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Similarity Based Large Scale Malware Analysis 2018 20th International Conference on Advanced Communication Technology (ICACT) 2019 21st International Conference on Advanced Communication Technology (ICACT) **Crypto Ransomware Analysis and Detection Using Process Monitor** National Audit Office. Department of Health; Investigation **Digital Forensics with Kali Linux** Cybersecurity Issues in Emerging Technologies Implementing Reverse Engineering **Advances in Networked-based Information Systems** Preventing Ransomware Digital Forensics and Incident Response **Research Exhibition in Mathematics and Computer Sciences (REMACS 5.0)** *Research in Intelligent and Computing in Engineering* **ECCWS 2020 20th European Conference on Cyber Warfare and Security** *Intelligent, Secure, and Dependable Systems in Distributed and Cloud Environments Cyber Security Practitioner's Guide* **Smart Intelligent Computing and Applications Learning Malware Analysis Understanding the Creeping Crisis** *Computational Intelligence: Theories, Applications and Future Directions - Volume II* **Malware Detection Advances in Computing and Data Sciences Machine Learning for Cyber Security** Emerging Research in Data Engineering Systems and Computer Communications *Science of Cyber Security* **Data Science and Analytics Windows Forensics Cookbook Practical**

Malware Analysis *Cybersecurity in the COVID-19 Pandemic* 2017 20th International Conference of Computer and Information Technology (ICCIT) **Ransomware Revolution: The Rise of a Prodigious Cyber Threat** Handbook of Research on Cybersecurity Issues and Challenges for Business and FinTech Applications **Handbook on Crime and Technology** Augmented Reality, Virtual Reality, and Computer Graphics **2021 8th International Conference on Future Internet of Things and Cloud (FiCloud) Cybersecurity Issues in Emerging Technologies** Ransomware: Practical Reverse Engineering **Cybersecurity for Smart Cities** *Mastering Monero* **The Modern Security Operations Center**

This book constitutes the refereed proceedings of the 4th International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2017, held in Gurgaon, India, in October 2017. The 66 revised full papers presented were carefully reviewed and selected from 329 submissions. The papers are organized in topical sections on big data analysis, data centric programming, next generation computing, social and web analytics, security in data science analytics. 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. Examining the consequences of technology-driven lifestyles for both crime commission and victimization, this comprehensive Handbook provides an overview of a broad array of techno-crimes as well as exploring critical issues concerning the criminal justice system’s response to technology-facilitated criminal activity. This open access book explores a special species of trouble afflicting

modern societies: creeping crises. These crises evolve over time, reveal themselves in different ways, and resist comprehensive responses despite periodic public attention. As a result, these crises continue to creep in front of our eyes. This book begins by defining the concept of a creeping crisis, showing how existing literature fails to properly define and explore this phenomenon and outlining the challenges such crises pose to practitioners. Drawing on ongoing research, this book presents a diverse set of case studies on: antimicrobial resistance, climate change-induced migration, energy extraction, big data, Covid-19, migration, foreign fighters, and cyberattacks. Each chapter explores how creeping crises come into existence, why they can develop unimpeded, and the consequences they bring in terms of damage and legitimacy loss. The book provides a proof-of-concept to help launch the systematic study of creeping crises. Our analysis helps academics understand a new species of threat and practitioners recognize and prepare for creeping crises. As the 2020 global lockdown became a universal strategy to control the COVID-19 pandemic, social distancing triggered a massive reliance on online and cyberspace alternatives and switched the world to the digital economy. Despite their effectiveness for remote work and online interactions, cyberspace alternatives ignited several Cybersecurity challenges. Malicious hackers capitalized on global anxiety and launched cyberattacks against unsuspecting victims. Internet fraudsters exploited human and system vulnerabilities and impacted data integrity, privacy, and digital behaviour. Cybersecurity in the COVID-19 Pandemic demystifies Cybersecurity concepts using real-world cybercrime incidents from the pandemic to illustrate how threat actors perpetrated computer fraud against valuable information assets particularly healthcare, financial, commercial, travel, academic, and social networking data. The book simplifies the socio-technical aspects of Cybersecurity and draws valuable lessons from the impacts COVID-19 cyberattacks exerted on computer networks,

