

Network Security With Netflow And Ipfix Big Data Analytics For Information Security Networking Technology

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Testing and Analyzing Using Open Source and Low-Cost Tools
 Web Technologies and Applications
 CompTIA CYSA+ Guide to Cyber Security Analyst
 Building Situational Awareness
 12th International Conference, CANS 2013, Paraty, Brazil, November 20-22, 2013, Proceedings
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 The Tao of Network Security Monitoring
 Network Security Through Data Analysis
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 Applied Network Security Monitoring
 The NICE Cyber Security Framework
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 APWeb 2014 Workshops, SNA, NIS, and IoTS, Changsha, China, September 5, 2014, Proceedings
 Implementing and Operating Cisco Security Core Technologies
 Proven Methods for Incident Detection on Enterprise Networks
 CCNP and CCIE Security Core SCOR 350-701 Official Cert Guide

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ROWE ROLAND

TESTING AND ANALYZING USING OPEN SOURCE AND LOW-COST TOOLS

Pearson Education

Trust the best-selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. Master Cisco CCNP and CCIE Security Core SCOR 350-701 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of the CCNP and CCIE Security Core SCOR 350-701 Official Cert Guide. This eBook does not include access to the companion website with practice exam that comes with the print edition. CCNP and CCIE Security Core SCOR 350-701 Official Cert Guide presents you with an organized test preparation routine through the use of proven series elements and techniques. “Do I Know This Already?” quizzes open each chapter and allow you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. CCNP and CCIE Security Core SCOR 350-701 Official Cert Guide, focuses specifically on the objectives for the Cisco CCNP and CCIE Security SCOR exam. Best-selling author and leading security engineer Omar Santos 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. Well regarded for its level of detail, assessment features, comprehensive design scenarios, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that will allow you to succeed on the exam the first time. The official study guide helps you master all the topics on the CCNP and CCIE Security SCOR 350-701 exam, including: Cybersecurity fundamentals Cryptography Software-Defined Networking security and network programmability Authentication, Authorization, Accounting (AAA) and Identity Management Network visibility and segmentation Infrastructure security Cisco next-generation firewalls and intrusion prevention systems Virtual Private Networks (VPNs) Securing the cloud Content security Endpoint protection and detection CCNP and CCIE Security Core SCOR 350-701 Official Cert Guide is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit www.cisco.com/web/learning/index.html

Web Technologies and Applications Cengage Learning

This complete new guide to auditing network security is an indispensable resource for security, network, and IT professionals, and for the consultants

and technology partners who serve them. Cisco network security expert Chris Jackson begins with a thorough overview of the auditing process, including coverage of the latest regulations, compliance issues, and industry best practices. The author then demonstrates how to segment security architectures into domains and measure security effectiveness through a comprehensive systems approach. Network Security Auditing thoroughly covers the use of both commercial and open source tools to assist in auditing and validating security policy assumptions. The book also introduces leading IT governance frameworks such as COBIT, ITIL, and ISO 17799/27001, explaining their values, usages, and effective integrations with Cisco security products.

CompTIA CYSA+ Guide to Cyber Security Analyst Cisco Systems

A definitive how-to guide to the Cisco security blueprint examines a wide variety of security issues and concepts, furnishes a broad overview of the ins and outs of implementing a comprehensive security plan--from identifying security threats to defending a network--and discusses specific solutions to a variety of security problems. (Beginner)

Building Situational Awareness Syngress

"The book you are about to read will arm you with the knowledge you need to defend your network from attackers—both the obvious and the not so obvious.... If you are new to network security, don't put this book back on the shelf! This is a great book for beginners and I wish I had access to it many years ago. If you've learned the basics of TCP/IP protocols and run an open source or commercial IDS, you may be asking 'What's next?' If so, this book is for you." —Ron Gula, founder and CTO, Tenable Network Security, from the Foreword "Richard Bejtlich has a good perspective on Internet security—one that is orderly and practical at the same time. He keeps readers grounded and addresses the fundamentals in an accessible way."

