Creating And Maintaining A Soc Mcafee

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ZIMMERMAN LANE

Cybersecurity Arm Wrestling Addison-Wesley Professional
"This book explores how social software and developing community ontologies are challenging the way we operate in a performative space"--Provided by publisher.
Site Reliability Engineering Butterworth-Heinemann
An information security operations involves monitoring, assessing, and defending enterprise information systems. For organizations without a formalized incident-handling capability, the creation from scratch of a security operations center that enables centralized visibility, alerting and investigation can be a daunting task. But fortunately organizations don't need a room full of security experts and an investment of millions of dollars in security systems to make progress here. This book explains how to develop an effective security operations center (SOC) and provides a roadmap for continuously evolving this capability to keep pace with the tactics of the adversaries.
HPI Future SOC Lab : proceedings 2011 Routledge
Policymakers and program managers are continually seeking ways to improve accountability in achieving an entity's mission. A key factor in improving accountability in achieving an entity's mission is to implement an effective internal control system. An effective internal control system helps an entity adapt to shifting environments, evolving demands, changing risks, and new priorities. As programs change and entities strive to improve operational processes and implement new technology, management continually evaluates its internal control system so that it is effective and updated when necessary. Section 3512 (c) and (d) of Title 31 of the United States Code (commonly known as the Federal Managers? Financial Integrity Act (FMFIA)) requires the Comptroller General to issue standards for internal control in the federal government.
Designing a HIPAA-Compliant Security Operations Center Cisco Press
NETC LRC call no. TH 9176 .L9 M657 2013.
Managing a security operations center (SOC) Universitätsverlag Potsdam
Occasionally, during times of peace, military forces achieve major warfighting innovations. Terry Pierce terms these developments 'disruptive innovations' and shows how senior leaders have often disguised them in order to ensure their innovations survived.
Low-Power NoC for High-Performance SoC Design Academic Press
Key Strategies to Safeguard Your Future Well Aware offers a timely take on the leadership issues that businesses face when it comes to the threat of hacking. Finney argues that cybersecurity is not a technology problem; it’s a people problem. Cybersecurity should be understood as a series of nine habits that should be mastered—literacy, skepticism, vigilance, secrecy, culture, diligence, community, mirroring, and deception—drawn from knowledge the author has acquired during two decades of experience in cybersecurity. By implementing these habits and changing our behaviors, we can combat most security problems. This book examines our security challenges using lessons learned from psychology, neuroscience, history, and economics. Business leaders will learn to harness effective cybersecurity techniques in their businesses as well as their everyday lives.
Developing the Global Bioeconomy Princeton University Press
Practitioners in Cybersecurity community understand that they are an unending war with opponents who have varying interests, but are mostly motivated by financial gains. New vulnerabilities are continuously discovered, new technologies are continuously being developed, and attackers are innovative in exploiting flaws to gain access to information assets for financial gains. It is profitable for attackers to succeed only few times. Security Operations Center (SOC) plays a key role in this perpetual arm wrestling to ensure you win most of the times. And if you fail once in a while, you can get back very quickly without much damage. People, who are part of SOC planning, architecture, design, implementation, operations, and incidents response will find this book useful.Many public and private sector organizations have built Security Operations Centers in-house whereas others have outsourced SOC operations to managed security services providers. Some also choose a hybrid approach by keeping parts of SOC operations in-house and outsourcing the rest of it. However, many of these efforts don't bring the intended results or realize desired business outcomes.This book is an effort to learn from experiences of many SOC practitioners and researchers to find practices that have been proven to be useful while avoiding common pitfalls in building SOC. I have also explored different ideas to find a "balanced" approach towards building a SOC and making informed choices between functions that can/should be kept in-house and the ones that can be outsourced. Even if you are an experienced SOC professional, you will still find few interesting ideas as I have done significant research and interviewed many SOC professionals to include tips to help avoid pitfalls.
CASP+ CompTIA Advanced Security Practitioner Study Guide Springer Nature
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
Data Visualization Greenleaf Book Group
Despite the increase of high-profile hacks, record-breaking data leaks, and ransomware attacks, many organizations don’t have the budget to establish or outsource an information security (InfoSec) program, forcing them to learn on the job. For companies obliged to improvise, this pragmatic guide provides a security-101 handbook with steps, tools, processes, and ideas to help you drive maximum-security improvement at little or no cost. Each chapter in this book provides step-by-step instructions for dealing with a specific issue, including breaches and disasters, compliance, network infrastructure and password management, vulnerability scanning, and penetration testing, among others. Network engineers, system administrators, and security professionals will learn tools and techniques to help improve security in sensible, manageable chunks. Learn fundamentals of starting or redesigning an InfoSec program Create a base set of policies, standards, and procedures Plan and design incident response, disaster recovery, compliance, and physical security Bolster Microsoft and Unix systems, network infrastructure, and password management Use segmentation practices and designs to compartmentalize your network Explore automated process and tools for vulnerability management Securely develop code to reduce exploitable errors Understand basic penetration testing concepts through purple teaming Delve into IDS, IPS, SOC, logging, and monitoring
Security Operations Center Springer Science & Business Media
Together with industrial partners Hasso-Plattner-Institut (HPI) is currently establishing a “HPI Future SOC Lab,” which will provide a complete infrastructure for research on on-demand systems. The lab utilizes the latest, multi/many-core hardware and its practical implementation and testing as well as further development. The necessary components for such a highly ambitious project are provided by renowned companies: Fujitsu and Hewlett Packard provide their latest 4 and 8-way servers with 1-2 TB RAM, SAP will make available its latest Business byDesign (ByD) system in its most complete version. EMC² provides high performance storage systems and VMware offers virtualization solutions. The lab will operate on the basis of real data from large enterprises. The HPI Future SOC Lab, which will be open for use by interested researchers also from other universities, will provide an opportunity to study real-life complex systems and follow new ideas all the way to their practical implementation and testing. This technical report presents results of research projects executed in 2011. Selected projects have presented their results on June 15th and October 26th 2011 at the Future SOC Lab Day events.
The Joint Commission/NFPA Life Safety Book for Health Care Organizations National Academies Press
Chip Design and Implementation from a Practical Viewpoint Focusing on chip implementation, Low-Power NoC for High-Performance SoC Design provides practical knowledge and real examples of how to use network on chip (NoC) in the design of system on chip (SoC). It discusses many architectural and theoretical studies on NoCs, including design methodology, topology exploration, quality-of-service guarantee, low-power design, and implementation trials. The Steps to Implement NoC The book covers the full spectrum of the subject, from theory to actual chip design using NoC. Employing the Unified Modeling Language (UML) throughout, it presents complicated concepts, such as models of computation and communication–computation partitioning, in a manner accessible to laypeople. The authors provide guidelines on how to simplify complex networking theory to design a working chip. In addition, they explore the novel NoC techniques and implementations of the Basic On-Chip Network (BONE) project. Examples of real-time decisions, circuit-level design, systems, and chips give the material a real-world context. Low-Power NoC and Its Application to SoC Design Emphasizing the application of NoC to SoC design, this book shows how to build the complicated interconnections on SoC while keeping a low power consumption.
Technological Innovation for Resilient Systems John Wiley & Sons
Security Operation Center (SOC), as the name suggests, is a central operation center which deals with information and cyber security events by employing people, processes, and technology. It continuously monitors and improves an organization's security posture. It is considered to be the first line of defense against cyber security threats. This book has 6 Main Chapters for you to understand how to Manage Modern Security Operations Center & Building Perfect Career as SOC Analyst which is stated below: Chapter 1: Security Operations and Management Chapter 2: Cyber Threat,

