



**HACKING SCADA/INDUSTRIAL CONTROL SYSTEMS 2:
The Pentest Guide**

Christopher Atkins

Hacking Scada Industrial Control Systems The Pentest Guide

SHARON. FERRONE



Hacking Scada Industrial Control Systems The Pentest Guide:

Pentesting Industrial Control Systems Paul Smith,2021-12-09 Learn how to defend your ICS in practice from lab setup and intel gathering to working with SCADA Key FeaturesBecome well versed with offensive ways of defending your industrial control systemsLearn about industrial network protocols threat hunting Active Directory compromises SQL injection and much moreBuild offensive and defensive skills to combat industrial cyber threatsBook Description The industrial cybersecurity domain has grown significantly in recent years To completely secure critical infrastructure red teams must be employed to continuously test and exploit the security integrity of a company s people processes and products This is a unique pentesting book which takes a different approach by helping you gain hands on experience with equipment that you ll come across in the field This will enable you to understand how industrial equipment interacts and operates within an operational environment You ll start by getting to grips with the basics of industrial processes and then see how to create and break the process along with gathering open source intel to create a threat landscape for your potential customer As you advance you ll find out how to install and utilize offensive techniques used by professional hackers Throughout the book you ll explore industrial equipment port and service discovery pivoting and much more before finally launching attacks against systems in an industrial network By the end of this penetration testing book you ll not only understand how to analyze and navigate the intricacies of an industrial control system ICS but you ll also have developed essential offensive and defensive skills to proactively protect industrial networks from modern cyberattacks What you will learnSet up a starter kit ICS lab with both physical and virtual equipmentPerform open source intel gathering pre engagement to help map your attack landscapeGet to grips with the Standard Operating Procedures SOPs for penetration testing on industrial equipmentUnderstand the principles of traffic spanning and the importance of listening to customer networksGain fundamental knowledge of ICS communicationConnect physical operational technology to engineering workstations and supervisory control and data acquisition SCADA softwareGet hands on with directory scanning tools to map web based SCADA solutionsWho this book is for If you are an ethical hacker penetration tester automation engineer or IT security professional looking to maintain and secure industrial networks from adversaries this book is for you A basic understanding of cybersecurity and recent cyber events will help you get the most out of this book [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

Hacking Scada/Industrial Control Systems Christopher Atkins,2016-04-29 The book delves into specific details and methodology of how to perform security assessments against the SCADA and Industrial control systems The goal of this book is to provide a roadmap to the security assessors such as security analysts pentesters security architects etc and use the existing techniques that they are aware about and apply them to perform security assessments against the SCADA world The book shows that the same techniques used to assess IT environments can be used for assessing the efficacy of defenses that protect the ICS SCADA systems as well

Certified Penetration Testing Professional (CPENT) Exam Guide Rahul Deshmukh,2025-09-30 DESCRIPTION There has been a rise in demand for cybersecurity professionals who can identify vulnerabilities proactively in applications and infrastructure and offer their skills and expertise in the form of remedial actions to plug these vulnerabilities CPENT is one such examination testing the skills and expertise of a penetration testing professional and offers a global coveted certification to those who clear this examination This guide walks you through each CPENT domain in a sequential and easy to understand format You will begin with learning how to plan for the exam and prepare your system environment It then covers critical techniques like Open Source Intelligence OSINT social engineering attacks vulnerability scanning and tool usage You will also explore advanced topics such as privilege escalation binary exploitation malware detection and post exploitation strategies The book also teaches you how to document and submit professional pentest reports and includes realistic mock exams to prepare you for the real test environment By the end of this book you will have the skills to perform penetration testing gather intelligence from various sources perform social engineering penetration testing perform penetration testing on IoT wireless cloud based systems advanced exploitation techniques and various tools and techniques to be used for penetration testing WHAT YOU WILL LEARN Learning different modules to prepare for the CPENT exam Pre requisites for system and CPENT exam preparation Understanding and learning tools and techniques for penetration testing Learning about the Cyber Kill Chain process Conducting penetration testing on network and web applications Penetration testing methods for IoT SCADA cloud assets and various strategies Drafting and submitting a report for certification WHO THIS BOOK IS FOR This book is for all those cybersecurity professionals who want to learn skills for penetration testing develop their knowledge about the tools and techniques and who would like to become Certified Penetration Testing Professionals by clearing the CPENT exam The readers of this book will be able to learn and

apply hacking techniques and clear the CPENT exam with ease The anxiety and fear of this certification will be gone and you will come out with flying colors