online portals, and databases. The book also predicts the fusion of Cybersecurity into Artificial Intelligence and Big Data Analytics, the two emerging domains that will potentially dominate and redefine post-pandemic Cybersecurity research and innovations between 2021 and 2025. The book's primary audience is individual and corporate cyberspace consumers across all professions intending to update their Cybersecurity knowledge for detecting, preventing, responding to, and recovering from computer crimes. Cybersecurity in the COVID-19 Pandemic is ideal for information officers, data managers, business and risk administrators, technology scholars, Cybersecurity experts and researchers, and information technology practitioners. Readers will draw lessons for protecting their digital assets from email phishing fraud, social engineering scams, malware campaigns, and website hijacks. This book presents selected proceedings of ICCI-2017, discussing theories, applications and future directions in the field of computational intelligence (CI). ICCI-2017 brought together international researchers presenting innovative work on self-adaptive systems and methods. This volume covers the current state of the field and explores new, open research directions. The book serves as a guide for readers working to develop and validate real-time problems and related applications using computational intelligence. It focuses on systems that deal with raw data intelligently, generate qualitative information that improves decision-making, and behave as smart systems, making it a valuable resource for researchers and professionals alike. This two-volume set (CCIS 1045 and CCIS 1046) constitutes the refereed proceedings of the Third International Conference on Advances in Computing and Data Sciences, ICACDS 2019, held in Ghaziabad, India, in April 2019. The 112 full papers were carefully reviewed and selected from 621 submissions. The papers are centered around topics like advanced computing, data sciences, distributed systems organizing principles, development frameworks and environments, software verification and

validation, computational complexity and cryptography, machine learning theory, database theory, probabilistic representations. Maximize the power of Windows Forensics to perform highly effective forensic investigations About This Book Prepare and perform investigations using powerful tools for Windows, Collect and validate evidence from suspects and computers and uncover clues that are otherwise difficult Packed with powerful recipes to perform highly effective field investigations Who This Book Is For If you are a forensic analyst or incident response professional who wants to perform computer forensics investigations for the Windows platform and expand your took kit, then this book is for you. What You Will Learn Understand the challenges of acquiring evidence from Windows systems and overcome them Acquire and analyze Windows memory and drive data with modern forensic tools. Extract and analyze data from Windows file systems, shadow copies and the registry Understand the main Windows system artifacts and learn how to parse data from them using forensic tools See a forensic analysis of common web browsers, mailboxes, and instant messenger services Discover how Windows 10 differs from previous versions and how to overcome the specific challenges it presents Create a graphical timeline and visualize data, which can then be incorporated into the final report Troubleshoot issues that arise while performing Windows forensics In Detail Windows Forensics Cookbook provides recipes to overcome forensic challenges and helps you carry out effective investigations easily on a Windows platform. You will begin with a refresher on digital forensics and evidence acquisition, which will help you to understand the challenges faced while acquiring evidence from Windows systems. Next you will learn to acquire Windows memory data and analyze Windows systems with modern forensic tools. We also cover some more in-depth elements of forensic analysis, such as how to analyze data from Windows system artifacts, parse data from the most commonly-used web browsers and email services, and effectively report on

