

Linux Malware Incident Response A Practitioners Guide To Forensic Collection And Examination Of Volatile Data An Excerpt From Malware Forensic Field Guide For Linux Systems

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As recognized, adventure as well as experience nearly lesson, amusement, as with ease as conformity can be gotten by just checking out a books **Linux Malware Incident Response A Practitioners Guide To Forensic Collection And Examination Of Volatile Data An Excerpt From Malware Forensic Field Guide For Linux Systems** next it is not directly done, you could assume even more just about this life, on the world.

We come up with the money for you this proper as well as easy habit to acquire those all. We present Linux Malware Incident Response A Practitioners Guide To Forensic Collection And Examination Of Volatile Data An Excerpt From Malware Forensic Field Guide For Linux Systems and numerous book collections from fictions to scientific research in any way. in the middle of them is this Linux Malware Incident Response A Practitioners Guide To Forensic Collection And Examination Of Volatile Data An Excerpt From Malware Forensic Field Guide For Linux Systems that can be your partner.

[OS X Incident Response](#) May 04 2020 OS X Incident Response: Scripting and Analysis is written for analysts who are looking to expand their understanding of a lesser-known operating system. By mastering the forensic artifacts of OS X, analysts will set themselves apart by acquiring an up-and-coming skillset. Digital forensics is a critical art and science. While forensics is commonly thought of as a function of a legal investigation, the same tactics and techniques used for those investigations

are also important in a response to an incident. Digital evidence is not only critical in the course of investigating many crimes but businesses are recognizing the importance of having skilled forensic investigators on staff in the case of policy violations. Perhaps more importantly, though, businesses are seeing enormous impact from malware outbreaks as well as data breaches. The skills of a forensic investigator are critical to determine the source of the attack as well as the impact. While there is a lot of focus on Windows because it is the predominant desktop operating system, there are currently very few resources available for forensic investigators on how to investigate attacks, gather evidence and respond to incidents involving OS X. The number of Macs on enterprise networks is rapidly increasing, especially with the growing prevalence of BYOD, including iPads and iPhones. Author Jaron Bradley covers a wide variety of topics, including both the collection and analysis of the forensic pieces found on the OS. Instead of using expensive commercial tools that clone the hard drive, you will learn how to write your own Python and bash-based response scripts. These scripts and methodologies can be used to collect and analyze volatile data immediately. For online source codes, please visit:

https://github.com/jbradley89/osx_incident_response_scripting_and_analysis Focuses exclusively on OS X attacks, incident response, and forensics Provides the technical details of OS X so you can find artifacts that might be missed using automated tools Describes how to write your own Python and bash-based response scripts, which can be used to collect and analyze volatile data immediately Covers OS X incident response in complete technical detail, including file system, system startup and scheduling, password dumping, memory, volatile data, logs, browser history, and exfiltration

The Practice of Network Security Monitoring Aug 26 2019 Network security is not simply about building impenetrable walls—determined attackers will eventually overcome traditional defenses. The most effective computer security strategies integrate network security monitoring (NSM): the collection and analysis of data to help you detect and respond to intrusions. In The Practice of Network Security Monitoring, Mandiant CSO Richard Bejtlich shows you how to use NSM to add a robust layer of protection around your networks—no prior experience required. To help you avoid costly and inflexible solutions, he teaches you how to deploy, build, and run an NSM operation using open source software and vendor-neutral tools. You'll learn how to:

- Determine where to deploy NSM platforms, and size them for the monitored networks
- Deploy stand-alone or distributed NSM installations
- Use command line and graphical packet analysis tools, and NSM consoles
- Interpret network evidence from server-side and client-side intrusions
- Integrate threat intelligence into NSM software to identify sophisticated adversaries

There's no foolproof way to keep attackers out of your network. But when they get in, you'll be prepared. The Practice of Network Security Monitoring will show you how to build a security net to detect, contain, and control them. Attacks are inevitable, but losing sensitive data shouldn't be.

Malware Analysis Techniques Jan 12 2021 Analyze malicious samples, write reports, and use industry-standard methodologies to confidently triage and analyze adversarial software and malware

Key Features Investigate, detect, and respond to various types of malware threat Understand how to use what you've learned as an analyst to produce actionable IOCs and reporting Explore complete solutions, detailed walkthroughs, and case studies of real-world malware samples

Book Description Malicious software poses a threat to every enterprise globally. Its growth is costing businesses millions of dollars due to currency theft as a result of ransomware and lost productivity. With this book, you'll learn how to quickly triage, identify, attribute, and remediate threats using proven analysis techniques. Malware Analysis Techniques begins with an overview of the nature of malware, the current threat landscape, and its impact on businesses. Once you've covered the basics of malware, you'll move on to discover more about the technical nature of malicious software, including static characteristics and dynamic attack methods within the MITRE ATT&CK framework. You'll also find out how to perform practical malware analysis by applying all that you've learned to attribute the malware to a specific threat and weaponize the adversary's indicators of compromise (IOCs) and methodology against them to prevent them from attacking. Finally, you'll get to grips with common tooling utilized by professional malware analysts and understand the basics of reverse engineering

with the NSA's Ghidra platform. By the end of this malware analysis book, you'll be able to perform in-depth static and dynamic analysis and automate key tasks for improved defense against attacks. What you will learn Discover how to maintain a safe analysis environment for malware samples Get to grips with static and dynamic analysis techniques for collecting IOCs Reverse-engineer and debug malware to understand its purpose Develop a well-polished workflow for malware analysis Understand when and where to implement automation to react quickly to threats Perform malware analysis tasks such as code analysis and API inspection Who this book is for This book is for incident response professionals, malware analysts, and researchers who want to sharpen their skillset or are looking for a reference for common static and dynamic analysis techniques. Beginners will also find this book useful to get started with learning about malware analysis. Basic knowledge of command-line interfaces, familiarity with Windows and Unix-like filesystems and registries, and experience in scripting languages such as PowerShell, Python, or Ruby will assist with understanding the concepts covered.

