

Uncovering Digital Evidence: A Guide to Forensics Analysis in IaaS Cloud

As organizations continue to adopt cloud computing for their IT operations, the need for forensic analysis in the cloud has become more crucial. Digital forensics enables investigators to collect and analyze digital evidence, helping organizations uncover the root cause of a security incident. This infographic outlines five essential steps for conducting forensic analysis in IaaS cloud.

Gathering Evidence:

The first step in forensic analysis is to gather evidence, including system logs, network traffic, and memory dump files. Investigators should ensure that the evidence collected is authentic, reliable, and admissible in court.

Implementing Anti-virus Checks:

Investigators should perform anti-virus checks to identify any malware infections. This includes checking for malicious files, registry keys, and network connections. Advanced threat detection tools like intrusion detection systems can help automate this process.

Identifying File System Modifications:

Next, investigators need to identify any modifications made to the file system. This includes checking for file deletions, modifications, and creation. Advanced tools like file integrity monitoring can help automate this process.

Identifying Suspicious Files:

Lastly, investigators need to identify any suspicious files, including hidden files and malware droppers. This includes looking for any anomalies in file sizes, timestamps, and metadata.

Identify Evidence of Persistence:

The next step is to identify evidence of persistence, including rogue processes and unauthorized user accounts. Investigators should also look for any changes made to system settings, such as the startup processes or network settings.

Forensic analysis in the cloud is critical for organizations to uncover and remediate security incidents. By following these five essential steps, investigators can help organizations strengthen their security posture in the cloud.



Cloud Storage Forensics

B Suresh Shetty, Pavanchand Shetty



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

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 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

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

Cloud Forensics Demystified Ganesh Ramakrishnan, Mansoor Haqanee, 2024-02-22 Enhance your skills as a cloud investigator to adeptly respond to cloud incidents by combining traditional forensic techniques with innovative approaches Key Features Uncover the steps involved in cloud forensic investigations for M365 and Google Workspace Explore tools and logs available within AWS Azure and Google for cloud investigations Learn how to investigate containerized services such as Kubernetes and Docker Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionAs organizations embrace cloud centric environments it becomes imperative for security professionals to master the skills of effective cloud investigation Cloud Forensics Demystified addresses this pressing need explaining how to use cloud native tools and logs together with traditional digital forensic techniques for a thorough cloud investigation The book begins by giving you an overview of cloud services followed by a detailed exploration of the tools and techniques used to investigate popular cloud platforms such as Amazon Web Services AWS Azure and Google Cloud Platform GCP Progressing through the chapters you ll learn how to investigate Microsoft 365 Google Workspace and containerized environments such as Kubernetes Throughout the chapters emphasize the significance of the cloud explaining which tools and logs need to be enabled for investigative purposes and demonstrating how to integrate them with traditional digital forensic tools and techniques to respond to cloud security incidents By the end

of this book you ll be well equipped to handle security breaches in cloud based environments and have a comprehensive understanding of the essential cloud based logs vital to your investigations This knowledge will enable you to swiftly acquire and scrutinize artifacts of interest in cloud security incidents What you will learn Explore the essential tools and logs for your cloud investigation Master the overall incident response process and approach Familiarize yourself with the MITRE ATT CK framework for the cloud Get to grips with live forensic analysis and threat hunting in the cloud Learn about cloud evidence acquisition for offline analysis Analyze compromised Kubernetes containers Employ automated tools to collect logs from M365 Who this book is for This book is for cybersecurity professionals incident responders and IT professionals adapting to the paradigm shift toward cloud centric environments Anyone seeking a comprehensive guide to investigating security incidents in popular cloud platforms such as AWS Azure and GCP as well as Microsoft 365 Google Workspace and containerized environments like Kubernetes will find this book useful Whether you re a seasoned professional or a newcomer to cloud security this book offers insights and practical knowledge to enable you to handle and secure cloud based infrastructure

Intelligent Systems and Applications W.C.-C. Chu,H.-C. Chao,S.J.-H. Yang,2015-04-14 This 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 technology

Cloud Forensics: Investigating the Digital Frontier Vijay Kumar Gupta,2024-08-01 Explore the evolving field of cloud forensics with this comprehensive guide designed for cybersecurity professionals and forensic investigators As businesses and individuals increasingly rely on cloud services for data storage and processing the need for effective forensic investigation techniques in cloud environments has become paramount Cloud Forensics Investigating the Digital Frontier offers an in depth exploration of the strategies tools and methodologies required to uncover digital evidence in cloud platforms Inside this eBook you will discover Introduction to Cloud Forensics Understand the fundamental concepts of cloud computing and the unique challenges it presents to forensic investigations Forensic Investigation Techniques Learn the step by step process of conducting forensic investigations in cloud environments from data acquisition to analysis and reporting Tools and Technologies Explore the latest forensic tools and software used by professionals to trace and analyze cloud based

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Cyber Threat Intelligence Ali Dehghantanha, Mauro Conti, Tooska Dargahi, 2018-04-27 This book provides 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 [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

on *Handbook 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

ICT Systems Security and Privacy Protection Weizhi Meng, Simone Fischer-Hübner, Christian D. Jensen, 2022-06-03 This book constitutes the refereed proceedings of the 37th IFIP TC 11 International Conference on Information Security and Privacy Protection SEC 2022 held in Copenhagen Denmark in June 2022 The 29 full papers presented were carefully reviewed and selected from 127 submissions The papers present novel research on theoretical and practical aspects of security and privacy protection in information processing systems They are organized in topical sections on privacy models and preferences network security and IDS network security and privacy forensics trust and PETs crypto based solutions usable security blockchain mobile security and privacy PETs and crypto and vulnerabilities