digital forensic investigations. You will see how Windows 10 is different from previous versions and how you can overcome the specific challenges it brings. Finally, you will learn to troubleshoot issues that arise while performing digital forensic investigations. By the end of the book, you will be able to carry out forensics investigations efficiently. Style and approach This practical guide filled with hands-on, actionable recipes to detect, capture, and recover digital artifacts and deliver impeccable forensic outcomes. With technically co sponsored by IEEE ComSoc(Communications Society), IEEE ComSoc CISTC(Communications & Information Security Technical Community), and IEEE ComSoc ONTC(Optical Networking Technical Community), the ICACT(International Conference on Advanced Communications Technology) Conference has been providing an open forum for scholars, researchers, and engineers to the extensive exchange of information on newly emerging technologies, standards, services, and applications in the area of the advanced communications technology The conference official language is English All the presented papers have been published in the Conference Proceedings, and posted on the ICACT Website and IEEE Xplore Digital Library since 2004 The honorable ICACT Out Standing Paper Award list has been posted on the IEEE Xplore Digital Library also, and all the Out Standing papers are subjected to the invited paper of the ICACT Transactions on the Advanced Communications Technology Journal issued by GIRI Ransomware is a faster growing threat that encrypts user's files and locks the computer and holds the key required to decrypt the files for ransom. Over the past few years, the impact of ransomware has increased exponentially. There have been several reported high profile ransomware attacks, such as CryptoLocker, CryptoWall, WannaCry, Petya and Bad Rabbit which have collectively cost individuals and companies well over a billion dollars according to FBI. As the threat of ransomware has become more prevalent, security companies and researchers have begun proposing new approaches for

detection and prevention of ransomware. However, these approaches generally lack dynamicity and are either prone to a high false positive rate, or they detect ransomware after some amount of data loss has occurred. This research represents a dynamic approach to ransomware analysis and is specifically developed to detect ransomware on the user's data. It starts by generating an artificial user environment using Cuckoo Sandbox and monitoring system behavior using Process Monitor to analyze ransomware in its early stages before it interacts with the user's files. By utilizing a Cuckoo sandbox with Process Monitor, I can generate a detailed report of system activities from which ransomware behavior is analyzed. This model also keeps a record of file access rates and other file-related details in order to track potentially malicious behavior. In this paper, I demonstrate the ability of the model to identify Ransomware by providing a training set that consist of known ransomware families and samples listed on VirusTotal. Ensuring cybersecurity for smart cities is crucial for a sustainable cyber ecosystem. Given the undeniable complexity of smart cities, fundamental issues such as device configurations and software updates should be addressed when it is most needed to fight cyber-crime and ensure data privacy. This book addresses the cybersecurity challenges associated with smart cities, aiming to provide a bigger picture of the concepts, intelligent techniques, practices and research directions in this area. Furthermore, this book serves as a single source of reference for acquiring knowledge on the technology, processes and people involved in the next-generation of cyber-smart cities. "Mastering Monero - The future of private transactions" is the newest resource to help you learn everything that you want to know about the cryptocurrency Monero. The book, available in electronic and physical form, provides the knowledge you need to participate in this exciting grassroots, open-source, decentralized, community-driven privacy project. Whether you are a novice or highly experienced, this book will teach you how to

start using and contributing to Monero. The resource introduces readers to the cryptocurrency world and then explains how Monero works, what technologies it uses, and how you can get started in this fantastic world! For technical people, there are some chapters that provide in-depth understanding of the Monero ecosystem. The Monero cryptocurrency is designed to address and avoid practical troubles that arise from using coins that do not protect your sensitive financial information. Cryptocurrencies have revolutionized the financial landscape by allowing anybody with an internet connection to instantly access secure, robust, censorship-free systems for receiving, storing, and sending funds. This paradigm shift was enabled by blockchain technology, by which thousands of participants store matching copies of a “public ledger”. While this brilliant approach overcomes many economic hurdles, it also gives rise to a few severe downsides. Marketing corporations, snooping governments, and curious family members can analyze the public ledger to monitor your savings or study your activities. Monero mitigates these issues with a suite of advanced privacy technologies that allow you to have the best of all worlds! Instead of a public ledger, Monero has a shared private ledger that allows you to reap the benefits of a blockchain-based cryptocurrency, while protecting your sensitive business from prying eyes. This book contains everything you need to know to start using Monero in your business or day-to-day life. What are you waiting for? Get your copy of Mastering Monero now! With technically co sponsored by IEEE ComSoc(Communications Society), IEEE ComSoc CISTC(Communications & Information Security Technical Community), and IEEE ComSoc ONTC(Optical Networking Technical Community), the ICACT(International Conference on Advanced Communications Technology) Conference has been providing an open forum for scholars, researchers, and engineers to the extensive exchange of information on newly emerging technologies, standards, services, and applications in the area of the