Chairman of the Joint Chiefs of Staff Manual Jul 26 2019 This manual describes the Department of Defense (DoD) Cyber Incident Handling Program and specifies its major processes, implementation requirements, and related U.S. government interactions. This program ensures an integrated capability to continually improve the Department of Defense's ability to rapidly identify and respond to cyber incidents that adversely affect DoD information networks and information systems (ISs). It does so in a way that is consistent, repeatable, quality driven, measurable, and understood across DoD organizations.

Incident Response with Threat Intelligence Oct 09 2020 Learn everything you need to know to respond to advanced cybersecurity incidents through threat hunting using threat intelligence Key Features Understand best practices for detecting, containing, and recovering from modern cyber threats Get practical experience embracing incident response using intelligence-based threat hunting techniques Implement and orchestrate different incident response, monitoring, intelligence, and investigation platforms Book Description With constantly evolving cyber threats, developing a cybersecurity incident response capability to identify and contain threats is indispensable for any organization regardless of its size. This book covers theoretical concepts and a variety of real-life scenarios that will help you to apply these concepts within your organization. Starting with the basics of incident response, the book introduces you to professional practices and advanced concepts for integrating threat hunting and threat intelligence procedures in the identification, contention, and eradication stages of the incident response cycle. As you progress through the chapters, you'll cover the different aspects of developing an incident response program. You'll learn the implementation and use of platforms such as TheHive and ELK and tools for evidence collection such as Velociraptor and KAPE before getting to grips with the integration of frameworks such as Cyber Kill Chain and MITRE ATT&CK for analysis and investigation. You'll also explore methodologies and tools for cyber threat hunting with Sigma and YARA rules. By the end of this book, you'll have learned everything you need to respond to cybersecurity incidents using threat intelligence. What you will learn Explore the fundamentals of incident response and incident management Find out how to develop incident response capabilities Understand the development of incident response plans and playbooks Align incident response procedures with business continuity Identify incident response requirements and orchestrate people, processes, and technologies Discover methodologies and tools to integrate cyber threat intelligence and threat hunting into incident response Who this book is for If you are an information security professional or anyone who wants to learn the principles of incident management, first response, threat hunting, and threat intelligence using a variety of platforms and tools, this book is for you. Although not necessary, basic knowledge of Linux, Windows internals, and network protocols will be helpful.

Cybersecurity Blue Team Toolkit Apr 26 2022 A practical handbook to cybersecurity for both tech and non-tech professionals As reports of major data breaches fill the headlines, it has become impossible for any business, large or small, to ignore the importance of cybersecurity. Most books on the subject, however, are either too specialized for the non-technical professional or too general for

positions in the IT trenches. Thanks to author Nadean Tanner's wide array of experience from teaching at a University to working for the Department of Defense, the Cybersecurity Blue Team Toolkit strikes the perfect balance of substantive and accessible, making it equally useful to those in IT or management positions across a variety of industries. This handy guide takes a simple and strategic look at best practices and tools available to both cybersecurity management and hands-on professionals, whether they be new to the field or looking to expand their expertise. Tanner gives comprehensive coverage to such crucial topics as security assessment and configuration, strategies for protection and defense, offensive measures, and remediation while aligning the concept with the right tool using the CIS Controls version 7 as a guide. Readers will learn why and how to use fundamental open source and free tools such as ping, tracer, PuTTY, pathping, sysinternals, NMAP, OpenVAS, Nexpose Community, OSSEC, Hamachi, InSSIDer, Nexpose Community, Wireshark, Solarwinds Kiwi Syslog Server, Metasploit, Burp, Clonezilla and many more. Up-to-date and practical cybersecurity instruction, applicable to both management and technical positions • Straightforward explanations of the theory behind cybersecurity best practices • Designed to be an easily navigated tool for daily use • Includes training appendix on Linux, how to build a virtual lab and glossary of key terms The Cybersecurity Blue Team Toolkit is an excellent resource for anyone working in digital policy as well as IT security professionals, technical analysts, program managers, and Chief Information and Technology Officers. This is one handbook that won't gather dust on the shelf, but remain a valuable reference at any career level, from student to executive.

Security Incidents & Response Against Cyber Attacks Aug 07 2020 This book provides use case scenarios of machine learning, artificial intelligence, and real-time domains to supplement cyber security operations and proactively predict attacks and preempt cyber incidents. The authors discuss cybersecurity incident planning, starting from a draft response plan, to assigning responsibilities, to use of external experts, to equipping organization teams to address incidents, to preparing communication strategy and cyber insurance. They also discuss classifications and methods to detect cybersecurity incidents, how to organize the incident response team, how to conduct situational awareness, how to contain and eradicate incidents, and how to cleanup and recover. The book shares real-world experiences and knowledge from authors from academia and industry.

Applied Incident Response Nov 21 2021 Incident response is critical for the active defense of any network, and incident responders need up-to-date, immediately applicable techniques with which to engage the adversary. Applied Incident Response details effective ways to respond to advanced attacks against local and remote network resources, providing proven response techniques and a framework through which to apply them. As a starting point for new incident handlers, or as a technical reference for hardened IR veterans, this book details the latest techniques for responding to threats against your network, including: Preparing your environment for effective incident response Leveraging MITRE ATT&CK and threat intelligence for active network defense Local and remote triage of systems using PowerShell, WMIC, and open-source tools Acquiring RAM and disk images locally and remotely Analyzing RAM with Volatility and Rekall Deep-dive forensic analysis of system drives using open-source or commercial tools Leveraging Security Onion and Elastic Stack for network security monitoring Techniques for log analysis and aggregating high-value logs Static and dynamic analysis of malware with YARA rules, FLARE VM, and Cuckoo Sandbox Detecting and responding to lateral movement techniques, including pass-the-hash, pass-the-ticket, Kerberoasting, malicious use of PowerShell, and many more Effective threat hunting techniques Adversary emulation with Atomic Red Team Improving preventive and detective controls

