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Cybersecurity Risk Management: A Complete Framework Handbook

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Effective Model-Based Systems Engineering
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Threat Hunting in the Cloud John Wiley & Sons

Optimal Spending on Cybersecurity Measures: DevOps aims to discuss the integration of risk management

methodologies within the DevOps process. This book introduces the cyber risk investment model, and the cybersecurity risk management framework within the DevOps process. This can be used by various stakeholders who are involved in the implementation of cybersecurity measures to safeguard sensitive data. This framework facilitates an organization's risk management decision-making process to demonstrate the mechanisms in place to fund cybersecurity measures within DevOps practices, and demonstrates the application of the process using a case study: Cascade. This book also discusses the elements used within DevOps, DevSecOps, and will define a strategic approach to minimize cybersecurity risks within DevOps known as DevRiskOps. Features: Aims to strengthen the reader's understanding of industry governance, risk and compliance practices. Incorporates an innovative approach to assess cyber security initiatives with DevOps. Explores the strategic decisions made by organizations when implementing cybersecurity measures and leverages an integrated

approach to include risk management elements into DevOps. **Strategic Cyber Security** John Wiley & Sons Implement effective cybersecurity strategies to help you and your security team protect, detect, and respond to modern-day threats Purchase of the print or Kindle book includes a free eBook in PDF format. Key Features Protect your organization from cybersecurity threats with field-tested strategies Understand threats such as exploits, malware, internet-based threats, and governments Measure the effectiveness of your organization's current cybersecurity program against modern attackers' tactics Book DescriptionTi m Rains is Microsoft's former Global Chief Security Advisor and Amazon Web Services' former Global Security Leader for Worldwide Public Sector. He has spent the last two decades advising private and public sector organizations all over the world on cybersecurity strategies. Cybersecurity Threats, Malware Trends, and Strategies, Second Edition builds upon the success of the first edition that has helped so many aspiring CISOs, and cybersecurity professionals understand and develop effective data-driven

cybersecurity strategies for their organizations. In this edition, you'll examine long-term trends in vulnerability disclosures and exploitation, regional differences in malware infections and the socio-economic factors that underpin them, and how ransomware evolved from an obscure threat to the most feared threat in cybersecurity. You'll also gain valuable insights into the roles that governments play in cybersecurity, including their role as threat actors, and how to mitigate government access to data. The book concludes with a deep dive into modern approaches to cybersecurity using the cloud. By the end of this book, you will have a better understanding of the threat landscape, how to recognize good Cyber Threat Intelligence, and how to measure the effectiveness of your organization's cybersecurity strategy.What you will learn Discover enterprise cybersecurity strategies and the ingredients critical to their success Improve vulnerability management by reducing risks and costs for your organization Mitigate internet-based threats such as drive-by download attacks and malware distribution sites Learn the

roles that governments play in cybersecurity and how to mitigate government access to data Weigh the pros and cons of popular cybersecurity strategies such as Zero Trust, the Intrusion Kill Chain, and others Implement and then measure the outcome of a cybersecurity strategy Discover how the cloud can provide better security and compliance capabilities than on-premises IT environments Who this book is for This book is for anyone who is looking to implement or improve their organization's cybersecurity strategy. This includes Chief Information Security Officers (CISOs), Chief Security Officers (CSOs), compliance and audit professionals, security architects, and cybersecurity professionals. Basic knowledge of Information Technology (IT), software development principles, and cybersecurity concepts is assumed. *Behind The Scenes - The Art of Cybersecurity Management* Routledge This book provides emergent knowledge relating to physical, cyber, and human risk mitigation in a practical and readable approach for the corporate environment. It presents and discusses practical applications of risk management techniques

along with useable practical policy change options. This practical organizational security management approach examines multiple aspects of security to protect against physical, cyber, and human risk. A practical more tactical focus includes managing vulnerabilities and applying countermeasures. The book guides readers to a greater depth of understanding and action-oriented options.

