Robust Security Design

John Kingsley-Hefty

Hands-On Cybersecurity for Architects Neil Rerup,Milad Aslaner,2018-07-30 Gain practical experience of creating security solutions and designing secure, highly available, and dynamic infrastructure for your organization Key Features Architect complex security structures using standard practices and use cases Integrate security with any architecture solution Implement cybersecurity architecture in various enterprises Book Description Solutions in the IT domain have been undergoing massive changes. There was a time when bringing your own devices to work was like committing a crime. However, with an evolving IT industry comes emerging security approaches. Hands-On Cybersecurity for Architects will help you to successfully design, integrate, and implement complex security structures in any solution whilst ensuring that the solution functions as expected. To start with, you will get to grips with the fundamentals of recent cybersecurity practices, followed by acquiring and understanding your organization's requirements. You will then move on to learning how to plan and design robust security architectures, along with practical approaches to performing various security assessments. Once you have grasped all this, you will learn to design and develop key requirements, such as firewalls, virtual private networks (VPNs), wide area networks (WANs), and digital certifications. In addition to this, you will discover how to integrate upcoming security changes on Bring your own device (BYOD), cloud platforms, and the Internet of Things (IoT), among others. Finally, you will explore how to design frequent updates and upgrades for your systems as per your enterprise's needs. By the end of this book, you will be able to architect solutions with robust security components for your infrastructure. What you will learn Understand different security architecture layers and their integration with all solutions Study SWOT analysis and dig into your organization's requirements to drive the strategy Design and implement a secure email service approach Monitor the age and capacity of security tools and architecture Explore growth projections and architecture strategy Identify trends, as well as what a security architect should take into consideration Who this book is for Hands-On Cybersecurity for Architects is for you if you are a security, network, or system administrator interested in taking on more complex responsibilities such as designing and implementing complex security structures. Basic understanding of network and computer security implementation will be helpful. This book is also ideal for non-security architects who want to understand how to integrate security into their solutions.

Practical Cybersecurity Architecture Diana Kelley,Ed Moyle,2023-11-10 Plan, design, and build resilient security architectures to secure your organization's hybrid networks, cloud-based workflows, services, and applications Key Features Understand the role of the architect in successfully creating complex security structures Learn methodologies for creating architecture documentation, engaging stakeholders, and implementing designs Understand how to refine and improve architecture methodologies to meet business challenges Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionCybersecurity architecture is the discipline of systematically ensuring that an organization is resilient against cybersecurity threats. Cybersecurity architects work in tandem with stakeholders to create a vision for security in the organization and create designs that are implementable, goal-based, and aligned with the organization’s governance strategy. Within this book, you'll learn the fundamentals of cybersecurity architecture as a practical discipline. These fundamentals are evergreen approaches that, once mastered, can be applied and adapted to new and emerging technologies like artificial intelligence and machine learning. You’ll learn how to address and mitigate risks, design secure solutions in a purposeful and repeatable way, communicate with others about security designs, and bring designs to fruition. This new edition outlines strategies to help you work with execution teams to make your vision a reality, along with ways of

keeping designs relevant over time. As you progress, you'll also learn about well-known frameworks for building robust designs and strategies that you can adopt to create your own designs. By the end of this book, you'll have the foundational skills required to build infrastructure, cloud, AI, and application solutions for today and well into the future with robust security components for your organization.What you will learn Create your own architectures and analyze different models Understand strategies for creating architectures for environments and applications Discover approaches to documentation using repeatable approaches and tools Discover different communication techniques for designs, goals, and requirements Focus on implementation strategies for designs that help reduce risk Apply architectural discipline to your organization using best practices Who this book is forThis book is for new as well as seasoned cybersecurity architects looking to explore and polish their cybersecurity architecture skills. Additionally, anyone involved in the process of implementing, planning, operating, or maintaining cybersecurity in an organization can benefit from this book. If you are a security practitioner, systems auditor, and (to a lesser extent) software developer invested in keeping your organization secure, this book will act as a reference guide.