[Guide to Malware Incident Prevention and Handling](#) Nov 02 2022

Intelligence-Driven Incident Response Aug 31 2022 Using a well-conceived incident response plan in the aftermath of an online security breach enables your team to identify attackers and learn how they operate. But, only when you approach incident response with a cyber threat intelligence mindset will you truly understand the value of that information. With this practical guide, you'll learn the fundamentals of intelligence analysis, as well as the best ways to incorporate these techniques into your incident response process. Each method reinforces the other: threat

intelligence supports and augments incident response, while incident response generates useful threat intelligence. This book helps incident managers, malware analysts, reverse engineers, digital forensics specialists, and intelligence analysts understand, implement, and benefit from this relationship. In three parts, this in-depth book includes: The fundamentals: get an introduction to cyber threat intelligence, the intelligence process, the incident-response process, and how they all work together Practical application: walk through the intelligence-driven incident response (IDIR) process using the F3EAD process—Find, Fix Finish, Exploit, Analyze, and Disseminate The way forward: explore big-picture aspects of IDIR that go beyond individual incident-response investigations, including intelligence team building

Incident Response in the Age of Cloud Mar 02 2020 Learn to identify security incidents and build a series of best practices to stop cyber attacks before they create serious consequences Key FeaturesDiscover Incident Response (IR), from its evolution to implementationUnderstand cybersecurity essentials and IR best practices through real-world phishing incident scenariosExplore the current challenges in IR through the perspectives of leading expertsBook Description Cybercriminals are always in search of new methods to infiltrate systems. Quickly responding to an incident will help organizations minimize losses, decrease vulnerabilities, and rebuild services and processes. In the wake of the COVID-19 pandemic, with most organizations gravitating towards remote working and cloud computing, this book uses frameworks such as MITRE ATT&CK® and the SANS IR model to assess security risks. The book begins by introducing you to the cybersecurity landscape and explaining why IR matters. You will understand the evolution of IR, current challenges, key metrics, and the composition of an IR team, along with an array of methods and tools used in an effective IR process. You will then learn how to apply these strategies, with discussions on incident alerting, handling, investigation, recovery, and reporting. Further, you will cover governing IR on multiple platforms and sharing cyber threat intelligence and the procedures involved in IR in the cloud. Finally, the book concludes with an “Ask the Experts” chapter wherein industry experts have provided their perspective on diverse topics in the IR sphere. By the end of this book, you should become proficient at building and applying IR strategies pre-emptively and confidently. What you will learnUnderstand IR and its significanceOrganize an IR teamExplore best practices for managing attack situations with your IR teamForm, organize, and operate a product security team to deal with product vulnerabilities and assess their severityOrganize all the entities involved in product security responseRespond to security vulnerabilities using tools developed by Keepnet Labs and BinalyzeAdapt all the above learnings for the cloudWho this book is for This book is aimed at first-time incident responders, cybersecurity enthusiasts who want to get into IR, and anyone who is responsible for maintaining business security. It will also interest CIOs, CISOs, and members of IR, SOC, and CSIRT teams. However, IR is not just about information technology or security teams, and anyone with a legal, HR, media, or other active business role would benefit from this book. The book assumes you have some admin experience. No prior DFIR experience is required. Some infosec knowledge will be a plus but isn’t mandatory.

Practical Malware Analysis Jan 30 2020 Malware analysis is big business, and attacks can cost a company dearly. When malware breaches your defenses, you need to act quickly to cure current infections and prevent future ones from occurring. For those who want to stay ahead of the latest malware, *Practical Malware Analysis* will teach you the tools and techniques used by professional analysts. With this book as your guide, you'll be able to safely analyze, debug, and disassemble any malicious software that comes your way. You'll learn how to: -Set up a safe virtual environment to analyze malware -Quickly extract network signatures and host-based indicators -Use key analysis tools like IDA Pro, OllyDbg, and WinDbg -Overcome malware tricks like obfuscation, anti-disassembly, anti-debugging, and anti-virtual machine techniques -Use your newfound knowledge of Windows internals for malware analysis -Develop a methodology for unpacking malware and get practical experience with five of the most popular packers -Analyze special cases of malware with shellcode, C++, and 64-bit code Hands-on labs throughout the book challenge you to practice and synthesize your skills as you dissect real malware samples, and pages of detailed dissections offer an

over-the-shoulder look at how the pros do it. You'll learn how to crack open malware to see how it really works, determine what damage it has done, thoroughly clean your network, and ensure that the malware never comes back. Malware analysis is a cat-and-mouse game with rules that are constantly changing, so make sure you have the fundamentals. Whether you're tasked with securing one network or a thousand networks, or you're making a living as a malware analyst, you'll find what you need to succeed in Practical Malware Analysis.

Cybersecurity Incident Response Aug 19 2021 Create, maintain, and manage a continual cybersecurity incident response program using the practical steps presented in this book. Don't allow your cybersecurity incident responses (IR) to fall short of the mark due to lack of planning, preparation, leadership, and management support. Surviving an incident, or a breach, requires the best response possible. This book provides practical guidance for the containment, eradication, and recovery from cybersecurity events and incidents. The book takes the approach that incident response should be a continual program. Leaders must understand the organizational environment, the strengths and weaknesses of the program and team, and how to strategically respond. Successful behaviors and actions required for each phase of incident response are explored in the book. Straight from NIST 800-61, these actions include: Planning and practicing Detection Containment Eradication Post-incident actions What You'll Learn Know the sub-categories of the NIST Cybersecurity Framework Understand the components of incident response Go beyond the incident response plan Turn the plan into a program that needs vision, leadership, and culture to make it successful Be effective in your role on the incident response team Who This Book Is For Cybersecurity leaders, executives, consultants, and entry-level professionals responsible for executing the incident response plan when something goes wrong

