Oracle Incident Response And Forensics Preparing For And Responding To Data Breaches

Getting the books **Oracle Incident Response And Forensics Preparing For And Responding To Data Breaches** now is not type of challenging means. You could not unaided going taking into account ebook hoard or library or borrowing from your contacts to entre them. This is an definitely easy means to specifically acquire lead by on-line. This online proclamation Oracle Incident Response And Forensics Preparing For And Responding To Data Breaches can be one of the options to accompany you with having extra time.

It will not waste your time. acknowledge me, the e-book will completely announce you extra thing to read. Just invest little era to right of entry this on-line proclamation **Oracle Incident Response And Forensics Preparing For And Responding To Data Breaches** as well as evaluation them wherever you are now.

Incident Management and Response Guide - Tom Olzak 2017-06-04
An incident management and response guide for IT or security professionals wanting to establish or improve their incident response and overall security capabilities. Included are templates for response tools, policies, and plans. This look into how to plan, prepare, and respond also includes links to valuable resources needed for planning, training, and overall management of a Computer Security Incident Response Team.

Traffic Incident Management Handbook - 2000
Intended to assist agencies responsible for incident management activities on public roadways to improve their programs and operations.Organized into three major sections: Introduction to incident management; organizing, planning, designing and implementing an incident management program; operational and technical approaches to improving the incident management process.

Computational Intelligence and Mathematics for Tackling Complex Problems 3 - István Á. Harmati 2021-08-25
Complex problems and systems, which prevail in the real world, cannot often be tackled and solved either by traditional methods offered by mathematics or even the traditional computer science (CS) and and artificial intelligence (AI)..). What is the way out of this dilemma? Advanced methodologies, and tools and techniques, „mimicking" human reasoning or the behavior of animals, animal populations or certain parts of the living bod, based on traditional computer science science and the initial approaches of artificial intelligence are often referred to as biologically inspired methods, or often computational intelligence (CI). Computational intelligence offers effective and efficient solutions to many „unsolvable" problems problems. However, it is far from being a ready to use and complete collection of approaches, and is rather a continuously developing field without clear borders. The emerging new models and algorithms of computational intelligence are deeply rooted in the vast apparatus of traditional mathematics. Thus, the investigation of connections and synergy between mathematics and computational intelligence is an eminent goal which is periodically pursued by a group of mathematicians and computational intelligence researchers who regularly attand the annual European Symposia on Computational Intelligence and Mathematics (ESCIM). Some relevant papers from the last ESCIM-2020 are included in this volume.

Oracle Incident Response and Forensics - Pete Finnigan 2017-11-29

Take the right steps when a breach of your Oracle Database environment becomes known or suspected. You will learn techniques for discerning how an attacker got in, what data they saw, and what else they might have done. This book helps you understand forensics in relation to Oracle Database, and the tools and techniques that should be used to investigate a database breach. You will learn the measures to put in place now to make it harder for an attack to be successful, and to aid in the detection and investigation of future attacks. You will know how to bring together tools and methods to create a holistic approach and investigation when an event occurs, helping you to be confident of your ability to react correctly and responsibly to threats against your organization's data. What You'll Learn Detect when breaches have or may have occurred React with confidence using an organized plan Determine whether a suspected breach is real Determine the scope of data that has been compromised Preserve evidence for possible criminal prosecutions Put in place measures to aid future investigations Who This Book is For Database administrators, system administrators, and other technology professionals who may be called upon to investigate breaches of security involving Oracle Database

Principles of Computer Security: CompTIA Security+ and Beyond, Sixth Edition (Exam SY0-601) - Wm. Arthur Conklin 2021-07-29

Fully updated computer security essentials—mapped to the CompTIA Security+ SY0-601 exam Save 10% on any CompTIA exam voucher! Coupon code inside. Learn IT security fundamentals while getting complete coverage of the objectives for the latest release of CompTIA Security+ certification exam SY0-601. This thoroughly revised, full-color textbook covers how to secure hardware, systems, and software. It addresses new threats and cloud environments, and provides additional coverage of governance, risk, compliance, and much more. Written by a team of highly respected security educators, Principles of Computer Security: CompTIA Security+TM and Beyond, Sixth Edition (Exam SY0-601) will help you become a CompTIA-certified computer security expert while also preparing you for a successful career. Find out how to: Ensure operational, organizational, and physical security Use cryptography and public key infrastructures (PKIs) Secure remote access, wireless networks, and virtual private networks (VPNs) Authenticate users and lock down mobile devices Harden network devices, operating systems, and applications Prevent network attacks, such as denial of service, spoofing, hijacking, and password guessing Combat viruses, worms, Trojan horses, and rootkits Manage e-mail, instant messaging, and web security Explore secure software development requirements Implement disaster recovery and business continuity measures Handle computer forensics and incident response Understand legal, ethical, and privacy issues Online content features: Test engine that provides full-length practice exams and customized quizzes by chapter or exam objective Each chapter includes: Learning objectives Real-world examples Try This! and Cross Check exercises Tech Tips, Notes, and Warnings Exam Tips End-of-chapter quizzes and lab projects

Handbook of Information Security, Threats, Vulnerabilities, Prevention, Detection, and Management - Hossein Bidgoli 2006-03-13

The Handbook of Information Security is a definitive 3-volume handbook that offers coverage of both established and cutting-edge theories and developments on information and computer security. The text contains 180 articles from over 200 leading experts, providing the benchmark resource for information security, network security, information privacy, and information warfare.