IoCs, and Attack Methodologies Chapter 3: Incident, Event, and Logging Chapter 4: Incident Detection with SIEM Chapter 5: Enhanced Incident Detection with Threat Intelligence Chapter 6: Incident Response HOW A SECURITY OPERATIONS CENTER WORKS: Rather than being focused on developing a security strategy, designing security architecture, or implementing protective measures, the SOC team is responsible for the ongoing, operational component of enterprise information security. Security operations center staff consists primarily of security analysts who work together to detect, analyze, respond to, report on, and prevent cybersecurity incidents. Additional capabilities of some SOCs can include advanced forensic analysis, cryptanalysis, and malware reverse engineering to analyze incidents.

Applied Network Security Monitoring Cybellium Ltd

Developing the Global Bioeconomy: Technical, Market, and Environmental Lessons from Bioenergy brings together expertise from three IEA-Bioenergy subtasks on pyrolysis, international trade, and biorefineries to review the bioenergy sector and draw useful lessons for the full deployment of the bioeconomy. Despite the vast amount of politically driven strategies, there is little understanding on how current markets will transition towards a global bioeconomy. The question is not only how the bioeconomy can be developed, but also how it can be developed sustainably in terms of economic and environmental concerns. To answer this question, this book's expert chapter authors seek to identify the types of biorefineries that are expected to be implemented and the types of feedstock that may be used. They also provide historical analysis of the developments of biopower and biofuel markets, integration opportunities into existing supply chains, and the conditions that would need to be created and enhanced to achieve a global biomass trade system that could support a global bioeconomy. As expectations that a future bioeconomy will rely on a series of tradable commodities, this book provides a central accounting of the state of the discussion in a multidisciplinary approach that is ideal for research and academic experts, and analysts in all areas of the bioenergy, biofuels, and bioeconomy sectors, as well as those interested in energy policy and economics. Examines the lessons learned by the bioenergy industry and how they can be applied to the full development of the bioeconomy Explores different transition strategies and how the current fossil based and future bio-based economy are intertwined Reviews the status of current biomass conversion pathways Presents an historical analysis of the developments of biopower and biofuel markets, integration opportunities into existing supply chains, and the conditions that would need to be created and enhanced to achieve a global biomass trade system