Enterprise Cybersecurity Feb 10 2021 Enterprise Cybersecurity empowers organizations of all sizes to defend themselves with next-generation cybersecurity programs against the escalating threat of modern targeted cyberattacks. This book presents a comprehensive framework for managing all aspects of an enterprise cybersecurity program. It enables an enterprise to architect, design, implement, and operate a coherent cybersecurity program that is seamlessly coordinated with policy, programmatics, IT life cycle, and assessment. Fail-safe cyberdefense is a pipe dream. Given sufficient time, an intelligent attacker can eventually defeat defensive measures protecting an enterprise's computer systems and IT networks. To prevail, an enterprise cybersecurity program must manage risk by detecting attacks early enough and delaying them long enough that the defenders have time to respond effectively. Enterprise Cybersecurity shows players at all levels of responsibility how to unify their organization's people, budgets, technologies, and processes into a cost-efficient cybersecurity program capable of countering advanced cyberattacks and containing damage in the event of a breach. The authors of Enterprise Cybersecurity explain at both strategic and tactical levels how to accomplish the mission of leading, designing, deploying, operating, managing, and supporting cybersecurity capabilities in an enterprise environment. The authors are recognized experts and thought leaders in this rapidly evolving field, drawing on decades of collective experience in cybersecurity and IT. In capacities ranging from executive strategist to systems architect to cybercombatant, Scott E. Donaldson, Stanley G. Siegel, Chris K. Williams, and Abdul Aslam have fought on the front lines of cybersecurity against advanced persistent threats to government, military, and business entities.

Antivirus Bypass Techniques Dec 31 2019 Develop more secure and effective antivirus solutions by leveraging antivirus bypass techniques Key FeaturesGain a clear understanding of the security landscape and research approaches to bypass antivirus softwareBecome well-versed with practical techniques to bypass antivirus solutionsDiscover best practices to develop robust antivirus solutionsBook Description Antivirus software is built to detect, prevent, and remove malware from systems, but this does not guarantee the security of your antivirus solution as certain changes can trick the antivirus and pose a risk for users. This book will help you to gain a basic understanding of antivirus software and take you through a series of antivirus bypass techniques that will enable you to bypass antivirus solutions. The book starts by introducing you to the cybersecurity landscape,

focusing on cyber threats, malware, and more. You will learn how to collect leads to research antivirus and explore the two common bypass approaches used by the authors. Once you've covered the essentials of antivirus research and bypassing, you'll get hands-on with bypassing antivirus software using obfuscation, encryption, packing, PowerShell, and more. Toward the end, the book covers security improvement recommendations, useful for both antivirus vendors as well as for developers to help strengthen the security and malware detection capabilities of antivirus software. By the end of this security book, you'll have a better understanding of antivirus software and be able to confidently bypass antivirus software. What you will learn

- Explore the security landscape and get to grips with the fundamentals of antivirus software
- Discover how to gather AV bypass research leads using malware analysis tools
- Understand the two commonly used antivirus bypass approaches
- Find out how to bypass static and dynamic antivirus engines
- Understand and implement bypass techniques in real-world scenarios
- Leverage best practices and recommendations for implementing antivirus solutions

Who this book is for This book is for security researchers, malware analysts, reverse engineers, pentesters, antivirus vendors looking to strengthen their detection capabilities, antivirus users and companies that want to test and evaluate their antivirus software, organizations that want to test and evaluate antivirus software before purchase or acquisition, and tech-savvy individuals who want to learn new topics.

Cuckoo Malware Analysis Dec 11 2020 This book is a step-by-step, practical tutorial for analyzing and detecting malware and performing digital investigations. This book features clear and concise guidance in an easily accessible format. Cuckoo Malware Analysis is great for anyone who wants to analyze malware through programming, networking, disassembling, forensics, and virtualization. Whether you are new to malware analysis or have some experience, this book will help you get started with Cuckoo Sandbox so you can start analysing malware effectively and efficiently.

Ransomware Revealed Jul 30 2022 Know how to mitigate and handle ransomware attacks via the essential cybersecurity training in this book so you can stop attacks before they happen. Learn the types of ransomware, distribution methods, internal structure, families (variants), defense strategies, recovery methods, and legal issues related to reporting ransomware incidents to authorities and other affected parties. This book also teaches you how to develop a ransomware incident response plan to minimize ransomware damage and recover normal operations quickly. Ransomware is a category of malware that can encrypt your computer and mobile device files until you pay a ransom to unlock them. Ransomware attacks are considered the most prevalent cybersecurity threats today—the number of new ransomware variants has grown 30-fold since 2015 and they currently account for roughly 40% of all spam messages. Attacks have increased in occurrence from one every 40 seconds to one every 14 seconds. Government and private corporations are targets. Despite the security controls set by organizations to protect their digital assets, ransomware is still dominating the world of security and will continue to do so in the future. Ransomware Revealed discusses the steps to follow if a ransomware infection occurs, such as how to pay the ransom through anonymous payment methods, perform a backup and restore your affected files, and search online to find a decryption tool to unlock (decrypt) your files for free. Mitigation steps are discussed in depth for both endpoint devices and network systems. What You Will Learn

- Be aware of how ransomware infects your system
- Comprehend ransomware components in simple terms
- Recognize the different types of ransomware families
- Identify the attack vectors employed by ransomware to infect computer systems
- Know how to prevent ransomware attacks from successfully comprising your system and network (i.e., mitigation strategies)
- Know what to do if a successful ransomware infection takes place
- Understand how to pay the ransom as well as the pros and cons of paying
- Set up a ransomware response plan to recover from such attacks

Who This Book Is For Those who do not specialize in the cybersecurity field (but have adequate IT skills) and want to fully understand the anatomy of ransomware threats. Although most of the book's content will be understood by ordinary computer users, it will also prove useful for experienced IT users aiming to understand the ins and outs of ransomware threats without diving deep into the technical jargon of the internal structure of ransomware.