Cybersecurity – Attack and Defense Strategies

Anand Vemula

This book provides a concise overview of the current state of the art in cybersecurity and shares novel and exciting ideas and techniques, along with specific cases demonstrating their practical application. It gathers contributions by both academic and industrial researchers, covering all aspects of cybersecurity and addressing issues in secure information systems as well as other emerging areas. The content comprises high-quality research articles and reviews that promote a multidisciplinary approach and reflect the latest advances, challenges, requirements and methodologies. Thus, the book investigates e.g. security

vulnerabilities, cybercrime, and privacy issues related to big data analysis, as well as advances in digital forensics, secure smart city services, and risk mitigation strategies for devices employing cyber-physical systems. Given its scope, the book offers a valuable resource for students, researchers, IT professionals and providers, citizens, consumers and policymakers involved or interested in the modern security procedures needed to protect our information and communication resources. Its goal is to foster a community committed to further research and education, and one that can also translate its findings into concrete practices. *Managing Cybersecurity in the Process Industries* CRC Press Practical guide that can be used by executives to make well-informed decisions on cybersecurity issues to better protect their business Emphasizes, in a direct and uncomplicated way, how executives can identify, understand, assess, and mitigate risks associated with cybersecurity issues Covers 'What to Do When You Get Hacked?' including Business Continuity and Disaster Recovery planning, Public

Relations, Legal and Regulatory issues, and Notifications and Disclosures Provides steps for integrating cybersecurity into Strategy; Policy and Guidelines; Change Management and Personnel Management Identifies cybersecurity best practices that executives can and should use both in the office and at home to protect their vital information *Cybersecurity Threats, Malware Trends, and Strategies* CRC Press Cyber-Security Threats, Actors, and Dynamic Mitigation provides both a technical and state-of-the-art perspective as well as a systematic overview of the recent advances in different facets of cyber-security. It covers the methodologies for modeling attack strategies used by threat actors targeting devices, systems, and networks such as smart homes, critical infrastructures, and industrial IoT. With a comprehensive review of the threat landscape, the book explores both common and sophisticated threats to systems and networks. Tools and methodologies are presented for precise modeling of attack strategies, which can be used both proactively in risk management and reactively

in intrusion prevention and response systems. Several contemporary techniques are offered ranging from reconnaissance and penetration testing to malware detection, analysis, and mitigation. Advanced machine learning-based approaches are also included in the area of anomaly-based detection, that are capable of detecting attacks relying on zero-day vulnerabilities and exploits. Academics, researchers, and professionals in cyber-security who want an in-depth look at the contemporary aspects of the field will find this book of interest. Those wanting a unique reference for various cyber-security threats and how they are detected, analyzed, and mitigated will reach for this book often. Cyber Security for Critical Infrastructure Packt Publishing Ltd Focuses on learning vulnerabilities and cyber security. The book gives detail on the new threats and mitigation methods in the cyber security domain, and provides information on the new threats in new technologies such as vulnerabilities in deep learning, data privacy problems with GDPR, and new solutions. Cyber Strategy Dog Ear Publishing A comprehensiv

e guide for cybersecurity professionals to acquire unique insights on the evolution of the threat landscape and how you can address modern cybersecurity challenges in your organisation Key FeaturesProtect your organization from cybersecurity threats with field-tested strategiesDiscover the most common ways enterprises initially get compromised Measure the effectiveness of your organization's current cybersecurity program against cyber attacksBook Description After scrutinizing numerous cybersecurity strategies, Microsoft's former Global Chief Security Advisor in this book helps you understand the efficacy of popular cybersecurity strategies and more. Cybersecurity Threats, Malware Trends, and Strategies offers an unprecedented long-term view of the global threat landscape by examining the twenty-year trend in vulnerability disclosures and exploitation, nearly a decade of regional differences in malware infections, the socio-economic factors that underpin them, and how global malware has evolved. This will give you further perspectives into malware protection for your organization.

