Gary Kessler File Signatures

Christian Hummert,Dirk Pawlaszczyk

Mobile Forensics – The File Format Handbook Christian Hummert,Dirk Pawlaszczyk,2022-05-03 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: 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. 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.

Android Forensics Andrew Hoog,2011-07-21 Android Forensics: Investigation, Analysis, and Mobile Security for Google Android provides the background, techniques and analysis tools you need to effectively investigate an Android phone. This

book offers a thorough review of the Android platform, including the core hardware and software components, file systems and data structures, data security considerations, and forensic acquisition techniques and strategies for the subsequent analysis require d. this book is ideal for the classroom as it teaches readers not only how to forensically acquire Android devices but also how to apply actual forensic techniques to recover data. The book lays a heavy emphasis on open source tools and step-by-step examples and includes information about Android applications needed for forensic investigations. It is organized into seven chapters that cover the history of the Android platform and its internationalization; the Android Open Source Project (AOSP) and the Android Market; a brief tutorial on Linux and Android forensics; and how to create an Ubuntu-based virtual machine (VM). The book also considers a wide array of Android-supported hardware and device types, the various Android releases, the Android software development kit (SDK), the Davlik VM, key components of Android security, and other fundamental concepts related to Android forensics, such as the Android debug bridge and the USB debugging setting. In addition, it analyzes how data are stored on an Android device and describes strategies and specific utilities that a forensic analyst or security engineer can use to examine an acquired Android device. Core Android developers and manufacturers, app developers, corporate security officers, and anyone with limited forensic experience will find this book extremely useful. It will also appeal to computer forensic and incident response professionals, including commercial/private sector contractors, consultants, and those in federal government. - Named a 2011 Best Digital Forensics Book by InfoSec Reviews - Ability to forensically acquire Android devices using the techniques outlined in the book - Detailed information about Android applications needed for forensics investigations - Important information about SQLite, a file based structured data storage relevant for both Android and many other platforms.

Learning Python for Forensics Preston Miller,Chapin Bryce,2016-05-31 Learn the art of designing, developing, and deploying innovative forensic solutions through Python About This Book This practical guide will help you solve forensic dilemmas through the development of Python scripts Analyze Python scripts to extract metadata and investigate forensic artifacts Master the skills of parsing complex data structures by taking advantage of Python libraries Who This Book Is For If you are a forensics student, hobbyist, or professional that is seeking to increase your understanding in forensics through the use of a programming language, then this book is for you. You are not required to have previous experience in programming to learn and master the content within this book. This material, created by forensic professionals, was written with a unique perspective and understanding of examiners who wish to learn programming What You Will Learn Discover how to perform Python script development Update yourself by learning the best practices in forensic programming Build scripts through an iterative design Explore the rapid development of specialized scripts Understand how to leverage forensic libraries developed by the community Design flexibly to accommodate present and future hurdles Conduct effective and efficient investigations through programmatic pre-analysis Discover how to transform raw data into customized reports and visualizations In Detail

This book will illustrate how and why you should learn Python to strengthen your analysis skills and efficiency as you creatively solve real-world problems through instruction-based tutorials. The tutorials use an interactive design, giving you experience of the development process so you gain a better understanding of what it means to be a forensic developer. Each chapter walks you through a forensic artifact and one or more methods to analyze the evidence. It also provides reasons why one method may be advantageous over another. We cover common digital forensics and incident response scenarios, with scripts that can be used to tackle case work in the field. Using built-in and community-sourced libraries, you will improve your problem solving skills with the addition of the Python scripting language. In addition, we provide resources for further exploration of each script so you can understand what further purposes Python can serve. With this knowledge, you can rapidly develop and deploy solutions to identify critical information and fine-tune your skill set as an examiner. Style and approach The book begins by instructing you on the basics of Python, followed by chapters that include scripts targeted for forensic casework. Each script is described step by step at an introductory level, providing gradual growth to demonstrate the available functionalities of Python.

