Managing Security Operations Detection Response Sans

Yeah, reviewing a books **Managing Security Operations Detection Response Sans** could be credited with your near associates listings. This is just one of the solutions for you to be successful. As understood, feat does not recommend that you have wonderful points.

Comprehending as well as conformity even more than other will come up with the money for each success. bordering to, the statement as skillfully as perspicacity of this Managing Security Operations Detection Response Sans can be taken as well as picked to act.

GCIH GIAC Certified Incident Handler All-in-One Exam Guide - Nick Mitropoulos 2020-08-21

This self-study guide delivers complete coverage of every topic on the GIAC Certified Incident Handler exam Prepare for the challenging GIAC Certified Incident Handler exam using the detailed information contained in this effective exam preparation guide. Written by a recognized cybersecurity expert and seasoned author, GCIH GIAC Certified Incident Handler All-in-One Exam Guide clearly explains all of the advanced security incident handling skills covered on the test. Detailed examples and chapter summaries throughout demonstrate real-world threats and aid in retention. You will get online access to 300 practice questions that match those on the live test in style, format, and tone. Designed to help you prepare for the exam, this resource also serves as an ideal on-the-job reference. Covers all exam topics, including: Intrusion analysis and incident handling Information gathering Scanning, enumeration, and vulnerability identification Vulnerability exploitation Infrastructure and endpoint attacks Network, DoS, and Web application attacks Maintaining access Evading detection and covering tracks Worms, bots, and botnets Online content includes: 300 practice exam questions Test engine that provides full-length practice exams and customizable quizzes

Microsoft Security Operations Analyst Exam Ref SC-200 Certification Guide - Trevor Stuart 2022-03-16

Remediate active attacks to reduce risk to the organization by investigating, hunting, and responding to threats using Microsoft Sentinel, Microsoft Defender for Cloud, and Microsoft 365 Defender Key FeaturesDetect, protect, investigate, and remediate threats using Microsoft Defender for endpointExplore multiple tools using the M365 Defender Security CenterGet ready to overcome real-world challenges as you prepare to take the SC-200 examBook Description Security in information technology has always been a topic of discussion, one that comes with various backgrounds, tools, responsibilities, education, and change! The SC-200 exam comprises a wide range of topics that introduce Microsoft technologies and general operations for security analysts in enterprises. This book is a comprehensive guide that covers the usefulness and applicability of Microsoft Security Stack in the daily activities of an enterprise security operations analyst. Starting with a quick overview of what it takes to prepare for the exam, you'll understand how to implement the learning in real-world scenarios. You'll learn to use Microsoft's security stack, including Microsoft 365 Defender, and Microsoft Sentinel, to detect, protect, and respond to adversary threats in your enterprise. This book will take you from legacy on-premises SOC and DFIR tools to leveraging all aspects of the M365 Defender suite as a modern replacement in a more effective and efficient way. By the end of this book, you'll have learned how to plan, deploy, and operationalize Microsoft's security stack in your enterprise and gained the confidence to pass the SC-200 exam. What you will learnDiscover how to secure information technology systems for your organizationManage cross-domain investigations in the Microsoft 365 Defender portalPlan and implement the use of data connectors in Microsoft Defender for CloudGet to grips with designing and configuring a Microsoft Sentinel workspaceConfigure SOAR (security orchestration, automation, and response) in Microsoft SentinelFind out how to use Microsoft Sentinel workbooks to analyze and interpret dataSolve mock tests at the end of the book to test your knowledgeWho this book is for This book is for security professionals, cloud security engineers, and security analysts who want to learn and explore Microsoft Security Stack. Anyone looking to take the SC-200 exam will also find this guide useful. A basic understanding of Microsoft technologies and security concepts will be beneficial.

Security Log Management - Jacob Babbin 2006-01-27

This book teaches IT professionals how to analyze, manage, and automate their security log files to generate useful, repeatable information that can be use to make their networks more efficient and secure using primarily open source tools. The book begins by discussing the "Top 10 security logs that every IT professional should be regularly analyzing. These 10 logs cover everything from the top workstations sending/receiving data through a firewall to the top targets of IDS alerts. The book then goes on to discuss the relevancy of all of this information. Next, the book describes how to script open source reporting tools like Tcpdstats to automatically correlate log files from the various network devices to the "Top 10 list. By doing so, the IT professional is instantly made aware of any critical vulnerabilities or serious degradation of network performance. All of the scripts presented within the book will be available for download from the Syngress Solutions Web site. Almost every operating system, firewall, router, switch, intrusion detection system, mail server, Web server, and database produces some type of "log file. This is true of both open source tools and commercial software and hardware from every IT manufacturer. Each of these logs is reviewed and analyzed by a system administrator or security professional responsible for that particular piece of hardware or software. As a result, almost everyone involved in the IT industry works with log files in some capacity. * Provides turn-key, inexpensive, open source solutions for system administrators to analyze and evaluate the overall performance and security of their network * Dozens of working scripts and tools presented throughout the book are available for download from Syngress Solutions Web site. * Will save system administrators countless hours by scripting and automating the most common to the most complex log analysis tasks

CISSP Training Guide - Roberta Bragg 2002

The CISSP (Certified Information Systems Security Professionals) exam is a six-hour, monitored paper-based exam covering 10 domains of information system security knowledge, each representing a specific area of expertise. This book maps the exam objectives and offers numerous features such as exam tips, case studies, and practice exams.