—Marcus Ranum, TruSecure "This book is not about security or network monitoring: It's about both, and in reality these are two aspects of the same problem. You can easily find people who are security experts or network monitors, but this book explains how to master both topics." —Luca Deri, ntop.org "This book will enable security professionals of all skill sets to improve their understanding of what it takes to set up, maintain, and utilize a successful network intrusion detection strategy." —Kirby Kuehl, Cisco Systems Every network can be compromised. There are too many systems, offering too many services, running too many flawed applications. No amount of careful coding, patch management, or access control can keep out every attacker. If prevention eventually fails, how do you prepare for the intrusions that will eventually happen? Network security monitoring (NSM) equips security staff to deal with the inevitable consequences of too few resources and too many responsibilities. NSM collects the data needed to generate better assessment, detection, and response processes—resulting in decreased impact from unauthorized activities. In *The Tao of Network Security Monitoring*, Richard Bejtlich explores the products, people, and processes that implement the NSM model. By focusing on case studies and the application of open source tools, he helps you gain hands-on knowledge of how to better defend networks and how to mitigate damage from security incidents. Inside, you will find in-depth information on the following areas. The NSM operational framework and deployment considerations. How to use a variety of open-source tools—including Sguil, Argus, and Ethereal—to mine network traffic for full content, session, statistical, and alert data. Best practices for conducting emergency NSM in an incident response scenario, evaluating monitoring vendors, and deploying an NSM

architecture. Developing and applying knowledge of weapons, tactics, telecommunications, system administration, scripting, and programming for NSM. The best tools for generating arbitrary packets, exploiting flaws, manipulating traffic, and conducting reconnaissance. Whether you are new to network intrusion detection and incident response, or a computer-security veteran, this book will enable you to quickly develop and apply the skills needed to detect, prevent, and respond to new and emerging threats.

[12th International Conference, CANS 2013, Paraty, Brazil, November 20-22, 2013, Proceedings](#) Springer

This volume constitutes the refereed proceedings of the 13th IFIP WG 11.2 International Conference on Information Security Theory and Practices, WISTP 2019, held in Paris, France, in December 2019. The 12 full papers and 2 short papers presented were carefully reviewed and selected from 42 submissions. The papers are organized in the following topical sections: authentication; cryptography; threats; cybersecurity; and Internet of Things.

EXAM 45 OFFICIAL CERT GDEPUB

Springer

This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Learn, prepare, and practice for CCNA Cyber Ops SECOPS #210-255 exam success with this Official Cert Guide from Pearson IT Certification, a leader in IT Certification learning. Master CCNA Cyber Ops SECOPS #210-255 exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks CCNA Cyber Ops SECOPS 210-255 Official Cert Guide is a best-of-breed exam study guide. Best-selling authors and internationally respected cybersecurity experts Omar Santos and Joseph Muniz share 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 Exam Preparation Tasks 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 study guide helps you master the concepts and techniques that will allow you to succeed on the exam the first time. The study guide helps you master all the topics on the SECOPS #210-255 exam, including: Threat analysis Forensics Intrusion analysis NetFlow for cybersecurity Incident response and the incident handling process Incident response teams Compliance frameworks Network and host profiling Data and event analysis Intrusion event categories

The Tao of Network Security Monitoring Cisco Press

This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Learn, prepare, and practice for CCNA Cyber Ops SECFND 210-250 exam success with this Cert Guide from Pearson IT Certification, a leader in IT Certification learning. Master CCNA Cyber Ops SECFND 210-250 exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks CCNA Cyber Ops SECFND 210-250 Official Cert Guide is a best-of-breed exam study guide. Cisco enterprise security experts Omar Santos, Joseph Muniz, and Stefano De Crescenzo share 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 Exam Preparation Tasks 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 study guide helps you master the concepts and techniques that will allow you to succeed on the exam the first time. The study guide helps you master all the topics on the CCNA Cyber Ops SECFND exam, including: Fundamentals of networking protocols and networking device types Network security devices and cloud services Security principles Access control models Security management concepts and techniques Fundamentals of cryptography and PKI Essentials of Virtual Private Networks (VPNs) Windows-based Analysis Linux /MAC OS X-based Analysis Endpoint security technologies Network and host telemetry Security monitoring operations and challenges Types of attacks and vulnerabilities Security evasion techniques *Network Security Through Data Analysis* Cisco Press

