

Next Generation Firewall Forcepoint

The objective of this textbook is to introduce students and professionals to fundamental principles and techniques and emerging technologies in energy informatics and the digitalization of power markets and systems. The book covers such areas as smart grids and artificial intelligence (AI) and distributed ledger technology (DLT), with a focus on information and communication technologies (ICT) deployed to modernize the electric energy infrastructure. It also provides an overview of the smart grid and its main components: smart grid applications at transmission, distribution, and customer level, network requirements with communications technologies, and standards and protocols. In addition, the book addresses emerging technologies and trends in next-generation power systems, i.e., energy informatics, such as digital green shift, energy cyber-physical-social systems (E-CPSS), energy IoT, energy blockchain, and advanced optimization. Future aspects of digitalized power markets and systems will be discussed with real-world energy informatics projects. The book is designed to be a core text in upper-undergraduate and graduate courses such as Introduction to Smart Grids, Digitalization of Power Systems, and Advanced Power System Topics in Energy Informatics.

This is the eBook version of the print title. Note that the eBook may not provide access to the practice test software that accompanies the print book. Access to the companion files are available through product registration at Pearson IT Certification, or see the instructions in the back pages of your eBook. Learn, prepare, and practice for CompTIA Security+ SY0-501 exam success with this CompTIA approved Cert Guide from Pearson IT Certification, a leader in IT certification learning and a CompTIA Authorized Platinum Partner. · Master CompTIA Security+ SY0-501 exam topics · Assess your knowledge with chapter-ending quizzes · Review key concepts with exam preparation tasks · Practice with realistic exam questions CompTIA Security+ SY0-501 Cert Guide is a best-of-breed exam study guide. Best-selling author and expert instructor David L. Prowse shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test-preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending chapter review activities help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. Well regarded for its level of detail, assessment features, and challenging review questions and exercises, this CompTIA approved study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. The CompTIA approved study guide helps you master all the topics on the Security+ exam, including · Core computer system security · OS hardening and virtualization · Application security · Network design elements · Networking ports, protocols, and threats · Network perimeter security · Physical security and authentication models · Access control · Vulnerability and risk assessment · Monitoring and auditing · Cryptography, including PKI · Redundancy and disaster recovery · Social Engineering · Policies and procedures

Traditionally, network security (firewalls to block unauthorized users, Intrusion Prevention Systems (IPS) to keep attackers out, Web filters to avoid misuse of Internet browsing, and antivirus software to block malicious programs) required separate boxes with increased cost and complexity. Unified Threat Management (UTM) makes network security less complex, cheaper, and more effective by consolidating all these components. This book explains the advantages of using UTM and how it works, presents best practices on deployment, and is a hands-on, step-by-step guide to deploying Fortinet's FortiGate in the enterprise. Provides tips, tricks, and proven suggestions and guidelines to set up FortiGate implementations Presents topics that are not covered (or are not covered in detail) by Fortinet's documentation Discusses hands-on troubleshooting techniques at both the project deployment level and technical implementation area

Handbook of e-Business SecurityCRC Press

Revision 1

Data Management, Analytics and Innovation

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16th International Conference, DIMVA 2019, Gothenburg, Sweden, June 19–20, 2019, Proceedings

A Comprehensive Guide to Security Services on the SRX Series

Network Security, Firewalls and VPNs

Architect, design, implement, and operate Microsoft Sentinel as the core of your security solutions

Master the basics of data centers to build server farms that enhance your Web site performance Learn design guidelines that show how to deploy server farms in highly available and scalable environments Plan site performance capacity with discussions of server farm architectures and their real-life applications to determine your system needs Today's market demands that businesses have an Internet presence through which they can perform e-commerce and customer support, and establish a presence that can attract and increase their customer base. Underestimated hit ratios, compromised credit card records, perceived slow Web site access, or the infamous "Object Not Found" alerts make the difference between a successful online presence and one that is bound to fail. These challenges can be solved in part with the use of data center technology. Data centers switch traffic based on information at the Network, Transport, or Application layers. Content switches perform the "best server" selection process to direct users' requests for a specific service to a server in a server farm. The best server selection process takes into account both server load and availability, and the existence and consistency of the requested content. Data Center Fundamentals helps you understand the basic concepts behind the design and scaling of server farms using data center and content switching technologies. It addresses the principles and concepts needed to take on the most common challenges encountered during planning, implementing, and managing Internet and intranet IP-based server farms. An in-depth analysis of the data center technology with real-life scenarios make Data Center Fundamentals an ideal reference for understanding, planning, and designing Web hosting and e-commerce environments.