Information Security - Ali Ismail Awad 2018

The book has two parts and contains fifteen chapters. First part discussed the theories and foundations of information security. Second part covers the technologies and application of security.

Security Operations Center - Joseph Muniz 2015-11-02

Security Operations Center Building, Operating, and Maintaining Your SOC The complete, practical guide to planning, building, and operating an effective Security Operations Center (SOC) Security Operations Center is the complete guide to building, operating, and managing Security Operations Centers in any environment. Drawing on experience with hundreds of customers ranging from Fortune 500 enterprises to large military organizations, three leading experts thoroughly review each SOC model, including virtual SOCs. You'll learn how to select the right strategic option for your organization, and then plan and execute the strategy you've chosen. Security Operations Center walks you through every phase required to establish and run an effective SOC, including all significant people, process, and technology capabilities. The authors assess SOC technologies, strategy, infrastructure, governance, planning, implementation, and more. They take a holistic approach considering various commercial and open-source tools found in modern SOCs. This best-practice guide is written for anybody interested in learning how to develop, manage, or improve a SOC. A background in network security, management, and operations will be helpful but is not required. It is also an indispensable resource for anyone preparing for the Cisco SCYBER exam. • Review high-level issues, such as vulnerability and risk management, threat intelligence, digital investigation, and data collection/analysis • Understand the technical components of a modern SOC • Assess the current state of your SOC and identify areas of improvement • Plan SOC strategy, mission, functions, and services • Design and build out SOC infrastructure, from facilities and networks to systems, storage, and physical security • Collect and successfully analyze security data • Establish an effective vulnerability management practice • Organize incident response teams and measure their performance • Define an optimal governance and staffing model • Develop a practical SOC handbook that people can actually use • Prepare SOC to go live, with comprehensive transition plans • React quickly and collaboratively to security incidents • Implement best practice security operations, including continuous enhancement and improvement

The Effective Incident Response Team - Julie Lucas 2004

The Effective Incident Response Team is the first complete guide to forming and managing a Computer Incident Response Team (CIRT). In this book, system and network administrators and managers will find comprehensive information on establishing a CIRT's focus and scope, complete with organizational and workflow strategies for maximizing available technical resources. The text is also a resource for working teams, and has many examples of day-to-day team operations, communications, forms, and legal references.

Information Security Handbook - Darren Death 2017-12-08

Implement information security effectively as per your organization's needs. About This Book Learn to build your own information security framework, the best fit for your organization Build on the concepts of threat modeling, incidence response, and security analysis Practical use cases and best practices for information security Who This Book Is For This book is for security analysts and professionals who deal with security mechanisms in an organization. If you are looking for an end to end guide on information security and risk analysis with no prior knowledge of this domain, then this book is for you. What You Will Learn Develop your own information security framework Build your incident response mechanism Discover cloud security considerations Get to know the system development life cycle Get your security operation center up and running Know the various security testing types Balance security as per your business needs Implement information security best practices In Detail Having an information security mechanism is one of the most crucial factors for any organization. Important assets of organization demand a proper risk management and threat model for security, and so information security concepts are gaining a lot of traction. This book starts with the concept of information security and shows you why it's important. It then moves on to modules such as threat modeling, risk management, and mitigation. It also covers the concepts of incident response systems, information rights management, and more. Moving on, it guides you to build your own information security framework as the best fit for your

organization. Toward the end, you'll discover some best practices that can be implemented to make your security framework strong. By the end of this book, you will be well-versed with all the factors involved in information security, which will help you build a security framework that is a perfect fit your organization's requirements. Style and approach This book takes a practical approach, walking you through information security fundamentals, along with information security best practices.

Incident Response in the Age of Cloud - Dr. Erdal Ozkaya 2021-02-26

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.

Rational Cybersecurity for Business - Dan Blum 2020-06-27

Use the guidance in this comprehensive field guide to gain the support of your top executives for aligning a rational cybersecurity plan with your business. You will learn how to improve working relationships with stakeholders in complex digital businesses, IT, and development environments. You will know how to prioritize your security program, and motivate and retain your team. Misalignment between security and your business can start at the top at the C-suite or happen at the line of business, IT, development, or user level. It has a corrosive effect on any security project it touches. But it does not have to be like this. Author Dan Blum presents valuable lessons learned from interviews with over 70 security and business leaders. You will discover how to successfully solve issues related to: risk management, operational security, privacy protection, hybrid cloud management, security culture and user awareness, and communication challenges. This book presents six priority areas to focus on to maximize the effectiveness of your cybersecurity program: risk management, control baseline, security culture, IT rationalization, access control, and cyber-resilience. Common challenges and good practices are provided for businesses of different types and sizes. And more than 50 specific keys to alignment are included. What You Will Learn Improve your security culture: clarify security-related roles, communicate effectively to businesspeople, and hire, motivate, or retain outstanding security staff by creating a sense of efficacy Develop a consistent accountability model, information risk taxonomy, and risk management framework Adopt a security and risk governance model consistent with your business structure or culture, manage policy, and optimize security budgeting within the larger business unit and CIO organization IT spend Tailor a control baseline to your organization's maturity level, regulatory requirements, scale, circumstances, and critical assets Help CIOs, Chief Digital Officers, and other executives to develop an IT strategy for curating cloud solutions and reducing shadow IT, building up DevSecOps and Disciplined Agile, and more Balance access control and accountability approaches, leverage modern digital identity standards to improve digital relationships, and provide data governance and privacy-enhancing capabilities Plan for cyber-resilience: work with the SOC, IT, business groups, and external sources to coordinate incident response and to recover from outages and come back stronger Integrate your learnings from this book into a quick-hitting rational cybersecurity success plan Who This Book Is For Chief Information Security Officers (CISOs) and other heads of security, security directors and managers, security architects and project leads, and other team members providing security leadership to your business