Oracle Incident Response and Forensics - Pete Finnigan 2017-11-28

Take the right steps when a breach of your Oracle Database environment becomes known or suspected. You will learn techniques for discerning how an attacker got in, what data they saw, and what else they might have done. This book helps you understand forensics in relation to Oracle Database, and the tools and techniques that should be used to investigate a database breach. You will learn the measures to put in place now to make it harder for an attack to be successful, and to aid in the detection and investigation of future attacks. You will know how to bring together tools and methods to create a holistic approach and investigation when an event occurs, helping you to be confident of your ability to react correctly and responsibly to threats against your organization’s data. What You'll Learn Detect when breaches have or may have occurred React with confidence using an organized plan Determine whether a suspected breach is real Determine the scope of data that has been compromised Preserve evidence for possible criminal prosecutions Put in place measures to aid future investigations Who This Book is For Database administrators, system administrators, and other technology professionals who may be called upon to investigate breaches of security involving Oracle Database

Indian National Bibliography - B. S. Kesavan 2007

Sys Admin - 2006

Incident Response - Chris Prosise 2001
Incident response is a multidisciplinary science that resolves computer crime and complex legal issues, chronological methodologies and technical computer techniques. The commercial industry has embraced and adopted technology that detects hacker incidents. Companies are swamped with real attacks, yet very few have any methodology or knowledge to resolve these attacks. Incident Response: Investigating Computer Crime will be the only book on the market that provides the information on incident response that network professionals need to conquer attacks.

Information Security Handbook - Darren Death 2017-12-08
Implement information security effectively as per your organization's needs. About This Book Learn to build your own information security framework, the best fit for your organization Build on the concepts of threat modeling, incidence response, and security analysis Practical use cases and best practices for information security Who This Book Is For This book is for security analysts and professionals who deal with security mechanisms in an organization. If you are looking for an end to end guide on information security and risk analysis with no prior knowledge of this domain, then this book is for you. What You Will Learn Develop your own information security framework Build your incident response mechanism Discover cloud security considerations Get to know the system development life cycle Get your security operation center up and running Know the various security testing types Balance security as per your business needs Implement information security best practices In Detail Having an information security mechanism is one of the most crucial factors for any organization. Important assets of organization demand a proper risk management and threat model for security, and so information security concepts are gaining a lot of traction. This book starts with the concept of information security and shows you why it's important. It then moves on to modules such as threat modeling, risk management, and mitigation. It also covers the concepts of incident response systems, information rights management, and more. Moving on, it guides you to build your own information security framework as the best fit for your organization. Toward the end, you'll discover some best practices that can be implemented to make your security framework strong. By the end of this book, you will be well-versed with all the factors involved in information security, which will help you build a security framework that is a perfect fit your organization's requirements. Style and approach This book takes a practical approach, walking you through information security fundamentals, along with information security best practices.

Malware Forensics Field Guide for Windows Systems - Cameron H. Malin 2012-06-13
Dissecting the dark side of the Internet with its infectious worms, botnets, rootkits, and Trojan horse programs (known as malware) is a treaterous condition for any forensic investigator or analyst. Written by information security experts with real-world investigative experience, Malware Forensics Field Guide for Windows Systems is a "tool" with checklists for specific tasks, case studies of difficult situations, and expert analyst tips. *A condensed hand-held guide complete with on-the-job tasks and checklists *Specific for Windows-based systems, the largest running OS in the world *Authors are world-renowned leaders in investigating and analyzing malicious code

Digital Evidence and Computer Crime - Eoghan

Casey 2011-04-20
Though an increasing number of criminals are using computers and computer networks, few investigators are well versed in the issues related to digital evidence. This work explains how computer networks function and how they can be used in a crime.