Malware Forensics Field Guide for Linux Systems Jun 24 2019 Malware Forensics Field Guide for Linux Systems is a handy reference that shows students the essential tools needed to do computer forensics analysis at the crime scene. It is part of Syngress Digital Forensics Field Guides, a series of companions for any digital and computer forensic student, investigator or analyst. Each Guide is a toolkit, with checklists for specific tasks, case studies of difficult situations, and expert analyst tips that will aid in recovering data from digital media that will be used in criminal prosecution. This book collects data from all methods of electronic data storage and transfer devices, including computers, laptops, PDAs and the images, spreadsheets and other types of files stored on these devices. It is specific for Linux-based systems, where new malware is developed every day. The authors are world-renowned leaders in investigating and analyzing malicious code. Chapters cover malware incident response - volatile data collection and examination on a live Linux system; analysis of physical and process memory dumps for malware artifacts; post-mortem forensics - discovering and extracting malware and associated artifacts from Linux systems; legal considerations; file identification and profiling initial analysis of a suspect file on a Linux system; and analysis of a suspect program. This book will appeal to computer forensic investigators, analysts, and specialists. A compendium of on-the-job tasks and checklists Specific for Linux-based systems in which new malware is developed every day Authors are world-renowned leaders in investigating and analyzing malicious code

Practical Cyber Intelligence Nov 29 2019 Your one stop solution to implement a Cyber Defense Intelligence program in to your organisation. Key Features Intelligence processes and procedures for response mechanisms Master F3EAD to drive processes based on intelligence Threat modeling and intelligent frameworks Case studies and how to go about building intelligent teams Book Description Cyber intelligence is the missing link between your cyber defense operation teams, threat intelligence, and IT operations to provide your organization with a full spectrum of defensive capabilities. This book kicks off with the need for cyber intelligence and why it is required in terms of a defensive framework. Moving forward, the book provides a practical explanation of the F3EAD protocol with the help of examples. Furthermore, we learn how to go about threat models and intelligence products/frameworks and apply them to real-life scenarios. Based on the discussion with the prospective author I would also love to explore the induction of a tool to enhance the marketing feature and functionality of the book. By the end of this book, you will be able to boot up an intelligence program in your organization based on the operation and tactical/strategic spheres of Cyber defense intelligence. What you will learn Learn about the Observe-Orient-Decide-Act (OODA) loop and it's applicability to security Understand tactical view of Active defense concepts and their application in today's threat landscape Get acquainted with an operational view of the F3EAD process to drive decision making within an organization Create a Framework and Capability Maturity Model that integrates inputs and outputs from key functions in an information security organization Understand the idea of communicating with the Potential for Exploitability based on cyber intelligence Who this book is for This book targets incident managers, malware analysts, reverse engineers, digital forensics specialists, and intelligence analysts; experience in, or knowledge of, security operations, incident responses or investigations is desirable so you can make the most of the subjects presented.

Incident Response & Computer Forensics, Third Edition Jun 16 2021 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

Hands-On Cybersecurity for Finance Apr 02 2020 This is a comprehensive guide to help you understand the current threats faced by the financial cyberspace and how to go about it and secure your financial landscape. The book will take you on a journey from identifying the attackers to securing your financial transactions and assets. The book then take you through the updates needed for ...

Digital Forensics and Incident Response - Second Edition May 16 2021 Build your organization's cyber defense system by effectively implementing digital forensics and incident management techniques Key Features Create a solid incident response framework and manage cyber incidents effectively Perform malware analysis for effective incident response Explore real-life scenarios that effectively use threat intelligence and modeling techniques Book Description An understanding of how digital forensics integrates with the overall response to cybersecurity incidents is key to securing your organization's infrastructure from attacks. This updated second edition will help you perform cutting-edge digital forensic activities and incident response. After focusing on the fundamentals of incident response that are critical to any information security team, you'll move on to exploring the incident response framework. From understanding its importance to creating a swift and effective response to security incidents, the book will guide you with the help of useful examples. You'll later get up to speed with digital forensic techniques, from acquiring evidence and examining volatile memory through to hard drive examination and network-based evidence. As you progress, you'll discover the role that threat intelligence plays in the incident response process. You'll also learn how to prepare an incident response report that documents the findings of your analysis. Finally, in addition to various incident response activities, the book will address malware analysis, and demonstrate how you can proactively use your digital forensic skills in threat hunting. By the end of this book, you'll have learned how to efficiently investigate and report unwanted security breaches and incidents in your organization. What you will learn Create and deploy an incident response capability within your own organization Perform proper evidence acquisition and handling Analyze the evidence collected and determine the root cause of a security incident Become well-versed with memory and log analysis Integrate digital forensic techniques and procedures into the overall incident response process Understand the different techniques for threat hunting Write effective incident reports that document the key findings of your analysis Who this book is for This book is for cybersecurity and information security professionals who want to implement digital forensics and incident response in their organization. You will also find the book helpful if you are new to the concept of digital forensics and are looking to get started with the fundamentals. A basic understanding of operating systems and some knowledge of networking fundamentals are required to get started with this book.

Malware Forensics Jun 28 2022 Malware Forensics: Investigating and Analyzing Malicious Code covers the complete process of responding to a malicious code incident. Written by authors who have investigated and prosecuted federal malware cases, this book deals with the emerging and evolving field of live forensics, where investigators examine a computer system to collect and preserve critical live data that may be lost if the system is shut down. Unlike other forensic texts that discuss live forensics on a particular operating system, or in a generic context, this book emphasizes a live forensics and evidence collection methodology on both Windows and Linux operating systems in the context of identifying and capturing malicious code and evidence of its effect on the compromised system. It is the first book detailing how to perform live forensic techniques on malicious code. The book gives deep coverage on the tools and techniques of conducting runtime behavioral malware analysis (such as file, registry, network and port monitoring) and static code analysis (such as file identification and profiling, strings discovery, armoring/packing detection, disassembling, debugging), and more. It explores over 150 different tools for malware incident response and analysis, including forensic tools for preserving and analyzing computer memory. Readers from all educational and technical backgrounds will benefit

from the clear and concise explanations of the applicable legal case law and statutes covered in every chapter. In addition to the technical topics discussed, this book also offers critical legal considerations addressing the legal ramifications and requirements governing the subject matter. This book is intended for system administrators, information security professionals, network personnel, forensic examiners, attorneys, and law enforcement working with the inner-workings of computer memory and malicious code. * Winner of Best Book Bejtlich read in 2008! * <http://taosecurity.blogspot.com/2008/12/best-book-bejtlich-read-in-2008.html> * Authors have investigated and prosecuted federal malware cases, which allows them to provide unparalleled insight to the reader. * First book to detail how to perform "live forensic" techniques on malicious code. * In addition to the technical topics discussed, this book also offers critical legal considerations addressing the legal ramifications and requirements governing the subject matter

