced Investigative Strategies Oleg Afonin, Vladimir Katalov, 2016-09-30 Master powerful strategies to acquire and analyze evidence from real life scenarios About This Book A straightforward guide to address the roadblocks face when doing mobile forensics Simplify mobile forensics using the right mix of methods techniques and tools Get valuable advice to put you in the mindset of a forensic professional regardless of your career level or experience Who This Book Is For This book is for forensic analysts and law enforcement and IT security officers who have to deal with digital evidence as part of their daily job Some basic familiarity with digital forensics is assumed but no experience with mobile forensics is required What You Will Learn Understand the challenges of mobile forensics Grasp how to properly deal with digital evidence Explore the types of evidence available on iOS Android Windows and BlackBerry mobile devices Know what forensic outcome to expect under given circumstances Deduce when and how to apply physical logical over the air or low level advanced acquisition methods Get in depth knowledge of the different acquisition methods for all major mobile platforms Discover important mobile acquisition tools and techniques for all of the major platforms In Detail Investigating digital media is impossible without forensic tools Dealing with complex forensic problems requires the use of dedicated tools and even more importantly the right strategies In this book you ll learn strategies and methods to deal with information stored on smartphones and tablets and see how to put the right tools to work We begin by helping you understand the concept of mobile devices as a source of valuable evidence Throughout this book you will explore strategies and plays and decide when to use each technique We cover important techniques such as seizing techniques to shield the device and acquisition techniques including physical acquisition via a USB connection logical acquisition via data backups over the air acquisition We also explore cloud analysis evidence discovery and data analysis tools for mobile forensics and tools to help you discover and analyze evidence By the end of the book you will have a better understanding of the tools and methods used to deal with the challenges of acquiring preserving and extracting evidence stored on smartphones tablets and the cloud Style and approach This book takes a unique strategy based approach executing them on real world scenarios You will be introduced to thinking in terms of game plans which are essential to succeeding in analyzing evidence and conducting investigations Advances in Digital Forensics XIV Gilbert Peterson, Sujeet Shenoi, 2018-08-29 ADVANCES IN DIGITAL FORENSICS XIV Edited by Gilbert Peterson and Sujeet Shenoi Digital forensics deals with the acquisition preservation examination analysis and presentation of electronic evidence Computer networks cloud computing smartphones embedded devices and the Internet of Things 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 in legal proceedings 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 and resilient systems Advances in Digital Forensics XIV 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 Network Forensics Cloud Forensics and Mobile and Embedded Device Forensics This book is the fourteenth 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 nineteen edited papers from the Fourteenth Annual IFIP WG 11 9 International Conference on Digital Forensics held in New Delhi India in the winter of 2018 Advances in Digital Forensics XIV 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 Chair IFIP WG 11 9 on Digital Forensics is a Professor of Computer Engineering at the Air Force Institute of Technology Wright Patterson Air Force Base Ohio USA Sujeet Shenoi is the F P Walter Professor of Computer Science and a Professor of Chemical Engineering at the University of Tulsa Tulsa Oklahoma USA of Big Data and IoT Security Ali Dehghantanha, Kim-Kwang Raymond Choo, 2019-03-22 This handbook provides an overarching view of cyber security and digital forensic challenges related to big data and IoT environment prior to reviewing existing data mining solutions and their potential application in big data context and existing authentication and access control for IoT devices An IoT access control scheme and an IoT forensic framework is also presented in this book and it explains how the IoT forensic framework can be used to guide investigation of a popular cloud storage service A distributed file system forensic approach is also presented which is used to guide the investigation of Ceph Minecraft a Massively Multiplayer Online Game and the Hadoop distributed file system environment are also forensically studied and their findings reported in this book A forensic IoT source camera identification algorithm is introduced which uses the camera's sensor pattern noise from the captured image In addition to the IoT access control and forensic frameworks this handbook covers a cyber defense triage process for nine advanced persistent threat APT groups targeting IoT infrastructure namely APT1 Molerats Silent Chollima Shell Crew NetTraveler ProjectSauron CopyKittens Volatile Cedar and Transparent Tribe The characteristics of remote controlled real world Trojans using the Cyber Kill Chain are also examined It introduces a method to leverage different crashes discovered from two fuzzing approaches which can be used to enhance the effectiveness of fuzzers Cloud computing is also often associated with IoT and big data e g cloud enabled IoT systems and hence a survey of

the cloud security literature and a survey of botnet detection approaches are presented in the book Finally game security solutions are studied and explained how one may circumvent such solutions. This handbook targets the security privacy and forensics research community and big data research community including policy makers and government agencies public and private organizations policy makers Undergraduate and postgraduate students enrolled in cyber security and forensic programs will also find this handbook useful as a reference *Network Security and Communication Engineering Kennis* Chan, 2015-07-06 The conference on network security and communication engineering is meant to serve as a forum for exchanging new developments and research progresss between scholars scientists and engineers all over the world and providing a unique opportunity to exchange information to present the latest results as well as to review the relevant issues Cyber and Digital Forensic Investigations Nhien-An Le-Khac, Kim-Kwang Raymond Choo, 2020-07-25 Understanding the latest capabilities in the cyber threat landscape as well as the cyber forensic challenges and approaches is the best way users and organizations can prepare for potential negative events Adopting an experiential learning approach this book describes how cyber forensics researchers educators and practitioners can keep pace with technological advances and acquire the essential knowledge and skills ranging from IoT forensics malware analysis and CCTV and cloud forensics to network forensics and financial investigations Given the growing importance of incident response and cyber forensics in our digitalized society this book will be of interest and relevance to researchers educators and practitioners in the field as well as students wanting to learn about cyber forensics

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