Zero Trust Security Rob Botwright,101-01-01 Introducing the Zero Trust Security Book Bundle: Building Cyber Resilience & Robust Security Postures! In an age of digital transformation, securing your digital world has never been more crucial. The Zero Trust Security book bundle is your comprehensive guide to revolutionize your cybersecurity strategies, from beginners to seasoned experts. Book 1 - Zero Trust Security: A Beginner's Guide to Building Cyber Resilience: Discover the foundational principles of Zero Trust. Learn how to challenge conventional cybersecurity models and embrace a never trust, always verify approach. Book 2 - Zero Trust Security in Practice: Strategies for Building Robust Security Postures: Move beyond theory with real-world scenarios and case studies. Implement Zero Trust principles practically, from network segmentation to identity management. Book 3 - Advanced Zero Trust Architectures: Cyber Resilience and Expert Strategies: Unlock the secrets of advanced architectures and expert strategies. Explore cutting-edge concepts like micro-segmentation and decentralized identity for unbeatable security. Book 4 - Mastering Zero Trust Security: Cyber Resilience in a Changing Landscape: Adapt and thrive in the ever-evolving cybersecurity landscape. Gain the knowledge and strategies needed to navigate dynamic threats with confidence. Why This Bundle Matters: · Fortify your cybersecurity defenses · Stay ahead of emerging threats · Empower your organization with expert insights · Master Zero Trust principles and applications · Ensure the resilience of your digital assets This bundle is your roadmap to building cyber resilience and creating robust security postures. Whether you're an individual enhancing your cybersecurity skills or an organization safeguarding your digital assets, these books are your trusted companions. Get Started Today: Don't wait for the next cyber threat to strike. Secure your digital future with the Zero Trust Security book bundle. Order now and embark on your journey to cyber resilience! Protect your digital world. Master Zero Trust. Achieve cyber resilience.

High-assurance Design Clifford J. Berg,2006 More than ever business applications need to be reliable and secure and Berg shows architects how to focus efforts where it matters.

Building Secure and Reliable Systems Heather Adkins,Betsy Beyer,Paul Blankinship,Piotr Lewandowski,Ana Oprea,Adam Stubblefield,2020-03-16 Can a system be considered truly reliable if it isn't fundamentally secure? Or can it be considered secure if it's unreliable? Security is crucial to the design and operation of scalable systems in production, as it plays an important part in product quality, performance, and availability. In this book, experts from Google share best practices to help your organization design scalable and reliable systems that

are fundamentally secure. Two previous O'Reilly books from Google—Site Reliability Engineering and The Site Reliability Workbook—demonstrated how and why a commitment to the entire service lifecycle enables organizations to successfully build, deploy, monitor, and maintain software systems. In this latest guide, the authors offer insights into system design, implementation, and maintenance from practitioners who specialize in security and reliability. They also discuss how building and adopting their recommended best practices requires a culture that's supportive of such change. You'll learn about secure and reliable systems through: Design strategies Recommendations for coding, testing, and debugging practices Strategies to prepare for, respond to, and recover from incidents Cultural best practices that help teams across your organization collaborate effectively

Becoming a cyber security architect Kris Hermans,2023-09-05 In today's interconnected world, the need for robust cybersecurity architecture has never been more critical. Becoming a Cyber Security Architect by Kris Hermans is your comprehensive guide to mastering the art of designing and building secure digital infrastructure. Whether you're an aspiring cybersecurity professional or an experienced practitioner, this book equips you with the knowledge and skills to become a trusted Cyber Security Architect. Inside this transformative book, you will: Gain a deep understanding of the principles and practices involved in cybersecurity architecture, from risk assessment and threat modelling to secure network design and secure software development. Learn practical insights into designing and implementing secure network architectures, developing secure software systems, and implementing robust security controls. Explore real-world case studies and practical examples that demonstrate effective cybersecurity architecture in action, enabling you to apply best practices to real projects. Stay updated with the latest industry standards, regulations, and emerging trends in cybersecurity architecture, ensuring your skills are aligned with industry demands. Authored by Kris Hermans, a highly respected authority in the field, Becoming a Cyber Security Architect combines extensive practical experience with a deep understanding of cybersecurity principles. Kris's expertise shines through as they guide readers through the intricacies of cybersecurity architecture, empowering them to design and build secure digital infrastructure. Whether you're an aspiring Cyber Security Architect looking to understand the role and gain practical skills or an experienced professional seeking to enhance your expertise, this book is your essential resource. Business owners, IT professionals, and managers will also find valuable insights to ensure the security of their digital infrastructure.