Data Breach Preparation and Response - Kevvie Fowler 2016-06-08
Data Breach Preparation and Response: Breaches are Certain, Impact is Not is the first book to provide 360 degree visibility and guidance on how to proactively prepare for and manage a data breach and limit impact. Data breaches are inevitable incidents that can disrupt business operations and carry severe reputational and financial impact, making them one of the largest risks facing organizations today. The effects of a breach can be felt across multiple departments within an organization, who will each play a role in effectively managing the breach. Kevvie Fowler has assembled a team of leading forensics, security, privacy, legal, public relations and cyber insurance experts to create the definitive breach management reference for the whole organization. Discusses the cyber criminals behind data breaches and the underground dark web forums they use to trade and sell stolen data Features never-before published techniques to qualify and discount a suspected breach or to verify and precisely scope a confirmed breach Helps identify your sensitive data, and the commonly overlooked data sets that, if stolen, can result in a material breach Defines breach response plan requirements and describes how to develop a plan tailored for effectiveness within your organization Explains strategies for proactively self-detecting a breach and simplifying a response Covers critical first-responder steps and breach management practices, including containing a breach and getting the scope right, the first time Shows how to leverage threat intelligence to improve breach response and management effectiveness Offers guidance on how to manage internal and external breach communications, restore trust, and resume business operations after a breach, including the critical steps after the breach to reduce breach-related litigation and regulatory fines Illustrates how to define your cyber-defensible position to improve data protection and demonstrate proper due diligence practices

Oracle Security - Marlene Theriault 1998
Security in a relational database management system is complex, and too few DBAs, system administrators, managers, and developers understand how Oracle implements system and database security. This book gives you the guidance you need to protect your databases. Oracle security has many facets: Establishing an organization's security policy and plan Protecting system files and passwords Controlling access to database objects (tables, views, rows, columns, etc.) Building appropriate user profiles, roles, and privileges Monitoring system access via audit trails Oracle Securitydescribes how these basic database security features are implemented and provides many practical strategies for securing Oracle systems and databases. It explains how to use the Oracle Enterprise Manager and Oracle Security Server to enhance your site's security, and it touches on such advanced security features as encryption, Trusted Oracle, and various Internet and World Wide Web protection strategies. A table of contents follows: Preface Part I: Security in an Oracle System Oracle and Security Oracle System Files Oracle Database Objects The Oracle Data Dictionary Default Roles and User Accounts Profiles, Passwords, and Synonyms Part II: Implementing Security Developing a Database Security Plan Installing and Starting Oracle Developing a Simple Security Application Developing an Audit Plan Developing a Sample Audit Application Backing Up and Recovering a Database Using the Oracle Enterprise Manager Maintaining User Accounts Part III: Enhanced Oracle Security Using the Oracle Security Server Using the Internet and the Web Using Extra-Cost Options Appendix A. References

Mastering Mobile Forensics - Soufiane Tahiri 2016-05-30
Develop the capacity to dig deeper into mobile device data acquisition About This Book A mastering guide to help you overcome the roadblocks you face when dealing with mobile forensics Excel at the art of extracting data, recovering deleted data, bypassing screen locks, and much more Get best practices to how to collect and analyze mobile device data and

accurately document your investigations Who This Book Is For The book is for mobile forensics professionals who have experience in handling forensic tools and methods. This book is designed for skilled digital forensic examiners, mobile forensic investigators, and law enforcement officers. What You Will Learn Understand the mobile forensics process model and get guidelines on mobile device forensics Acquire in-depth knowledge about smartphone acquisition and acquisition methods Gain a solid understanding of the architecture of operating systems, file formats, and mobile phone internal memory Explore the topics of of mobile security, data leak, and evidence recovery Dive into advanced topics such as GPS analysis, file carving, encryption, encoding, unpacking, and decompiling mobile application processes In Detail Mobile forensics presents a real challenge to the forensic community due to the fast and unstoppable changes in technology. This book aims to provide the forensic community an in-depth insight into mobile forensic techniques when it comes to deal with recent smartphones operating systems Starting with a brief overview of forensic strategies and investigation procedures, you will understand the concepts of file carving, GPS analysis, and string analyzing. You will also see the difference between encryption, encoding, and hashing methods and get to grips with the fundamentals of reverse code engineering. Next, the book will walk you through the iOS, Android and Windows Phone architectures and filesystem, followed by showing you various forensic approaches and data gathering techniques. You will also explore advanced forensic techniques and find out how to deal with third-applications using case studies. The book will help you master data acquisition on Windows Phone 8. By the end of this book, you will be acquainted with best practices and the different models used in mobile forensics. Style and approach The book is a comprehensive guide that will help the IT forensics community to go more in-depth into the investigation process and mobile devices take-over.

A Practical Guide to Computer Forensics Investigations - Darren R. Hayes 2015

A Practical Guide to Computer Forensics Investigations introduces the newest technologies along with detailed information on how the evidence contained on these devices should be analyzed. Packed with practical, hands-on activities, students will learn unique subjects from chapters including Mac Forensics, Mobile Forensics, Cyberbullying, and Child Endangerment. This well-developed book will prepare students for the rapidly-growing field of computer forensics for a career with law enforcement, accounting firms, banks and credit card companies, private investigation companies, or government agencies.

Incident Response - E. Eugene Schultz 2001

This guide teaches security analysts to minimize information loss and system disruption using effective system monitoring and detection measures. The information here spans all phases of incident response, from pre-incident conditions and considerations to post-incident analysis. This book will deliver immediate solutions to a growing audience eager to secure its networks.