CCIE Professional Development Network Security Technologies and Solutions A comprehensive, all-in-one reference for Cisco network security Yusuf Bhajji, CCIE No. 9305 Network Security Technologies and Solutions is a comprehensive reference to the most cutting-edge security products and methodologies available to networking professionals today. This book helps you understand and implement current, state-of-the-art network security technologies to ensure secure communications throughout the network infrastructure. With an easy-to-follow approach, this book serves as a central repository of security knowledge to help you implement end-to-end security solutions and provides a single source of knowledge covering the entire range of the Cisco network security portfolio. The book is divided into five parts mapping to Cisco security technologies and solutions: perimeter security, identity security and access management, data privacy, security monitoring, and security management. Together, all these elements enable dynamic links between customer security policy, user or host identity, and network infrastructures. With this definitive reference, you can gain a greater understanding of the solutions available and learn how to build integrated, secure networks in today's modern, heterogeneous networking environment. This book is an excellent resource for those seeking a comprehensive reference on mature and emerging security tactics and is also a great study guide for the CCIE Security exam. "Yusuf's extensive experience as a mentor and advisor in the security technology field has honed his ability to translate highly technical information into a straight-forward, easy-to-understand format. If you're looking for a truly comprehensive guide to network security, this is the one!" -Steve Gordon, Vice President, Technical Services, Cisco Yusuf Bhajji, CCIE No. 9305 (R&S and Security), has been with Cisco for seven years and is currently the program manager for Cisco CCIE Security certification. He is also the CCIE Proctor in the Cisco Dubai Lab. Prior to this, he was technical lead for the Sydney TAC Security and VPN team at Cisco. Filter traffic with access lists and implement security features on switches Configure Cisco IOS router firewall features and deploy ASA and PIX Firewall appliances Understand attack vectors and apply

Layer 2 and Layer 3 mitigation techniques Secure management access with AAA Secure access control using multifactor authentication technology Implement identity-based network access control Apply the latest wireless LAN security solutions Enforce security policy compliance with Cisco NAC Learn the basics of cryptography and implement IPsec VPNs, DMVPN, GET VPN, SSL VPN, and MPLS VPN technologies Monitor network activity and security incident response with network and host intrusion prevention, anomaly detection, and security monitoring and correlation Deploy security management solutions such as Cisco Security Manager, SDM, ADSM, PDM, and IDM Learn about regulatory compliance issues such as GLBA, HIPAA, and SOX This book is part of the Cisco CCIE Professional Development Series from Cisco Press, which offers expert-level instruction on network design, deployment, and support methodologies to help networking professionals manage complex networks and prepare for CCIE exams. Category: Network Security Covers: CCIE Security Exam

CYBER SECURITY INTELLIGENCE AND ANALYTICS

Springer Science & Business Media

This book constitutes the proceedings of the 5th International Symposium on Cyberspace Safety and Security, CSS 2013, held in Zhangjiajie, China, in November 2013. The 30 full papers presented in this volume were carefully reviewed and selected from 105 submissions. In addition the book contains 6 workshop papers. The papers are organized in topical sections named: data and applications security; network and communications security; software and systems security; and cloud security and cyberspace safety.

Network Flow Analysis Springer Nature

This new text provides students the knowledge and skills they will need to compete for and succeed in the information security roles they will encounter straight out of college. This is accomplished by providing a hands-on immersion in essential system administration, service and application installation and configuration, security tool use, TIG implementation and reporting. It is designed for an introductory course on IS Security offered usually as an elective in IS departments in 2 and 4 year schools. It is not designed for security certification courses.