advanced communications technology The conference official language is English All the presented papers have been published in the Conference Proceedings, and posted on the ICACT Website and IEEE Xplore Digital Library since 2004 The honorable ICACT Out Standing Paper Award list has been posted on the IEEE Xplore Digital Library also, and all the Out Standing papers are subjected to the invited paper of the ICACT Transactions on the Advanced Communications Technology Journal issue by GIRI More practical less theory KEY FEATURES ● In-depth practical demonstration with multiple examples of reverse engineering concepts. ● Provides a step-by-step approach to reverse engineering, including assembly instructions. ● Helps security researchers to crack application code and logic using reverse engineering open source tools. ● Reverse engineering strategies for simple-to-complex applications like Wannacry ransomware and Windows calculator. DESCRIPTION The book 'Implementing Reverse Engineering' begins with a step-by-step explanation of the fundamentals of reverse engineering. You will learn how to use reverse engineering to find bugs and hacks in real-world applications. This book is divided into three sections. The first section is an exploration of the reverse engineering process. The second section explains reverse engineering of applications, and the third section is a collection of real-world use-cases with solutions. The first section introduces the basic concepts of a computing system and the data building blocks of the computing system. This section also includes open-source tools such as CFF Explorer, Ghidra, Cutter, and x32dbg. The second section goes over various reverse engineering practicals on various applications to give users hands-on experience. In the third section, reverse engineering of Wannacry ransomware, a well-known Windows application, and various exercises are demonstrated step by step. In a very detailed and step-by-step manner, you will practice and understand different assembly instructions, types of code calling conventions, assembly patterns of applications with the

printf function, pointers, array, structure, scanf, strcpy function, decision, and loop control structures. You will learn how to use open-source tools for reverse engineering such as portable executable editors, disassemblers, and debuggers. WHAT YOU WILL LEARN ● Understand different code calling conventions like CDECL, STDCALL, and FASTCALL with practical illustrations. ● Analyze and break WannaCry ransomware using Ghidra. ● Using Cutter, reconstruct application logic from the assembly code. ● Hack the Windows calculator to modify its behavior. WHO THIS BOOK IS FOR This book is for cybersecurity researchers, bug bounty hunters, software developers, software testers, and software quality assurance experts who want to perform reverse engineering for advanced security from attacks. Interested readers can also be from high schools or universities (with a Computer Science background). Basic programming knowledge is helpful but not required. TABLE OF CONTENTS 1. Impact of Reverse Engineering 2. Understanding Architecture of x86 machines 3. Up and Running with Reverse Engineering tools 4. Walkthrough on Assembly Instructions 5. Types of Code Calling Conventions 6. Reverse Engineering Pattern of Basic Code 7. Reverse Engineering Pattern of the printf() Program 8. Reverse Engineering Pattern of the Pointer Program 9. Reverse Engineering Pattern of the Decision Control Structure 10. Reverse Engineering Pattern of the Loop Control Structure 11. Array Code Pattern in Reverse Engineering 12. Structure Code Pattern in Reverse Engineering 13. Scanf Program Pattern in Reverse Engineering 14. strcpy Program Pattern in Reverse Engineering 15. Simple Interest Code Pattern in Reverse Engineering 16. Breaking Wannacry Ransomware with Reverse Engineering 17. Generate Pseudo Code from the Binary File 18. Fun with Windows Calculator Using Reverse Engineering The threat landscape is evolving with tremendous speed. We are facing an extremely fast-growing attack surface with a diversity of attack vectors, a clear asymmetry between attackers and defenders, billions of