CSO - 2008-04

The business to business trade publication for information and physical Security professionals.

Protecting Oracle Database 12c - Paul Wright 2014-04-19

Protecting Oracle Database 12c helps you solve the problem of maximizing the safety, resilience, and security of an Oracle database whilst preserving performance, availability, and integration despite ongoing and new security issues in the software. The book demonstrates, through coded examples, how you can enable the consolidation features of Oracle Database 12c without increasing risk of either internal corruption or external vulnerability. In addition, new protections not publicly available are included, so that you can see how demonstrable risk improvements can be achieved, measured, and reported through Enterprise Manager 12c. Most importantly, the challenge of privileged access control within a consolidation environment will be addressed, thus enabling a safe move to greater efficiency.

CompTIA Security+ All-in-One Exam Guide, Fifth Edition (Exam SY0-501) - Wm. Arthur Conklin 2018-01-05

This fully updated study guide covers every topic on the current version of the CompTIA Security+ exam Take the latest version of the CompTIA

Security+ exam with complete confidence using the detailed information contained in this highly effective self-study system. Written by a team of leading information security experts, this authoritative guide addresses the skills required for securing a network and managing risk and enables you to become CompTIA Security+ certified. CompTIA Security+ All-in-One Exam Guide, Fifth Edition (Exam SY0-501) covers all exam domains and features 200 accurate practice questions. To aid in study, the book features learning objectives at the beginning of each chapter, exam tips, practice exam questions, and in-depth explanations. All questions mirror those on the live test in style, format, and difficulty. Beyond fully preparing you for the challenging SY0-501 exam, the book also serves as a valuable on-the-job reference for IT professionals. • Provides 100% coverage of every objective on exam SY0-501 • Electronic content includes 200 practice questions and a secured book PDF • Written by a team of experienced IT security academics

Computerworld - 2005-03-21

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Investigating the Cyber Breach - Joseph Muniz 2018-01-31

Investigating the Cyber Breach The Digital Forensics Guide for the Network Engineer · Understand the realities of cybercrime and today's attacks · Build a digital forensics lab to test tools and methods, and gain expertise · Take the right actions as soon as you discover a breach · Determine the full scope of an investigation and the role you'll play · Properly collect, document, and preserve evidence and data · Collect and analyze data from PCs, Macs, IoT devices, and other endpoints · Use packet logs, NetFlow, and scanning to build timelines, understand network activity, and collect evidence · Analyze iOS and Android devices, and understand encryption-related obstacles to investigation · Investigate and trace email, and identify fraud or abuse · Use social media to investigate individuals or online identities · Gather, extract, and analyze breach data with Cisco tools and techniques · Walk through common breaches and responses from start to finish · Choose the right tool for each task, and explore alternatives that might also be helpful The professional's go-to digital forensics resource for countering attacks right now Today, cybersecurity and networking professionals know they can't possibly prevent every breach, but they can substantially reduce risk by quickly identifying and blocking breaches as they occur. Investigating the Cyber Breach: The Digital Forensics Guide for the Network Engineer is the first comprehensive guide to doing just that. Writing for working professionals, senior cybersecurity experts Joseph Muniz and Aamir Lakhani present up-to-the-minute techniques for hunting attackers, following their movements within networks, halting exfiltration of data and intellectual property, and collecting evidence for investigation and prosecution. You'll learn how to make the most of today's best open source and Cisco tools for cloning, data analytics, network and endpoint breach detection, case management, monitoring, analysis, and more. Unlike digital forensics books focused primarily on post-attack evidence gathering, this one offers complete coverage of tracking threats, improving intelligence, rooting out dormant malware, and responding effectively to breaches underway right now. This book is part of the Networking Technology: Security Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.

Expert Oracle Practices - Pete Finnigan 2010-03-24

This book is an anthology of effective database management techniques representing the collective wisdom of the OakTable Network. With an emphasis upon performance—but also branching into security, national language, and other issues—the book helps you deliver the most value for your company's investment in Oracle Database technologies. You'll learn to effectively plan for and monitor performance, to troubleshoot systematically when things go wrong, and to manage your database rather than letting it manage you.