Emerging Intelligent Computing Technology and Applications Cisco Press

This book constitutes the refereed proceedings of the 8th International Conference on Intelligent Computing, ICIC 2012, held in Huangshan, China, in July 2012. The 242 revised full papers presented in the three volumes LNCS 7389, LNAI 7390, and CCIS 304 were carefully reviewed and selected from 753 submissions. The papers in this volume (CCIS 304) are organized in topical sections on Neural Networks; Particle Swarm Optimization and Niche Technology; Kernel Methods and Supporting Vector Machines; Biology Inspired Computing and Optimization; Knowledge Discovery and Data Mining; Intelligent Computing in Bioinformatics; Intelligent Computing in Pattern Recognition; Intelligent Computing in Image Processing; Intelligent Computing in Computer Vision; Intelligent Control and Automation; Knowledge Representation/Reasoning and Expert Systems; Advances in Information Security; Protein and Gene Bioinformatics; Soft Computing and Bio-Inspired Techniques in Real-World Applications; Bio-Inspired Computing and Applications.

Applied Network Security Monitoring Pearson IT Certification

This book highlights several gaps that have not been addressed in existing cyber security research. It first discusses the recent attack prediction techniques that utilize one or more aspects of information to create attack prediction models. The second part is dedicated to new trends on information fusion and their applicability to cyber security; in particular, graph data analytics for cyber security, unwanted traffic detection and control based on trust management software defined networks, security in wireless sensor networks & their applications, and emerging trends in security system design using the concept of social behavioral biometric. The book guides the design of new commercialized tools that can be introduced to improve the accuracy of existing attack prediction models. Furthermore, the book advances the use of Knowledge-based Intrusion Detection Systems (IDS) to complement existing IDS technologies. It is aimed towards cyber security researchers.

THE NICE CYBER SECURITY FRAMEWORK

Cisco Press

Network threats are emerging and changing faster than ever before. Cisco Next-Generation Network Security technologies give you all the visibility and control you need to anticipate and meet tomorrow's threats, wherever they appear. Now, three Cisco network security experts introduce these products and solutions, and offer expert guidance for planning, deploying, and operating them. The authors present authoritative coverage of Cisco ASA with FirePOWER Services; Cisco Firepower Threat Defense (FTD); Cisco Next-Generation IPS appliances; the Cisco Web Security Appliance (WSA) with integrated Advanced Malware Protection (AMP); Cisco Email Security Appliance (ESA) with integrated Advanced Malware Protection (AMP); Cisco AMP ThreatGrid Malware Analysis and Threat Intelligence, and the Cisco Firepower Management Center (FMC). You'll find everything you need to succeed: easy-to-follow configurations, application case studies, practical triage and troubleshooting methodologies, and much more. Effectively respond to changing threat landscapes and attack continuums Design Cisco ASA with FirePOWER Services and Cisco Firepower Threat Defense (FTD) solutions Set up, configure, and troubleshoot the Cisco ASA FirePOWER Services module and Cisco Firepower Threat Defense Walk through installing AMP Private Clouds Deploy Cisco AMP for Networks, and configure malware and file policies Implement AMP for Content Security, and configure File Reputation and File Analysis Services Master Cisco AMP for Endpoints, including custom detection, application control, and policy management Make the most of the AMP ThreatGrid dynamic malware analysis engine Manage Next-Generation Security Devices with the Firepower Management Center (FMC) Plan, implement, and configure Cisco Next-Generation IPS—including performance and redundancy Create Cisco Next-Generation IPS custom reports and analyses Quickly identify the root causes of security problems

Information Security and IT Risk Management Cisco Press

Today, security demands unprecedented visibility into your network. Cisco NetFlow can help companies of all sizes achieve and maintain this visibility. Network Security with NetFlow and IPFIX: Big Data Analytics for Information Security is the definitive guide to using NetFlow to strengthen network security. Omar Santos, Technical Leader of Cisco's Product Security Incident Response Team (PSIRT), covers all you need to successfully

capture network telemetry with NetFlow and use it to: See what is actually happening across your entire network Regain control of your network Quickly identify compromised end points and network infrastructure devices Monitor network usage by employees, contractors, or partners Detect firewall misconfigurations and inappropriate access to corporate resources Act effectively during incident response and network forensics Utilize big data analytics to improve IT security Writing for organizations of all sizes, Santos shows how to work with each current version of NetFlow, and several leading open source analyzers. He addresses NetFlow services, versions, and features; shows how to perform Big Data security analyses of Cisco NetFlow data; and explains how NetFlow integrates into broader Cisco Cyber Threat Defense (CTD) solutions. Each chapter presents multiple sample configurations, accompanied by detailed design analyses and realistic case studies.