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Ethical Hacker's Certification Guide (CEHv11) Mohd Sohaib,2021-10-27 Dive into the world of securing digital networks cloud IoT mobile infrastructure and much more

KEY FEATURES Courseware and practice papers with solutions for C E H v11 Includes hacking tools social engineering techniques and live exercises Add on coverage on Web apps IoT cloud and mobile Penetration testing

DESCRIPTION The Certified Ethical Hacker s Guide summarises all the ethical hacking and penetration testing fundamentals you ll need to get started professionally in the digital security landscape The readers will be able to approach the objectives globally and the knowledge will enable them to analyze and structure the hacks and their findings in a better way The book begins by making you ready for the journey of a seasonal ethical hacker You will get introduced to very specific topics such as reconnaissance social engineering network intrusion mobile and cloud hacking and so on Throughout the book you will find many practical scenarios and get hands on experience using tools such as Nmap BurpSuite OWASP ZAP etc Methodologies like brute forcing wardriving evil twining etc are explored in detail You will also gain a stronghold on theoretical concepts such as hashing network protocols architecture and data encryption in real world environments In the end the evergreen bug bounty programs and traditional career paths for safety professionals will be discussed The reader will also have practical tasks and self assessment exercises to plan further paths of learning and certification

WHAT YOU WILL LEARN Learn methodologies tools and techniques of penetration testing and ethical hacking Expert led practical demonstration of tools and tricks like nmap BurpSuite and OWASP ZAP Learn how to perform brute forcing wardriving and evil twinning Learn to gain and maintain access to remote systems Prepare detailed tests and execution plans for VAPT vulnerability assessment and penetration testing scenarios

WHO THIS BOOK IS FOR This book is intended for prospective and seasonal cybersecurity lovers who want to master cybersecurity and ethical hacking It also assists software engineers quality analysts and penetration testing companies who want to keep up with changing cyber risks

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Compliances and Cyber Laws 21 Self Assessment 1 22 Self Assessment 2 **CompTIA PenTest+ Certification All-in-One Exam Guide, Second Edition (Exam PT0-002)** Heather Linn, Raymond Nutting, 2022-04-01 This fully updated guide delivers complete coverage of every topic on the current version of the CompTIA PenTest certification exam Get complete coverage of all the objectives included on the CompTIA PenTest certification exam PT0 002 from this comprehensive resource Written by expert penetration testers the book provides learning objectives at the beginning of each chapter hands on exercises exam tips and practice questions with in depth explanations Designed to help you pass the exam with ease this definitive volume also serves as an essential on the job reference Covers all exam topics including Planning and engagement Information gathering Vulnerability scanning Network based attacks Wireless and radio frequency attacks Web and database attacks Cloud attacks Specialized and fragile systems Social Engineering and physical attacks Post exploitation tools and techniques Post engagement activities Tools and code analysis And more Online content includes 170 practice exam questions Interactive performance based questions Test engine that provides full length practice exams or customizable quizzes by chapter or exam objective **Industrial Network Security** Eric D. Knapp, 2024-03-26 As the sophistication of cyber attacks increases understanding how to defend critical infrastructure systems energy production water gas and other vital systems becomes more important and heavily mandated Industrial Network Security Third Edition arms you with the knowledge you need to understand the vulnerabilities of these distributed supervisory and control systems Authors Eric Knapp and Joel Langill examine the unique protocols and applications that are the foundation of Industrial Control Systems ICS and provide clear guidelines for their protection This comprehensive reference gives you thorough understanding of the challenges facing critical infrastructures new guidelines and security measures for infrastructure protection knowledge of new and evolving security tools and pointers on SCADA protocols and security implementation worth recommendation for people who are interested in modern industry control systems security Additionally it will be advantageous for university researchers and graduate students in the network security field as well as to industry specialists in the area of ICS IEEE Communications Magazine All new real world examples of attacks against control systems such as Trisys Pipedream and more diagrams of systems Includes all new chapters on USB security and OT Cyber Kill Chains including the lifecycle of an incident response from detection to recovery Expanded coverage of network anomaly detection and Beachhead systems for extensive monitoring and detection New coverage of network spans mirrors and taps as well as asset discovery log collection and industrial focused SIEM solution *CompTIA PenTest+ Certification All-in-One Exam Guide (Exam PT0-001)* Raymond Nutting, 2018-12-14 This comprehensive exam guide offers 100% coverage of every topic on the CompTIA PenTest exam Get complete coverage of all the objectives included on the CompTIA PenTest certification exam PT0 001 from this comprehensive resource Written by an expert penetration tester the book provides learning objectives at the beginning of each chapter hands on exercises exam tips and practice questions with in depth answer explanations Designed to help you