Cybersecurity Incident Response - Eric C. Thompson 2018-09-20

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

The Computer Incident Response Planning Handbook: Executable Plans for Protecting Information at Risk - N.K. McCarthy 2012-08-07

Based on proven, rock-solid computer incident response plans The Computer Incident Response Planning Handbook is derived from real-world incident response plans that work and have survived audits and repeated execution during data breaches and due diligence. The book provides an overview of attack and breach types, strategies for assessing an organization, types of plans, and case examples. Tips for keeping data contained, reputations defended, and recognizing and handling the magnitude of any given threat are included. The Computer Incident Response Planning Handbook Contains ready-to-implement incident response plans with guidelines for ongoing due diligence, all based on actual, working, and tested CIRPs Prepares you to immediately build a CIRP for any organization, and keep that plan maintained Explains all the essentials involved in developing both data breach and malware outbreak CIRPs derived from tested incident response plans that have survived the rigors of repeated execution 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 like PCI, HIPAA, SOX, CA SB-1386 All plans derived from the book are technology-agnostic Provides supplementary reading to professionals studying for the CERT Certified Computer Security Incident Handler exam or the SANS/GIAC Certified Incident Handler exam (GCIH) In-depth coverage: The Latest Cyber Attacks and How They Are Business Killers; The Nebulous Standard of Cyber Due Diligence &. The New Era of Information Risk; Introduction to Planning & Crisis; A Plan is Preparation Manifested; Getting More Out of Your Plans; Developing a Data Breach CIRP – Incident Preparation, Plan Execution, and Post-incident Planning; Developing a Malware Outbreak CIRP – Incident Preparation, Plan Execution, and Post-incident Planning; References

CASP+ CompTIA Advanced Security Practitioner Study Guide - Jeff T. Parker 2021-10-19

Prepare to succeed in your new cybersecurity career with the challenging and sought-after CASP+ credential In the newly updated Fourth Edition of CASP+ CompTIA Advanced Security Practitioner Study Guide Exam CAS-004, risk management and compliance expert Jeff Parker walks you through critical security topics and hands-on labs designed to prepare you for the new CompTIA Advanced Security Professional exam and a career in cybersecurity implementation. Content and chapter structure of this Fourth edition was developed and restructured to represent the CAS-004 Exam Objectives. From operations and architecture concepts, techniques and requirements to risk analysis, mobile and small-form factor device security, secure cloud integration, and cryptography, you'll learn the cybersecurity technical skills you'll need to succeed on the new CAS-004 exam, impress interviewers during your job search, and excel in your new career in cybersecurity implementation. This comprehensive book offers: Efficient preparation for a challenging and rewarding career in implementing specific solutions within cybersecurity policies and frameworks A robust grounding in the technical skills you'll need to impress during cybersecurity interviews Content delivered through scenarios, a strong focus of the CAS-004 Exam Access to an interactive online test bank and study tools, including bonus practice exam questions, electronic flashcards, and a searchable glossary of key terms Perfect for anyone preparing for the CASP+ (CAS-004) exam and a new career in cybersecurity, CASP+ CompTIA Advanced Security Practitioner Study Guide Exam CAS-004 is also an ideal resource for current IT professionals wanting to promote their cybersecurity skills or prepare for a career transition into enterprise cybersecurity.

The Official CompTIA Security+ Self-Paced Study Guide (Exam SY0-601) - CompTIA 2020-11-12

CompTIA Security+ Study Guide (Exam SY0-601)

Intelligence-Driven Incident Response - Scott J Roberts 2017-08-21

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

Ten Strategies of a World-Class Cybersecurity Operations Center - Carson Zimmerman 2014-07-01

Ten Strategies of a World-Class Cyber Security Operations Center conveys MITRE's accumulated expertise on enterprise-grade computer network defense. It covers ten key qualities of leading Cyber Security Operations Centers (CSOCs), ranging from their structure and organization, to processes that best enable smooth operations, to approaches that extract maximum value from key CSOC technology investments. This book offers perspective and context for key decision points in structuring a CSOC, such as what capabilities to offer, how to architect large-scale data collection and analysis, and how to prepare the CSOC team for agile, threat-based response. If you manage, work in, or are standing up a CSOC, this book is for you. It is also available on MITRE's website, www.mitre.org.

