HACKING EXPOSED™

Industrial Control Systems

ICS and SCADA Security Secrets & Solutions

Clint E. Bodungen, Bryan L. Singer, Aaron Shbeeb,
Stephen Hilt, Kyle Wilhoit

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Hacking Exposed Industrial Control Systems Ics And Scada Security Secrets Solutions

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Hacking Exposed Industrial Control Systems: ICS and SCADA Security Secrets & Solutions Clint Bodungen,Bryan Singer,Aaron Shbeeb,Kyle Wilhoit,Stephen Hilt,2016-09-13 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Secure your ICS and SCADA systems the battle tested Hacking ExposedTM way This hands on guide exposes the devious methods cyber threat actors use to compromise the hardware and software central to petroleum pipelines electrical grids and nuclear refineries Hacking Exposed Industrial Control Systems ICS and SCADA Security Secrets and Solutions shows step by step how to implement and maintain an ICS focused risk mitigation framework that is targeted efficient and cost effective The book arms you with the skills necessary to defend against attacks that are debilitating and potentially deadly See how to assess risk perform ICS specific threat modeling carry out penetration tests using ICS safe methods and block malware Throughout the authors use case studies of notorious attacks to illustrate vulnerabilities alongside actionable ready to deploy countermeasures Learn how to Assess your exposure and develop an effective risk management plan Adopt the latest ICS focused threat intelligence techniques Use threat modeling to create realistic risk scenarios Implement a customized low impact ICS penetration testing strategy See how attackers exploit industrial protocols Analyze and fortify ICS and SCADA devices and applications Discover and eliminate undisclosed zero day vulnerabilities Detect block and analyze malware of all varieties **Hacking Exposed Industrial Control Systems: ICS and SCADA Security Secrets & Solutions** Clint Bodungen,Bryan Singer,Aaron Shbeeb,Kyle Wilhoit,Stephen Hilt,2016-09-22 Learn to defend crucial ICS SCADA infrastructure from devastating attacks the tried and true Hacking Exposed way This practical guide reveals the powerful weapons and devious methods cyber terrorists use to compromise the devices applications and systems vital to oil and gas pipelines electrical grids and nuclear refineries Written in the battle tested Hacking Exposed style the book arms you with the skills and tools necessary to defend against attacks that are debilitating and potentially deadly Hacking Exposed Industrial Control Systems ICS and SCADA Security Secrets Solutions explains vulnerabilities and attack vectors specific to ICS SCADA protocols applications hardware servers and workstations You will learn how hackers and malware such as the infamous Stuxnet worm can exploit them and disrupt critical processes compromise safety and bring production to a halt The authors fully explain defense strategies and offer ready to deploy countermeasures Each chapter features a real world case study as well as notes tips and cautions Features examples code samples and screenshots of ICS SCADA specific attacks Offers step by step vulnerability assessment and penetration test instruction Written by a team of ICS SCADA security experts and edited by Hacking Exposed veteran Joel Scambray **SCADA Security - What's broken and how to fix it** Andrew Ginter,2019-03 Modern attacks routinely breach SCADA networks that are defended to IT standards This is unacceptable Defense in depth has failed us In SCADA Security Ginter describes this failure and describes an alternative

Strong SCADA security is possible practical and cheaper than failed IT centric defense in depth While nothing can be completely secure we decide how high to set the bar for our attackers For important SCADA systems effective attacks should always be ruinously expensive and difficult We can and should defend our SCADA systems so thoroughly that even our most resourceful enemies tear their hair out and curse the names of our SCADA systems designers **Industrial Network Security** Eric D. Knapp,Joel Thomas Langill,2011-08-15 This book attempts to define an approach to industrial network security that considers the unique network protocol and application characteristics of an industrial control system while also taking into consideration a variety of common compliance controls Provided by publisher **Tribe of Hackers Red Team** Marcus J. Carey,Jennifer Jin,2019-07-25 Want Red Team offensive advice from the biggest cybersecurity names in the industry Join our tribe The Tribe of Hackers team is back with a new guide packed with insights from dozens of the world s leading Red Team security specialists With their deep knowledge of system vulnerabilities and innovative solutions for correcting security flaws Red Team hackers are in high demand Tribe of Hackers Red Team Tribal Knowledge from the Best in Offensive Cybersecurity takes the valuable lessons and popular interview format from the original Tribe of Hackers and dives deeper into the world of Red Team security with expert perspectives on issues like penetration testing and ethical hacking This unique guide includes inspiring interviews from influential security specialists including David Kennedy Rob Fuller Jayson E Street and Georgia Weidman who share their real world learnings on everything from Red Team tools and tactics to careers and communication presentation strategies legal concerns and more Learn what it takes to secure a Red Team job and to stand out from other candidates Discover how to hone your hacking skills while staying on the right side of the law Get tips for collaborating on documentation and reporting Explore ways to garner support from leadership on your security proposals Identify the most important control to prevent compromising your network Uncover the latest tools for Red Team offensive security Whether you re new to Red Team security an experienced practitioner or ready to lead your own team Tribe of Hackers Red Team has the real world advice and practical guidance you need to advance your information security career and ready yourself for the Red Team offensive **Securing Integrated Transportation Networks** Gary A. Gordon,Richard R. Young,2024-05-25 Securing Integrated Transportation Networks provides a comprehensive look at multimodal transportation security its dynamics evolving threats and technology advances that enhance operational security and related infrastructure protection and hardening as well as the regulatory environment As threats are evolving so is the technology used in enhancing transportation security operational procedures and regulations This book will address this dynamic evolution of transportation security This book serves as a primary reference for information on of the range of activities and components involved in transportation security It covers the myriad moving parts involved in the relationship between and among logistics the supply chains and transportation entities and the concepts approaches and methods that are being employed to effect greater security It looks at operations infrastructure equipment laws and regulations policies

