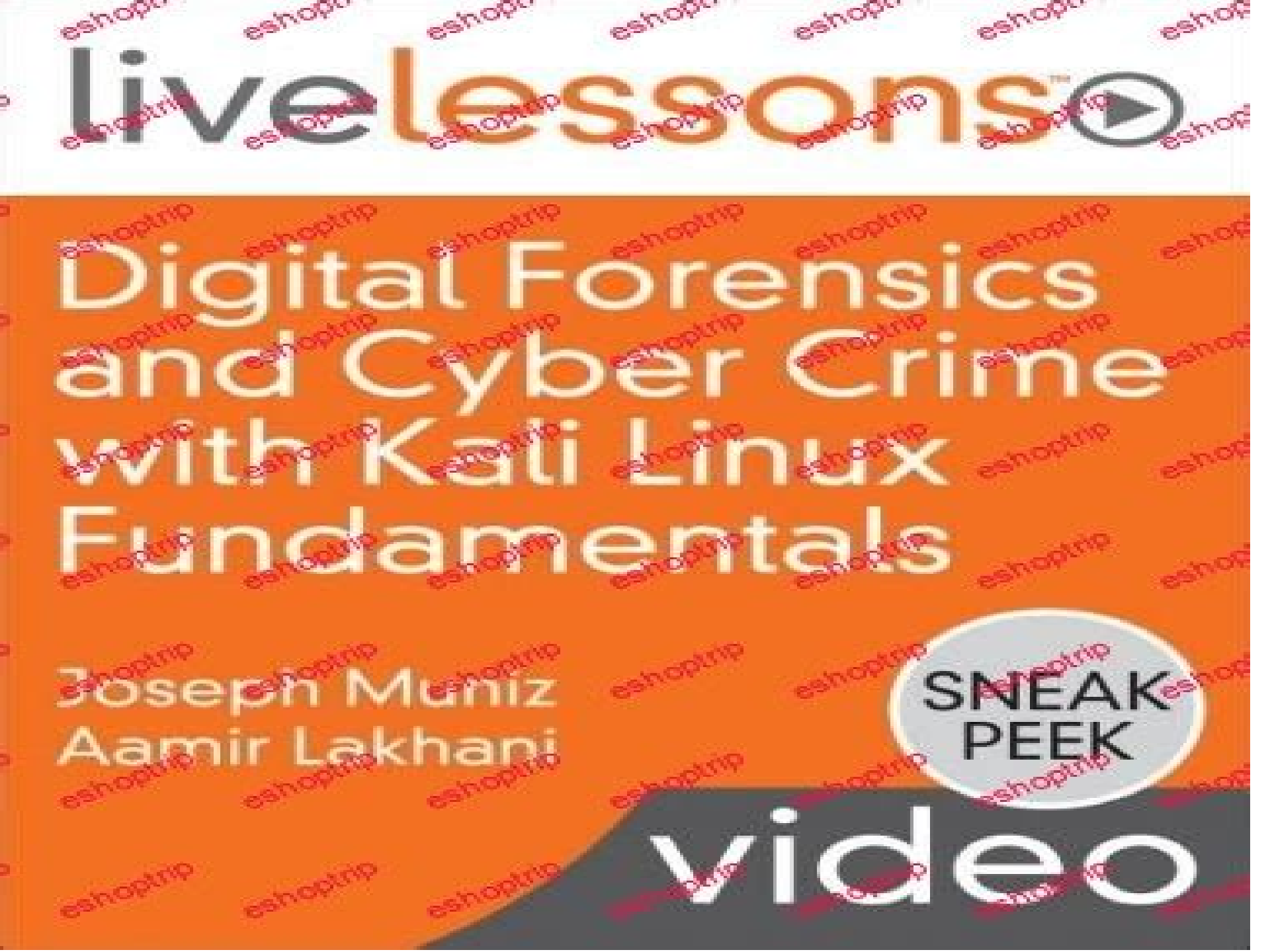
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Digital Forensics And Cyber Crime With Kali Linux:

Digital Forensics and Cyber Crime with Kali Linux Fundamentals Joseph Lakhani,2017 6 Hours of Expert Video Instruction Overview Why is digital forensics so important In today s digital world every organization is bound to be attacked and likely breached by a cyber adversary Forensics can be used to determine if and how a breach occurred and also how to properly respond Digital Forensics and Cyber Crime with Kali Linux Fundamentals LiveLessons introduces you to the world of digital forensics and acts as a primer for your future forensic work This is a fundamentals course with a focus on the average network engineer so you don t need to be an IT expert to follow most of the concepts Learn when a breach occurs what actions you can take and how to learn from the breach to prevent future attacks This video course focuses on using open source technology available in the Kali Linux framework along with other tools to simplify forensic tasks You will master the basics of digital forensics learn best practices and explore legal and forensic service concepts About the Instructors Joseph Muniz is an architect at Cisco Systems and security researcher He has extensive experience in designing security solutions and architectures for the top Fortune 500 corporations and the U S government Examples of Joseph s research is his RSA talk titled Social Media Deception quoted by many sources found by searching Emily Williams Social Engineering as well as articles in PenTest Magazine regarding various security topics Joseph runs thesecurityblogger website a popular resource for security and product implementation He is the author and contributor of several publications including titles on building security operations centers SOC s CCNA cyber ops certification web penetration testing and hacking with raspberry pi Follow Joseph at www thesecurityblogger com and SecureBlogger Aamir Lakhani is a leading senior security strategist He is responsible for providing IT security solutions to major enterprises and government organizations Mr Lakhani creates technical security strategies and leads security implementation projects for Fortune 500 companies Aamir has designed offensive counter defense measures for the Department of Defense and national intelligence agencies He has also assisted organizations with safeguarding IT and physical environments from attacks perpetrated by underground cybercriminal groups Mr Lakhani is considered an industry leader for creating detailed security architectures within complex computing

Digital Forensics and Cyber Crime with Kali Linux Fundamentals Joseph Muniz,2018 Digital Forensics and Cyber Crime with Kali Linux Fundamentals LiveLessons introduces you to the world of digital forensics and acts as a primer for your future forensic work This is a fundamentals course with a focus on the average network engineer so you don t need to be an IT expert to follow most of the concepts Learn when a breach occurs what actions you can take and how to learn from the breach to prevent future attacks This video course focuses on using open source technology available in the Kali Linux framework along with other tools to simplify forensic tasks You will master the basics of digital forensics learn best practices and explore legal and forensic service concepts Resource description page 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 Key Features 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 Book Description 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 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 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 *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 Digital Forensics with Kali Linux - Second Edition Shiva V. N. Parasram,2020-04-17 *Digital Forensics in the Era of Artificial Intelligence* Nour Moustafa,2022-07-18 Digital forensics plays a crucial role in identifying analysing and presenting cyber threats as evidence in a court of law Artificial intelligence particularly machine learning and deep learning enables automation of the digital investigation process This book provides an in depth look at the fundamental and advanced methods in digital forensics It also discusses how machine learning and deep learning algorithms can be used to detect and investigate cybercrimes This book demonstrates digital forensics and cyber investigating techniques with real world applications It examines hard disk analytics and style architectures including Master Boot Record and GUID Partition Table as part of the investigative process It also covers cyberattack analysis in Windows Linux and network systems using virtual machines in real world scenarios Digital Forensics in the Era of Artificial Intelligence will be helpful for those interested in digital forensics and using machine learning techniques in the investigation of cyberattacks and the detection of evidence in cybercrimes **Digital Forensics with Kali Linux** Shiva V. N. Parasram,2020-04-17 Take your forensic abilities and investigation skills to the next level using powerful tools that cater to all aspects of digital forensic investigations right from hashing to reporting Key Features Perform evidence acquisition preservation and analysis using a variety of Kali Linux tools Use PcapXray to perform timeline analysis of malware and network activity Implement the concept of cryptographic hashing