Computerworld - 2000-02-21

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

Principles of Incident Response and Disaster Recovery - Michael E. Whitman 2021-01-01

Learn how to identify vulnerabilities within computer networks and implement countermeasures that mitigate risks and damage with Whitman/Mattord's PRINCIPLES OF INCIDENT RESPONSE & DISASTER RECOVERY, 3rd Edition. This edition offers the knowledge you need to help organizations prepare for and avert system interruptions and natural disasters. Comprehensive coverage addresses information security and IT in contingency planning today. Updated content focuses on incident response and disaster recovery. You examine the complexities of organizational readiness from an IT and business perspective with emphasis on management practices and policy requirements. You review industry's best practices for minimizing downtime in emergencies and curbing losses during and after system service interruptions. This edition includes the latest NIST knowledge, expanded coverage of security information and event management (SIEM) and unified threat management, and more explanation of cloud-based systems and Web-accessible tools to prepare you for success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Logging and Log Management - Anton Chuvakin 2012-12-31

Logging and Log Management: The Authoritative Guide to Understanding the Concepts Surrounding Logging and Log Management introduces information technology professionals to the basic concepts of logging and log management. It provides tools and techniques to analyze log data and detect malicious activity. The book consists of 22 chapters that cover the basics of log data; log data sources; log storage technologies; a case study on how syslog-ng is deployed in a real environment for log collection; covert logging; planning and preparing for the analysis log data; simple analysis techniques; and tools and techniques for reviewing logs for potential problems. The book also discusses statistical analysis; log data mining; visualizing log data; logging laws and logging mistakes; open source and commercial toolsets for log data collection and analysis; log management procedures; and attacks against logging systems. In addition, the book addresses logging for programmers; logging and compliance with regulations and policies; planning for log analysis system deployment; cloud logging; and the future of log standards, logging, and log analysis. This book was written for anyone interested in learning more about logging and log management. These include systems administrators, junior security engineers, application developers, and managers. Comprehensive coverage of log management including analysis, visualization, reporting and more Includes information on different uses for logs -- from system operations to regulatory compliance Features case Studies on syslog-ng and actual real-world situations where logs came in handy in incident response Provides practical guidance in the areas of report, log analysis system selection, planning a log analysis system and log data normalization and correlation

Purple Team Strategies - David Routin 2022-06-24

Leverage cyber threat intelligence and the MITRE framework to enhance your prevention mechanisms, detection capabilities, and learn top adversarial simulation and emulation techniques Key Features • Apply real-world strategies to strengthen the capabilities of your organization's security system • Learn to not only defend your system but also think from an attacker's perspective • Ensure the ultimate effectiveness of an organization's red and blue teams with practical tips Book Description With small to large companies focusing on hardening their security systems, the term "purple team" has gained a lot of traction over the last couple of years. Purple teams represent a group of individuals responsible for securing an organization's environment using both red team and blue team testing and integration – if you're ready to join or advance their ranks, then this book is for you. Purple Team Strategies will get you up and running with the exact strategies and techniques used by purple teamers to implement and then maintain a robust environment. You'll start with planning and prioritizing adversary emulation, and explore concepts around building a purple team infrastructure as well as simulating and defending against the most trendy ATT&CK tactics. You'll also dive into performing assessments and continuous testing with breach and attack simulations. Once you've covered the fundamentals, you'll also learn tips and tricks to improve the overall maturity of your purple teaming capabilities along with measuring success with KPIs and reporting. With the help of real-world use cases and examples, by the end of this book, you'll be able to integrate the best of both sides: red team tactics and blue team security measures. What you will learn • Learn and implement the generic purple teaming process • Use cloud environments for assessment and automation • Integrate cyber threat intelligence as a process • Configure traps inside the network to detect attackers • Improve red and blue team collaboration with existing and new tools • Perform assessments of your existing security controls Who this book is for If you're a cybersecurity analyst, SOC engineer, security leader or strategist, or simply interested in learning about cyber attack and defense strategies, then this book is for you. Purple team members and chief information security officers (CISOs) looking at securing their organizations from adversaries will also benefit from this book. You'll need some basic knowledge of Windows and Linux operating systems along with a fair understanding of networking concepts before you can jump in, while ethical hacking and penetration testing know-how will help you get the most out of this book.

Windows Forensic Analysis DVD Toolkit - Harlan Carvey 2018-04-22

Windows Forensic Analysis DVD Toolkit, 2nd Edition, is a completely updated and expanded version of Harlan Carvey's best-selling forensics book on incident response and investigating cybercrime on Windows systems. With this book, you will learn how to analyze data during live and post-mortem investigations. New to this edition is Forensic Analysis on a Budget, which collects freely available tools that are essential for small labs, state (or below) law enforcement, and educational organizations. The book also includes new pedagogical elements, Lessons from the Field, Case Studies, and War Stories that present real-life experiences by an expert in the trenches, making the material real and showing the why behind the how. The companion DVD contains significant, and unique, materials (movies, spreadsheet, code, etc.) not available anyplace else because they were created by the author. This book will appeal to digital forensic investigators, IT security professionals, engineers, and system administrators as well as students and consultants. Best-Selling Windows Digital Forensic book completely updated in this 2nd Edition Learn how to Analyze Data During Live and Post-Mortem Investigations DVD Includes Custom Tools, Updated Code, Movies, and Spreadsheets!