and procedures and risk focused on transportation safety and security by mode and transportation in general Cooperation and partnering with and among the industry to include transportation providers and government agencies is the way forward to ensure that security is maintained and keeps pace with the evolving threat and regulatory landscape This book benefits students in homeland security supply chain management and transportation planning and engineering by providing a practical resource written by industry practitioners with boots on the ground security experience and analysis of real world case studies In addition it provides a practitioner focused reference book for those in the transportation and supply chain industries to include its government associated industries and academic partners Introduces readers to the characteristics of the motive power freight or passage haulage units physical infrastructure required the operating environment itself and the information technology applicable to both operating and managing customer provider relationships all of which to foster safe secure effective and efficient operations Includes discussion questions and case studies available for assignments and subsequent classroom discussion whereby real world scenarios serve to hone analytical abilities Discusses the risks and vulnerabilities that various supply chains and associated transportation modes may pose to the ability of a firm to maintain ongoing operations helping them to analyze trade offs and mitigate threats *Advances on Intelligent Informatics and Computing* Faisal Saeed,Fathey Mohammed,Fuad Ghaleb,2022-03-29 This book presents emerging trends in intelligent computing and informatics This book presents the papers included in the proceedings of the 6th International Conference of Reliable Information and Communication Technology 2021 IRICT 2021 that was held virtually on Dec 22 23 2021 The main theme of the book is Advances on Intelligent Informatics and Computing A total of 87 papers were submitted to the conference but only 66 papers were accepted and published in this book The book presents several hot research topics which include health informatics artificial intelligence soft computing data science big data analytics Internet of Things IoT intelligent communication systems cybersecurity and information systems **Defensive Security Handbook** Lee Brotherston,Amanda Berlin,William F. Reyor III,2024-06-26 Despite the increase of high profile hacks record breaking data leaks and ransomware attacks many organizations don t have the budget for an information security InfoSec program If you re forced to protect yourself by improvising on the job 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 issues such as breaches and disasters compliance network infrastructure password management vulnerability scanning penetration testing and more Network engineers system administrators and security professionals will learn how to use frameworks tools and techniques to build and improve their cybersecurity programs This book will help you Plan and design incident response disaster recovery compliance and physical security Learn and apply basic penetration testing concepts through purple teaming Conduct vulnerability management using automated processes and tools Use IDS IPS SOC logging and monitoring Bolster Microsoft and Unix systems network

