Ali Dehghantanha,Kim-Kwang Raymond Choo

Big Data Forensics - Learning Hadoop Investigations loe 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.

Operationalizing Threat Intelligence Kyle Wilhoit, Joseph Opacki,2022-06-17 Learn cyber threat intelligence fundamentals to implement and operationalize an organizational intelligence program Key Features • Develop and implement a threat intelligence program from scratch • Discover techniques to perform cyber threat intelligence, collection, and analysis using open-source tools • Leverage a combination of theory and practice that will help you prepare a solid foundation for operationalizing threat intelligence programs Book Description We're living in an era where cyber threat intelligence is becoming more important. Cyber threat intelligence routinely informs tactical and strategic decision-making throughout organizational operations. However, finding the right resources on the fundamentals of operationalizing a threat intelligence function can be challenging, and that's where this book helps. In Operationalizing Threat Intelligence, you'll explore cyber threat intelligence in five fundamental areas:

defining threat intelligence, developing threat intelligence, collecting threat intelligence, enrichment and analysis, and finally production of threat intelligence. You'll start by finding out what threat intelligence is and where it can be applied. Next, you'll discover techniques for performing cyber threat intelligence collection and analysis using open source tools. The book also examines commonly used frameworks and policies as well as fundamental operational security concepts. Later, you'll focus on enriching and analyzing threat intelligence through pivoting and threat hunting. Finally, you'll examine detailed mechanisms for the production of intelligence. By the end of this book, you'll be equipped with the right tools and understand what it takes to operationalize your own threat intelligence function, from collection to production. What you will learn • Discover types of threat actors and their common tactics and techniques • Understand the core tenets of cyber threat intelligence • Discover cyber threat intelligence policies, procedures, and frameworks • Explore the fundamentals relating to collecting cyber threat intelligence • Understand fundamentals about threat intelligence enrichment and analysis • Understand what threat hunting and pivoting are, along with examples • Focus on putting threat intelligence into production • Explore techniques for performing threat analysis, pivoting, and hunting Who this book is for This book is for cybersecurity professionals, security analysts, security enthusiasts, and anyone who is just getting started and looking to explore threat intelligence in more detail. Those working in different security roles will also be able to explore threat intelligence with the help of this security book.

Seven Deadliest USB Attacks Brian Anderson, Barbara Anderson, 2010-06-03 Seven Deadliest USB Attacks provides a comprehensive view of the most serious types of Universal Serial Bus (USB) attacks. While the book focuses on Windows systems, Mac, Linux, and UNIX systems are equally susceptible to similar attacks. If you need to keep up with the latest hacks, attacks, and exploits effecting USB technology, then this book is for you. This book pinpoints the most dangerous hacks and exploits specific to USB, laying out the anatomy of these attacks including how to make your system more secure. You will discover the best ways to defend against these vicious hacks with step-by-step instruction and learn techniques to make your computer and network impenetrable. The attacks outlined in this book are intended for individuals with moderate Microsoft Windows proficiency. The book provides the tools, tricks, and detailed instructions necessary to reconstruct and mitigate these activities while peering into the risks and future aspects surrounding the respective technologies. There are seven chapters that cover the following: USB Hacksaw; the USB Switchblade; viruses and malicious codes: USB-based heap overflow; the evolution of forensics in computer security; pod slurping; and the human element of security, including the risks, rewards, and controversy surrounding social-engineering engagements. This book was written to target a vast audience including students, technical staff, business leaders, or anyone seeking to understand fully the removable-media risk for Windows systems. It will be a valuable resource for information security professionals of all levels, as well as web application developers and recreational hackers. Knowledge is power, find out about the most dominant attacks currently waging war on computers and networks globally Discover the best ways to defend against these vicious attacks; step-by-step instruction shows you how Institute countermeasures, don't be caught defenseless again, and learn techniques to make your computer and network impenetrable