It also examines internet-based threats that CISOs should be aware of. The book will provide you with an evaluation of the various cybersecurity strategies that have ultimately failed over the past twenty years, along with one or two that have actually worked. It will help executives and security and compliance professionals understand how cloud computing is a game changer for them. By the end of this book, you will know how to measure the effectiveness of your organization's cybersecurity strategy and the efficacy of the vendors you employ to help you protect your organization and yourself. What you will learnDiscover cybersecurity strategies and the ingredients critical to their successImprove vulnerability management by reducing risks and costs for your organizationLearn how malware and other threats have evolved over the past decadeMitigate internet-based threats, phishing attacks, and malware distribution sitesWeigh the pros and cons of popular cybersecurity strategies of the past two decadesImplement and then measure the outcome of a cybersecurity strategyLearn how the cloud provides better security capabilities than on-premises IT environments Who this book is for This

book is designed to benefit engineers, leaders, or any professional with either a responsibility for cyber security within their organization, or an interest in working in this ever-growing field.

Russian Cyber Attack - Grizzly Steppe Report & The Rules of Cyber Warfare e-artnow

Are you at the CXO level, Top Management, Executive, or Leader in your organization? Then this is a must-read for you, With the pandemic hit us in the year 2020, businesses worldwide have faced several challenges. The lockdown made many companies turn to a remote operation that relied heavily on digital and cloud infrastructure. However, today's digital technologies have become more targeted by hackers and cybercriminals . Regardless, companies have come to accept the importance of Cybersecurity, and many have implemented IT Infrastructure upgrades to that effect. This book will explore the increasing technology risks that organizations face with cyberattacks, their driving factors, the role of CxO, Executives, and Leaders of each organization and more efficient techniques to protect all their digital infrastructure.

Risk

Management Program Guide Springer

The United States is committed to an open, secure, interoperable, and reliable Internet that enables prosperity, public safety, and the free flow of commerce and ideas. The Internet was not originally designed with security in mind, but as an open system to allow scientists and researchers to send data to one another quickly. Without strong investments in cybersecurity and cyber defenses, data systems remain open and susceptible to rudimentary and dangerous forms of exploitation and attack. Malicious actors use cyberspace to steal data and intellectual property for their own economic or political goals. Governments, companies, and organizations must carefully prioritize the systems and data that they need to protect, assess risks and hazards, and make prudent investments in cybersecurity and cyber defense capabilities to achieve their security goals and objectives. Behind these defense investments, organizations of every kind must build business continuity plans and be ready to operate in a degraded cyber environment where access to networks

and data is uncertain. To mitigate risks in cyberspace requires a comprehensive strategy to counter and if necessary withstand disruptive and destructive attacks. The United States' Department of Defense (DoD) is responsible for defending the U.S. homeland and U.S. interests from attack, including attacks that may occur in cyberspace. This book examines the DoD's cyber security strategies; provides US Cyber Command with strategic direction to ensure unity of effort as duties are performed in the service of the nation; and discusses international strategies for cyberspace.

Cybersecurity Threats, Malware Trends, and Strategies

Packt Publishing Ltd

Implement a vendor-neutral and multi-cloud cybersecurity and risk mitigation framework with advice from seasoned threat hunting pros In Threat Hunting in the Cloud: Defending AWS, Azure and Other Cloud Platforms Against Cyberattacks, celebrated cybersecurity professionals and authors Chris Peiris, Binil Pillai, and Abbas Kudrati leverage their decades of experience building large scale cyber fusion centers to deliver the ideal threat hunting resource for both business and technical audiences. You'll find insightful