infrastructure and password management Use segmentation practices and designs to compartmentalize your network Reduce exploitable errors by developing code securely *Critical Infrastructure Protection XVII* Jason Staggs,Sujeet Shenoi,2023-12-28 The information infrastructure comprising computers embedded devices networks and software systems is vital to operations in every sector chemicals commercial facilities communications critical manufacturing dams defense industrial base emergency services energy financial services food and agriculture government facilities healthcare and public health information technology nuclear reactors materials and waste transportation systems and water and wastewater systems Global business and industry governments indeed society itself cannot function if major components of the critical information infrastructure are degraded disabled or destroyed Critical Infrastructure Protection XVII describes original research results and innovative applications in the interdisciplinary field of critical infrastructure protection Also it highlights the importance of weaving science technology and policy in crafting sophisticated yet practical solutions that will help secure information computer and network assets in the various critical infrastructure sectors Areas of coverage include Themes and Issues Smart Grid Risks and Impacts Network and Telecommunications Systems Security Infrastructure Security Automobile Security This book is the seventeenth volume in the annual series produced by the International Federation for Information Processing IFIP Working Group 11 10 on Critical Infrastructure Protection an international community of scientists engineers practitioners and policy makers dedicated to advancing research development and implementation efforts focused on infrastructure protection The book contains a selection of eleven edited papers from the Seventeenth Annual IFIP WG 11 10 International Conference on Critical Infrastructure Protection which was held at SRI International Arlington Virginia USA in the spring of 2023 Critical Infrastructure Protection XVII is an important resource for researchers faculty members and graduate students as well as for as well as for policy makers practitioners and other individuals with interests in homeland security 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 **Smart Grids** Stuart Borlase,2017-11-22 The latest edition features a new chapter on implementation and operation of an integrated smart grid with updates to multiple chapters throughout the text New sections on Internet of things and how they relate to smart grids and smart cities have also been added to the book It describes the impetus for change in the electric utility industry and discusses the business drivers benefits and market outlook of the smart grid initiative The book identifies the technical framework of enabling technologies and smart solutions and describes the role of technology developments and coordinated standards in smart grid including various initiatives and organizations helping to drive the smart grid effort With chapters written by leading experts in the field the text explains how to plan integrate implement and operate a smart grid **Tribe of Hackers Blue Team** Marcus J. Carey,Jennifer Jin,2020-08-19 Blue Team defensive advice from the biggest names in cybersecurity The Tribe of Hackers team is back This new guide is packed with insights on blue team issues from the biggest names in cybersecurity Inside dozens of the world s leading Blue Team security specialists show you how to harden systems against real and simulated breaches and attacks You ll discover the latest strategies for blocking even the most advanced red team attacks and preventing costly losses The experts share their hard earned wisdom revealing what works and what doesn t in the real world of cybersecurity Tribe of Hackers Blue Team goes beyond the bestselling original Tribe of Hackers book and delves into detail on defensive and preventative techniques Learn how to grapple with the issues that hands on security experts and security managers are sure to build into their blue team exercises Discover what it takes to get started building blue team skills Learn how you can defend against physical and technical penetration testing Understand the techniques that advanced red teamers use against high value targets Identify the most important tools to master as a blue teamer Explore ways to harden systems against red team attacks Stand out from the competition as you work to advance your cybersecurity career Authored by leaders in cybersecurity attack and breach simulations the Tribe of Hackers series is perfect for those

new to blue team security experienced practitioners and cybersecurity team leaders Tribe of Hackers Blue Team has the real world advice and practical guidance you need to advance your information security career and ready yourself for the blue team defense *Operationalizing Threat Intelligence* Kyle Wilhoit,Joseph Opacki,2022-06-17 Learn cyber threat intelligence fundamentals to implement and operationalize an organizational intelligence program Key Features Develop and implement a threat intelligence program from scratch Discover techniques to perform cyber threat intelligence collection and analysis using open source tools Leverage a combination of theory and practice that will help you prepare a solid foundation for operationalizing threat intelligence programs Book Description We re living in an era where cyber threat intelligence is becoming more important Cyber threat intelligence routinely informs tactical and strategic decision making throughout organizational operations However finding the right resources on the fundamentals of operationalizing a threat intelligence function can be challenging and that s where this book helps In Operationalizing Threat Intelligence you ll explore cyber threat intelligence in five fundamental areas defining threat intelligence developing threat intelligence collecting threat intelligence enrichment and analysis and finally production of threat intelligence You ll start by finding out what threat intelligence is and where it can be applied Next you ll discover techniques for performing cyber threat intelligence collection and analysis using open source tools The book also examines commonly used frameworks and policies as well as fundamental operational security concepts Later you ll focus on enriching and analyzing threat intelligence through pivoting and threat hunting Finally you ll examine detailed mechanisms for the production of intelligence By the end of this book you ll be equipped with the right tools and understand what it takes to operationalize your own threat intelligence function from collection to production What you will learn Discover types of threat actors and their common tactics and techniques Understand the core tenets of cyber threat intelligence Discover cyber threat intelligence policies procedures and frameworks Explore the fundamentals relating to collecting cyber threat intelligence Understand fundamentals about threat intelligence enrichment and analysis Understand what threat hunting and pivoting are along with examples Focus on putting threat intelligence into production Explore techniques for performing threat analysis pivoting and hunting Who this book is for This book is for cybersecurity professionals security analysts security enthusiasts and anyone who is just getting started and looking to explore threat intelligence in more detail Those working in different security roles will also be able to explore threat intelligence with the help of this security book **Real-Time and Retrospective Analyses of Cyber Security** Bird, David Anthony,2020-09-04 Society is continually transforming into a digitally powered reality due to the increased dependence of computing technologies The landscape of cyber threats is constantly evolving because of this as hackers are finding improved methods of accessing essential data Analyzing the historical evolution of cyberattacks can assist practitioners in predicting what future threats could be on the horizon Real Time and Retrospective Analyses of Cyber Security is a pivotal reference source that provides vital research on studying the development of cybersecurity practices