Cybersecurity Threats, Malware Trends, and Strategies Jul 06 2020 A comprehensive guide for cybersecurity professionals to acquire unique insights on the evolution of the threat landscape and how you can address modern cybersecurity challenges in your organisation Key Features Protect your organization from cybersecurity threats with field-tested strategies Discover the most common ways enterprises initially get compromised Measure the effectiveness of your organization's current cybersecurity program against cyber attacks Book Description After scrutinizing numerous cybersecurity strategies, Microsoft's former Global Chief Security Advisor in this book helps you understand the efficacy of popular cybersecurity strategies and more. *Cybersecurity Threats, Malware Trends, and Strategies* offers an unprecedented long-term view of the global threat landscape by examining the twenty-year trend in vulnerability disclosures and exploitation, nearly a decade of regional differences in malware infections, the socio-economic factors that underpin them, and how global malware has evolved. This will give you further perspectives into malware protection for your organization. It also examines internet-based threats that CISOs should be aware of. The book will provide you with an evaluation of the various cybersecurity strategies that have ultimately failed over the past twenty years, along with one or two that have actually worked. It will help executives and security and compliance professionals understand how cloud computing is a game changer for them. By the end of this book, you will know how to measure the effectiveness of your organization's cybersecurity strategy and the efficacy of the vendors you employ to help you protect your organization and yourself. What you will learn Discover cybersecurity strategies and the ingredients critical to their success Improve vulnerability management by reducing risks and costs for your organization Learn how malware and other threats have evolved over the past decade Mitigate internet-based threats, phishing attacks, and malware distribution sites Weigh the pros and cons of popular cybersecurity strategies of the past two decades Implement and then measure the outcome of a cybersecurity strategy Learn how the cloud provides better security capabilities than on-premises IT environments Who this book is for This book is designed to benefit engineers, leaders, or any professional with either a responsibility for cyber security within their organization, or an interest in working in this ever-growing field.

Malware Forensics Field Guide for Windows Systems Oct 01 2022 Dissecting the dark side of the Internet with its infectious worms, botnets, rootkits, and Trojan horse programs (known as malware) is a treacherous 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

Incident Response & Computer Forensics, Third Edition Jul 18 2021 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

Computer Security Incident Handling Guide (draft) .: Mar 26 2022

Mastering Malware Analysis Mar 14 2021 Learn effective malware analysis tactics to prevent your systems from getting infected Key Features Investigate cyberattacks and prevent malware-related incidents from occurring in the future Learn core concepts of static and dynamic malware analysis, memory forensics, decryption, and much more Get practical guidance in developing efficient solutions to handle malware incidents Book Description New and developing technologies inevitably bring new types of malware with them, creating a huge demand for IT professionals that can keep malware at bay. With the help of this updated second edition of Mastering Malware Analysis, you'll be able to add valuable reverse-engineering skills to your CV and learn how to protect organizations in the most efficient way. This book will familiarize you with multiple universal patterns behind different malicious software types and teach you how to analyze them using a variety of approaches. You'll learn how to examine malware code and determine the damage it can possibly cause to systems, along with ensuring that the right prevention or remediation steps are followed. As you cover all aspects of malware analysis for Windows, Linux, macOS, and mobile platforms in detail, you'll also get to grips with obfuscation, anti-debugging, and other advanced anti-reverse-engineering techniques. The skills you acquire in this cybersecurity book will help you deal with all types of modern malware, strengthen your defenses, and prevent or promptly mitigate breaches regardless of the platforms involved. By the end of this book, you will have learned how to efficiently analyze samples, investigate suspicious activity, and build innovative solutions to handle malware incidents. What you will learn Explore assembly languages to strengthen your reverse-engineering skills Master various file formats and relevant APIs used by attackers Discover attack vectors and start handling IT, OT, and IoT malware Understand how to analyze samples for x86 and various RISC architectures Perform static and dynamic analysis of files of various types Get to grips with handling sophisticated malware cases Understand real advanced attacks, covering all their stages Focus on how to bypass anti-reverse-engineering techniques Who this book is for If you are a malware researcher, forensic analyst, IT security administrator, or anyone looking to secure against malicious software or investigate malicious code, this book is for you. This new edition is suited to all levels of knowledge, including complete beginners. Any prior exposure to programming or cybersecurity will further help to speed up your learning process.

Mastering Malware Analysis Dec 23 2021 Master malware analysis to protect your systems from getting infected Key Features Set up and model solutions, investigate malware, and prevent it from occurring in future Learn core concepts of dynamic malware analysis, memory forensics, decryption, and much more A practical guide to developing innovative solutions to numerous malware incidents Book Description With the ever-growing proliferation of technology, the risk of encountering malicious code or malware has also increased. Malware analysis has become one of the most trending topics in businesses in recent years due to multiple prominent ransomware attacks. Mastering Malware Analysis explains the universal patterns behind different malicious software types and how to analyze them using a variety of approaches. You will learn how to examine malware code and determine the damage it can possibly cause to your systems to ensure that it won't propagate any further. Moving forward, you will cover all aspects of malware analysis for the Windows platform in detail. Next, you will get to grips with obfuscation and anti-disassembly, anti-debugging, as well as anti-virtual machine techniques. This book will help you deal with modern cross-platform malware. Throughout the course of this book, you will explore real-world examples of static and dynamic malware analysis, unpacking and decrypting, and rootkit detection. Finally, this

book will help you strengthen your defenses and prevent malware breaches for IoT devices and mobile platforms. By the end of this book, you will have learned to effectively analyze, investigate, and build innovative solutions to handle any malware incidents. What you will learn

Explore widely used assembly languages to strengthen your reverse-engineering skills

Master different executable file formats, programming languages, and relevant APIs used by attackers

Perform static and dynamic analysis for multiple platforms and file types

Get to grips with handling sophisticated malware cases

Understand real advanced attacks, covering all stages from infiltration to hacking the system

Learn to bypass anti-reverse engineering techniques

Who this book is for

If you are an IT security administrator, forensic analyst, or malware researcher looking to secure against malicious software or investigate malicious code, this book is for you. Prior programming experience and a fair understanding of malware attacks and investigation is expected.