connected IoT devices, mostly reactive detection and mitigation approaches, and finally big data challenges. The clear asymmetry of attacks and the enormous amount of data are additional arguments to make it necessary to rethink cybersecurity approaches in terms of reducing the attack surface, to make the attack surface dynamic, to automate the detection, risk assessment, and mitigation, and to investigate the prediction and prevention of attacks with the utilization of emerging technologies like blockchain, artificial intelligence and machine learning. This book contains eleven chapters dealing with different Cybersecurity Issues in Emerging Technologies. The issues that are discussed and analyzed include smart connected cars, unmanned ships, 5G/6G connectivity, blockchain, agile incident response, hardware assisted security, ransomware attacks, hybrid threats and cyber skills gap. Both theoretical analysis and experimental evaluation of state-of-the-art techniques are presented and discussed. Prospective readers can be benefitted in understanding the future implications of novel technologies and proposed security solutions and techniques. Graduate and postgraduate students, research scholars, academics, cybersecurity professionals, and business leaders will find this book useful, which is planned to enlighten both beginners and experienced readers. The 2-volume set LNCS 12242 and 12243 constitutes the refereed proceedings of the 7th International Conference on Augmented Reality, Virtual Reality, and Computer Graphics, AVR 2020, held in Lecce, Italy, in September 2020.* The 45 full papers and 14 short papers presented were carefully reviewed and selected from 99 submissions. The papers discuss key issues, approaches, ideas, open problems, innovative applications and trends in virtual reality, augmented reality, mixed reality, 3D reconstruction visualization, and applications in the areas of cultural heritage, medicine, education, and industry. * The conference was held virtually due to the COVID-19 pandemic. Algorithms Artificial intelligence Bioinformatics Bangla Language

Processing Cloud Computing Computer Vision Computer Graphics and Multimedia Computer Based Education Computer Networks Cyber security Data Communications Database Systems Digital Signal and Image Processing Embedded System and Software E commerce and E governance Fuzzy Systems Gaming Geospatial Information Systems Grid and Scalable Computing Human Computer Interaction Intelligent Information Systems Internet and Web Applications IT Policy and Business Management Knowledge and Data Engineering Mobile and Ubiquitous Computing Modeling and Simulation Neural Networks Optical Fiber Communication Pattern Recognition Parallel and Distributed Systems Quantum Computing Robotics Reliability Engineering Software Engineering Security and Information Assurance Spatial Information Systems System Security and control VLSI ULSI Wireless Communication The threat landscape is evolving with tremendous speed. We are facing an extremely fast-growing attack surface with a diversity of attack vectors, a clear asymmetry between attackers and defenders, billions of connected IoT devices, mostly reactive detection and mitigation approaches, and finally big data challenges. The clear asymmetry of attacks and the enormous amount of data are additional arguments to make it necessary to rethink cybersecurity approaches in terms of reducing the attack surface, to make the attack surface dynamic, to automate the detection, risk assessment, and mitigation, and to investigate the prediction and prevention of attacks with the utilization of emerging technologies like blockchain, artificial intelligence and machine learning. This book contains eleven chapters dealing with different Cybersecurity Issues in Emerging Technologies. The issues that are discussed and analyzed include smart connected cars, unmanned ships, 5G/6G connectivity, blockchain, agile incident response, hardware assisted security, ransomware attacks, hybrid threats and cyber skills gap. Both theoretical analysis and experimental evaluation of state-of-the-art techniques are presented and discussed. Prospective