Information Security Sokratis K. Katsikas,2006-08-17 This book constitutes the refereed proceedings of the 9th International Conference on Information Security, ISC 2006, held on Samos Island, Greece in August/September 2006. The 38 revised full papers presented were carefully reviewed and selected from 188 submissions. The papers are organized in topical sections.

Exploring Security in Software Architecture and Design Felderer, Michael,Scandariato, Riccardo,2019-01-25 Cyber-attacks continue to rise as more individuals rely on storing personal information on networks. Even though these networks are continuously checked and secured, cybercriminals find new strategies to break through these protections. Thus, advanced security systems, rather than simple security patches, need to be designed and developed. Exploring Security in Software Architecture and Design is an essential reference source that discusses the development of security-aware software systems that are built into every phase of the software architecture. Featuring research on topics such as migration techniques, service-based software, and building security, this book is ideally designed for computer and software engineers, ICT specialists, researchers, academicians, and field experts.

Robust Control System Networks Ralph Langner,2011-09-15 From the researcher who was one of the first to identify

and analyze the infamous industrial control system malware Stuxnet, comes a book that takes a new, radical approach to making Industrial control systems safe from such cyber attacks: design the controls systems themselves to be robust. Other security experts advocate risk management, implementing more firewalls and carefully managing passwords and access. Not so this book: those measures, while necessary, can still be circumvented. Instead, this book shows in clear, concise detail how a system that has been set up with an eye toward quality design in the first place is much more likely to remain secure and less vulnerable to hacking, sabotage or malicious control. It blends several well-established concepts and methods from control theory, systems theory, cybernetics and quality engineering to create the ideal protected system. The book's maxim is taken from the famous quality engineer William Edwards Deming, If I had to reduce my message to management to just a few words, I'd say it all has to do with reducing variation. Highlights include: - An overview of the problem of cyber fragility in industrial control systems - How to make an industrial control system robust, including principal design objectives and overall strategic planning - Why using the methods of quality engineering like the Taguchi method, SOP and UML will help to design more armored industrial control systems.

Cyberspace Mimic Defense Jiangxing Wu,2019-12-02 This book discusses uncertain threats, which are caused by unknown attacks based on unknown vulnerabilities or backdoors in the information system or control devices and software/hardware. Generalized robustness control architecture and the mimic defense mechanisms are presented in this book, which could change “the easy-to-attack and difficult-to-defend game” in cyberspace. The endogenous uncertain effects from the targets of the software/hardware based on this architecture can produce magic “mimic defense fog”, and suppress in a normalized mode random disturbances caused by physical or logic elements, as well as effects of non-probability disturbances brought by uncertain security threats. Although progress has been made in the current security defense theories in cyberspace and various types of security technologies have come into being, the effectiveness of such theories and technologies often depends on the scale of the prior knowledge of the attackers, on the part of the defender and on the acquired real-timing and accuracy regarding the attackers’ behavior features and other information. Hence, there lacks an efficient active defense means to deal with uncertain security threats from the unknown. Even if the bottom-line defense technologies such as encrypted verification are adopted, the security of hardware/software products cannot be quantitatively designed, verified or measured. Due to the “loose coupling” relationship and border defense modes between the defender and the protected target, there exist insurmountable theoretical and technological challenges in the protection of the defender and the target against the utilization of internal vulnerabilities or backdoors, as well as in dealing with attack scenarios based on backdoor-activated collaboration from both inside and outside, no matter how augmented or accumulated protective measures are adopted. Therefore, it is urgent to jump out of the stereotyped thinking based on conventional defense theories and technologies, find new theories and methods to effectively reduce the utilization of vulnerabilities and backdoors of the targets without relying on the priori knowledge and feature information, and to develop new technological means to offset uncertain threats based on unknown vulnerabilities and backdoors from an innovative perspective. This book provides a solution both in theory and engineering implementation to the difficult problem of how to avoid the uncontrollability of product security caused by globalized marketing, COTS and non-trustworthy software/hardware sources. It has been proved that this revolutionary enabling technology has endowed software/hardware products in IT/ICT/CPS with endogenous security functions and has overturned the attack theories and methods based on hardware/software design defects or resident malicious codes. This book is designed for educators, theoretical and technological researchers in cyber security