Agile Security Operations - Hinne Hettema 2022-02-17

Get to grips with security operations through incident response, the ATT&CK framework, active defense, and agile threat intelligence Key FeaturesExplore robust and predictable security operations based on measurable service performanceLearn how to improve the security posture and work on security auditsDiscover ways to integrate agile security operations into development and operationsBook Description Agile security operations allow organizations to survive cybersecurity incidents, deliver key insights into the security posture of an organization, and operate security as an integral part of development and operations. It is, deep down, how security has always operated at its best. Agile Security Operations will teach you how to implement and operate an agile security operations model in your organization. The book focuses on the culture, staffing, technology, strategy, and tactical aspects of security operations. You'll learn how to establish and build a team and transform your existing team into one that can execute agile security operations. As you progress through the chapters, you'll be able to improve your understanding of some of the key concepts of security, align operations with the rest of the business, streamline your operations, learn how to report to senior levels in the organization, and acquire funding. By the end of this Agile book, you'll be ready to start implementing agile security operations, using the book as a handy reference. What you will learnGet acquainted with the changing landscape of security operationsUnderstand how to sense an attacker's motives and capabilitiesGrasp key concepts of the kill chain, the ATT&CK framework, and the Cynefin frameworkGet to grips with designing and developing a defensible security architectureExplore detection and response engineeringOvercome challenges in measuring the security postureDerive and communicate business values through security operationsDiscover ways to implement security as part of development and business operationsWho this book is for This book is for new and established CSOC managers as well as CISO, CDO, and CIO-level decision-makers. If you work as a cybersecurity engineer or analyst, you'll find this book useful. Intermediate-level knowledge of incident response, cybersecurity, and threat intelligence is necessary to get started with the book.

Research Anthology on Business Aspects of Cybersecurity - Information Resources Management Association 2021-09-13

"This reference book considers all emerging aspects of cybersecurity in the business sector including frameworks, models, best practices, and emerging areas of interest, discussing items such as audits and risk assessments that businesses can conduct to ensure the security of their systems, training and awareness initiatives for staff that promotes a security culture and software and systems that can be used to secure and manage cybersecurity threats"--

Threat Mitigation and Detection of Cyber Warfare and Terrorism Activities - Korstanje, Maximiliano E. 2016-11-22

Technology provides numerous opportunities for positive developments in modern society; however, these venues inevitably increase vulnerability to threats in online environments. Addressing issues of security in the cyber realm is increasingly relevant and critical to society. Threat Mitigation and Detection of Cyber Warfare and Terrorism Activities is a comprehensive reference source for the latest scholarly perspectives on countermeasures and related methods to enhance security and protection against criminal activities online. Highlighting a range of topics relevant to secure computing, such as parameter tampering, surveillance and control, and digital protests, this book is ideally designed for academics, researchers, graduate students, professionals, and practitioners actively involved in the expanding field of cyber security.

Python for Offensive PenTest - Hussam Khrais 2018-04-26

Your one-stop guide to using Python, creating your own hacking tools, and making the most out of resources available for this programming language Key Features Comprehensive information on building a web application penetration testing framework using Python Master web application penetration testing using the multi-paradigm programming language Python Detect vulnerabilities in a system or application by writing your own Python scripts Book Description Python is an easy-to-learn and cross-platform programming language that has unlimited third-party libraries. Plenty of open source hacking tools are written in Python, which can be easily integrated within your script. This book is packed with step-by-step instructions and working examples to make you a skilled penetration tester. It is divided into clear bite-sized chunks, so you can learn at your own pace and focus on the areas of most interest to you. This book will teach you how to code a reverse shell and build an anonymous shell. You will also learn how to hack passwords and perform a privilege escalation on Windows with practical examples. You will set up your own virtual hacking environment in VirtualBox, which will help you run multiple operating systems for your testing environment. By the end of this book, you will have learned how to code your own scripts and mastered ethical hacking from scratch. What you will learn Code your own reverse shell (TCP and HTTP) Create your own anonymous shell by interacting with Twitter, Google Forms, and SourceForge Replicate Metasploit features and build an advanced shell Hack passwords using multiple techniques (API hooking, keyloggers, and clipboard hijacking) Exfiltrate data from your target Add encryption (AES, RSA, and XOR) to your shell to learn how cryptography is being abused by malware Discover privilege escalation on Windows with practical examples Countermeasures against most attacks Who this book is for This book is for ethical hackers; penetration testers; students preparing for OSCP, OSCE, GPEN, GXPN, and CEH; information security professionals; cybersecurity consultants; system and network security administrators; and programmers who are keen on learning all about penetration testing.