<u>Forensic Examination of Windows-Supported File Systems</u> Doug Elrick,

Learning Malware Analysis Monnappa K A,2018-06-29 Understand malware analysis and its practical implementation Key Features Explore the key concepts of malware analysis and memory forensics using real-world examples Learn the art of detecting, analyzing, and investigating malware threats Understand adversary tactics and techniques Book Description Malware analysis and memory forensics are powerful analysis and investigation techniques used in reverse engineering, digital forensics, and incident response. With adversaries becoming sophisticated and carrying out advanced malware attacks on critical infrastructures, data centers, and private and public organizations, detecting, responding to, and investigating such intrusions is critical to information security professionals. Malware analysis and memory forensics have become must-have skills to fight advanced malware, targeted attacks, and security breaches. This book teaches you the concepts, techniques, and tools to understand the behavior and characteristics of malware through malware analysis. It also teaches you techniques to investigate and hunt malware using memory forensics. This book introduces you to the basics of malware analysis, and then gradually progresses into the more advanced concepts of code analysis and memory forensics. It uses real-world malware samples, infected memory images, and visual diagrams to help you gain a better understanding of the subject and to equip you with the skills required to analyze, investigate, and respond to malware-related incidents. What you will learn Create a safe and isolated lab environment for malware analysis Extract the metadata associated with malware Determine malware's interaction with the system Perform code analysis using IDA Pro and x64dbg Reverse-engineer various malware functionalities Reverse engineer and decode common encoding/encryption algorithms Reverse-engineer malware code injection and hooking techniques Investigate and hunt malware using memory forensics Who this book is for This book is for incident responders, cyber-security investigators, system administrators, malware analyst, forensic practitioners, student, or curious security professionals interested in learning malware analysis and memory forensics. Knowledge of programming languages such as C and Python is helpful but is not

mandatory. If you have written few lines of code and have a basic understanding of programming concepts, you'll be able to get most out of this book.

Windows Forensic Analysis Toolkit Harlan Carvey,2012-01-27 Windows is the largest operating system on desktops and servers worldwide, which means more intrusions, malware infections, and cybercrime happen on these systems. Author Harlan Carvey has brought his bestselling book up-to-date by covering the newest version of Windows, Windows 7. Windows Forensic Analysis Toolkit, 3e, covers live and postmortem response collection and analysis methodologies, addressing material that is applicable to law enforcement, the federal government, students, and consultants. The book is also accessible to system administrators, who are often the frontline when an incident occurs, but due to staffing and budget constraints do not have the necessary knowledge to respond effectively. Now the companion material is hosted online as opposed to a DVD, making the material accessible from any location and in any book format.

Behavioral Cybersecurity Wayne Patterson, Cynthia E. Winston-Proctor.2020-12-07 This book discusses the role of human personality in the study of behavioral cybersecurity for nonspecialists. Since the introduction and proliferation of the Internet, cybersecurity maintenance issues have grown exponentially. The importance of behavioral cybersecurity has recently been amplified by current events, such as misinformation and cyberattacks related to election interference in the United States and internationally. More recently, similar issues have occurred in the context of the COVID-19 pandemic. The book presents profiling approaches, offers case studies of major cybersecurity events and provides analysis of password attacks and defenses. Discussing psychological methods used to assess behavioral cybersecurity, alongside risk management, the book also describes game theory and its applications, explores the role of cryptology and steganography in attack and defense scenarios and brings the

reader up to date with current research into motivation and attacker/defender personality traits. Written for practitioners in the field, alongside nonspecialists with little prior knowledge of cybersecurity, computer science, or psychology, the book will be of interest to all who need to protect their computing environment from cyber-attacks. The book also provides source materials for courses in this growing area of behavioral cybersecurity.