and autonomous control and for business technicians who are engaged in the research on developing a new generation of software/hardware products by using endogenous security enabling technologies and for other product users. Postgraduates in IT/ICT/CPS/ICS will discover that (as long as the law of “structure determines the nature and architecture determines the security is properly used), the problem of software/hardware design defects or malicious code embedding will become the swelling of Achilles in the process of informationization and will no longer haunt Pandora’s box in cyberspace. Security and opening-up, advanced progressiveness and controllability seem to be contradictory, but there can be theoretically and technologically unified solutions to the problem.

Designing Security Architecture Solutions Jay Ramachandran,2002-10-01 The first guide to tackle security architecture at the softwareengineering level Computer security has become a critical business concern, and, assuch, the responsibility of all IT professionals. In thisgroundbreaking book, a security expert with AT&T Business'srenowned Network Services organization explores system securityarchitecture from a software engineering perspective. He explainswhy strong security must be a guiding principle of the developmentprocess and identifies a common set of features found in mostsecurity products, explaining how they can and should impact thedevelopment cycle. The book also offers in-depth discussions ofsecurity technologies, cryptography, database security, applicationand operating system security, and more.

Cloud Native Software Security Handbook MIHIR. SHAH,2023-08-25 Master widely used cloud native platforms like Kubernetes, Calico, Kibana, Grafana, Anchor, and more to ensure secure infrastructure and software development Purchase of the print or Kindle book includes a free PDF eBook Key Features: Learn how to select cloud-native platforms and integrate security solutions into the system Leverage cutting-edge tools and platforms securely on a global scale in production environments Understand the laws and regulations necessary to prevent federal prosecution Book Description: For cloud security engineers, it's crucial to look beyond the limited managed services provided by cloud vendors and make use of the wide array of cloud native tools available to developers and security professionals, which enable the implementation of security solutions at scale. This book covers technologies that secure infrastructure, containers, and runtime environments using vendor-agnostic cloud native tools under the Cloud Native Computing Foundation (CNCF). The book begins with an introduction to the whats and whys of the cloud native environment, providing a primer on the platforms that you'll explore throughout. You'll then progress through the book, following the phases of application development. Starting with system design choices, security trade-offs, and secure application coding techniques that every developer should be mindful of, you'll delve into more advanced topics such as system security architecture and threat modelling practices. The book concludes by explaining the legal and regulatory frameworks governing security practices in the cloud native space and highlights real-world repercussions that companies have faced as a result of immature security practices. By the end of this book, you'll be better equipped to create secure code and system designs. What You Will Learn: Understand security concerns and challenges related to cloud-based app development Explore the different tools for securing configurations, networks, and runtime Implement threat modeling for risk mitigation strategies Deploy various security solutions for the CI/CD pipeline Discover best practices for logging, monitoring, and alerting Understand regulatory compliance product impact on cloud security Who this book is for: This book is for developers, security professionals, and DevOps teams involved in designing, developing, and deploying cloud native applications. It benefits those with a technical background seeking a deeper understanding of cloud-native security and the latest tools and technologies for securing cloud native infrastructure and runtime environments. Prior experience with cloud vendors and their managed services is advantageous for

leveraging the tools and platforms covered in this book.