readers can be benefitted in understanding the future implications of novel technologies and proposed security solutions and techniques. Graduate and postgraduate students, research scholars, academics, cybersecurity professionals, and business leaders will find this book useful, which is planned to enlighten both beginners and experienced readers. This book captures the state of the art research in the area of malicious code detection, prevention and mitigation. It contains cutting-edge behavior-based techniques to analyze and detect obfuscated malware. The book analyzes current trends in malware activity online, including botnets and malicious code for profit, and it proposes effective models for detection and prevention of attacks using. Furthermore, the book introduces novel techniques for creating services that protect their own integrity and safety, plus the data they manage. This book explores the genesis of ransomware and how the parallel emergence of encryption technologies has elevated ransomware to become the most prodigious cyber threat that enterprises are confronting. It also investigates the driving forces behind what has been dubbed the 'ransomware revolution' after a series of major attacks beginning in 2013, and how the advent of cryptocurrencies provided the catalyst for the development and increased profitability of ransomware, sparking a phenomenal rise in the number and complexity of ransomware attacks. This book analyzes why the speed of technology adoption has been a fundamental factor in the continued success of financially motivated cybercrime, and how the ease of public access to advanced encryption techniques has allowed malicious actors to continue to operate with increased anonymity across the internet. This anonymity has enabled increased collaboration between attackers, which has aided the development of new ransomware attacks, and led to an increasing level of technical complexity in ransomware attacks. This book highlights that the continuous expansion and early adoption of emerging technologies may be beyond the capacity of conventional risk managers and

risk management frameworks. Researchers and advanced level students studying or working in computer science, business or criminology will find this book useful as a reference or secondary text. Professionals working in cybersecurity, cryptography, information technology, financial crime (and other related topics) will also welcome this book as a reference. 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. 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. These proceedings represent the work of contributors to the 19th European Conference on Cyber Warfare and Security (ECCWS 2020), supported by University of Chester, UK on 25-26 June 2020. The Conference Co-chairs are Dr Thaddeus Eze and Dr Lee Speakman, both from University of Chester and the Programme Chair is Dr Cyril Onwubiko from IEEE and Director, Cyber Security Intelligence at Research Series Limited. ECCWS is a well-established event on the academic research calendar and now in its 19th year the key aim remains the opportunity for participants to share ideas and meet. The conference was due to be held at University of Chester, UK, but due to the global Covid-19 pandemic it was moved online to be held as a virtual event. The scope of papers will ensure an interesting conference. The subjects covered illustrate the wide range of topics that fall into this important and ever-growing area of research. This book shows how machine learning (ML) methods can be used to enhance cyber security operations, including detection, modeling, monitoring as well as defense against threats to sensitive data and security systems. Filling an important gap between ML and cyber security communities, it discusses topics covering a wide range of modern and practical ML techniques, frameworks and tools. Digital transformation in organizations optimizes the business processes but also brings additional challenges in the form of security threats and vulnerabilities. Cyberattacks incur financial losses for organizations and can affect their reputations. Due to this, cybersecurity has become critical for business enterprises. Extensive technological adoption in businesses and the evolution of FinTech applications require reasonable cybersecurity measures to protect organizations from internal and external security threats. Recent advances in the cybersecurity

domain such as zero trust architecture, application of machine learning, and quantum and post-quantum cryptography have colossal potential to secure technological infrastructures. The Handbook of Research on Cybersecurity Issues and Challenges for Business and FinTech Applications discusses theoretical foundations and empirical studies of cybersecurity implications in global digital transformation and considers cybersecurity challenges in diverse business areas. Covering essential topics such as artificial intelligence, social commerce, and data leakage, this reference work is ideal for cybersecurity professionals, business owners, managers, policymakers, researchers, scholars, academicians, practitioners, instructors, and students. This book gathers high-quality papers presented at the Third International Conference on Smart Computing and Informatics (SCI 2018–19), which was organized by the School of Computer Engineering and School of Computer Application, Kalinga Institute of Industrial Technology, Bhubaneswar, India, on 21–22 December, 2018. It includes advanced and multi-disciplinary research on the design of smart computing and informatics. Thematically, the book broadly focuses on several innovation paradigms in system knowledge, intelligence and sustainability that can help to provide realistic solutions to various problems confronting society, the environment, and industry. The respective papers offer valuable insights into the how emerging computational and knowledge transfer approaches can be used to deliver optimal solutions in science, technology and healthcare. This book comprises select peer-reviewed proceedings of the international conference on Research in Intelligent and Computing in Engineering (RICE 2020) held at Thu Dau Mot University, Vietnam. The volume primarily focuses on latest research and advances in various computing models such as centralized, distributed, cluster, grid, and cloud computing. Practical examples and real-life applications of wireless sensor networks, mobile ad hoc networks, and internet of things, data mining and machine learning are also