Mumbai is an ever-evolving city, bustling and brimming, never sleeping for a wink. But the past four decades brought upheavals of great magnitude that shaped the city as we know today. Marred by communal riots, gang wars and terrorism, the spirit of Mumbai has emerged indomitable every single time. Born and raised in the lanes of Bombay 3, this is the story of Jagan Kumar who dreams of being a television journalist and changing the world. But once he achieves this, he realises that television journalism has lost its path, now afflicted with sensationalism, corruption and bias. As a crime reporter, he comes across various unscrupulous means that law enforcement agencies adopt to combat organised crime syndicates. He is shocked to witness interdepartmental rivalry that often jeopardises public security. Disenchanted, in conflict with his conscience and confused about his calling, he is about to quit when something happens that changes the course of his life. Bombay 3 begins from the bylanes of old Bombay of the seventies and then takes you to Mosul in ISIS's Iraq of 2014 and finally to the streets of Bangkok where the underworld of Mumbai has spread its tentacles. A fast-paced thriller, it answers certain questions about life in Mumbai and raises a few new ones.

This updated report provides an overview of firewall technology, and helps organizations plan for and implement effective firewalls. It explains the technical features of firewalls, the types of firewalls that are available for implementation by organizations, and their security capabilities. Organizations are advised on the placement of firewalls within the network architecture, and on the selection, implementation, testing, and management of firewalls. Other issues covered in detail are the development of firewall policies, and recommendations on the types of network traffic that should be prohibited. The appendices contain helpful supporting material, including a glossary and lists of acronyms and abbreviations; and listings of in-print and online resources. Illus.

PART OF THE NEW JONES & BARTLETT LEARNING INFORMATION SYSTEMS SECURITY & ASSURANCE SERIES Fully revised and updated with the latest data from the field, Network Security, Firewalls, and VPNs, Second Edition provides a unique, in-depth look at the major business challenges and threats that are introduced when an organization's network is connected to the public Internet. Written by an industry expert, this book provides a comprehensive explanation of network security basics, including how hackers access online networks and the use of Firewalls and VPNs to provide security countermeasures. Using examples and exercises, this book incorporates hands-on activities to prepare the reader to disarm threats and prepare for emerging technologies and future attacks. Key Features: -Introduces the basics of network security exploring the details of firewall security and how VPNs operate -Illustrates how to plan proper network security to combat hackers and outside threats -Discusses firewall configuration and deployment and managing firewall security -Identifies how to secure local and internet communications with a VPN Instructor Materials for Network Security, Firewalls, VPNs include: PowerPoint Lecture Slides Exam Questions Case Scenarios/Handouts About the Series This book is part of the Information Systems Security and Assurance Series from Jones and Bartlett Learning. Designed for courses and curriculums in IT Security, Cybersecurity, Information Assurance, and Information Systems Security, this series features a comprehensive, consistent treatment of the most current thinking and trends in this critical subject area. These titles deliver fundamental information-security principles packed with real-world applications and examples. Authored by Certified Information Systems Security Professionals (CISSPs), they deliver comprehensive information on all aspects of information security. Reviewed word for word by leading technical experts in the field, these books are not just current, but forward-thinking putting you in the position to solve the cybersecurity challenges not just of today, but of tomorrow, as well."

Unclassified and Secure

Hooking into Runtime Environments

Protect and Secure Your Enterprise Networks, Digital Business Assets, and Endpoint Security with Tested and Proven Methods (English Edition)

Handbook of e-Business Security

Star Wars Galaxy of Intrigue

Detecting Malware and Threats in Windows, Linux, and Mac Memory

Building Enterprise Firewalls with Open Source

This book presents the latest findings in the areas of data management and smart computing, big data management, artificial intelligence and data analytics, along with advances in network technologies. It addresses state-of-the-art topics and discusses challenges and solutions for future development. Gathering original, unpublished contributions by scientists from around the globe, the book is mainly intended for a professional audience of researchers and practitioners in academia and industry.

This book captures the state of the art research in the area of malicious code detection, prevention and mitigation. It contains cutting-edge behavior-based techniques to analyze and detect obfuscated malware. The book analyzes current trends in malware activity online, including botnets and malicious code for profit, and it proposes effective models for detection and prevention of attacks using. Furthermore, the book introduces novel techniques for creating services that protect their own integrity and safety, plus the data they manage.