Mike Meyers' CompTIA Security+ Certification Guide, Third Edition (Exam SY0-601) - Mike Meyers 2021-05-07

An up-to-date CompTIA Security+ exam guide from training and exam preparation guru Mike Meyers Take the latest version of the CompTIA Security+ exam (exam SY0-601) with confidence using the comprehensive information contained in this highly effective self-study resource. Like the test, the guide goes beyond knowledge application and is designed to ensure that security personnel anticipate security risks and guard against them. In Mike Meyers' CompTIA Security+ Certification Guide, Third Edition (Exam SY0-601), the bestselling author and leading authority on CompTIA A+ certification brings his proven methodology to IT security. Mike covers all exam objectives in small, digestible modules that allow you to focus on individual skills as you move through a broad and complex set of skills and concepts. The book features hundreds of accurate practice questions as well as a toolbox of the author's favorite network security related freeware/shareware. Provides complete coverage of every objective for exam SY0-601 Online content includes 20+ lab simulations, video training, a PDF glossary, and 180 practice questions Written by computer security and certification experts Mike Meyers and Scott Jernigan

Digital Archaeology - Michael W. Graves 2013

In Digital Archaeology, expert practitioner Michael Graves has written the most thorough, realistic, and up-to-date guide to the principles and techniques of modern digital forensics. He begins by providing a solid understanding of the legal underpinnings and critical laws affecting computer forensics, including key principles of evidence and case law. Next, he explains how to systematically and thoroughly investigate computer systems to unearth crimes or other misbehavior, and back it up with evidence that will stand up in court. Drawing on the analogy of archaeological research, Graves explains each key tool and method investigators use to reliably uncover hidden information in digital systems. Graves concludes by presenting coverage of important professional and business issues associated with building a career in digital forensics, including current licensing and certification requirements.

Data Breaches - Sherri Davidoff 2019-10-08

Protect Your Organization Against Massive Data Breaches and Their Consequences Data breaches can be catastrophic, but they remain mysterious because victims don't want to talk about them. In Data Breaches, world-renowned cybersecurity expert Sherri Davidoff shines a light on these events, offering practical guidance for reducing risk and mitigating consequences. Reflecting extensive personal experience and lessons from the world's most damaging breaches, Davidoff identifies proven tactics for reducing damage caused by breaches and avoiding common mistakes that cause them to spiral out of control. You'll learn how to manage data breaches as the true crises they are; minimize reputational damage and legal exposure; address unique challenges associated with health and payment card data; respond to hacktivism, ransomware, and cyber extortion; and prepare for the emerging battlefront of cloud-based breaches. Understand what you need to know about data breaches, the dark web, and markets for stolen data Limit damage by going beyond conventional incident response Navigate high-risk payment card breaches in the context of PCI DSS Assess and mitigate data breach risks associated with vendors and third-party suppliers Manage compliance requirements associated with healthcare and HIPAA Quickly respond to ransomware and data exposure cases Make better decisions about cyber insurance and maximize the value of your policy Reduce cloud risks and properly prepare for cloud-based data breaches Data Breaches is indispensable for everyone involved in breach avoidance or response: executives, managers, IT staff, consultants, investigators, students, and more. Read it before a breach happens! Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

Mastering Windows Security and Hardening - Mark Dunkerley 2020-07-08

Enhance Windows security and protect your systems and servers from various cyber attacks Key Features Protect your device using a zero-trust approach and advanced security techniques Implement efficient security measures using Microsoft Intune, Configuration

Manager, and Azure solutions Understand how to create cyber-threat defense solutions effectively Book Description Are you looking for effective ways to protect Windows-based systems from being compromised by unauthorized users? Mastering Windows Security and Hardening is a detailed guide that helps you gain expertise when implementing efficient security measures and creating robust defense solutions. We will begin with an introduction to Windows security fundamentals, baselining, and the importance of building a baseline for an organization. As you advance, you will learn how to effectively secure and harden your Windows-based system, protect identities, and even manage access. In the concluding chapters, the book will take you through testing, monitoring, and security operations. In addition to this, you'll be equipped with the tools you need to ensure compliance and continuous monitoring through security operations. By the end of this book, you'll have developed a full understanding of the processes and tools involved in securing and hardening your Windows environment. What you will learn Understand baselining and learn the best practices for building a baseline Get to grips with identity management and access management on Windows-based systems Delve into the device administration and remote management of Windows-based systems Explore security tips to harden your Windows server and keep clients secure Audit, assess, and test to ensure controls are successfully applied and enforced Monitor and report activities to stay on top of vulnerabilities Who this book is for This book is for system administrators, cybersecurity and technology professionals, solutions architects, or anyone interested in learning how to secure their Windows-based systems. A basic understanding of Windows security concepts, Intune, Configuration Manager, Windows PowerShell, and Microsoft Azure will help you get the best out of this book.