Advances in Information Security Management & Small Systems Security - Jan H.P. Eloff 2011-05-22

The Eighth Annual Working Conference of Information Security Management and Small Systems Security, jointly presented by WG11.1 and WG11.2 of the International Federation for Information Processing (IFIP), focuses on various state-of-art concepts in the two relevant fields. The conference focuses on technical, functional as well as managerial issues. This working conference brings together researchers and practitioners of different disciplines, organisations, and countries, to discuss the latest developments in (amongst others) information security methods, methodologies and techniques, information security management issues, risk analysis, managing information security within electronic commerce, computer crime and intrusion detection. We are fortunate to have attracted two highly acclaimed international speakers to present invited lectures, which will set the platform for the reviewed papers. Invited speakers will talk on a broad spectrum of issues, all related to information security management and small system security issues. These talks cover new perspectives on electronic commerce, security strategies, documentation and many more. All papers presented at this conference were reviewed by a minimum of two international reviewers. We wish to express our gratitude to all authors of papers and the international referee board. We would also like to express our appreciation to the organising committee, chaired by Gurpreet Dhillon, for all their inputs and arrangements. Finally, we would like to thank Les Labuschagne and Hein Venter for their contributions in compiling this proceeding for WG11.1 and WG 11.2.

Managing Risk and Information Security - Malcolm Harkins 2013-03-21

Managing Risk and Information Security: Protect to Enable, an ApressOpen title, describes the changing risk environment and why a fresh approach to information security is needed. Because almost every aspect of an enterprise is now dependent on technology, the focus of IT security must shift from locking down assets to enabling the business while managing and surviving risk. This compact book discusses business risk from a broader perspective, including privacy and regulatory considerations. It describes the increasing number of threats and vulnerabilities, but also offers strategies for developing solutions. These include discussions of how enterprises can take advantage of new and emerging technologies—such as social media and the huge proliferation of Internet-enabled devices—while minimizing risk. With ApressOpen, content is freely available through multiple online distribution channels and electronic formats with the goal of disseminating professionally edited and technically reviewed content to the worldwide community. Here are some of the responses from reviewers of this exceptional work: "Managing Risk and Information Security is a perceptive, balanced, and often thought-provoking exploration of evolving information risk and security challenges within a business context. Harkins clearly connects the needed, but often-overlooked linkage and dialog between the business and technical worlds and offers actionable strategies. The book contains eye-opening security insights that are easily understood, even by the curious layman." Fred Wettling, Bechtel Fellow, IS&T Ethics & Compliance Officer, Bechtel "As disruptive technology innovations and escalating cyber threats continue to create enormous information security challenges, Managing Risk and Information Security: Protect to Enable provides a much-needed perspective. This book compels information security professionals to think differently about concepts of risk management in order to be more effective. The specific and practical guidance offers a fast-track formula for developing information security strategies which are lock-step with business priorities." Laura Robinson, Principal, Robinson Insight Chair, Security for Business Innovation Council (SBIC) Program Director, Executive Security Action Forum (ESAF) "The mandate of the information security function is being completely rewritten. Unfortunately most heads of security haven't picked up on the change, impeding their companies' agility and ability to innovate. This book makes the case for why security needs to change, and shows how to get started. It will be regarded as marking the turning point in information security for years to come." Dr. Jeremy Bergsman, Practice Manager, CEB "The world we are responsible to protect is changing dramatically and at an accelerating pace. Technology is pervasive in virtually every aspect of our lives. Clouds, virtualization and mobile are redefining computing – and they are just the beginning of what is to come. Your security perimeter is defined by wherever your information and people happen to be. We are attacked by professional adversaries who are better funded than we will ever be. We in the information security profession must change as dramatically as the environment we protect. We need new skills and new strategies to do our jobs effectively. We literally need to change the way we think. Written by one of the best in the business, Managing Risk and Information Security challenges traditional security theory with clear examples of the need for change. It also provides expert advice on how to dramatically increase the success of your security strategy and methods – from dealing with the misperception of risk to how to become a Z-shaped CISO. Managing Risk and Information Security is the ultimate treatise on how to deliver effective security to the world we live in for the next 10 years. It is absolute must reading for anyone in our profession – and should be on the desk of every CISO in the world." Dave Cullinane, CISSP CEO Security Starfish, LLC "In this overview, Malcolm Harkins delivers an insightful survey of the trends, threats, and tactics shaping information risk and security. From regulatory compliance to psychology to the changing threat context, this work provides a compelling introduction to an important topic and trains helpful attention on the effects of changing technology and management practices." Dr. Mariano-Florentino Cu llar Professor, Stanford Law School Co-Director, Stanford Center for International Security and Cooperation (CISAC), Stanford University "Malcolm Harkins gets it. In his new book Malcolm outlines the major forces changing the information security risk landscape from a big picture perspective, and then goes on to offer effective methods of managing that risk from a practitioner's viewpoint. The combination makes this book unique and a must read for anyone interested in IT risk." Dennis Devlin AVP, Information Security and Compliance, The George Washington University "Managing Risk and Information Security is the first-to-read, must-read book on information security for C-Suite executives. It is accessible, understandable and actionable. No sky-is-falling scare tactics, no techno-babble – just straight talk about a critically important subject. There is no better primer on the economics, ergonomics and psycho-behaviourals of security than this." Thornton May, Futurist, Executive Director & Dean, IT Leadership Academy "Managing Risk and Information Security is a wake-up call for information security executives and a ray of light for business leaders. It equips organizations with the knowledge required to transform their security programs from a "culture of no" to one focused on agility, value and competitiveness. Unlike other publications, Malcolm provides clear and immediately applicable solutions to optimally balance the frequently opposing needs of risk reduction and business growth. This book should be required reading for anyone currently serving in, or seeking to achieve, the role of Chief Information Security Officer." Jamil Farshchi, Senior Business Leader of Strategic Planning and Initiatives, VISA "For too many years, business and security – either real or imagined – were at odds. In Managing Risk and Information Security: Protect to Enable, you get what you expect – real life practical ways to break logjams, have security actually enable business, and marries security architecture and business architecture. Why this book? It's written by a practitioner, and not just any practitioner, one of the leading minds in Security today." John Stewart, Chief Security Officer, Cisco "This book is an invaluable guide to help security professionals address risk in new ways in this alarmingly fast changing environment. Packed with examples which makes it a pleasure to read, the book captures practical ways a forward thinking CISO can turn information security into a competitive advantage for their business. This book provides a new framework for managing risk in an entertaining and thought provoking way. This will change the way security professionals work with their business leaders, and help get products to market faster. The 6 irrefutable laws of information security should be on a stone plaque on the desk of every security professional." Steven Proctor, VP, Audit & Risk Management, Flextronics