Updated with the latest advances from the field, GUIDE TO COMPUTER FORENSICS AND INVESTIGATIONS, Fifth Edition combines all-encompassing topic coverage and authoritative information from seasoned experts to deliver the most comprehensive forensics resource available. This proven author team's wide ranging areas of expertise mirror the breadth of coverage provided in the book, which focuses on techniques and practices for gathering and analyzing evidence used to solve crimes involving computers. Providing clear instruction on the tools and techniques of the trade, it introduces readers to every step of the computer forensics investigation-from lab set-up to testifying in court. It also details step-by-step guidance on how to use current forensics software. Appropriate for learners new to the field, it is also an excellent refresher and technology update for professionals in law enforcement, investigations, or computer security. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

CompTIA Security+ Study Guide (Exam SY0-601)

Implementing DirectAccess with Windows Server 2016

Practical OPNsense

Software-Defined Networking and Security

A Hands-on Practical Approach

Foreword by Dameon D. Welch-Abernathy A. K. A. PhoneBoy

Private Communications in a Public World

Zero Days, Thousands of Nights

Zero-day vulnerabilities--software vulnerabilities for which no patch or fix has been publicly released-- and their exploits are useful in cyber operations--whether by criminals, militaries, or governments--as well as in defensive and academic settings. This report provides findings from real-world zero-day vulnerability and exploit data that could augment conventional proxy examples and expert opinion, complement current efforts to create a framework for deciding whether to disclose or retain a cache of zero-day vulnerabilities and exploits, inform ongoing policy debates regarding stockpiling and vulnerability disclosure, and add extra context for those examining the implications and resulting liability of attacks and data breaches for U.S. consumers, companies, insurers, and for the civil justice system broadly. The authors provide insights about the zero-day vulnerability research and exploit development industry; give information on what proportion of zero-day vulnerabilities are alive (undisclosed), dead (known), or somewhere in between; and establish some baseline metrics regarding the average lifespan of zero-day vulnerabilities, the likelihood of another party discovering a vulnerability within a given time period, and the time and costs involved in developing an exploit for a zero-day vulnerability"--Publisher's description.

Conferences Proceedings of 20th European Conference on Cyber Warfare and Security

The perimeter defenses guarding your network perhaps are not as secure as you think. Hosts behind the firewall have no defenses of their own, so when a host in the "trusted" zone is breached, access to your data center is not far behind. That's an all-too-familiar scenario today. With this practical book, you'll learn the principles behind zero trust architecture, along with details necessary to implement it. The Zero Trust Model treats all hosts as if they're internet-facing, and considers the entire network to be compromised and hostile. By taking this approach, you'll focus on building strong authentication, authorization, and encryption throughout, while providing compartmentalized access and better operational agility. Understand how perimeter-based defenses have evolved to become the broken model we use today Explore two case studies of zero trust in production networks on the client side (Google) and on the server side (PagerDuty) Get example configuration for open source tools that you can use to build a zero trust network Learn how to migrate from a perimeter-based network to a zero trust network in production

The classic guide to network security--now fully updated!"Bob and Alice are back!" Widely regarded as the most comprehensive yet comprehensible guide to network security, the first edition of Network Security received critical acclaim for its lucid and witty explanations of the inner workings of network security protocols. In the second edition, this most distinguished of author teams draws on hard-won experience to explain the latest developments in this field that has become so critical to our global network-dependent society. Network Security, Second Edition brings together clear, insightful, and clever explanations of every key facet of information security, from the basics to advanced cryptography and authentication, secure Web and email services, and emerging security standards. Coverage includes: All-new discussions of the Advanced Encryption Standard (AES), IPsec, SSL, and Web security Cryptography: In-depth, exceptionally clear introductions to secret and public keys, hashes, message digests, and other crucial concepts Authentication: Proving identity across networks, common attacks against authentication systems, authenticating people, and avoiding the pitfalls of authentication handshakes Core Internet security standards: Kerberos 4/5, IPsec, SSL, PKIX, and X.509 Email security: Key elements of a secure email system--plus detailed coverage of PEM, S/MIME, and PGP Web security: Security issues associated with URLs, HTTP, HTML, and cookies Security implementations in diverse platforms, including Windows, NetWare, and Lotus Notes The authors go far beyond documenting standards and technology: They contrast competing schemes, explain strengths and weaknesses, and identify the crucial errors most likely to compromise secure systems. Network Security will appeal to a wide range of professionals, from those who design or evaluate security systems to system administrators and programmers who want a better understanding of this important field. It can also be used as a textbook at the graduate or advanced undergraduate level.