Incident Response & Computer Forensics, Third Edition - Jason T. Luttgens 2014-08-01

The definitive guide to incident response--updated for the first time in a decade! Thoroughly revised to cover the latest and most effective tools and techniques, Incident Response & Computer Forensics, Third Edition arms you with the information you need to get your organization out of trouble when data breaches occur. This practical resource covers the entire lifecycle of incident response, including preparation, data collection, data analysis, and remediation. Real-world case studies reveal the methods behind--and remediation strategies for--today's most insidious attacks. Architect an infrastructure that allows for methodical investigation and remediation Develop leads, identify indicators of compromise, and determine incident scope Collect and preserve live data Perform forensic duplication Analyze data from networks, enterprise services, and applications Investigate Windows and Mac OS X systems Perform malware triage Write detailed incident response reports Create and implement comprehensive remediation plans

Digital Forensics with Kali Linux - Shiva V. N. Parasram 2017-12-19

Learn the skills you need to take advantage of Kali Linux for digital forensics investigations using this comprehensive guide About This Book Master powerful Kali Linux tools for digital investigation and analysis Perform evidence acquisition, preservation, and analysis using various tools within Kali Linux Implement the concept of cryptographic hashing and imaging using Kali Linux Perform memory forensics with Volatility and internet forensics with Xplico. Discover the capabilities of professional forensic tools such as Autopsy and DFF (Digital Forensic Framework) used by law enforcement and military personnel alike Who This Book Is For This book is targeted at forensics and digital investigators, security analysts, or any stakeholder interested in learning digital forensics using Kali Linux. Basic knowledge of Kali Linux will be an advantage. What You Will Learn Get to grips with the fundamentals of digital forensics and explore best practices Understand the workings of file systems, storage, and data fundamentals Discover incident response procedures and best practices Use DC3DD and Guymager for acquisition and preservation techniques Recover deleted data with Foremost and Scalpel Find evidence of accessed programs and malicious programs using Volatility. Perform network and internet capture analysis with Xplico Carry out professional digital forensics investigations using the DFF and Autopsy automated forensic suites In Detail Kali Linux is a Linux-based distribution used mainly for penetration testing and digital forensics. It has a wide range of tools to help in forensics investigations and incident response mechanisms. You will start by understanding the fundamentals of digital forensics and setting up your Kali Linux environment to perform different investigation practices. The book will delve into the realm of operating systems and the various formats for file storage, including secret hiding places unseen by the end user or even the operating system. The book will also teach you to create forensic images of data and maintain integrity using hashing tools. Next, you will also master some advanced topics such as autopsies and acquiring investigation data from the network, operating system memory, and so on. The book introduces you to powerful tools that will take your forensic abilities and investigations to a professional level, catering for all aspects of full digital forensic investigations from hashing to reporting. By the end of this book, you will have had hands-on experience in implementing all the pillars of digital forensics—acquisition, extraction, analysis, and presentation using Kali Linux tools. Style and approach While covering the best practices of digital forensics investigations, evidence acquisition, preservation, and analysis, this book delivers easy-to-follow practical examples and detailed labs for an easy approach to learning forensics. Following the guidelines within each lab, you can easily practice all readily available forensic tools in Kali Linux, within either a dedicated physical or virtual machine.

The CISM Prep Guide - Ronald L. Krutz 2003-05-30

* Prepares readers for the Certified Information Security Manager (CISM) exam, ISACA's new certification that launches in June 2003 * CISM is business-oriented and intended for the individual who must manage, design, oversee, and assess an enterprise's information security * Essential reading for those who are cramming for this new test and need an authoritative study guide * Many out-of-work IT professionals are seeking security management certification as a vehicle to re-employment * CD-ROM includes a Boson-powered test engine with all the questions and answers from the book

Practical Linux Forensics - Bruce Nikkel 2021-12-21

A resource to help forensic investigators locate, analyze, and understand digital evidence found on modern Linux systems after a crime, security incident or cyber attack. Practical Linux Forensics dives into the technical details of analyzing postmortem forensic images of Linux systems which have been misused, abused, or the target of malicious attacks. It helps forensic investigators locate and analyze digital evidence found on Linux desktops, servers, and IoT devices. Throughout the book, you learn how to identify digital artifacts which may be of interest to an investigation, draw logical conclusions, and reconstruct past activity from incidents. You’ll learn how Linux works from a digital forensics and investigation perspective, and how to interpret evidence from Linux environments. The techniques shown are intended to be independent of the forensic analysis platforms and tools used. Learn how to: Extract evidence from storage devices and analyze partition tables, volume managers, popular Linux filesystems (Ext4, Btrfs, and Xfs), and encryption Investigate evidence from Linux logs, including traditional syslog, the systemd journal, kernel and audit logs, and logs from daemons and applications Reconstruct the Linux startup process, from boot loaders (UEFI and Grub) and kernel initialization, to systemd unit files and targets leading up to a graphical login Perform analysis of power, temperature, and the physical environment of a Linux machine, and find evidence of sleep, hibernation, shutdowns, reboots, and crashes Examine installed software, including distro installers, package formats, and package management systems from Debian, Fedora, SUSE, Arch, and other distros Perform analysis of time and Locale settings, internationalization including language and keyboard settings, and geolocation on a Linux system Reconstruct user login sessions (shell, X11 and Wayland), desktops (Gnome, KDE, and others) and analyze keyrings, wallets, trash cans, clipboards, thumbnails, recent files and other desktop artifacts Analyze network configuration, including interfaces, addresses, network managers, DNS, wireless artifacts (Wi-