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Cyberwarfare: An Introduction to Information-Age Conflict Isaac R. Porche, III, 2019-12-31 Conflict in cyberspace is becoming more prevalent in all public and private sectors and is of concern on many levels As a result knowledge of the topic is becoming essential across most disciplines This book reviews and explains the technologies that underlie offensive and defensive cyber operations which are practiced by a range of cyber actors including state actors criminal enterprises activists and individuals It explains the processes and technologies that enable the full spectrum of cyber operations Readers will learn how to use basic tools for cyber security and pen testing and also be able to quantitatively assess cyber risk to systems and environments and discern and categorize malicious activity The book provides key concepts of information age conflict technical basics fundamentals needed to understand more specific remedies and activities associated with all aspects of cyber operations It explains techniques associated with offensive cyber operations with careful distinctions made between cyber ISR cyber exploitation and cyber attack It explores defensive cyber operations and includes case studies that provide practical information making this book useful for both novice and advanced information warfare practitioners

CompTIA PenTest+ Certification Bundle (Exam PT0-001) Raymond Nutting, Jonathan Ammerman, 2019-04-05 Prepare for the new PenTest certification exam from CompTIA with this money saving comprehensive study package Designed as a complete self study program this collection offers a variety of proven resources to use in preparation for the August 2018 release of the CompTIA PenTest certification exam Comprised of CompTIA PenTest Certification All In One Exam Guide PT0 001 and CompTIA PenTest Certification Practice Exams Exam CS0 001 this bundle thoroughly covers every topic on the challenging exam CompTIA PenTest Certification Bundle Exam PT0 001 contains hundreds of practice questions that match those on the live exam in content difficulty tone and format The set includes detailed coverage of performance based questions You will get exam focused Tip Note and Caution elements as well as end of chapter reviews This authoritative cost effective bundle serves both as a study tool AND a valuable on the job reference for computer security professionals This bundle is 25% cheaper than purchasing the books individually and includes a 10% off the exam voucher Written by a pair of penetration testing experts Electronic content includes 370 practice exam questions and secured PDF copies of both books

Safety and Security of Cyber-Physical Systems Frank J. Furrer, 2022-07-20 Cyber physical systems CPSs consist of software controlled computing devices communicating with each other and interacting with the physical world through sensors and actuators Because most of the functionality of a CPS is

implemented in software the software is of crucial importance for the safety and security of the CPS This book presents principle based engineering for the development and operation of dependable software The knowledge in this book addresses organizations that want to strengthen their methodologies to build safe and secure software for mission critical cyber physical systems The book Presents a successful strategy for the management of vulnerabilities threats and failures in mission critical cyber physical systems Offers deep practical insight into principle based software development 62 principles are introduced and cataloged into five categories Business Provides direct guidance on architecting and operating dependable cyber physical systems for software managers and architects

Securing Your SCADA and Industrial Control Systems Defense Dept., Technical Support Working Group (TSWG), Version 1 0 This guidebook provides information for enhancing the security of Supervisory Control and Data Acquisition Systems SCADA and Industrial Control Systems ICS The information is a comprehensive overview of industrial control system security including administrative controls architecture design and security technology This is a guide for enhancing security not a how to manual for building an ICS and its purpose is to teach ICS managers administrators operators engineers and other ICS staff what security concerns they should be taking into account Other related products National Response Framework 2008 is available here <https://bookstore.gpo.gov/products/sku/064-000-00044-6> National Strategy for Homeland Security October 2007 is available here <https://bookstore.gpo.gov/products/sku/041-001-00657-5> New Era of Responsibility Renewing America's Promise can be found here <https://bookstore.gpo.gov/products/sku/041-001-00660-5>

Cyber-security of SCADA and Other Industrial Control Systems Edward J. M. Colbert, Alexander Kott, 2016-08-23 This book provides a comprehensive overview of the fundamental security of Industrial Control Systems ICSs including Supervisory Control and Data Acquisition SCADA systems and touching on cyber physical systems in general Careful attention is given to providing the reader with clear and comprehensive background and reference material for each topic pertinent to ICS security This book offers answers to such questions as Which specific operating and security issues may lead to a loss of efficiency and operation What methods can be used to monitor and protect my system How can I design my system to reduce threats This book offers chapters on ICS cyber threats attacks metrics risk situational awareness intrusion detection and security testing providing an advantageous reference set for current system owners who wish to securely configure and operate their ICSs This book is appropriate for non specialists as well Tutorial information is provided in two initial chapters and in the beginnings of other chapters as needed The book concludes with advanced topics on ICS governance responses to attacks on ICS and future security of the Internet of Things