CompTIA Security+ SY0-501 Cert Guide

A Star Wars Roleplaying Game Supplement

Basics of Computer Application

Malware Detection

Network Security

Access Denied

The Practice and Policy of Global Internet Filtering

Simple packet filters are becoming a thing of the past. Even the open-source domain is moving towards Next-Generation Firewalls. And OPNsense is a top player when it comes to intrusion detection, application control, web filtering, and anti-virus. No network is too insignificant to be spared by an attacker. Even home networks, washing machines, and smartwatches are threatened and require a secure environment. Firewalls are a component of the security concept. They protect against known and new threats to computers and networks. A firewall offers the highest level of protection if its functions are known, its operation is simple, and it is ideally positioned in the surrounding infrastructure. OPNsense accepts the challenge and meets these criteria in different ways. This book is the ideal companion for understanding, installing and setting up an OPNsense firewall. Each chapter explains a real-world situation, describes the theoretical fundamentals, and presents a laboratory experiment for better understanding. Finally, it offers a solution using OPNsense methods and knowledge from a technical background. The chapters are mostly independent of each other, but presented with increasing levels of proficiency. Thus, the topics dealt with are appropriate for beginners to professionals.

This complete field guide, authorized by Juniper Networks, is the perfect hands-on reference for deploying, configuring, and operating Juniper's SRX Series networking device. Authors Brad Woodberg and Rob Cameron provide field-tested best practices for getting the most out of SRX deployments, based on their extensive field experience. While their earlier book, Junos Security, covered the SRX platform, this book focuses on the SRX Series devices themselves. You'll learn how to use SRX gateways to address an array of network requirements—including IP routing, intrusion detection, attack mitigation, unified threat management, and WAN acceleration. Along with case studies and troubleshooting tips, each chapter provides study questions and lots of useful illustrations. Explore SRX components, platforms, and various deployment scenarios Learn best practices for configuring SRX's core networking features Leverage SRX system services to attain the best operational state Deploy

Text notes for WCHSE XII Board
The Forever Marriage
From Theory to Practice

A log is a record of the events occurring within an org's systems & networks. Many logs within an org. contain records related to computer security (CS). These CS logs are generated by many sources, incl. CS software, such as antivirus software, firewalls, & intrusion detection & prevention systems; operating systems on servers, workstations, & networking equip.; & applications. The no., vol., & variety of CS logs have increased greatly, which has created the need for CS log mgmt. -- the process for generating, transmitting, storing, analyzing, & disposing of CS data. This report assists org's. in understanding the need for sound CS log mgmt. It provides practical, real-world guidance on developing, implementing, & maintaining effective log mgmt. practices. Illus.

New rules and character options for campaigns laced with intrigue. The Star Wars galaxy is rife with treachery and intrigue, from the machinations of Darth Sidiuous and the Bothan SpyNet to the secret agendas of the Rebel Alliance and the Empire. This supplement gives players and Gamemasters everything they need to run games and play characters in a galaxy of intrigue. This book provides new options and gear for nobles and other sly-minded characters, as well as a host of adventure hooks and campaign seeds that can be used to inject elements of intrigue into campaigns of all eras. It also includes rules for running skill challenges.

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The biggest online threat to businesses and consumers today is ransomware, a category of malware that can encrypt your computer files until you pay a ransom to unlock them. With this practical book, you'll learn how easily ransomware infects your system and what steps you can take to stop the attack before it sets foot in the network. Security experts Allan Liska and Timothy Gallo explain how the success of these attacks has spawned not only several variants of ransomware, but also a litany of ever-changing ways they're delivered to targets. You'll learn pragmatic methods for responding quickly to a ransomware attack, as well as how to protect yourself from becoming infected in the first place. Learn how ransomware enters your system and encrypts your files Understand why ransomware use has grown, especially in recent years Examine the organizations behind ransomware and the victims they target Learn how wannabe hackers use Ransomware as a Service (RaaS) to launch campaigns Understand how ransom is paid--and the pros and cons of paying Use methods to protect your organization's workstations and servers

The Life and Times of Zero-Day Vulnerabilities and Their Exploits

Juniper SRX Series

Zero Trust Networks