Mobile Forensics - The File Format Handbook Christian Hummert, Dirk Pawlaszczyk, 2022 This open access book summarizes knowledge about several file systems and file formats commonly used in mobile devices. In addition to the fundamental description of the formats, there are hints about the forensic value of possible artefacts, along with an outline of tools that can decode the relevant data. The book is organized into two distinct parts. First, Part I describes several different file systems that are commonly used in mobile devices: APFS is the file system that is used in all modern Apple devices including iPhones, iPads, and even Apple Computers, like the MacBook series. Ext4 is very common in Android devices and is the successor of the Ext2 and Ext3 file systems that were commonly used on Linux-based computers. The Flash-Friendly File System (F2FS) is a Linux system designed explicitly for NAND Flash memory, common in removable storage devices and mobile devices, which Samsung Electronics developed in 2012. The QNX6 file system is present in Smartphones delivered by Blackberry (e.g. devices that are using Blackberry 10) and modern vehicle infotainment systems that use QNX as their operating system. Second, Part II describes five different file formats that are commonly used on mobile devices: SQLite is nearly omnipresent in mobile devices with an overwhelming majority of all mobile applications storing their data in such databases. The second leading file format in the mobile world are Property Lists, which are predominantly found on Apple devices. Java Serialization is a popular technique for storing object states in the Java programming language. Mobile application (app)

developers very often resort to this technique to make their application state persistent. The Realm database format has emerged over recent years as a possible successor to the now ageing SQLite format and has begun to appear as part of some modern applications on mobile devices. Protocol Buffers provide a format for taking compiled data and serializing it by turning it into bytes represented in decimal values, which is a technique commonly used in mobile devices. The aim of this book is to act as a knowledge base and reference guide for digital forensic practitioners who need knowledge about a specific file system or file format. It is also hoped to provide useful insight and knowledge for students or other aspiring professionals who want to work within the field of digital forensics. The book is written with the assumption that the reader will have some existing knowledge and understanding about computers, mobile devices, file systems and file formats.

C++20 Recipes J. Burton Browning, Bruce Sutherland, 2020-04-24 Discover the newest major features of C++20, including modules, concepts, spaceship operators, and smart pointers. This book is a handy code cookbook reference quide that covers the C++ core language standard as well as some of the code templates available in standard template library (STL). In C++20 Recipes: A Problem-Solution Approach, you'll find numbers, strings, dates, times, classes, exceptions, streams, flows, pointers, and more. Also, you'll see various code samples, templates for C++ algorithms, parallel processing, multithreading, and numerical processes. It also includes 3D graphics programming code. A wealth of STL templates on function objects, adapters, allocators, and extensions are also available. This is a must-have, contemporary reference for your technical library to help with just about any project that involves the C++ programming language. What You Will Learn See what's new in C++20 Write modules Work with text, numbers, and classes Use the containers and algorithms available in the standard library

Work with templates, memory, concurrency, networking, scripting, and more Code for 3D graphics Who This Book Is For Programmers with at least some prior experience with C++.

Mastering Reverse Engineering Reginald Wong, 2018-10-31 Implement reverse engineering techniques to analyze software, exploit software targets, and defend against security threats like malware and viruses. Key FeaturesAnalyze and improvise software and hardware with real-world examplesLearn advanced debugging and patching techniques with tools such as IDA Pro, x86dbg, and Radare2.Explore modern security techniques to identify, exploit, and avoid cyber threatsBook Description If you want to analyze software in order to exploit its weaknesses and strengthen its defenses, then you should explore reverse engineering. Reverse Engineering is a hackerfriendly tool used to expose security flaws and questionable privacy practices. In this book, you will learn how to analyse software even without having access to its source code or design documents. You will start off by learning the low-level language used to communicate with the computer and then move on to covering reverse engineering techniques. Next, you will explore analysis techniques using real-world tools such as IDA Pro and x86dbg. As you progress through the chapters, you will walk through use cases encountered in reverse engineering, such as encryption and compression, used to obfuscate code, and how to to identify and overcome anti-debugging and anti-analysis tricks. Lastly, you will learn how to analyse other types of files that contain code. By the end of this book, you will have the confidence to perform reverse engineering. What you will learnLearn core reverse engineering/dentify and extract malware componentsExplore the tools used for reverse engineeringRun programs under non-native operating systemsUnderstand binary obfuscation techniquesIdentify and analyze anti-debugging and anti-analysis tricksWho this book is for If you are a security engineer or analyst or a system programmer and want to use reverse engineering to improve your software and hardware, this

is the book for you. You will also find this book useful if you are a developer who wants to explore and learn reverse engineering. Having some programming/shell scripting knowledge is an added advantage.