Cybersecurity Operations Handbook - John Rittinghouse, PhD, CISM 2003-10-02

Cybersecurity Operations Handbook is the first book for daily operations teams who install, operate and maintain a range of security technologies to protect corporate infrastructure. Written by experts in security operations, this book provides extensive guidance on almost all aspects of daily operational security, asset protection, integrity management, availability methodology, incident response and other issues that operational teams need to know to properly run security products and services in a live environment. Provides a master document on Mandatory FCC Best Practices and complete coverage of all critical operational procedures for meeting Homeland Security requirements. • First book written for daily operations teams • Guidance on almost all aspects of daily operational security, asset protection, integrity management • Critical information for compliance with Homeland Security

Red Team Development and Operations - James Tubberville 2020-01-20

This book is the culmination of years of experience in the information technology and cybersecurity field. Components of this book have existed as rough notes, ideas, informal and formal processes developed and adopted by the authors as they led and executed red team engagements over many years. The concepts described in this book have been used to successfully plan, deliver, and perform professional red team engagements of all sizes and complexities. Some of these concepts were loosely documented and integrated into red team management

processes, and much was kept as tribal knowledge. One of the first formal attempts to capture this information was the SANS SEC564 Red Team Operation and Threat Emulation course. This first effort was an attempt to document these ideas in a format usable by others. The authors have moved beyond SANS training and use this book to detail red team operations in a practical guide. The authors' goal is to provide practical guidance to aid in the management and execution of professional red teams. The term 'Red Team' is often confused in the cybersecurity space. The terms roots are based on military concepts that have slowly made their way into the commercial space. Numerous interpretations directly affect the scope and quality of today's security engagements. This confusion has created unnecessary difficulty as organizations attempt to measure threats from the results of quality security assessments. You quickly understand the complexity of red teaming by performing a quick google search for the definition, or better yet, search through the numerous interpretations and opinions posted by security professionals on Twitter. This book was written to provide a practical solution to address this confusion. The Red Team concept requires a unique approach different from other security tests. It relies heavily on well-defined TTPs critical to the successful simulation of realistic threat and adversary techniques. Proper Red Team results are much more than just a list of flaws identified during other security tests. They provide a deeper understanding of how an organization would perform against an actual threat and determine where a security operation's strengths and weaknesses exist.Whether you support a defensive or offensive role in security, understanding how Red Teams can be used to improve defenses is extremely valuable. Organizations spend a great deal of time and money on the security of their systems. It is critical to have professionals who understand the threat and can effectively and efficiently operate their tools and techniques safely and professionally. This book will provide you with the real-world guidance needed to manage and operate a professional Red Team, conduct quality engagements, understand the role a Red Team plays in security operations. You will explore Red Team concepts in-depth, gain an understanding of the fundamentals of threat emulation, and understand tools needed you reinforce your organization's security posture.

Privacy, Intrusion Detection and Response: Technologies for Protecting Networks - Kabiri, Peyman 2011-10-31

Though network security has almost always been about encryption and decryption, the field of network security is moving towards securing the network environment rather than just stored or transferred data. Privacy, Intrusion Detection and Response: Technologies for Protecting Networks explores the latest practices and research works in the area of privacy, intrusion detection, and response. Increased interest on intrusion detection together with prevention and response proves that protecting data either in the storage or during transfer is necessary, but not sufficient, for the security of a network. This book discusses the latest trends and developments in network security and privacy, and serves as a vital reference for researchers, academics, and practitioners working in the field of privacy, intrusion detection, and response.