Fi, Bluetooth, WWAN), VPNs (including WireGuard), firewalls, and proxy settings Identify traces of attached peripheral devices (PCI, USB, Thunderbolt, Bluetooth) including external storage, cameras, and mobiles, and reconstruct printing and scanning activity

Hacking Exposed Computer Forensics - Chris Davis 2005

Learn the secrets and strategies for investigating computer crime Investigate computer crime, corporate malfeasance, and hacker break-ins quickly and effectively with help from this practical and comprehensive resource. You'll get expert information on crucial procedures to prosecute violators successfully while avoiding the pitfalls of illicit searches, privacy violations, and illegally obtained evidence. It's all here--from collecting actionable evidence, re-creating the criminal timeline, and zeroing in on a suspect to uncovering obscured and deleted code, unlocking encrypted files, and preparing lawful affidavits. Plus, you'll get in-depth coverage of the latest PDA and cell phone investigation techniques and real-world case studies. Digital sleuthing techniques that will withstand judicial scrutiny Inside, you'll learn to: Plan and prepare for all stages of an investigation using the proven Hacking Exposed methodology Work with and store evidence in a properly configured forensic lab Deploy an effective case management strategy to collect material, document findings, and archive results Covertly investigate, triage, and work with remote data across the network Recover partitions, INFO records, and deleted, wiped, and hidden files Acquire, authenticate, and analyze evidence from Windows, UNIX, and Macintosh systems using the latest hardware and software tools Use forensic tools to uncover obscured code, file mismatches, and invalid signatures Extract client and Web-based email artifacts using Email Examiner, EnCase, Forensic Toolkit, and open source tools Handle enterprise storage like RAIDs, SANs, NAS, and tape backup libraries Recover vital data from handheld devices such as PDAs and cell phones About the Authors: Chris Davis, CISSP, is a Computer Forensics Examiner for Texas Instruments. He has trained and presented at Black Hat, ISSA, CISA, ConSecWest, McCombs School of Business, PlanetPDA, and 3GSM World Congress. Aaron Philipp, CISSP, is the co-founder of Affect Consulting. He has taught classes at Black Hat, McCombs School of Business - UT Austin, and various military organizations. Dave Cowen, CISSP, Senior Consultant at Fios, has extensive experience in security research, application security testing, penetration testing, and computer forensic analysis. He is an expert witness and a regular speaker on computer forensics.

EnCase Computer Forensics -- The Official EnCE - Steve Bunting 2012-09-14

The official, Guidance Software-approved book on the newest EnCE exam! The EnCE exam tests that computer forensic analysts and examiners have thoroughly mastered computer investigation methodologies, as well as the use of Guidance Software's EnCase Forensic 7. The only official Guidance-endorsed study guide on the topic, this book prepares you for the exam with extensive coverage of all exam topics, real-world scenarios, hands-on exercises, up-to-date legal information, and sample evidence files, flashcards, and more. Guides readers through preparation for the newest EnCase Certified Examiner (EnCE) exam Prepares candidates for both Phase 1 and Phase 2 of the exam, as well as for practical use of the certification Covers identifying and searching hardware and files systems, handling evidence on the scene, and acquiring digital evidence using EnCase Forensic 7 Includes hands-on exercises, practice questions, and up-to-date legal information Sample evidence files, Sybex Test Engine, electronic flashcards, and more If you're preparing for the new EnCE exam, this is the study guide you need.

Security Warrior - Cyrus Peikari 2004-01-12

When it comes to network security, many users and administrators are running scared, and justifiably so. The sophistication of attacks against computer systems increases with each new Internet worm.What's the worst an attacker can do to you? You'd better find out, right? That's what Security Warrior teaches you. Based on the principle that the only way to defend yourself is to understand your attacker in depth, Security Warrior reveals how your systems can be attacked. Covering everything from reverse engineering to SQL attacks, and including topics like social engineering, antiforensics, and common attacks against UNIX and Windows systems, this book teaches you to know your enemy and how to be prepared to do battle.Security Warrior places particular emphasis on reverse engineering. RE is a fundamental skill for the administrator, who must be aware of all kinds of malware that can be installed on his machines -- trojaned binaries, "spyware" that looks innocuous but that sends private data back to its creator, and more. This is the only book to discuss reverse engineering for Linux or Windows CE. It's also the only book that shows you how SQL injection works, enabling you to inspect your database and web applications for vulnerability.Security Warrior is the most comprehensive and up-to-date book covering the art of computer war: attacks against computer systems and their defenses. It's often scary, and never comforting. If you're on the front lines, defending your site against attackers, you need this book. On your shelf--and in your hands.