NETWORK SECURITY THROUGH DATA ANALYSIS

Springer

End-to-End Network Security Defense-in-Depth Best practices for assessing and improving network defenses and responding to security incidents Omar Santos Information security practices have evolved from Internet perimeter protection to an in-depth defense model in which multiple countermeasures are layered throughout the infrastructure to address vulnerabilities and attacks. This is necessary due to increased attack frequency, diverse attack sophistication, and the rapid nature of attack velocity—all blurring the boundaries between the network and perimeter. End-to-End Network Security is designed to counter the new generation of complex threats. Adopting this robust security strategy defends against highly sophisticated attacks that can occur at multiple locations in your network. The ultimate goal is to deploy a set of security capabilities that together create an intelligent, self-defending network that identifies attacks as they occur, generates alerts as appropriate, and then automatically responds. End-to-End Network Security provides you with a comprehensive look at the mechanisms to counter threats to each part of your network. The book starts with a review of network security technologies then covers the six-step methodology for incident response and best practices from proactive security frameworks. Later chapters cover wireless network security, IP telephony security, data center security, and IPv6 security. Finally, several case studies representing small, medium, and large enterprises provide detailed example configurations and implementation strategies of best practices learned in earlier chapters. Adopting the techniques and strategies outlined in this book enables you to prevent day-zero attacks, improve your overall security posture, build strong policies, and deploy intelligent, self-defending networks. “Within these pages, you will find many practical tools, both process related and technology related, that you can draw on to improve your risk mitigation strategies.” —Bruce Murphy, Vice President, World Wide Security Practices, Cisco Omar Santos is a senior network security engineer at Cisco®. Omar has designed, implemented, and supported numerous secure networks for Fortune 500 companies and the U.S. government. Prior to his current role, he was a technical leader within the World Wide Security Practice and the Cisco Technical Assistance Center (TAC), where he taught, led, and mentored many engineers within both organizations. Guard your network with firewalls, VPNs, and intrusion prevention systems Control network access with AAA Enforce security policies with Cisco Network Admission Control (NAC) Learn how to perform risk and threat analysis Harden your network infrastructure, security policies, and procedures against security threats Identify and classify security threats Trace back attacks to their source Learn how to best react to security incidents Maintain visibility and control over your network with the SAVE framework Apply Defense-in-Depth principles to wireless networks, IP telephony networks, data centers, and IPv6 networks This security book is part of the Cisco Press® Networking Technology Series. Security titles from Cisco Press help networking professionals secure critical data and resources, prevent and mitigate network attacks, and build end-to-end self-defending networks. Category: Networking: Security Covers: Network security and incident response

All-in-one Cisco ASA Firepower Services, NGIPS, and AMP No Starch Press

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APWeb 2014 Workshops, SNA, NIS, and IoT, Changsha, China, September 5, 2014, Proceedings Cisco Press

Expert guidance on designing secure networks Understand security best practices and how to take advantage of the networking gear you already have Review designs for campus, edge, and teleworker networks of varying sizes Learn design considerations for device hardening, Layer 2 and Layer 3 security issues, denial of service, IPsec VPNs, and network identity Understand security design considerations for common applications such as DNS, mail, and web Identify the key security roles and placement issues for network security elements such as firewalls, intrusion detection systems, VPN gateways, content filtering, as well as for traditional network infrastructure devices such as routers and switches Learn 10 critical steps to designing a security system for your network Examine secure network management designs that allow your management communications to be secure while still maintaining maximum utility Try your hand at security design with three included case studies Benefit from the experience of the principal architect of the original Cisco Systems SAFE Security Blueprint Written by the principal architect of the original Cisco Systems SAFE Security Blueprint, Network Security Architectures is your comprehensive how-to guide to designing and implementing a secure network. Whether your background is security or