CISSP Study Guide - Eric Conrad 2015-12-08

CISSP Study Guide, Third Edition provides readers with information on the CISSP certification, the most prestigious, globally-recognized, vendor-neutral exam for information security professionals. With over 100,000 professionals certified worldwide, and many more joining their ranks, this new third edition presents everything a reader needs to know on the newest version of the exam's Common Body of Knowledge. The eight domains are covered completely and as concisely as possible, allowing users to ace the exam. Each domain has its own chapter that includes a specially-designed pedagogy to help users pass the exam, including clearly-stated exam objectives, unique terms and definitions, exam warnings, "learning by example" modules, hands-on exercises, and chapter ending questions. Provides the most complete and effective study guide to prepare users for passing the CISSP exam, giving them exactly what they need to pass the test Authored by Eric Conrad who has prepared hundreds of professionals for passing the CISSP exam through SANS, a popular and well-known organization for information security professionals Covers all of the new information in the Common Body of Knowledge updated in January 2015, and also provides two exams, tiered end-of-chapter questions for a gradual learning curve, and a complete self-test appendix

-

Cybersecurity in the Digital Age - Gregory A. Garrett 2018-12-17

Produced by a team of 14 cybersecurity experts from five countries, Cybersecurity in the Digital Age is ideally structured to help everyone—from the novice to the experienced professional—understand and apply both the strategic concepts as well as the tools, tactics, and techniques of cybersecurity. Among the vital areas covered by this team of highly regarded experts are: Cybersecurity for the C-suite and Board of Directors Cybersecurity risk management framework comparisons Cybersecurity identity and access management – tools & techniques Vulnerability assessment and penetration testing – tools & best practices Monitoring, detection, and response (MDR) – tools & best practices Cybersecurity in the financial services industry Cybersecurity in the healthcare services industry Cybersecurity for public sector and government contractors ISO 27001 certification – lessons learned and best practices With Cybersecurity in the Digital Age, you immediately access the tools and best practices you need to manage: Threat intelligence Cyber vulnerability Penetration testing Risk management Monitoring defense Response strategies And more! Are you prepared to defend against a cyber attack? Based entirely on real-world experience, and intended to empower you with the practical resources you need today, Cybersecurity in the Digital Age delivers: Process diagrams Charts Time-saving tables Relevant figures Lists of key actions and best practices And more! The expert authors of Cybersecurity in the Digital Age have held positions as Chief Information Officer, Chief Information Technology Risk Officer, Chief Information Security Officer, Data Privacy Officer, Chief Compliance Officer, and Chief Operating Officer. Together, they deliver proven practical guidance you can immediately implement at the highest levels.

21st European Conference on Cyber Warfare and Security - 2022-06-16

Modern Theories and Practices for Cyber Ethics and Security Compliance - Yaokumah, Winfred 2020-04-10

In today's globalized world, businesses and governments rely heavily on technology for storing and protecting essential information and data. Despite the benefits that computing systems offer, there remains an assortment of issues and challenges in maintaining the integrity and confidentiality of these databases. As professionals become more dependent cyberspace, there is a need for research on modern strategies and concepts for improving the security and safety of these technologies. Modern Theories and Practices for Cyber Ethics and Security Compliance is a collection of innovative research on the concepts, models, issues, challenges, innovations, and mitigation strategies needed to improve cyber protection. While highlighting topics including database governance, cryptography, and intrusion detection, this book provides guidelines for the protection, safety, and security of business data and national infrastructure from cyber-attacks. It is ideally designed for security analysts, law enforcement, researchers, legal practitioners, policymakers, business professionals, governments, strategists, educators, and students seeking current research on combative solutions for cyber threats and attacks.

Digital Forensics and Incident Response - Gerard Johansen 2017-07-24

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.

CISSP Study Guide - Eric Conrad 2012-09-01

The CISSP certification is the most prestigious, globally-recognized, vendor neutral exam for information security professionals. The newest edition of this acclaimed study guide is aligned to cover all of the material included in the newest version of the exam's Common Body of Knowledge. The ten domains are covered completely and as concisely as possible with an eye to acing the exam. Each of the ten domains has its own chapter that includes specially designed pedagogy to aid the test-taker in passing the exam, including: Clearly stated exam objectives; Unique terms/Definitions; Exam Warnings; Learning by Example; Hands-On Exercises; Chapter ending questions. Furthermore, special features include: Two practice exams; Tiered chapter ending questions that allow for a gradual learning curve; and a self-test appendix Provides the most complete and effective study guide to prepare you for passing the CISSP exam—contains only what you need to pass the test, with no fluff! Eric Conrad has prepared hundreds of professionals for passing the CISSP exam through SANS, a popular and well-known organization for information security professionals Covers all of the new information in the Common Body of Knowledge updated in January 2012, and also provides two practice exams, tiered end-of-chapter questions for a gradual learning curve, and a complete self-test appendix

Transforming Cybersecurity: Using COBIT 5 - ISACA 2013-06-18

The cost and frequency of cybersecurity incidents are on the rise, is your enterprise keeping pace? The numbers of threats, risk scenarios and vulnerabilities have grown exponentially. Cybersecurity has evolved as a new field of interest, gaining political and societal attention. Given this magnitude, the future tasks and responsibilities associated with cybersecurity will be essential to

organizational survival and profitability. This publication applies the COBIT 5 framework and its component publications to transforming cybersecurity in a systemic way. First, the impacts of cybercrime and cyberwarfare on business and society are illustrated and put in context. This section shows the rise in cost and frequency of security incidents, including APT attacks and other threats with a critical impact and high intensity. Second, the transformation addresses security governance, security management and security assurance. In accordance with the lens concept within COBIT 5, these sections cover all elements of the systemic transformation and cybersecurity improvements.

Computer Security Incident Handling Guide (draft) :. - 2012

Sys Admin - 2007