Evolving Networking Technologies Kanta Prasad Sharma, Shaurya Gupta, Ashish Sharma, Dac-Nhuong Le, 2023-05-31 *EVOLVING NETWORKING TECHNOLOGIES* This book discusses in a practical manner some of the critical security challenges facing the ever evolving networking technologies of today In an age of explosive worldwide growth of electronic data storage and communications effective protection of information has become a critical requirement especially when used in coordination with other tools for information security and cryptography in all of its applications including data

confidentiality data integrity and user authentication While the importance of cryptographic technique i e encryption in protecting sensitive and critical information and resources cannot be overemphasized an examination of the technical evolution within several industries reveals an approaching precipice of scientific change The glacially paced but inevitable convergence of quantum mechanics nanotechnology computer science and applied mathematics will revolutionize modern technology The implications of such changes will be far reaching with one of its greatest impacts affecting information security and more specifically modern cryptography The book takes the reader through these issues As the security systems design becomes more and more complex to meet these challenges a mistake that is committed most often by security specialists is not making a comprehensive analysis of the system to be secured before choosing which security mechanism to deploy Often the security mechanism chosen turns out to be either incompatible with or inadequate for handling the complexities of the system In addition the book also discusses three main points Configuration management is a critical issue and as networks are increasing in size their configuration needs to be managed Devices may conflict with each other in terms of configuration Therefore it becomes challenging for firewalls to be up to date according to network policies Scalability of the network is another big challenge it would be easier to address if the network stays the same but the network is ever expanding with a constant increase in the number of devices devoted to the network Vendor lock in Business decisions that are taken today are revolving around the assumptions and capabilities of the current vendor and environment scenario Buying the best solutions from today s vendors involves how to interoperate integrate and support multiple solutions It may involve tearing out all of the longstanding kits without tearing down the entire network at the same time Audience This book specifically appeals to industry practitioners IT researchers and students regarding network technological management

ICCWS 2019 14th International Conference on Cyber Warfare and Security Noëlle van der Waag-Cowling,Louise Leenen,2019-02-28 *Digital Forensics* A. Khan,2025-10-15 Digital Forensics Uncovering the Truth by A Khan is a complete and practical guide that explores how digital evidence is collected analyzed and presented in today s cybercrime investigations Written in a clear and methodical style the book provides a step by step understanding of how investigators ethical hackers and cybersecurity professionals trace digital footprints and uncover the truth behind cyber incidents

Multimedia Forensics and Security Aboul Ella Hassanien,Mohamed Mostafa Fouad,Azizah Abdul Manaf,Mazdak Zamani,Rabiah Ahmad,Janusz Kacprzyk,2016-10-17 This book presents recent applications and approaches as well as challenges in digital forensic science One of the evolving challenges that is covered in the book is the cloud forensic analysis which applies the digital forensic science over the cloud computing paradigm for conducting either live or static investigations within the cloud environment The book also covers the theme of multimedia forensics and watermarking in the area of information security That includes highlights on intelligence techniques designed for detecting significant changes in image and video sequences Moreover the theme proposes recent robust and computationally efficient digital watermarking

techniques The last part of the book provides several digital forensics related applications including areas such as evidence acquisition enhancement evidence evaluation cryptography and finally live investigation through the importance of reconstructing the botnet attack scenario to show the malicious activities and files as evidences to be presented in a court

Resource Material Series ,2015 400+ Digital Forensics Investigator Interview Questions And Answers Guide (expert Edition) - Complete Study & Preparation Ebook CloudRoar Consulting services,101-01-01 Prepare for the Zscaler Certified Administrator exam with 350 questions and answers covering cloud security firewall policies access control traffic inspection logging and best practices Each question provides practical examples and detailed explanations to ensure exam readiness Ideal for cloud security engineers and administrators Zscaler Certified Administrator Cloud Security Firewall Policies Access Control Traffic Inspection Logging Best Practices Exam Preparation Career Growth Professional Development IT Security Cloud Engineering IT Skills ITCertifications *CompTIA CySA+ Cybersecurity Analyst Certification All-in-One Exam Guide, Third Edition (Exam CS0-003)* Mya Heath,Bobby E. Rogers,Brent Chapman,Fernando Maymi,2023-12-08 Prepare for the CompTIA CySA certification exam using this fully updated self study resource Take the current version of the challenging CompTIA CySA TM certification exam with confidence using the detailed information contained in this up to date integrated study system Based on proven pedagogy the book contains detailed explanations real world examples step by step exercises and exam focused special elements that teach and reinforce practical skills CompTIA CySA TM Cybersecurity Analyst Certification All in One Exam Guide Third Edition Exam CS0 003 covers 100% of 2023 exam objectives and features re structured content and new topics Online content enables you to test yourself with full length timed practice exams or create customized quizzes by chapter or exam domain Designed to help you pass the exam with ease this comprehensive guide also serves as an essential on the job reference Includes access to the TotalTester Online test engine with 170 multiple choice practice exam questions and additional performance based questions Includes a 10% off exam voucher coupon a 39 value Written by a team of recognized cybersecurity experts *Digital Forensic Science* B Suresh Shetty,Pavanchand Shetty,2020-09-30 It is our pleasure to 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 school graduates of medicine *Digital Forensics Handbook* H. Mitchel, *Digital 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

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