and imaging using Kali Linux Book Description Kali Linux is a Linux based distribution that s widely used for penetration testing and digital forensics It has a wide range of tools to help for digital forensics investigations and incident response mechanisms This updated second edition of Digital Forensics with Kali Linux covers the latest version of Kali Linux and The Sleuth Kit You ll get to grips with modern techniques for analysis extraction and reporting using advanced tools such as FTK Imager hex editor and Axiom Updated to cover digital forensics basics and advancements in the world of modern forensics this book will also delve into the domain of operating systems Progressing through the chapters you ll explore various formats for file storage including secret hiding places unseen by the end user or even the operating system The book will also show you how to create forensic images of data and maintain integrity using hashing tools Finally you ll cover advanced topics such as autopsies and acquiring investigation data from networks operating system memory and quantum cryptography By the end of this book you ll have gained hands on experience of implementing all the pillars of digital forensics acquisition extraction analysis and presentation all using Kali Linux tools What you will learn Get up and running with powerful Kali Linux tools for digital investigation and analysis Perform internet and memory forensics with Volatility and Xplico Understand filesystems storage and data fundamentals Become well versed with incident response procedures and best practices Perform ransomware analysis using labs involving actual ransomware Carry out network forensics and analysis using NetworkMiner and other tools Who this book is for This Kali Linux book is for forensics and digital investigators security analysts or anyone interested in learning digital forensics using Kali Linux Basic knowledge of Kali Linux will be helpful to gain a better understanding of the concepts covered **Cryptography and Cyber Security** Mr.Junath.N, Mr.A.U.Shabeer Ahamed,Dr. Anitha Selvaraj,Dr.A.Velayudham,Mrs.S.Sathya Priya,2024-07-10 Mr Junath N Senior Faculty Department of Information Technology College of Computing and Information Sciences University of Technology and Applied Sciences Sultanate of Oman Mr A U Shabeer Ahamed Assistant Professor Department of Computer Science Jamal Mohamed College Trichy Tamil Nadu India Dr Anitha Selvaraj Assistant Professor Department of Economics Lady Doak College Madurai Tamil Nadu India Dr A Velayudham Professor and Head Department of Computer Science and Engineering Jansons Institute of Technology Coimbatore Tamil Nadu India Mrs S Sathya Priya Assistant Professor Department of Information Technology K Ramakrishnan College of Engineering Samayapuram Tiruchirappalli Tamil Nadu India **Ethical Hacking** AMC College,2022-11-01 Ethical hackers aim to investigate the system or network for weak points that malicious hackers can exploit or destroy The purpose of ethical hacking is to evaluate the security of and identify vulnerabilities in target systems networks or system infrastructure The process entails finding and then attempting to exploit vulnerabilities to determine whether unauthorized access or other malicious activities are possible *Handbook of Research on Cyber Crime and Information Privacy* Cruz-Cunha, Maria Manuela,Mateus-Coelho, Nuno,2020-08-21 In recent years industries have transitioned into the digital realm as companies and organizations are adopting certain forms of technology

to assist in information storage and efficient methods of production This dependence has significantly increased the risk of cyber crime and breaches in data security Fortunately research in the area of cyber security and information protection is flourishing however it is the responsibility of industry professionals to keep pace with the current trends within this field The Handbook of Research on Cyber Crime and Information Privacy is a collection of innovative research on the modern methods of crime and misconduct within cyber space It presents novel solutions to securing and preserving digital information through practical examples and case studies While highlighting topics including virus detection surveillance technology and social networks this book is ideally designed for cybersecurity professionals researchers developers practitioners programmers computer scientists academicians security analysts educators and students seeking up to date research on advanced approaches and developments in cyber security and information protection Digital Forensics with Kali Linux Shiva V. N. Parasram,2023-04-14 Explore various digital forensics methodologies and frameworks and manage your cyber incidents effectively Purchase of the print or Kindle book includes a free PDF eBook Key FeaturesGain red blue and purple team tool insights and understand their link with digital forensicsPerform DFIR investigation and get familiarized with Autopsy 4Explore network discovery and forensics tools such as Nmap Wireshark Xplico and ShodanBook Description Kali Linux is a Linux based distribution that s widely used for penetration testing and digital forensics This third edition is updated with real world examples and detailed labs to help you take your investigation skills to the next level using powerful tools This new edition will help you explore modern techniques for analysis extraction and reporting using advanced tools such as FTK Imager Hex Editor and Axiom You ll cover the basics and advanced areas of digital forensics within the world of modern forensics while delving into the domain of operating systems As you advance through the chapters you ll explore various formats for file storage including secret hiding places unseen by the end user or even the operating system You ll also discover how to install Windows Emulator Autopsy 4 in Kali and how to use Nmap and NetDiscover to find device types and hosts on a network along with creating forensic images of data and maintaining integrity using hashing tools Finally you ll cover advanced topics such as autopsies and acquiring investigation data from networks memory and operating systems By the end of this digital forensics book you ll have gained hands on experience in implementing all the pillars of digital forensics acquisition extraction analysis and presentation all using Kali Linux s cutting edge tools What you will learnInstall Kali Linux on Raspberry Pi 4 and various other platformsRun Windows applications in Kali Linux using Windows Emulator as WineRecognize the importance of RAM file systems data and cache in DFIRPerform file recovery data carving and extraction using Magic RescueGet to grips with the latest Volatility 3 framework and analyze the memory dumpExplore the various ransomware types and discover artifacts for DFIR investigationPerform full DFIR automated analysis with Autopsy 4Become familiar with network forensic analysis tools NFATs Who this book is for This book is for students forensic analysts digital forensics investigators and incident responders security analysts and administrators penetration testers or anyone interested