Cyber Threat Hunters Handbook David F. Pereira Quiceno,2025-07-25 DESCRIPTION Cyber threat hunting is the advanced practice that empowers security teams to actively unearth hidden intrusions and subtle attack behaviors that evade traditional tools. Cyber threats are evolving faster than ever. It is used by modern attackers as an advanced technique to infiltrate systems, evade detection, and exploit vulnerabilities at scale. This book offers a hands-on, practical approach to threat hunting and covers key topics such as network traffic analysis, operating system compromise detection, malware analysis, APTs, cyber threat intelligence, AI-driven detection techniques, and open-source tools. Each chapter builds the capabilities, from understanding the fundamentals to applying advanced techniques in real-world scenarios. It also covers integrating strategies for dealing with security incidents, outlining crucial methods for effective hunting in various settings, and emphasizing the power of sharing insights. By the end of this book, readers will possess the critical skills and confidence to effectively identify, analyze, and neutralize advanced cyber threats, significantly elevating their capabilities as cybersecurity professionals. WHAT YOU WILL LEARN ● Analyze network traffic, logs, and suspicious system behavior. ● Apply threat intelligence and IoCs for early detection. ● Identify and understand malware, APTs, and threat actors. ● Detect and investigate cyber threats using real-world techniques. ● Use techniques and open-source tools for practical threat hunting. ● Strengthen incident response with proactive hunting strategies. WHO THIS BOOK IS FOR This book is designed for cybersecurity analysts, incident responders, and Security Operations Center (SOC) professionals seeking to advance their proactive defense skills. Anyone looking to learn about threat hunting, irrespective of their experience, can learn different techniques, tools, and methods with this book. TABLE OF CONTENTS 1. Introduction to Threat Hunting 2. Fundamentals of Cyber Threats 3. Cyber Threat Intelligence and IoC 4. Tools and Techniques for Threat Hunting 5. Network Traffic Analysis

6. Operating Systems Analysis 7. Computer Forensics 8. Malware Analysis and Reverse Engineering 9. Advanced Persistent Threats and Nation-State Actors 10. Incident Response and Handling 11. Threat Hunting Best Practices 12. Threat Intelligence Sharing and Collaboration

iPhone and iOS Forensics Andrew Hoog,Katie Strzempka,2011-07-25 iPhone and iOS Forensics is a guide to the forensic acquisition and analysis of iPhone and iOS devices, and offers practical advice on how to secure iOS devices, data and apps. The book takes an in-depth look at methods and processes that analyze the iPhone/iPod in an official legal manner, so that all of the methods and procedures outlined in the text can be taken into any courtroom. It includes information data sets that are new and evolving, with official hardware knowledge from Apple itself to help aid investigators.This book consists of 7 chapters covering device features and functions; file system and data storage; iPhone and iPad data security; acquisitions; data and application analysis; and commercial tool testing.This book will appeal to forensic investigators (corporate and law enforcement) and incident response professionals. - Learn techniques to forensically acquire the iPhone, iPad and other iOS devices - Entire chapter focused on Data and Application Security that can assist not only forensic investigators, but also application developers and IT security managers - In-depth analysis of many of the common applications (both default and downloaded), including where specific data is found within the file system

The Best Damn Cybercrime and Digital Forensics Book Period Anthony Reyes,Jack Wiles,2011-04-18 Electronic discovery refers to a process in which electronic data is sought, located, secured, and searched with the intent of using it as evidence in a legal case. Computer forensics is the application of computer investigation and analysis techniques to perform an investigation to find out exactly what happened on a computer and who was responsible. IDC estimates that the U.S. market for computer forensics will be grow from $252 million in 2004 to $630 million by 2009. Business is strong outside the United States, as well. By 2011, the estimated international market will be $1.8 billion dollars. The Techno Forensics Conference has increased in size by almost 50% in its second year; another example of the rapid growth in the market. This book is the first to combine cybercrime and digital forensic topics to provides law enforcement and IT security professionals with the information needed to manage a digital investigation. Everything needed for analyzing forensic data and recovering digital evidence can be found in one place, including instructions for building a digital forensics lab.* Digital investigation and forensics is a growing industry* Corporate I.T. departments investigating corporate espionage and criminal activities are learning as they go and need a comprehensive guide to e-discovery* Appeals to law enforcement agencies with limited budgets

Principles of Computer Security: CompTIA Security+ and Beyond Lab Manual (Exam SY0-601) Jonathan S. Weissman,2021-08-27 Practice the Skills Essential for a Successful Career in Cybersecurity! This hands-on guide contains more than 90 labs that challenge you to solve real-world problems and help you to master key cybersecurity concepts. Clear,

measurable lab results map to exam objectives, offering direct correlation to Principles of Computer Security: CompTIA Security+TM and Beyond, Sixth Edition (Exam SY0-601). For each lab, you will get a complete materials list, step-by-step instructions and scenarios that require you to think critically. Each chapter concludes with Lab Analysis questions and a Key Term quiz. Beyond helping you prepare for the challenging exam, this book teaches and reinforces the hands-on, real-world skills that employers are looking for. In this lab manual, you'll gain knowledge and hands-on experience with Linux systems administration and security Reconnaissance, social engineering, phishing Encryption, hashing OpenPGP, DNSSEC, TLS, SSH Hacking into systems, routers, and switches Routing and switching Port security, ACLs Password cracking Cracking WPA2, deauthentication attacks, intercepting wireless traffic Snort IDS Active Directory, file servers, GPOs Malware reverse engineering Port scanning Packet sniffing, packet crafting, packet spoofing SPF, DKIM, and DMARC Microsoft Azure, AWS SQL injection attacks Fileless malware with PowerShell Hacking with Metasploit and Armitage Computer forensics Shodan Google hacking Policies, ethics, and much more