Physical Security Strategy and Process Playbook John Kingsley-Hefty,2013-09-25 The Physical Security Strategy and Process Playbook is a concise yet comprehensive treatment of physical security management in the business context. It can be used as an educational tool, help a security manager define security requirements, and serve as a reference for future planning. This book is organized into six component parts around the central theme that physical security is part of sound business management. These components include an introduction to and explanation of basic physical security concepts; a description of the probable security risks for more than 40 functional areas in business; security performance guidelines along with a variety of supporting mitigation strategies; performance specifications for each of the recommended mitigation strategies; guidance on selecting, implementing, and evaluating a security system; and lists of available physical security resources. The Physical Security Strategy and Process Playbook is an essential resource for anyone who makes security-related decisions within an organization, and can be used as an instructional guide for corporate training or in the classroom. The Physical Security Strategy and Process Playbook is a part of Elsevier's Security Executive Council Risk Management Portfolio, a collection of real world solutions and how-to guidelines that equip executives, practitioners, and educators with proven information for successful security and risk management programs. Chapters are categorized by issues and cover the fundamental concepts of physical security up to high-level program procedures Emphasizes performance guidelines (rather than standards) that describe the basic levels of performance to be achieved Discusses the typical security risks that occur in more than 40 functional areas of an organization, along with security performance guidelines and specifications for each Covers the selection, implementation, and evaluation of a robust security system

Hardware Security Primitives Mark Tehranipoor,Nitin Pundir,Nidish Vashistha,Farimah Farahmandi,2022-12-15 This book provides an overview of current hardware security primitives, their design considerations, and applications. The authors provide a comprehensive introduction to a broad spectrum (digital and analog) of hardware security primitives and their applications for securing modern devices. Readers will be enabled to understand the various methods for exploiting intrinsic manufacturing and temporal variations in silicon devices to create strong security primitives and solutions. This book will benefit SoC designers and researchers in designing secure, reliable, and trustworthy hardware. Provides guidance and security engineers for protecting their hardware designs; Covers a variety digital and analog hardware security primitives and applications for securing modern devices; Helps readers understand PUF, TRNGs, silicon odometer, and cryptographic hardware design for system security.

Designing and Developing Secure Azure Solutions Michael Howard,Simone Curzi,Heinrich Gantenbein,2022-12-05 Plan, build, and maintain highly secure Azure applications and workloads As business-critical applications and workloads move to the Microsoft Azure cloud, they must stand up against dangerous new threats. That means you must build robust security into your designs, use proven best practices across the entire development lifecycle, and combine multiple Azure services to optimize security. Now, a team of leading Azure security experts shows how to do just that. Drawing on extensive experience securing Azure workloads, the authors present a practical tutorial for addressing immediate security challenges, and a definitive design reference to rely on for years. Learn how to make the most of the platform by integrating multiple Azure security technologies at the application and network layers— taking you from design and development to testing, deployment, governance, and compliance. About You This book is for all Azure application designers, architects, developers, development managers, testers, and everyone

who wants to make sure their cloud designs and code are as secure as possible. Discover powerful new ways to: Improve app / workload security, reduce attack surfaces, and implement zero trust in cloud code Apply security patterns to solve common problems more easily Model threats early, to plan effective mitigations Implement modern identity solutions with OpenID Connect and OAuth2 Make the most of Azure monitoring, logging, and Kusto queries Safeguard workloads with Azure Security Benchmark (ASB) best practices Review secure coding principles, write defensive code, fix insecure code, and test code security Leverage Azure cryptography and confidential computing technologies Understand compliance and risk programs Secure CI / CD automated workflows and pipelines Strengthen container and network security