Blue Team Handbook Syngress

Get to grips with cyber threat intelligence and data-driven threat hunting while exploring expert tips and techniques Key Features Set up an environment to centralize all data in an Elasticsearch, Logstash, and Kibana (ELK) server that enables threat hunting Carry out atomic hunts to start the threat hunting process and understand the environment Perform advanced hunting using MITRE ATT&CK Evals emulations and Mordor datasets Book DescriptionThreat hunting (TH) provides cybersecurity analysts and enterprises with the opportunity to proactively defend themselves by getting ahead of threats before they can cause major damage to their business. This book is not only an introduction for those who don't know much about the cyber threat intelligence (CTI) and TH world, but also a guide for those with more advanced knowledge of other cybersecurity fields who are looking to implement a TH program from scratch. You will start by exploring what threat intelligence is and how it can be used to detect and prevent cyber threats. As you progress, you'll learn how to collect data, along with understanding it by developing data models. The book will also show you how to set up an environment for TH using open source tools. Later, you will focus on how to plan a hunt with practical examples, before going on to explore the MITRE ATT&CK framework. By the end of this book, you'll have the skills you need to be able to carry out effective hunts in your own environment.What you will learn Understand what CTI is, its key concepts, and how it is useful for preventing threats and protecting your organization Explore the different stages of the TH process Model the data collected and understand how to document the findings Simulate threat actor activity in a lab environment Use the information collected to detect breaches and validate the results of your queries Use documentation and strategies to communicate processes to senior management and the wider business Who this book is for If you are looking to start out in the cyber intelligence and threat hunting domains and want to know more about how to implement a threat hunting division with open-source tools, then this cyber threat intelligence book is for you.

Building an Effective Information Security Policy Architecture Createspace Independent Publishing Platform

A log is a record of the events occurring within an org¿s. systems & networks. Many logs within an org. contain records related to computer security (CS). These CS logs are generated by many sources, incl. CS software, such as antivirus software, firewalls, & intrusion detection & prevention systems; operating systems on servers, workstations, & networking equip.; & applications. The no., vol., & variety of CS logs have increased greatly, which has created the need for CS log mgmt. -- the process for generating, transmitting, storing, analyzing, & disposing of CS data. This report assists org¿s. in understanding the need for sound CS log mgmt. It provides practical, real-world guidance on developing, implementing, & maintaining effective log mgmt. practices. Illus.

Security Operations Center Guidebook Packt Publishing Ltd

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.

Warfighting and Disruptive Technologies Wiley

The overwhelming majority of a software system's lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to your organization. This book is divided into four sections: Introduction—Learn what site reliability engineering is and why it differs from conventional IT industry practices Principles—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE) Practices—Understand the theory and practice of an SRE's day-to-day work: building and operating large distributed computing systems Management—Explore Google's best practices for training, communication, and meetings that your organization can use

Designing and Building Security Operations Center "O'Reilly Media, Inc."

This book constitutes the refereed proceedings of the 9th IFIP WG 5.5/SOCOLNET Advanced Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2018, held in Costa de Caparica, Portugal, in May 2018. The 30 revised full papers presented were carefully reviewed and selected from 74 submissions. The papers present selected results produced in engineering doctoral programs and focus on technological innovation for resilient systems. Research results and ongoing work are presented, illustrated and discussed in the following areas: collaborative systems, decision support systems, supervision systems, energy management, smart grids, sensing systems, electrical systems, simulation and analysis, monitoring systems, and energy distribution systems.

Soil Carbon Storage IGI Global

Information security teams are charged with developing and maintaining a set of documents that will protect the assets of an enterprise from constant threats and risks. In order for these safeguards and controls to be effective, they must suit the particular business needs of the enterprise. A guide for security professionals, Building an Eff

Defensive Security Handbook Createspace Independent Publishing Platform

BTHb:INRE - Version 2.2 now available.Voted #3 of the 100 Best Cyber Security Books of All Time by Vinod Khosla, Tim O'Reilly andMarcus Spoons Stevens on BookAuthority.com as of 06/09/2018!The Blue Team Handbook is a "zero fluff" reference guide for cyber security incident responders, security engineers, and InfoSec pros alike. The BTHb includes essential information in a condensed handbook format. Main topics include the incident response process, how attackers work, common tools for incident response, a methodology for network analysis, common indicators of compromise, Windows and Linux analysis processes, tcpdump usage examples, Snort IDS usage, packet headers, and numerous other quick reference topics. The book is designed specifically to share "real life experience", so it is peppered with practical techniques from the authors' extensive career in handling incidents. Whether you are writing up your cases notes, analyzing potentially suspicious traffic, or called in to look over a misbehaving server - this book should help you handle the case and teach you some new techniques along the way. Version 2.2 updates: - *** A new chapter on Indicators of Compromise added. - Table format slightly revised throughout book to improve readability. - Dozens of paragraphs updated and expanded for readability and completeness. - 15 pages of new content since version 2.0.