covered in the book. The contents aim to enable researchers and professionals to tackle the rapidly growing needs of network applications and the various complexities associated with them. A collection of abstracts from the final year students of College of Computing, Informatics and Media, Universiti Teknologi MARA, Perlis Branch, Malaysia. The aim of this book is to showcase the diversity and depth of final year project research in Mathematics and Computer Sciences. 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. Malware analysis and detection continues to be one of the central battlefields for cybersecurity industry. For the desktop malware domain, we observed multiple significant ransomware attacks in the past several years, e.g., it was estimated that in 2017 the WannaCry ransomware attack affected more than 200,000 computers across 150 countries with hundreds of millions damages. Similarly, we witnessed the increased impacts of Android malware on global individuals due to the popular smartphone and IoT devices worldwide. In this dissertation, we describe similarity comparison based novel techniques that can be applied to achieve large scale desktop and Android malware analysis, and the practical implications of machine learning based approaches for malware detection. This book constitutes the proceedings of the Second International Conference on Science of Cyber Security, SciSec 2019, held in Nanjing, China, in August 2019. The 20 full papers and 8 short papers presented in this volume were carefully reviewed and selected from 62 submissions. These papers cover the following subjects: Artificial Intelligence for Cybersecurity, Machine Learning for Cybersecurity, and Mechanisms for Solving Actual Cybersecurity Problems (e.g., Blockchain, Attack and Defense; Encryptions with

Cybersecurity Applications). This book gathers selected papers presented at the 2nd International Conference on Computing, Communications and Data Engineering, held at Sri Padmavati Mahila Visvavidyalayam, Tirupati, India from 1 to 2 Feb 2019. Chiefly discussing major issues and challenges in data engineering systems and computer communications, the topics covered include wireless systems and IoT, machine learning, optimization, control, statistics, and social computing. In an era of unprecedented volatile political and economic environments across the world, computer-based cyber security systems face ever growing challenges. While the internet has created a global platform for the exchange of ideas, goods and services, it has also created boundless opportunities for cyber crime. The debate over how to plan for the cyber security of the future has focused the minds of developers and scientists alike. This book aims to provide a reference on current and emerging issues on systems security from the lens of autonomy, artificial intelligence and ethics as the race to fight and prevent cyber crime becomes increasingly pressing. The Internet of Things (IoT) vision is to provide a dynamic and global network infrastructure which is characterized by intelligent and self configuring capabilities It is based on interoperable communication protocols in order to enable the interaction and integration of virtual as well as physical Things IoT is generally characterized by real world and small Things, limited capacity, and constrained devices Cloud computing on the other hand deals mainly with virtual world and has unlimited capabilities in terms of storage and processing power Thus cloud and IoT are the main complementary aspects of the future Internet IoT can benefit from the unlimited capabilities and resources of cloud computing Similarly, cloud can benefit from IoT by extending its scope to deal with real world things in a more distributed and dynamic manner The theme of this conference is to promote the state of the art in scientific and practical research of the IoT and cloud computing The Industry Standard, Vendor-