through historical and sociological analyses While highlighting topics such as zero trust networks geopolitical analysis and cyber warfare this publication explores the evolution of cyber threats as well as improving security methods and their socio technological impact This book is ideally designed for researchers policymakers strategists officials developers educators sociologists and students seeking current research on the evolution of cybersecurity methods through historical analysis and future trends *Hacking Exposed 7* Stuart McClure,Joel Scambray,George Kurtz,2012-07-23 The latest tactics for thwarting digital attacks Our new reality is zero day APT and state sponsored attacks Today more than ever security professionals need to get into the hacker s mind methods and toolbox to successfully deter such relentless assaults This edition brings readers abreast with the latest attack vectors and arms them for these continually evolving threats Brett Wahlin CSO Sony Network Entertainment Stop taking punches let s change the game it s time for a paradigm shift in the way we secure our networks and Hacking Exposed 7 is the playbook for bringing pain to our adversaries Shawn Henry former Executive Assistant Director FBI Bolster your system s security and defeat the tools and tactics of cyber criminals with expert advice and defense strategies from the world renowned Hacking Exposed team Case studies expose the hacker s latest devious methods and illustrate field tested remedies Find out how to block infrastructure hacks minimize advanced persistent threats neutralize malicious code secure web and database applications and fortify UNIX networks Hacking Exposed 7 Network Security Secrets Solutions contains all new visual maps and a comprehensive countermeasures cookbook Obstruct APTs and web based meta exploits Defend against UNIX based root access and buffer overflow hacks Block SQL injection spear phishing and embedded code attacks Detect and terminate rootkits Trojans bots worms and malware Lock down remote access using smartcards and hardware tokens Protect 802 11 WLANs with multilayered encryption and gateways Plug holes in VoIP social networking cloud and Web 2 0 services Learn about the latest iPhone and Android attacks and how to protect yourself

Smart Grid Security Florian Skopik,Paul Dr. Smith,2015-08-11 The Smart Grid security ecosystem is complex and multi disciplinary and relatively under researched compared to the traditional information and network security disciplines While the Smart Grid has provided increased efficiencies in monitoring power usage directing power supplies to serve peak power needs and improving efficiency of power delivery the Smart Grid has also opened the way for information security breaches and other types of security breaches Potential threats range from meter manipulation to directed high impact attacks on critical infrastructure that could bring down regional or national power grids It is essential that security measures are put in place to ensure that the Smart Grid does not succumb to these threats and to safeguard this critical infrastructure at all times Dr Florian Skopik is one of the leading researchers in Smart Grid security having organized and led research consortia and panel discussions in this field Smart Grid Security will provide the first truly holistic view of leading edge Smart Grid security research This book does not focus on vendor specific solutions instead providing a complete presentation of forward looking research in all areas of Smart Grid security The book will enable practitioners to learn about upcoming trends