in enhancing their forensics abilities using the latest version of Kali Linux along with powerful automated analysis tools Basic knowledge of operating systems computer components and installation processes will help you gain a better understanding of the concepts covered *Investigating the Cyber Breach* Joseph Muniz,Aamir Lakhani,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 *A Cybersecurity Guide 2025 in Hinglish* A. Khan, A Cybersecurity Guide 2025 in Hinglish Digital Duniya Ko Secure Karne Ki Complete Guide by A Khan ek beginner friendly aur practical focused kitab hai jo cyber threats ko samajhne aur unse bachne ke smart aur modern tareeke sikhati hai sab kuch easy Hinglish language mein **Digital Forensics and Incident Response** Deepanshu Khanna,2024-10-08 DESCRIPTION This book provides a detailed introduction to digital forensics covering core concepts principles and the role of various teams in incident response From data acquisition to advanced forensics techniques it equips readers with the skills to identify analyze and respond to security incidents effectively It guides readers in setting up a private lab using Kali Linux explores operating systems and storage devices and dives into hands on labs with tools like FTK Imager volatility and autopsy By

exploring industry standard frameworks like NIST SANS and MITRE ATT CK the book offers a structured approach to incident response Real world case studies and practical applications ensure readers can apply their knowledge immediately whether dealing with system breaches memory forensics or mobile device investigations helping solve cybercrimes and protect organizations This book is a must have resource for mastering investigations using the power of Kali Linux and is ideal for security analysts incident responders and digital forensic investigators KEY FEATURES Comprehensive guide to forensics using Kali Linux tools and frameworks Step by step incident response strategies for real world scenarios Hands on labs for analyzing systems memory based attacks mobile and cloud data investigations WHAT YOU WILL LEARN Conduct thorough digital forensics using Kali Linux s specialized tools Implement incident response frameworks like NIST SANS and MITRE ATT CK Perform memory registry and mobile device forensics with practical tools Acquire and preserve data from cloud mobile and virtual systems Design and implement effective incident response playbooks Analyze system and browser artifacts to track malicious activities WHO THIS BOOK IS FOR This book is aimed at cybersecurity professionals security analysts and incident responders who have a foundational understanding of digital forensics and incident response principles TABLE OF CONTENTS 1 Fundamentals of Digital Forensics 2 Setting up DFIR Lab Using Kali Linux 3 Digital Forensics Building Blocks 4 Incident Response and DFIR Frameworks 5 Data Acquisition and Artifacts Procurement 6 Digital Forensics on Operating System with Real world Examples 7 Mobile Device Forensics and Analysis 8 Network Forensics and Analysis 9 Autopsy Practical Demonstrations 10 Data Recovery Tools and Demonstrations 11 Digital Forensics Real world Case Studies and Reporting *Digital Forensics for Enterprises Beyond Kali Linux* Abhirup Guha,2025-05-26 DESCRIPTION Digital forensics is a key technology of the interconnected era allowing investigators to recover maintain and examine digital evidence of cybercrime With ever increasingly sophisticated digital threats the applications of digital forensics increase across industries aiding law enforcement business security and judicial processes This book provides a comprehensive overview of digital forensics covering its scope methods for examining digital evidence to resolve cybercrimes and its role in protecting enterprise assets and ensuring regulatory compliance It explores the field s evolution its broad scope across network mobile and cloud forensics and essential legal and ethical considerations The book also details the investigation process discusses various forensic tools and delves into specialized areas like network memory mobile and virtualization forensics It also highlights forensics cooperation with incident response teams touches on advanced techniques and addresses its application in industrial control systems ICS and the Internet of Things IoT Finally it covers establishing a forensic laboratory and offers career guidance After reading this book readers will have a balanced and practical grasp of the digital forensics space spanning from basic concepts to advanced areas such as IoT memory mobile and industrial control systems forensics With technical know how legal insights and hands on familiarity with industry leading tools and processes readers will be adequately equipped to carry out effective digital investigations make significant contributions to enterprise