Learn Computer Forensics – 2nd edition William Oettinger,2022-07-29 Learn Computer Forensics from a veteran investigator and technical trainer and explore how to properly document digital evidence collected Key Features Investigate the core methods of computer forensics to procure and secure advanced digital evidence skillfully Record the digital evidence collected and organize a forensic examination on it Perform an assortment of Windows scientific examinations to analyze and overcome complex challenges Book DescriptionComputer Forensics, being a broad topic, involves a variety of skills which will involve seizing electronic evidence, acquiring data from electronic evidence, data analysis, and finally developing a forensic report. This book will help you to build up the skills you need to work in a highly technical environment. This book's ideal goal is to get you up and running with forensics tools and techniques to successfully investigate crime and corporate misconduct. You will discover ways to collect personal information about an individual from online sources. You will also learn how criminal investigations are performed online while preserving data such as e-mails, images, and videos that may be important to a case. You will further explore networking and understand Network Topologies, IP Addressing, and Network Devices. Finally, you will how to write a proper forensic report, the most exciting portion of the forensic exam process. By the end of this book, you will have developed a clear understanding of how to acquire, analyze, and present digital evidence, like a proficient computer forensics investigator.What you will learn Explore the investigative process, rules of evidence, legal process, and ethical guidelines Understand the difference between sectors, clusters, volumes, and file slack Validate forensic equipment, computer program, and examination methods Create and validate forensically sterile media Gain the ability to draw conclusions based on the exam discoveries Record discoveries utilizing the technically correct terminology Discover the limitations and guidelines for RAM Capture and its tools Explore timeline analysis, media analysis, string searches, and recovery of deleted data Who this book is forThis book is for IT beginners, students, or an investigator in

the public or private sector. This book will also help IT professionals who are new to incident response and digital forensics and are looking at choosing cybersecurity as their career. Individuals planning to pass the Certified Forensic Computer Examiner (CFCE) certification will also find this book useful.

Learn Computer Forensics William Oettinger,2020-04-30 Get up and running with collecting evidence using forensics best practices to present your findings in judicial or administrative proceedings Key Features Learn the core techniques of computer forensics to acquire and secure digital evidence skillfully Conduct a digital forensic examination and document the digital evidence collected Perform a variety of Windows forensic investigations to analyze and overcome complex challenges Book DescriptionA computer forensics investigator must possess a variety of skills, including the ability to answer legal questions, gather and document evidence, and prepare for an investigation. This book will help you get up and running with using digital forensic tools and techniques to investigate cybercrimes successfully. Starting with an overview of forensics and all the open source and commercial tools needed to get the job done, you'll learn core forensic practices for searching databases and analyzing data over networks, personal devices, and web applications. You'll then learn how to acquire valuable information from different places, such as filesystems, e-mails, browser histories, and search queries, and capture data remotely. As you advance, this book will guide you through implementing forensic techniques on multiple platforms, such as Windows, Linux, and macOS, to demonstrate how to recover valuable information as evidence. Finally, you'll get to grips with presenting your findings efficiently in judicial or administrative proceedings. By the end of this book, you'll have developed a clear understanding of how to acquire, analyze, and present digital evidence like a proficient computer forensics investigator.What you will learn Understand investigative processes, the rules of evidence, and ethical guidelines Recognize and document different types of computer hardware Understand the boot process covering BIOS, UEFI, and the boot sequence Validate forensic hardware and software Discover the locations of common Windows artifacts Document your findings using technically correct terminology Who this book is for If you're an IT beginner, student, or an investigator in the public or private sector this book is for you. This book will also help professionals and investigators who are new to incident response and digital forensics and interested in making a career in the cybersecurity domain. Individuals planning to pass the Certified Forensic Computer Examiner (CFCE) certification will also find this book useful.

Kennewick Man Douglas W. Owsley,Richard L. Jantz,2014 Introduction: the scientific investigation of Kennewick Man / Douglas W. Owsley -- Establishing context. Introductory remark -- The people who peopled America / Brad Lepper -- Geography, paleoecology, and archaeology / James C. Chatters -- Chronology of the Kennewick Man skeleton / Thomas Wier Stafford, Jr. -- The precedent-setting case of Kennewick Man / Alan L. Schneider and Paula A. Barran -- Reflections of a former Army Corps of Engineers archaeologist / Larry D. Banks -- Curation history and overview of the plaintiffs' studies / Cleone H. Hawkinson -- Skeletal studies. Introductory remark -- Skeletal inventory, morphology, and pathology / Douglas W.

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