The Computer Incident Response Planning Handbook: Executable Plans for Protecting Information at Risk Sep 27 2019

Uncertainty and risk, meet planning and action. Reinforce your organization's security posture using the expert information contained in this tactical guide. The Computer Incident Response Planning Handbook: Executable Plans for Protecting Information at Risk shows you how to build and manage successful response plans for the cyber incidents that have become inevitable for organizations of any size. Find out why these plans work. Learn the step-by-step process for developing and managing plans built to address the wide range of issues organizations face in times of crisis. Contains the essentials for developing both data breach and malware outbreak response plans—and best practices for maintaining those plans

Features ready-to-implement CIRPs—derived from living incident response plans that have survived the rigors of repeated execution and numerous audits

Clearly explains how to minimize the risk of post-event litigation, brand impact, fines and penalties—and how to protect shareholder value

Supports corporate compliance with industry standards and requirements, including PCI, HIPAA, SOX, and CA SB-24

The Art of Memory Forensics Nov 09 2020

Memory forensics provides cutting edge technology to help investigate digital attacks

Memory forensics is the art of analyzing computer memory (RAM) to solve digital crimes. As a follow-up to the best seller *Malware Analyst's Cookbook*, experts in the fields of malware, security, and digital forensics bring you a step-by-step guide to memory forensics—now the most sought after skill in the digital forensics and incident response fields.

Beginning with introductory concepts and moving toward the advanced, *The Art of Memory Forensics: Detecting Malware and Threats in Windows, Linux, and Mac* Memory is based on a five day training course that the authors have presented to hundreds of students. It is the only book on the market that focuses exclusively on memory forensics and how to deploy such techniques properly.

Discover memory forensics techniques: How volatile memory analysis improves digital investigations

Proper investigative steps for detecting stealth malware and advanced threats

How to use free, open source tools for conducting thorough memory forensics

Ways to acquire memory from suspect systems in a forensically sound manner

The next era of malware and security breaches are more sophisticated and targeted, and the volatile memory of a computer is often overlooked or destroyed as part of the incident response process. *The Art of Memory Forensics* explains the latest technological innovations in digital forensics to help bridge this gap. It covers the most popular and recently released versions of Windows, Linux, and Mac, including both the 32 and 64-bit editions.

Learning Malware Analysis Oct 21 2021

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.

Ransomware and Cyber Extortion Jan 24 2022 Today, ransomware is causing dangerous operational failures, financial catastrophes, multi-million-dollar losses, and in some cases, deaths. Ransomware is even undermining the security of nation-states and becoming a contentious issue in international diplomacy. In *Ransomware and Cyber Extortion: Response and Prevention*, Sherri Davidson and her internationally renowned team of cybersecurity experts offer new insights and well-structured best practices for the entire lifecycle: prevention, detection, mitigation, remediation, and recovery. Drawing on deep experience consulting with (and negotiating for) ransomware victims, the authors reveal how cyber extortionists now operate, and show how to limit damage, avoid costly mistakes, and reduce future risks. Their real-world case studies help you understand crucial complexities of ransomware response, and address issues ranging from avoiding reinfection to filing insurance claims. Designed for easy use when you're under the most pressure, *Ransomware and Cyber Extortion* contains clear, visual tips for communication, time management, and preparation, cloud-specific issues, and much more. If you haven't faced a ransomware attack yet, count yourself lucky, and get this guide today--so you can prepare, before it's too late.

Incident Response Techniques for Ransomware Attacks Apr 14 2021 Explore the world of modern human-operated ransomware attacks, along with covering steps to properly investigate them and collecting and analyzing cyber threat intelligence using cutting-edge methods and tools

Key Features

- Understand modern human-operated cyber attacks, focusing on threat actor tactics, techniques, and procedures
- Collect and analyze ransomware-related cyber threat intelligence from various sources
- Use forensic methods and tools to reconstruct ransomware attacks and prevent them in the early stages

Book Description

Ransomware attacks have become the strongest and most persistent threat for many companies around the globe. Building an effective incident response plan to prevent a ransomware attack is crucial and may help you avoid heavy losses. *Incident Response Techniques for Ransomware Attacks* is designed to help you do just that. This book starts by discussing the history of ransomware, showing you how the threat landscape has changed over the years, while also covering the process of incident response in detail. You'll then learn how to collect and produce ransomware-related cyber threat intelligence and look at threat actor tactics, techniques, and procedures. Next, the book focuses on various forensic artifacts in order to reconstruct each stage of a human-operated ransomware attack life cycle. In the concluding chapters, you'll get to grips with various kill chains and discover a new one: the Unified Ransomware Kill Chain. By the end of this ransomware book, you'll be equipped with the skills you need to build an incident response strategy for all ransomware attacks. What you will learn

- Understand the modern ransomware threat landscape
- Explore the incident response process in the context of

ransomware Discover how to collect and produce ransomware-related cyber threat intelligence Use forensic methods to collect relevant artifacts during incident response Interpret collected data to understand threat actor tactics, techniques, and procedures Understand how to reconstruct the ransomware attack kill chain Who this book is for This book is for security researchers, security analysts, or anyone in the incident response landscape who is responsible for building an incident response model for ransomware attacks. A basic understanding of cyber threats will be helpful to get the most out of this book.