Handbook of FPGA Design Security Ted Huffmire,Cynthia Irvine,Thuy D. Nguyen,Timothy Levin,Ryan Kastner,Timothy Sherwood,2010-06-18 The purpose of this book is to provide a practical approach to managing security in FPGA designs for researchers and practitioners in the electronic design automation (EDA) and FPGA communities, including corporations, industrial and government research labs, and academics. This book combines theoretical underpinnings with a practical design approach and worked examples for combating real world threats. To address the spectrum of lifecycle and operational threats against FPGA systems, a holistic view of FPGA security is presented, from formal top level speci?cation to low level policy enforcement mechanisms, which integrates recent advances in the ?elds of computer security theory, languages, compilers, and hardware. The net effect is a diverse set of static and runtime techniques that, working in coope- tion, facilitate the composition of robust, dependable, and trustworthy systems using commodity components. We wish to acknowledge the many people who helped us ensure the success of ourworkonrecon?gurablehardwaresecurity.Inparticular,wewishtothankAndrei Paun and Jason Smith of Louisiana Tech University for providing us with a Lin- compatible version of Grail+. We also wish to thank those who gave us comments on drafts of this book, including Marco Platzner of the University of Paderborn, and Ali Irturk and Jason Oberg of the University of California, San Diego. This research was funded in part by National Science Foundation Grant CNS-0524771 and NSF Career Grant CCF-0448654.

Security for Containers and Kubernetes Luigi Aversa,2023-05-31 A practical guide to hardening containers and securing Kubernetes deployments KEY FEATURES ● Learn how to develop a comprehensive security strategy for container platforms. ● Deep dive into best practices for application security in container environments. ● Design a logical framework for security hardening and orchestration in Kubernetes clusters. DESCRIPTION Security for Containers and Kubernetes provides you with a framework to follow numerous hands-on strategies for measuring, analyzing, and preventing threats and vulnerabilities in continuous integration and continuous delivery pipelines, pods, containers, and Kubernetes clusters. The book brings together various solutions that can empower agile teams to proactively monitor, safeguard, and counteract attacks, vulnerabilities, and misconfigurations across the entire DevOps process. These solutions encompass critical tasks such as reviewing and protecting pods, container clusters, container runtime, authorization policies, addressing container security issues, ensuring secure deployment and migration, and fortifying continuous integration and continuous delivery workflows. Furthermore, the book helps you in developing a robust container security strategy and provides guidance on conducting Kubernetes environment testing. It concludes by covering the advantages of service mesh, DevSecOps methodologies, and expert advice for mitigating misconfiguration during the implementation of containerization and Kubernetes. By the end of the book, you will have the knowledge and expertise to strengthen the overall security of your container-based applications. WHAT YOU WILL LEARN ● Understand the risks concerning the container and orchestrator infrastructure. ● Learn how to secure the container stack, the container image process and container registries. ●

Learn how to harden your Kubernetes cluster. ● Deep dive into Kubernetes cloud security methodologies. ● Explore the security nature of the cluster orchestration and governance. WHO THIS BOOK IS FOR This book is for security practitioners, security analysts, DevOps engineers, cloud engineers, cloud architects, and individuals involved in containerization and Kubernetes deployment. TABLE OF CONTENTS 1. Containers and Kubernetes Risk Analysis 2. Hardware and Host OS Security 3. Container Stack Security 4. Securing Container Images and Registries 5. Application Container Security 6. Secure Container Monitoring 7. Kubernetes Hardening 8. Kubernetes Orchestration Security 9. Kubernetes Governance 10. Kubernetes Cloud Security 11. Helm Chart Security 12. Service Mesh Security