Neutral Guide to Managing SOCs and Delivering SOC Services This completely new, vendor-neutral guide brings together all the knowledge you need to build, maintain, and operate a modern Security Operations Center (SOC) and deliver security services as efficiently and cost-effectively as possible. Leading security architect Joseph Muniz helps you assess current capabilities, align your SOC to your business, and plan a new SOC or evolve an existing one. He covers people, process, and technology; explores each key service handled by mature SOCs; and offers expert guidance for managing risk, vulnerabilities, and compliance. Throughout, hands-on examples show how advanced red and blue teams execute and defend against real-world exploits using tools like Kali Linux and Ansible. Muniz concludes by previewing the future of SOCs, including Secure Access Service Edge (SASE) cloud technologies and increasingly sophisticated automation. This guide will be indispensable for everyone responsible for delivering security services—managers and cybersecurity professionals alike. * Address core business and operational requirements, including sponsorship, management, policies, procedures, workspaces, staffing, and technology * Identify, recruit, interview, onboard, and grow an outstanding SOC team * Thoughtfully decide what to outsource and what to insource * Collect, centralize, and use both internal data and external threat intelligence * Quickly and efficiently hunt threats, respond to incidents, and investigate artifacts * Reduce future risk by improving incident recovery and vulnerability management * Apply orchestration and automation effectively, without just throwing money at them * Position yourself today for emerging SOC technologies This book constitutes the refereed proceedings of the First International Conference on Intelligent, Secure, and Dependable Systems in Distributed and Cloud Environments, ISDDC 2017, held in Vancouver, BC, Canada, in October 2017.The 12 full papers presented together with 1 short paper were carefully reviewed and selected from 43 submissions. This book also

contains 3 keynote talks and 2 tutorials. The contributions included in this proceedings cover many aspects of theory and application of effective and efficient paradigms, approaches, and tools for building, maintaining, and managing secure and dependable systems and infrastructures, such as botnet detection, secure cloud computing and cryptosystems, IoT security, sensor and social network security, behavioral systems and data science, and mobile computing. Your one-stop guide to know digital extortion and it's prevention. Key Features A complete guide to how ransomware works Build a security mechanism to prevent digital extortion. A practical approach to knowing about, and responding to, ransomware. Book Description Ransomware has turned out to be the most aggressive malware and has affected numerous organizations in the recent past. The current need is to have a defensive mechanism in place for workstations and servers under one organization. This book starts by explaining the basics of malware, specifically ransomware. The book provides some quick tips on malware analysis and how you can identify different kinds of malware. We will also take a look at different types of ransomware, and how it reaches your system, spreads in your organization, and hijacks your computer. We will then move on to how the ransom is paid and the negative effects of doing so. You will learn how to respond quickly to ransomware attacks and how to protect yourself. The book gives a brief overview of the internals of security software and Windows features that can be helpful in ransomware prevention for administrators. You will also look at practical use cases in each stage of the ransomware phenomenon. The book talks in detail about the latest ransomware attacks involving WannaCry, Petya, and BadRabbit. By the end of this book, you will have end-to-end knowledge of the trending malware in the tech industry at present. What you will learn Understand malware types and malware techniques with examples Obtain a quick malware analysis Understand ransomware techniques, their distribution, and their payment

mechanism Case studies of famous ransomware attacks Discover detection technologies for complex malware and ransomware Configure security software to protect against ransomware Handle ransomware infections Who this book is for This book is targeted towards security administrator, security analysts, or any stakeholders in the security sector who want to learn about the most trending malware in the current market: ransomware. This book focuses on the emerging areas of information networking and its applications, presenting the latest innovative research and development techniques from both theoretical and practical perspectives. Today’s networks and information systems are evolving rapidly, and there are new trends and applications in information networking, such as wireless sensor networks, ad hoc networks, peer-to-peer systems, vehicular networks, opportunistic networks, grid and cloud computing, pervasive and ubiquitous computing, multimedia systems, security, multi-agent systems, high-speed networks, and web-based systems. However, since these networks need to be capable of managing the increasing number of users, provide support for different services, guarantee the QoS, and optimize the network resources, a number of research issues and challenges have to be considered in order to provide solutions.

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