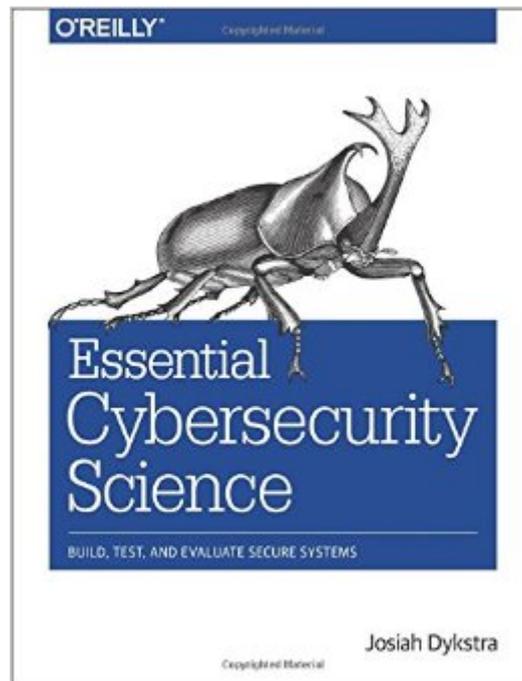


The book was found

Essential Cybersecurity Science: Build, Test, And Evaluate Secure Systems



Synopsis

If you're involved in cybersecurity as a software developer, forensic investigator, or network administrator, this practical guide shows you how to apply the scientific method when assessing techniques for protecting your information systems. You'll learn how to conduct scientific experiments on everyday tools and procedures, whether you're evaluating corporate security systems, testing your own security product, or looking for bugs in a mobile game. Once author Josiah Dykstra gets you up to speed on the scientific method, he helps you focus on standalone, domain-specific topics, such as cryptography, malware analysis, and system security engineering. The latter chapters include practical case studies that demonstrate how to use available tools to conduct domain-specific scientific experiments. Learn the steps necessary to conduct scientific experiments in cybersecurity. Explore fuzzing to test how your software handles various inputs. Measure the performance of the Snort intrusion detection system. Locate malicious needles in a haystack in your network and IT environment. Evaluate cryptography design and application in IoT products. Conduct an experiment to identify relationships between similar malware binaries. Understand system-level security requirements for enterprise networks and web services.

Book Information

Paperback: 190 pages

Publisher: O'Reilly Media; 1 edition (January 1, 2016)

Language: English

ISBN-10: 1491920947

ISBN-13: 978-1491920947

Product Dimensions: 7 x 0.4 x 9.2 inches

Shipping Weight: 12.6 ounces (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars See all reviews (1 customer review)

Best Sellers Rank: #631,370 in Books (See Top 100 in Books) #121 in Books > Computers & Technology > Security & Encryption > Viruses #150 in Books > Computers & Technology > Security & Encryption > Encryption #165 in Books > Computers & Technology > Security & Encryption > Cryptography

Customer Reviews

Anyone who has spent time in the information security industry knows what while there is good data around; there is a lot to be desired in terms of empirical and measurable information security data. There's too much marketing hype, combined with firms who often don't know how to make

sense out of their own data. In *Essential Cybersecurity Science: Build, Test, and Evaluate Secure Systems*, author Dr. Josiah Dykstra has written an excellent book that attempts to rescue information security data from FUD, and bring it to the realm of good, scientific data. Wikipedia defines the scientific method as is a body of techniques for investigating phenomena, acquiring new knowledge, or correcting and integrating previous knowledge. To be termed scientific, a method of inquiry is commonly based on empirical or measurable evidence subject to specific principles of reasoning. Dykstra provides a reference in which the information security professional can start their journey on using the scientific method on their data. This title joins similarly recent valuable books on the topic such as *Measuring and Managing Information Risk: A FAIR Approach* by Dr. Jack Freund and Jack Jones, and *Data-Driven Security: Analysis, Visualization and Dashboards* by Jay Jacobs and Bob Rudis, which focus on empirical data, not the made up type. The book has value for nearly everyone within information security; from the CISO, to system administrators, software developers, auditors, forensic investigator and everyone in between. Since data is so pervasive, misusing it has the potential to detail meaningful security discussions. The book shows the reader how to investigate information security problems and conduct information security experiments using a formal scientific method.

[Download to continue reading...](#)

Essential Cybersecurity Science: Build, Test, and Evaluate Secure Systems SEO BOOST: HOW TO BUILD A SEO PRIVATE BLOG NETWORK THAT DOESN'T SUCK: Find, Evaluate & Build Your PBN In 60 Minutes Or Less (REDIFY SEO SERIES Book 3) Safe & Secure: Secure Your Home Network, and Protect Your Privacy Online The Bulfinch Guide to Carpets: How to Identify, Classify, and Evaluate Antique Carpets and Rugs Medium/Heavy Truck Test: Heating, Ventilation and Air Conditioning (Hvac) Systems (Test T7) (Delmar Learning's Ase Test Prep Series) Cybersecurity: Home and Small Business Auto Accident Personal Injury Insurance Claim: (How To Evaluate and Settle Your Loss) Revealing Life Insurance Secrets: How the Pros Pick, Design, and Evaluate Their Own Policies Cybersecurity and Cyberwar: What Everyone Needs to Know Private Equity Operational Due Diligence: Tools to Evaluate Liquidity, Valuation, and Documentation (Wiley Finance) Private Equity Operational Due Diligence, + Website: Tools to Evaluate Liquidity, Valuation, and Documentation Cybersecurity for Everyone: Securing your home or small business network Cybersecurity (Special Reports) Cybersecurity Leadership: Powering the Modern Organization How to Measure Anything in Cybersecurity Risk Wired for Love: How Understanding Your Partner's Brain and Attachment Style Can Help You Defuse Conflict and Build a Secure Relationship Rebuilding the Foodshed: How to Create Local, Sustainable, and Secure Food

Systems (Community Resilience Guides) PRAXIS PLT Test Grades 7-12 (REA) - Principles of Learning and Teaching Test, The Best Teachers' Test Preparation for PRAXIS PLT (Test Preps) 2nd Edition Oracle DBA Exam Cram: Test 1 and Test 2: Exam: TEST 1 & TEST 2 ATI TEAS Study Guide Version 6: TEAS 6 Test Prep and Practice Test Questions for the Test of Essential Academic Skills, Sixth Edition

[Dmca](#)