Network Security Strategies Aditya Mukherjee,2020-11-06 Build a resilient network and prevent advanced cyber attacks and breaches Key Features Explore modern cybersecurity techniques to protect your networks from ever-evolving cyber threats Prevent cyber attacks by using robust cybersecurity strategies Unlock the secrets of network security Book Description With advanced cyber attacks severely impacting industry giants and the constantly evolving threat landscape, organizations are adopting complex systems to maintain robust and secure environments. Network Security Strategies will help you get well-versed with the tools and techniques required to protect any network environment against modern cyber threats. You'll understand how to identify security vulnerabilities across the network and how to effectively use a variety of network security techniques and platforms. Next, the book will show you how to design a robust network that provides top-notch security to protect against traditional and new evolving attacks. With the help of detailed solutions and explanations, you'll be able to monitor networks skillfully and identify potential risks. Finally, the book will cover topics relating to thought leadership and the management aspects of network security. By the end of this network security book, you'll be well-versed in defending your network from threats and be able to consistently maintain operational efficiency, security, and privacy in your environment. What you will learn Understand network security essentials, including concepts, mechanisms, and solutions to implement secure networks Get to grips with setting up and threat monitoring cloud and wireless networks Defend your network against emerging cyber threats in 2020 Discover tools, frameworks, and best practices for network penetration testing Understand digital forensics to enhance your network security skills Adopt a proactive approach to stay ahead in network security Who this book is for This book is for anyone looking to explore information security, privacy, malware, and cyber threats. Security experts who want to enhance their skill set will also find this book useful. A prior understanding of cyber threats and information security will help you understand the key concepts covered in the book more effectively.

Mastering Adaptive Security Cybellium Ltd,2023-09-06 Cybellium Ltd is dedicated to empowering individuals and organizations with the knowledge and skills they need to navigate the ever-evolving computer science landscape securely and learn only the latest information available on any subject in the category of computer science including: - Information Technology (IT) - Cyber Security - Information Security - Big Data - Artificial Intelligence (AI) - Engineering - Robotics - Standards and compliance Our mission is to be at the forefront of computer science education, offering a wide and comprehensive range of resources, including books, courses, classes and training programs, tailored to meet the diverse needs of any subject in computer science. Visit https://www.cybellium.com for more books.

Industrial Cybersecurity Pascal Ackerman,2017-10-18 Your one-step guide to understanding industrial cyber security, its control systems, and its operations. About This Book Learn about endpoint protection such as anti-malware implementation, updating, monitoring, and sanitizing user workloads and mobile devices Filled with practical examples to help you secure critical infrastructure systems efficiently A step-by-step guide that will

teach you the techniques and methodologies of building robust infrastructure systems Who This Book Is For If you are a security professional and want to ensure a robust environment for critical infrastructure systems, this book is for you. IT professionals interested in getting into the cyber security domain or who are looking at gaining industrial cyber security certifications will also find this book useful. What You Will Learn Understand industrial cybersecurity, its control systems and operations Design security-oriented architectures, network segmentation, and security support services Configure event monitoring systems, anti-malware applications, and endpoint security Gain knowledge of ICS risks, threat detection, and access management Learn about patch management and life cycle management Secure your industrial control systems from design through retirement In Detail With industries expanding, cyber attacks have increased significantly. Understanding your control system's vulnerabilities and learning techniques to defend critical infrastructure systems from cyber threats is increasingly important. With the help of real-world use cases, this book will teach you the methodologies and security measures necessary to protect critical infrastructure systems and will get you up to speed with identifying unique challenges.Industrial cybersecurity begins by introducing Industrial Control System (ICS) technology, including ICS architectures, communication media, and protocols. This is followed by a presentation on ICS (in) security. After presenting an ICS-related attack scenario, securing of the ICS is discussed, including topics such as network segmentation, defense-in-depth strategies, and protective solutions. Along with practical examples for protecting industrial control systems, this book details security assessments, risk management, and security program development. It also covers essential cybersecurity aspects, such as threat detection and access management. Topics related to endpoint hardening such as monitoring, updating, and anti-malware implementations are also discussed. Style and approach A step-by-step guide to implement Industrial Cyber Security effectively.

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