Handbook of SCADA/Control Systems Security Robert Radvanovsky, Jacob Brodsky, 2013-02-19 The availability and security of many services we rely upon including water treatment electricity healthcare transportation and financial transactions are routinely put at risk by cyber threats The Handbook of SCADA Control Systems Security is a fundamental outline of security concepts methodologies and relevant information pertaining to the

Cybersecurity for Industrial Control Systems Tyson

Macaulay, Bryan L. Singer, 2016-04-19 As industrial control systems ICS including SCADA DCS and other process control networks become Internet facing they expose crucial services to attack Threats like Duqu a sophisticated worm found in the wild that appeared to share portions of its code with the Stuxnet worm emerge with increasing frequency Explaining how to develop and im

Ethically Hacking an Industrial Control System SHARON. FERRONE, 2022-03-30 In recent years the industrial cybersecurity arena has risen dramatically Red teams must be used to continually test and exploit the security integrity of a company s people processes and products in order to completely safeguard critical infrastructure This pen testing book takes a different approach than most by assisting you in gaining hands on experience with equipment you ll encounter in the field This will allow you to comprehend how industrial equipment interacts and functions in a real world setting This book begins by covering the fundamentals of industrial processes then goes on to learn how to design and break them It also includes obtaining open source intelligence to develop a dangerous environment for your potential customer You ll learn how to install and employ offensive tactics used by skilled hackers as you go Before eventually launching assaults against systems in an industrial network you ll learn about industrial equipment port and service discovery pivoting and much more You ll not only know how to evaluate and navigate the nuances of an industrial control system ICS by the conclusion of this penetration testing book but you ll also have gained crucial offensive and defensive skills to proactively safeguard industrial networks from current assaults

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Handbook of SCADA/Control Systems Security Burt G. Look, 2016-05-10 This comprehensive handbook covers fundamental security concepts methodologies and relevant information pertaining to supervisory control and data acquisition SCADA and other industrial control systems used in utility and industrial facilities worldwide Including six new chapters six revised chapters and numerous additional figures photos and illustrations it addresses topics in social implications and impacts governance and management architecture and modeling and commissioning and operations It presents best practices as well as methods for securing a business environment at the strategic tactical and operational levels

Nist Special Publication 800-82 Guide to Industrial Control Systems Security U.s. Department of Commerce, 2014-10-09 This document provides guidance for establishing secure industrial control systems ICS These ICS which include supervisory control and data acquisition SCADA systems distributed control systems DCS and other control system configurations such as skid mounted Programmable Logic Controllers PLC are often found in the industrial control sectors ICS are typically used in industries such as electric water and wastewater oil and natural gas transportation chemical pharmaceutical pulp and paper food and beverage and discrete manufacturing e g automotive aerospace and durable goods SCADA systems are generally used to control dispersed assets using centralized data acquisition and supervisory control

Nist Special Publication 800-82 Revision 1 Guide to Industrial Control

Systems Security U.s. Department of Commerce,2014-10-09 This document provides guidance on how to secure Industrial Control Systems ICS including Supervisory Control and Data Acquisition SCADA systems Distributed Control Systems DCS and other control system configurations such as Programmable Logic Controllers PLC while addressing their unique performance reliability and safety requirements The document provides an overview of ICS and typical system topologies identifies typical threats and vulnerabilities to these systems and provides recommended security countermeasures to mitigate the associated risks

NIST Special Publication 800-82 Guide to Industrial Control Systems (ICS) Security
Nist,2012-02-29 The purpose of this document is to provide guidance for securing industrial control systems ICS including supervisory control and data acquisition SCADA systems distributed control systems DCS and other systems performing control functions The document provides an overview of ICS and typical system topologies identifies typical threats and vulnerabilities to these systems and provides recommended security countermeasures to mitigate the associated risks

Because there are many different types of ICS with varying levels of potential risk and impact the document provides a list of many different methods and techniques for securing ICS The document should not be used purely as a checklist to secure a specific system Readers are encouraged to perform a risk based assessment on their systems and to tailor the recommended guidelines and solutions to meet their specific security business and operational requirements

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