analyses of cloud platform security tools and, using the industry leading MITRE ATT&CK framework, discussions of the most common threat vectors. You'll discover how to build a side-by-side cybersecurity fusion center on both Microsoft Azure and Amazon Web Services and deliver a multi-cloud strategy for enterprise customers. And you will find out how to create a vendor-neutral environment with rapid disaster recovery capability for maximum risk mitigation. With this book you'll learn: Key business and technical drivers of cybersecurity threat hunting frameworks in today's technological environment Metrics available to assess threat hunting effectiveness regardless of an organization's size How threat hunting works with vendor-specific single cloud security offerings and on multi-cloud implementations A detailed analysis of key threat vectors such as email phishing, ransomware and nation state attacks Comprehensive AWS and Azure "how to" solutions through the lens of MITRE Threat Hunting Framework Tactics, Techniques and Procedures (TTPs) Azure and AWS risk mitigation strategies to combat key TTPs such as privilege escalation, credential

theft, lateral movement, defend against command & control systems, and prevent data exfiltration Tools available on both the Azure and AWS cloud platforms which provide automated responses to attacks, and orchestrate preventative measures and recovery strategies Many critical components for successful adoption of multi-cloud threat hunting framework such as Threat Hunting Maturity Model, Zero Trust Computing, Human Elements of Threat Hunting, Integration of Threat Hunting with Security Operation Centers (SOCs) and Cyber Fusion Centers The Future of Threat Hunting with the advances in Artificial Intelligence, Machine Learning, Quantum Computing and the proliferation of IoT devices. Perfect for technical executives (i.e., CTO, CISO), technical managers, architects, system admins and consultants with hands-on responsibility for cloud platforms, Threat Hunting in the Cloud is also an indispensable guide for business executives (i.e., CFO, COO CEO, board members) and managers who need to understand their organization's cybersecurity

risk framework and mitigation strategy. *Cybersecurity and Artificial Intelligence* Notion Press Today, cyberspace has emerged as a domain of its own, in many ways like land, sea and air. Even if a nation is small in land area, low in GDP per capita, low in resources, less important in geopolitics, low in strength of armed forces, it can become a military super power if it is capable of launching a cyber-attack on critical infrastructures of any other nation including superpowers and crumble that nation. In fact cyber space redefining our security assumptions and defense strategies. This book explains the current cyber threat landscape and discusses the strategies being used by governments and corporate sectors to protect Critical Infrastructure (CI) against these threats. The Digital Battle Springer Nature Cyber attacks are a real threat to our country. This report presents the opposed views of USA and Russia on cyber security and gives insight into the activities of the Russian civilian and military intelligence Services (RIS) conducted during the 2016 U.S. presidential election campaign. The Grizzly Steppe Report provides details regarding the

tools and hacking techniques used by the Russian hackers in order to interfere the 2016 U.S. elections. This activity by RIS is just part of an ongoing campaign of cyber-enabled operations directed at the U.S. government and its citizens. These cyber operations have included spearphishing campaigns targeting government organizations, critical infrastructure entities, think tanks, universities, political organizations, and corporations leading to the theft of information. In foreign countries, RIS actors conducted damaging and/or disruptive cyber-attacks, including attacks on critical infrastructure networks. In some cases, RIS actors masqueraded as third parties, hiding behind false online personas designed to cause the victim to misattribute the source of the attack. This report provides technical indicators related to many of these operations, recommended mitigations, suggested actions to take in response to the indicators provided, and information on how to report such incidents to the U.S. Government. The edition also provides crucial information on the legality of hostile cyber activity at state level. While the

United States and its allies are in general agreement on the legal status of conflict in cyberspace, China, Russia, and a number of like-minded nations have an entirely different concept of the applicability of international law to cyberspace.

U.S. Cyber Strategies

John Wiley & Sons

Intelligence-Led Security: How to Understand, Justify and Implement a New Approach to Security is a concise review of the concept of Intelligence-Led Security. Protecting a business, including its information and intellectual property, physical infrastructure, employees, and reputation, has become increasingly difficult. Online threats come from all sides: internal leaks and external adversaries; domestic hacktivists and overseas cybercrime syndicates; targeted threats and mass attacks. And these threats run the gamut from targeted to indiscriminate to entirely accidental. Among thought leaders and advanced organizations, the consensus is now clear. Defensive security measures: antivirus software, firewalls, and other technical controls and post-attack mitigation strategies are no longer sufficient. To adequately protect