scientists to share new directions in research and government and industry decision makers to prepare for major strategic decisions regarding implementation of Smart Grid technology Presents the most current and leading edge research on Smart Grid security from a holistic standpoint featuring a panel of top experts in the field Includes coverage of risk management operational security and secure development of the Smart Grid Covers key technical topics including threat types and attack vectors threat case studies smart metering smart home e mobility smart buildings DERs demand response management distribution grid operators transmission grid operators virtual power plants resilient architectures communications protocols and encryption as well as physical security **Digital Transformation** Birgit Vogel-Heuser,Manuel Wimmer,2023-02-02 Digital Transformation in Industry 4 0 5 0 requires the effective and efficient application of digitalization technologies in the area of production systems This book elaborates on concepts techniques and technologies from computer science in the context of Industry 4 0 5 0 and demonstrates their possible applications Thus the book serves as an orientation but also as a reference work for experts in the field of Industry 4 0 5 0 to successfully advance digitization in their companies **Smart Cities/Smart Regions – Technische, wirtschaftliche und gesellschaftliche Innovationen** Jorge Marx Gómez,Andreas Solsbach,Thomas Klenke,Volker Wohlgemuth,2019-08-16 In diesem Tagungsband zu den 10 BUIS Tagen 20 Tagung der Fachgruppe Betriebliche Umweltinformationssysteme der Gesellschaft f r Informatik e V werden Thematiken smarter St dte und Regionen unter Einsatz von nachhaltigen IKT L sungen in Beitr gen aus Wissenschaft und Praxis vorgestellt Betriebliche Umweltinformationssysteme erfassen analysieren und stellen hierbei umweltrelevante Daten f r vielschichtige Prozesse bereit Das Spektrum der Fachbeitr ge zeigt die Vielfalt der Fragestellungen und den Einsatz von IKT L sungen in der F rderung der Ziele f r eine nachhaltige Entwicklung auf Wesentlichen Raum nehmen Beitr ge zur Wissenschaftskooperation und zum Erfahrungstransfer zwischen afrikanischen und europ ischen Wissenschaftlerinnen und Wissenschaftlern auf allen Themenfeldern der Tagung ein **IT-Security - Der praktische Leitfaden** Amanda Berlin,Lee Brotherston,William F. Reyor III,2025-06-24 Umsetzbare Sicherheitsstrategien auch f r Unternehmen und Organisationen mit kleinen Budgets Das komplexe Thema Informationssicherheit zug nglich und praxisnah aufbereitet Umfassend und kompakt praktische Anleitungen zum Aufbau eines Informationssicherheitsmanagementsystems ISMS komprimierte Alternative zum IT Grundschutz Obwohl die Zahl der spektakul ren Hacks Datenleaks und Ransomware Angriffe zugenommen hat haben viele Unternehmen immer noch kein ausreichendes Budget f r Informationssicherheit Dieser pragmatische Leitfaden unterst tzt Sie dabei effektive Sicherheitsstrategien zu implementieren auch wenn Ihre Ressourcen finanziell und personell beschr nkt sind Kompakt beschreibt dieses Handbuch Schritte Werkzeuge Prozesse und Ideen mit denen Sie Ihre Sicherheit ohne hohe Kosten verbessern Jedes Kapitel enth lt Schritt f r Schritt Anleitungen zu typischen Security Themen wie Sicherheitsvorf llen Netzwerkinfrastruktur Schwachstellenanalyse Penetrationstests Passwortmanagement und mehr Netzwerk techniker Systemadministratoren und Sicherheitsexpertinnen lernen wie sie Frameworks Tools und Techniken nutzen k nnen um ein

Cybersicherheitsprogramm aufzubauen und zu verbessern Dieses Buch unterst tzt Sie dabei Incident Response Disaster Recovery und physische Sicherheit zu planen und umzusetzen grundlegende Konzepte f r Penetrationstests durch Purple Teaming zu verstehen und anzuwenden Schwachstellenmanagement mit automatisierten Prozessen und Tools durchzuf hren IDS IPS SOC Logging und Monitoring einzusetzen Microsoft und Unix Systeme Netzwerkinfrastruktur und Passwortverwaltung besser zu sichern Ihr Netzwerk mit Segmentierungspraktiken in sicherheitsrelevante Zonen zu unterteilen Schwachstellen durch sichere Code Entwicklung zu reduzieren Cyberangriffe und Völkerrecht Sara Pangrazzi,2023-09-27 Cyberangriffe sind eine Folge des rasanten technologischen Fortschritts und werden zu den gr ssten sicherheitspolitischen Herausforderungen des 21 Jahrhunderts gez hlt Sie k nnen weltweit zu erheblichen konomischen und physischen Sch den f hren Was bedeutet dies f r die internationale Staatengemeinschaft Wann und wie d rfen Staaten auf Cyberangriffe reagieren ohne das V lkerrecht zu verletzen Gegenstand dieser Dissertation ist eine Aufarbeitung der v lkerrechtlichen Zul ssigkeit staatlicher Selbsthilfem glichkeiten bei Cyberangriffen Ein besonderer Fokus liegt dabei auf der Verh ltnism ssigkeit von digitalen Verteidigungs und Gegenmassnahmen Die Dissertation zeigt insgesamt auf weshalb f r einen erfolgreichen Schutz vor Cyberangriffen ein pr ventiv ausgerichtetes internationales Risikomanagement und zwischenstaatliche Kooperation nicht nur technisch sondern auch rechtlich betrachtet zentral bleiben

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