Digital Forensics and Incident Response Sep 19 2021 Build your organization's cyber defense system by effectively implementing digital forensics and incident management techniques Key Features Create a solid incident response framework and manage cyber incidents effectively Perform malware analysis for effective incident response Explore real-life scenarios that effectively use threat intelligence and modeling techniques Book Description An understanding of how digital forensics integrates with the overall response to cybersecurity incidents is key to securing your organization's infrastructure from attacks. This updated second edition will help you perform cutting-edge digital forensic activities and incident response. After focusing on the fundamentals of incident response that are critical to any information security team, you'll move on to exploring the incident response framework. From understanding its importance to creating a swift and effective response to security incidents, the book will guide you with the help of useful examples. You'll later get up to speed with digital forensic techniques, from acquiring evidence and examining volatile memory through to hard drive examination and network-based evidence. As you progress, you'll discover the role that threat intelligence plays in the incident response process. You'll also learn how to prepare an incident response report that documents the findings of your analysis. Finally, in addition to various incident response activities, the book will address malware analysis, and demonstrate how you can proactively use your digital forensic skills in threat hunting. By the end of this book, you'll have learned how to efficiently investigate and report unwanted security breaches and incidents in your organization. What you will learn Create and deploy an incident response capability within your own organization Perform proper evidence acquisition and handling Analyze the evidence collected and determine the root cause of a security incident Become well-versed with memory and log analysis Integrate digital forensic techniques and procedures into the overall incident response process Understand the different techniques for threat hunting Write effective incident reports that document the key findings of your analysis Who this book is for This book is for cybersecurity and information security professionals who want to implement digital forensics and incident response in their organization. You will also find the book helpful if you are new to the concept of digital forensics and are looking to get started with the fundamentals. A basic understanding of operating systems and some knowledge of networking fundamentals are required to get started with this book.

Ransomware Protection Playbook Sep 07 2020 Avoid becoming the next ransomware victim by taking practical steps today Colonial Pipeline. CWT Global. Brenntag. Travelex. The list of ransomware victims is long, distinguished, and sophisticated. And it's growing longer every day. In Ransomware Protection Playbook, computer security veteran and expert penetration tester Roger A. Grimes delivers an actionable blueprint for organizations seeking a robust defense against one of the most insidious and destructive IT threats currently in the wild. You'll learn about concrete steps you can take now to protect yourself or your organization from ransomware attacks. In addition to walking you through the necessary technical preventative measures, this critical book will show you how to: Quickly detect an attack, limit the damage, and decide whether to pay the ransom Implement a pre-set game plan in the event of a game-changing security breach to help limit the reputational and financial damage Lay down a secure foundation of cybersecurity insurance and legal protection to mitigate the disruption to your life and business A must-read for cyber and information security professionals, privacy leaders, risk managers, and CTOs, Ransomware Protection Playbook is an irreplaceable and timely resource for anyone concerned about the security of their, or their organization's, data.

Linux Malware Incident Response Feb 22 2022 This Practitioner's Guide is designed to help digital investigators identify malware on a Linux computer system, collect volatile (and relevant nonvolatile) system data to further investigation, and determine the impact malware makes on a subject system, all in a reliable, repeatable, defensible, and thoroughly documented manner.

Principles of Incident Response and Disaster Recovery Jun 04 2020 PRINCIPLES OF INCIDENT RESPONSE & DISASTER RECOVERY, 2nd Edition presents methods to identify vulnerabilities within computer networks and the countermeasures that mitigate risks and damage. From market-leading content on contingency planning, to effective techniques that minimize downtime in an emergency, to curbing losses after a breach, this text is the resource needed in case of a network intrusion. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Computer Incident Response and Forensics Team Management Oct 28 2019 Computer Incident Response and Forensics Team Management provides security professionals with a complete handbook of computer incident response from the perspective of forensics team management. This unique approach teaches readers the concepts and principles they need to conduct a successful incident response investigation, ensuring that proven policies and procedures are established and followed by all team members. Leighton R. Johnson III describes the processes within an incident response event and shows the crucial importance of skillful forensics team management, including when and where the transition to forensics investigation should occur during an incident response event. The book also provides discussions of key incident response components. Provides readers with a complete handbook on computer incident response from the perspective of forensics team management Identify the key steps to completing a successful computer incident response investigation Defines the qualities necessary to become a successful forensics investigation team member, as well as the interpersonal relationship skills necessary for successful incident response and forensics investigation teams

Digital Forensics and Incident Response May 28 2022 A practical guide to deploying digital forensic techniques in response to cyber security incidents About This Book Learn incident response fundamentals and create an effective incident response framework Master forensics investigation utilizing digital investigative techniques Contains real-life scenarios that effectively use threat intelligence and modeling techniques Who This Book Is For This book is targeted at Information Security professionals, forensics practitioners, and students with knowledge and experience in the use of software applications and basic command-line experience. It will also help professionals who are new to the incident response/digital forensics role within their organization. What You Will Learn Create and deploy incident response capabilities within your organization Build a solid foundation for acquiring and handling suitable evidence for later analysis Analyze collected evidence and determine the root cause of a security incident Learn to integrate digital forensic techniques and procedures into the overall incident response process Integrate threat intelligence in digital evidence analysis Prepare written documentation for use internally or with external parties such as regulators or law enforcement agencies In Detail Digital Forensics and Incident Response will guide you through the entire spectrum of tasks associated with incident response, starting with preparatory activities associated with creating an incident response plan and creating a digital forensics capability within your own organization. You will then begin a detailed examination of digital forensic techniques including acquiring evidence, examining volatile memory, hard drive assessment, and network-based evidence. You will also explore the role that threat intelligence plays in the incident response process. Finally, a detailed section on preparing reports will help you prepare a written report for use either internally or in a courtroom. By the end of the book, you will have mastered forensic techniques and incident response and you will have a solid foundation on which to increase your ability to investigate such incidents in your organization. Style and approach The book covers practical scenarios and examples in an enterprise setting to give you an understanding of how digital forensics integrates with the overall response to cyber security incidents. You will also learn the proper use of tools and techniques to investigate common cyber

security incidents such as malware infestation, memory analysis, disk analysis, and network analysis.