CEH Certified Ethical Hacker Study Guide - Kimberly Graves 2010-06-03

Full Coverage of All Exam Objectives for the CEH Exams 312-50 and EC0-350 Thoroughly prepare for the challenging CEH Certified Ethical Hackers exam with this comprehensive study guide. The book provides full coverage of exam topics, real-world examples, and includes a CD with chapter review questions, two full-length practice exams, electronic flashcards, a glossary of key terms, and the entire book in a searchable pdf e-book. What's Inside: Covers ethics and legal issues, footprinting, scanning, enumeration, system hacking, trojans and backdoors, sniffers, denial of service, social engineering, session hijacking, hacking Web servers, Web application vulnerabilities, and more Walks you through exam topics and includes plenty of real-world scenarios to help reinforce concepts Includes a CD with an assessment test, review questions, practice exams, electronic flashcards, and the entire book in a searchable pdf

Windows Registry Forensics - Harlan Carvey 2011-01-03

Windows Registry Forensics provides the background of the Windows Registry to help develop an understanding of the binary structure of Registry hive files. Approaches to live response and analysis are included, and tools and techniques for postmortem analysis are discussed at length. Tools and techniques are presented that take the student and analyst beyond the current use of viewers and into real analysis of data contained in the Registry, demonstrating the forensic value of the Registry. Named a 2011 Best Digital Forensics Book by InfoSec Reviews, this book is packed with real-world examples using freely available open source tools. It also includes case studies and a CD containing code and author-created tools discussed in the book. This book will appeal to computer forensic and incident response professionals, including federal government and commercial/private sector contractors, consultants, etc. Named a 2011 Best Digital Forensics Book by InfoSec Reviews Packed with real-world examples using freely available open source tools Deep explanation and understanding of the Windows Registry – the most difficult part of Windows to analyze forensically Includes a CD containing code and author-created tools discussed in the book

CompTIA Cybersecurity Analyst (CySA+) CS0-002 Cert Guide - Troy McMillan 2020-09

CompTIA Cybersecurity Analyst (CySA+) CS0-002 Cert Guide is a best-of-breed exam study guide. Expert technology instructor and certification author Troy McMillan shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test-preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. The companion website contains the powerful Pearson Test Prep practice test software, complete with hundreds of exam-realistic questions. The assessment engine offers you a wealth of customization options and reporting features, laying out a complete assessment of your knowledge to help you focus your study where it is needed most. Well regarded for its level of detail, assessment features, and challenging review questions and exercises, this CompTIA approved study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. The CompTIA approved study guide helps you master all the topics on the CySA+ exam, including: - Applying environmental reconnaissance - Analyzing results of network reconnaissance - Implementing responses and countermeasures - Implementing vulnerability management processes - Analyzing scan output and identifying common vulnerabilities - Identifying incident impact and assembling a forensic toolkit - Utilizing effective incident response processes - Performing incident recovery and post-incident response - Establishing frameworks, policies, controls, and procedures - Remediating identity- and access-related security issues - Architecting security and implementing compensating controls - Implementing application security best practices - Using cybersecurity tools and technologies

SQL Server Forensic Analysis - Kevvie Fowler 2009

The tools and techniques investigators need to conduct crucial forensic investigations in SQL Server. • • The database is the part of a forensic investigation that companies are the most concerned about. This book provides data and tools needed to avoid under or over reporting. • Teaches many about aspects about SQL server that are not widely known. • A complete tutorial to conducting SQL Server investigations and using that knowledge to confirm, assess, and investigate a digital intrusion. Companies today are in a terrible bind: They must report all possible data security breaches, but they don't always know if, in a given breech, data has been compromised. As a result, most companies are releasing information to the public about every system breech or attempted system breech they know about. This reporting, in turn, whips up public hysteria and makes many companies look bad. Kevvie Fowler's 'SQL Server Forensic Analysis' is an attempt to calm everyone down and focuses on a key, under-documented component of today's forensics investigations. The book will help investigators determine if a breech was attempted, if information on the database server was compromised in any way, and if any rootkits have been installed that can compromise sensitive data in the future. Readers will learn how to prioritize, acquire, and analyze database evidence using forensically sound practices and free industry tools. The final chapter will include a case study that demonstrates all the techniques from the book applied in a walk-through of a real-world investigation.

Guide to Computer Forensics and Investigations - Bill Nelson 2014-11-07

Updated with the latest advances from the field, GUIDE TO COMPUTER FORENSICS AND INVESTIGATIONS, Fifth Edition combines all-encompassing topic coverage and authoritative information from seasoned experts to deliver the most comprehensive forensics resource available. This proven author team's wide ranging areas of expertise mirror the breadth of coverage provided in the book, which focuses on techniques and practices for gathering and analyzing evidence used to solve crimes involving computers. Providing clear instruction on the tools and techniques of the trade, it introduces readers to every step of the computer forensics investigation-from lab set-up to testifying in court. It also details step-by-step guidance on how to use current forensics software. Appropriate for learners new to the field, it is also an excellent refresher and technology update for professionals in law enforcement, investigations, or computer security. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.