company assets and ensure business continuity, organizations must be more proactive. Increasingly, this proactive stance is being summarized by the phrase Intelligence-Led Security: the use of data to gain insight into what can happen, who is likely to be involved, how they are likely to attack and, if possible, to predict when attacks are likely to come. In this book, the authors review the current threat-scape and why it requires this new approach, offer a clarifying definition of what Cyber Threat Intelligence is, describe how to communicate its value to business, and lay out concrete steps toward implementing Intelligence-Led Security. Learn how to create a proactive strategy for digital security Use data analysis and threat forecasting to predict and prevent attacks before they start Understand the fundamentals of today's threatscape and how best to organize your defenses

Modern Cybersecurity Strategies for Enterprises

BPB Publications

The book provides the complete strategic understanding requisite to allow a person to create and use the RMF process recommendations for risk management. This will be the case both

for applications of the RMF in corporate training situations, as well as for any individual who wants to obtain specialized knowledge in organizational risk management. It is an all-purpose roadmap of sorts aimed at the practical understanding and implementation of the risk management process as a standard entity. It will enable an "application" of the risk management process as well as the fundamental elements of control formulation within an applied context.

Optimal Spending on Cybersecurity Measures

Springer Nature

Insider Threat: Detection, Mitigation, Deterrence and Prevention presents a set of solutions to address the increase in cases of insider threat. This includes espionage, embezzlement, sabotage, fraud, intellectual property theft, and research and development theft from current or former employees. This book outlines a step-by-step path for developing an insider threat program within any organization, focusing on management and employee engagement, as well as ethical, legal, and privacy concerns. In addition, it includes tactics on how to collect, correlate, and visualize

potential risk indicators into a seamless system for protecting an organization's critical assets from malicious, complacent, and ignorant insiders. Insider Threat presents robust mitigation strategies that will interrupt the forward motion of a potential insider who intends to do harm to a company or its employees, as well as an understanding of supply chain risk and cyber security, as they relate to insider threat. Offers an ideal resource for executives and managers who want the latest information available on protecting their organization's assets from this growing threat Shows how departments across an entire organization can bring disparate, but related, information together to promote the early identification of insider threats Provides an in-depth explanation of mitigating supply chain risk Outlines progressive approaches to cyber security How to Measure Anything in Cybersecurity Risk Oxford University Press Cyber Strategy: Risk-Driven Security and Resiliency provides a process and roadmap for any company to develop its unified Cybersecurity and Cyber Resiliency strategies. It demonstrates a

methodology for companies to combine their disassociated efforts into one corporate plan with buy-in from senior management that will efficiently utilize resources, target high risk threats, and evaluate risk assessment methodologies and the efficacy of resultant risk mitigations. The book discusses all the steps required from conception of the plan from preplanning (mission/visio n, principles, strategic objectives, new initiatives derivation), project management directives, cyber threat and vulnerability analysis, cyber risk and controls assessment to reporting and measurement techniques for plan success and overall strategic plan performance. In addition, a methodology is presented to aid in new initiative selection for the following year by identifying all relevant inputs. Tools utilized include: Key Risk Indicators (KRI) and Key Performance Indicators (KPI) National Institute of Standards and Technology (NIST) Cyber Security Framework (CSF) Target State Maturity interval mapping per initiative Comparisons of current and target state business goals and critical success factors A quantitative NIST-based risk assessment of initiative technology

components Responsible, Accountable, Consulted, Informed (RACI) diagrams for Cyber Steering Committee tasks and Governance Boards' approval processes Swimlanes, timelines, data flow diagrams (inputs, resources, outputs), progress report templates, and Gantt charts for project management The last chapter provides downloadable checklists, tables, data flow diagrams, figures, and assessment tools to help develop your company's cybersecurity and cyber resiliency strategic plan. *Implementing Cybersecurity* Kenneth Geers The Enterprise Risk Management Program (ERMP) Guide provides program-level risk management guidance that directly supports your organization's policies and standardizes the management of cybersecurity risk and also provides access to an editable Microsoft Word document template that can be utilized for baselining your organizations risk management practices. Unfortunately, most companies lack a coherent approach to managing risks across the enterprise: When you look at getting audit ready, your policies and standards