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networking, you can use this book to learn how to bridge the gap between a highly available, efficient network and one that strives to maximize security. The included secure network design techniques focus on making network and security technologies work together as a unified system rather than as isolated systems deployed in an ad-hoc way. Beginning where other security books leave off, Network Security Architectures shows you how the various technologies that make up a security system can be used together to improve your network's security. The technologies and best practices you'll find within are not restricted to a single vendor but broadly apply to virtually any network system. This book discusses the whys and hows of security, from threats and counter measures to how to set up your security policy to mesh with your network architecture. After learning detailed security best practices covering everything from Layer 2 security to e-commerce design, you'll see how to apply the best practices to your network and learn to design your own security system to incorporate the requirements of your security policy. You'll review detailed designs that deal with today's threats through applying defense-in-depth techniques and work through case studies to find out how to modify the designs to address the unique considerations found in your network. Whether you are a network or security engineer, Network Security Architectures will become your primary reference for designing and building a secure network. This book is part of the Networking Technology Series from Cisco Press, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.

IMPLEMENTING AND OPERATING CISCO SECURITY CORE TECHNOLOGIES

Springer

Traditional intrusion detection and logfile analysis are no longer enough to protect today's complex networks. In this practical guide, security researcher Michael Collins shows you several techniques and tools for collecting and analyzing network traffic datasets. You'll understand how your network is used, and what actions are necessary to protect and improve it. Divided into three sections, this book examines the process of collecting and organizing data, various tools for analysis, and several different analytic scenarios and techniques. It's ideal for network administrators and operational security analysts familiar with scripting. Explore network, host, and service sensors for capturing security data Store data traffic with relational databases, graph databases, Redis, and Hadoop Use SiLK, the R language, and other tools for analysis and visualization Detect unusual phenomena through Exploratory Data Analysis (EDA) Identify significant structures in networks with graph analysis Determine the traffic that's crossing service ports in a network Examine traffic volume and behavior to spot DDoS and database raids Get a step-by-step process for network mapping and inventory

PROVEN METHODS FOR INCIDENT DETECTION ON ENTERPRISE NETWORKS

Elsevier

Network Security With Netflow and IpfixBig Data Analytics for Information SecurityCisco Systems

CCNP and CCIE Security Core SCOR 350-701 Official Cert Guide John Wiley & Sons

All the Knowledge You Need to Build Cybersecurity Programs and Policies That Work Clearly presents best practices, governance frameworks, and key standards Includes focused coverage of healthcare, finance, and PCI DSS compliance An essential and invaluable guide for leaders, managers, and technical professionals Today, cyberattacks can place entire organizations at risk. Cybersecurity can no longer be delegated to specialists: success requires everyone to work together, from leaders on down. Developing Cybersecurity Programs and Policies offers start-to-finish guidance for establishing effective cybersecurity in any organization. Drawing on more than 20 years of real-world experience, Omar Santos presents realistic best practices for defining policy and governance, ensuring compliance, and collaborating to harden the entire organization. First, Santos shows how to develop workable cybersecurity policies and an effective framework for governing them. Next, he addresses risk management, asset management, and data loss prevention, showing how to align functions from HR to physical security. You'll discover best practices for securing communications, operations, and access; acquiring, developing, and maintaining technology; and responding to incidents. Santos concludes with detailed coverage of compliance in finance and healthcare, the crucial Payment Card Industry Data Security Standard (PCI DSS) standard, and the NIST Cybersecurity Framework. Whatever your current responsibilities, this guide will help you plan, manage, and lead cybersecurity—and safeguard all the assets that matter. Learn How To · Establish cybersecurity policies and governance that serve your organization's needs · Integrate cybersecurity program components into a coherent framework for action · Assess, prioritize, and manage security risk throughout the organization · Manage assets and prevent data loss · Work with HR to address human factors in cybersecurity · Harden your facilities and physical environment · Design effective policies for securing communications, operations, and access · Strengthen security throughout the information systems lifecycle · Plan for quick, effective incident response and ensure business continuity · Comply with rigorous regulations in finance and healthcare · Plan for PCI compliance to safely process payments · Explore and apply the guidance provided by the NIST Cybersecurity Framework