Data Hiding Techniques in Windows OS Nihad Ahmad Hassan, Rami Hijazi, 2016-09-08 This unique book delves down into the capabilities of hiding and obscuring data object within the Windows Operating System. However, one of the most noticeable and credible features of this publication is, it takes the reader from the very basics and background of data hiding techniques, and run's on the reading-road to arrive at some of the more complex methodologies employed for concealing data object from the human eye and/or the investigation. As a practitioner in the Digital Age, I can see this book siting on the shelves of Cyber Security Professionals, and those working in the world of Digital Forensics it is a recommended read, and is in my opinion a very valuable asset to those who are interested in the landscape of unknown unknowns. This is a book which may well help to discover more about that which is not in immediate view of the onlooker, and open up the mind to expand its imagination beyond its accepted limitations of known knowns. - John Walker, CSIRT/SOC/Cyber Threat Intelligence Specialist Featured in Digital Forensics Magazine, February 2017 In the digital world, the need to protect online communications increase as the technology behind it evolves. There are many techniques currently available to encrypt and secure our communication channels. Data hiding techniques can take data confidentiality to a new level as we can hide our secret messages in ordinary, honest-looking data files. Steganography is the science of hiding data. It has several categorizations, and each type has its own techniques in hiding. Steganography has played a vital role in secret communication during wars since the dawn of history. In recent days, few computer users successfully manage to exploit their Windows® machine to conceal their private data. Businesses also have deep

concerns about misusing data hiding techniques. Many employers are amazed at how easily their valuable information can get out of their company walls. In many legal cases a disgruntled employee would successfully steal company private data despite all security measures implemented using simple digital hiding techniques. Human right activists who live in countries controlled by oppressive regimes need ways to smuggle their online communications without attracting surveillance monitoring systems, continuously scan in/out internet traffic for interesting keywords and other artifacts. The same applies to journalists and whistleblowers all over the world. Computer forensic investigators, law enforcements officers, intelligence services and IT security professionals need a guide to tell them where criminals can conceal their data in Windows® OS & multimedia files and how they can discover concealed data guickly and retrieve it in a forensic way. Data Hiding Techniques in Windows OS is a response to all these concerns. Data hiding topics are usually approached in most books using an academic method, with long math equations about how each hiding technique algorithm works behind the scene, and are usually targeted at people who work in the academic arenas. This book teaches professionals and end users alike how they can hide their data and discover the hidden ones using a variety of ways under the most commonly used operating system on earth, Windows®.

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 realworld 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.

Handbook of Research on Threat Detection and Countermeasures in Network Security Al-Hamami, Alaa Hussein,2014-10-31 Cyber attacks are rapidly becoming one of the most prevalent issues in the world. As cyber crime continues to escalate, it is imperative to explore new approaches and technologies that help ensure the security of the online community. The Handbook of Research on Threat Detection and Countermeasures in Network Security presents the latest methodologies and trends in detecting and preventing network threats. Investigating the potential of current and emerging security technologies, this publication is an all-inclusive reference source for academicians, researchers, students, professionals, practitioners, network analysts, and technology specialists interested in the simulation and application of computer network protection.

The Car Hacker's Handbook Craig Smith, 2016-03-01 Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with today's more hostile security environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker's Handbook will show you how to: -Build an accurate threat model for your vehicle -Reverse engineer the CAN bus to fake engine signals -Exploit vulnerabilities in diagnostic and data-logging systems -Hack the ECU and other firmware and embedded systems -Feed exploits through infotainment and vehicle-to-vehicle communication systems -Override factory settings with performance-tuning techniques -Build physical and virtual test benches to try out exploits safely If you're curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker's Handbook your first stop.

Fundamental Computing Forensics for Africa Aamo

lorliam,2018-06-28 This book presents a general introduction to the computational aspects of forensic science, covering the different tools needed for forensic investigations, the importance of forensics and biometrics, and the use of Benford's law for biometrics and network traffic analysis. It specifically focuses on the application of these techniques in Africa, and how they can be of benefit in the investigation of crime in Nigeria in particular.