only cover the "why?" and "what?" questions of an audit. This product addresses the "how" questions for how your company manages risk.The ERMP provides clear, concise documentation that provides a "paint by numbers" approach to how your organization manages risk.The ERMP addresses fundamental needs when it comes to what is expected in cybersecurity risk management, how risk is defined, who can accept risk, how risk is calculated by defining potential impact and likelihood, necessary steps to reduce risk.Just as Human Resources publishes an "employee handbook" to let employees know what is expected for employees from an HR perspective, the ERMP does this from a cybersecurity risk management perspective.Regardless if your cybersecurity program aligns with NIST, ISO, or another framework, the Enterprise Risk Management Program (ERMP) is designed to address the strategic, operational and tactical components of IT security risk management for any organization. Policies & standards are absolutely necessary to an organization, but they fail to describe HOW

risk is actually managed. The ERMP provides this middle ground between high-level policies and the actual procedures of how risk is managed on a day-to-day basis by those individual contributors who execute risk-based controls.

Cyber Risk Analysis and Threat Mitigation Strategies Against Distributed Energy Resources and Internet of Things Infrastructure Attacks

CRC Press

This book explores the strategic decisions made by organizations when implementing cybersecurity controls and leveraging economic models and theories from the economics of information security and risk-management frameworks. Based on unique and distinct research completed within the field of risk-management and information security, this book provides insight into organizational risk-management processes utilized in determining cybersecurity investments. It describes how theoretical models and frameworks rely on either specific scenarios or controlled conditions and how decisions on cybersecurity spending within organizations—specifically, the funding available in comparison to the recommended security

measures necessary for compliance—vary depending on stakeholders. As the trade-off between the costs of implementing a security measure and the benefit derived from the implementation of security controls is not easily measured, a business leader’s decision to fund security measures may be biased. The author presents an innovative approach to assess cybersecurity initiatives with a risk-management perspective and leverages a data-centric focus on the evolution of cyber-attacks. This book is ideal for business school students and technology professionals with an interest in risk management. *Cybersecurity Risk Management: A Complete Framework Handbook* Springer "Cybersecurity Risk Management: A Complete Framework Handbook" offers an indispensable guide for navigating the complex landscape of cybersecurity threats. This comprehensive handbook equips readers with the essential knowledge and practical strategies needed to effectively manage and mitigate cyber risks in today's digital environment. Beginning with an overview of cybersecurity fundamentals, the handbook delves into the intricacies of risk

assessment, helping readers understand the various types of cyber threats and vulnerabilities that organizations face. Through detailed explanations and real-world examples, readers learn how to conduct thorough risk assessments and identify potential areas of vulnerability within their systems and networks. The handbook provides a systematic approach to risk management, outlining step-by-step processes for developing and implementing robust cybersecurity strategies. From establishing risk management frameworks to designing tailored risk mitigation plans, readers gain insights into best practices for safeguarding their digital assets against cyber threats. Key topics covered include threat intelligence, security controls, incident response, and regulatory compliance. The handbook also explores emerging trends and technologies shaping the cybersecurity landscape, such as cloud computing, IoT devices, and artificial intelligence, offering guidance on how to adapt risk management strategies to address these evolving challenges. Throughout the handbook, emphasis is placed on the importance of collaboration

and communication within organizations to foster a culture of cybersecurity awareness and resilience. Practical tips, checklists, and case studies further enhance the reader's understanding and provide actionable insights for implementing effective risk management practices. Whether you're a cybersecurity professional, IT manager, or business leader, "Cybersecurity Risk Management: A Complete Framework Handbook" serves as an invaluable resource for proactively addressing cyber threats and safeguarding your organization's assets in an increasingly interconnected world.

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