security and progress confidently in their digital forensics careers WHAT YOU WILL LEARN Role of digital forensics in digital investigation Establish forensic labs and advance your digital forensics career path Strategize enterprise incident response and investigate insider threat scenarios Navigate legal frameworks chain of custody and privacy in investigations Investigate virtualized environments ICS and advanced anti forensic techniques Investigation of sophisticated modern cybercrimes WHO THIS BOOK IS FOR This book is ideal for digital forensics analysts cybersecurity professionals law enforcement authorities IT analysts and attorneys who want to gain in depth knowledge about digital forensics The book empowers readers with the technical legal and investigative skill sets necessary to contain and act against advanced cybercrimes in the contemporary digital world TABLE OF CONTENTS 1 Unveiling Digital Forensics 2 Role of Digital Forensics in Enterprises 3 Expanse of Digital Forensics 4 Tracing the Progression of Digital Forensics 5 Navigating Legal and Ethical Aspects of Digital Forensics 6 Unfolding the Digital Forensics Process 7 Beyond Kali Linux 8 Decoding Network Forensics 9 Demystifying Memory Forensics 10 Exploring Mobile Device Forensics 11 Deciphering Virtualization and Hypervisor Forensics 12 Integrating Incident Response with Digital Forensics 13 Advanced Tactics in Digital Forensics 14 Introduction to Digital Forensics in Industrial Control Systems 15 Venturing into IoT Forensics 16 Setting Up Digital Forensics Labs and Tools 17 Advancing Your Career in Digital Forensics 18 Industry Best Practices in Digital Forensics

Malware Forensics Field Guide for Linux Systems Eoghan Casey,Cameron H. Malin,James M. Aquilina,2013-12-07 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 **Advances in Visual Informatics** Halimah Badioze Zaman,Alan F. Smeaton,Timothy K. Shih,Sergio Velastin,Tada Terutoshi,Nazlena Mohamad Ali,Mohammad Nazir Ahmad,2019-11-12 This book constitutes the refereed proceedings of the

6th International Conference on Advances in Visual Informatics IVIC 2019 held in Bangi Malaysia in November 2019 The 65 papers presented were carefully reviewed and selected from 130 submissions The papers are organized into the following topics Visualization and Digital Innovation for Society 5 0 Engineering and Digital Innovation for Society 5 0 Cyber Security and Digital Innovation for Society 5 0 and Social Informatics and Application for Society 5 0 Linux Malware Incident Response: A Practitioner's Guide to Forensic Collection and Examination of Volatile Data Eoghan Casey,Cameron H. Malin,James M. Aquilina,2013-04-12 Linux Malware Incident Response is a first look at the Malware Forensics Field Guide for Linux Systems exhibiting the first steps in investigating Linux based incidents The Syngress Digital Forensics Field Guides series includes companions for any digital and computer forensic investigator and analyst Each book is a toolkit with checklists for specific tasks case studies of difficult situations and expert analyst tips This compendium of tools for computer forensics analysts and investigators is presented in a succinct outline format with cross references to supplemental appendices It is designed to provide the digital investigator clear and concise guidance in an easily accessible format for responding to an incident or conducting analysis in a lab Presented in a succinct outline format with cross references to included supplemental components and appendices Covers volatile data collection methodology as well as non volatile data collection from a live Linux system Addresses malware artifact discovery and extraction from a live Linux system

Principles of Computer Security: CompTIA Security+ and Beyond, Fifth Edition Wm. Arthur Conklin,Greg White,Chuck Cothren,Roger L. Davis,Dwayne Williams,2018-06-15 Fully updated computer security essentials quality approved by CompTIA Learn IT security fundamentals while getting complete coverage of the objectives for the latest release of CompTIA Security certification exam SY0 501 This thoroughly revised full color textbook discusses communication infrastructure operational security attack prevention disaster recovery computer forensics and much more Written by a pair of highly respected security educators Principles of Computer Security CompTIA Security and Beyond Fifth Edition Exam SY0 501 will help you pass the exam and become a CompTIA certified computer security expert 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 includes Test engine that provides full length practice exams and customized quizzes by chapter or exam objective 200 practice exam questions 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 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

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