**Emerging Technologies in Computing** Mahdi H. Miraz,Peter S. Excell,Andrew Ware,Safeeullah Soomro,Maaruf Ali,2020-09-28 This book constitutes the refereed conference proceedings of the Third International Conference on Emerging Technologies in Computing, iCEtiC 2020, held in London, UK, in August 2020. Due to VOVID-19 pandemic the conference was helt virtually.The 25 revised full papers were reviewed and selected from 65 submissions and are organized in topical sections covering blockchain and cloud computing; security, wireless sensor networks and IoT; AI, big data and data analytics; emerging technologies in engineering, education and sustainable development.

<u>Communication and Computing Systems</u> B.M.K. Prasad,Karan Singh,Shyam S. Pandey,Richard O'Kennedy,2019-10-22 The International Conference on Communication and Computing Systems (ICCCS 2018) provides a high-level international forum for researchers and recent advances in the field of electronic devices, computing, big data analytics, cyber security, quantum computing, biocomputing, telecommunication, etc. The aim of the conference was to bridge the gap between the technological advancements in the industry and the academic research.

Intelligent Computing Kohei Arai,2023-10-02 This book is a collection of insightful and unique state-of the-art papers presented at the Computing Conference which took place in London on June 22–23, 2023. A total of 539 papers were received out of which 193 were selected for presenting after double-blind peer-review. The book covers a wide range of scientific topics

including IoT, Artificial Intelligence, Computing, Data Science, Networking, Data security and Privacy, etc. The conference was successful in reaping the advantages of both online and offline modes. The goal of this conference is to give a platform to researchers with fundamental contributions and to be a premier venue for academic and industry practitioners to share new ideas and development experiences. We hope that readers find this book interesting and valuable. We also expect that the conference and its publications will be a trigger for further related research and technology improvements in this important subject.

Windows Malware Analysis Essentials Victor Marak, 2015-09-01 Master the fundamentals of malware analysis for the Windows platform and enhance your anti-malware skill set About This Book Set the baseline towards performing malware analysis on the Windows platform and how to use the tools required to deal with malware Understand how to decipher x86 assembly code from source code inside your favourite development environment A step-by-step based guide that reveals malware analysis from an industry insider and demystifies the process Who This Book Is For This book is best for someone who has prior experience with reverse engineering Windows executables and wants to specialize in malware analysis. The book presents the malware analysis thought process using a show-andtell approach, and the examples included will give any analyst confidence in how to approach this task on their own the next time around. What You Will Learn Use the positional number system for clear conception of Boolean algebra, that applies to malware research purposes Get introduced to static and dynamic analysis methodologies and build your own malware lab Analyse destructive malware samples from the real world (ITW) from fingerprinting and static/dynamic analysis to the final debrief Understand different modes of linking and how to compile your own libraries from assembly code and integrate the codein your final program Get to know about the various emulators, debuggers

and their features, and sandboxes and set them up effectively depending on the required scenario Deal with other malware vectors such as pdf and MS-Office based malware as well as scripts and shellcode In Detail Windows OS is the most used operating system in the world and hence is targeted by malware writers. There are strong ramifications if things go awry. Things will go wrong if they can, and hence we see a salvo of attacks that have continued to disrupt the normal scheme of things in our day to day lives. This book will guide you on how to use essential tools such as debuggers, disassemblers, and sandboxes to dissect malware samples. It will expose your innards and then build a report of their indicators of compromise along with detection rule sets that will enable you to help contain the outbreak when faced with such a situation. We will start with the basics of computing fundamentals such as number systems and Boolean algebra. Further, you'll learn about x86 assembly programming and its integration with high level languages such as C++.You'll understand how to decipher disassembly code obtained from the compiled source code and map it back to its original design goals. By delving into end to end analysis with real-world malware samples to solidify your understanding, you'll sharpen your technique of handling destructive malware binaries and vector mechanisms. You will also be encouraged to consider analysis lab safety measures so that there is no infection in the process. Finally, we'll have a rounded tour of various emulations, sandboxing, and debugging options so that you know what is at your disposal when you need a specific kind of weapon in order to nullify the malware. Style and approach An easy to follow, handson guide with descriptions and screenshots that will help you execute effective malicious software investigations and conjure up solutions creatively and confidently.

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