

Cisco Firepower Management Center

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CCNP and CCIE Enterprise Core ENCOR 350-401 Official Cert Guide - Bradley Edgeworth 2019-12-02
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/CCIE ENCOR 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 Enterprise Core ENCOR 350-401 Official Cert Guide. This eBook does not include access to the Pearson Test Prep practice exams that comes with the print edition. CCNP and CCIE Enterprise Core ENCOR 350-401 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 enable 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 Enterprise Core ENCOR 350-401 Official Cert Guide focuses specifically on the objectives for the Cisco CCNP/CCIE ENCOR 350-401 exam. Networking experts Brad Edgeworth, Ramiro Garza Rios, Dave Hucaby, and Jason Gooley 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. This complete study package includes* A test-preparation routine proven to help you pass the exams * Do I Know This Already? quizzes, which enable you to decide how much time you need to spend on each section * Chapter-ending exercises, which help you drill on key concepts you must know thoroughly * Practice exercises that help you enhance your knowledge * More than 90 minutes of video mentoring from the author * A final preparation chapter, which guides you through tools and resources to help you craft your review and test-taking strategies * Study plan suggestions and templates to help you organize and optimize your study time 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 enable you to succeed on the exam the first time. The official study guide helps you master all the topics on the CCNP/CCIE ENCOR exam, including * Enterprise network architecture * Virtualization * Network assurance * Security * Automation

31 Days Before Your CCNA Security Exam - Patrick Gargano 2016-06-06

31 Days Before Your CCNA Security Exam 31 Days Before Your CCNA Security Exam offers you an engaging and practical way to understand the certification process, commit to taking the CCNA Security IINS 210-260 certification exam, and finish your preparation using a variety of Primary and Supplemental study resources. The IINS 210-260 exam tests your knowledge of secure network infrastructure, core security concepts, secure access, VPN encryption, firewalls, intrusion prevention, web/email content security, and endpoint security. It also tests your skills for installing, troubleshooting, and monitoring secure networks to maintain the integrity, confidentiality, and availability of data and devices. Sign up for the IINS 210-260 exam and use the book's day-by-day guide and checklist to organize, prepare, and review. Each day in this guide breaks down an exam topic into a manageable bit of information to review using short summaries. A Study Resources section provides you with a quick reference for locating more in-depth

treatment of a day's topics within the Primary and Supplemental resources. The features of the book empower you to fit exam preparation into a busy schedule: · A visual calendar summarizing each day's study topic · A checklist providing advice for preparation activities leading up to the exam · A description of the CCNA Security IINS 210-260 exam organization and sign-up process · Strategies from the author to be mentally, organizationally, and physically prepared for exam day · A conversational tone, which makes your study time more enjoyable Primary Resources: CCNA Security 210-260 Official Cert Guide ISBN-13: 978-1-58720-566-8 CCNA Security Course Booklet Version 2 ISBN-13: 978-1-58713-351-0 CCNA Security Lab Manual Version 2 ISBN-13: 978-1-58713-350-3 Supplemental Resources: CCNA Security 210-260 Complete Video Course ISBN-13: 978-0-13-449931-4 CCNA Security Portable Command Guide, Second Edition ISBN-13: 978-1-58720-575-0 Cisco ASA: All-in-One Next-Generation Firewall, IPS, and VPN Services, Third Edition ISBN-13: 978-1-58714-307-6 Category: Certification Covers: CCNA Security [CCNA Cyber Ops SECOPS - Certification Guide 210-255](#) - Andrew Chu 2019-07-04

Develop your cybersecurity knowledge to obtain CCNA Cyber Ops certification and gain professional skills to identify and remove potential threats Key FeaturesExplore different security analysis tools and develop your knowledge to confidently pass the 210-255 SECOPS examGrasp real-world cybersecurity skills such as threat analysis, event correlation, and identifying malicious activityLearn through mock tests, useful tips, and up-to-date exam questionsBook Description Cybersecurity roles have grown exponentially in the IT industry and an increasing number of organizations have set up security operations centers (SOCs) to monitor and respond to security threats. The 210-255 SECOPS exam is the second of two exams required for the Cisco CCNA Cyber Ops certification. By providing you with fundamental knowledge of SOC events, this certification validates your skills in managing cybersecurity processes such as analyzing threats and malicious activities, conducting security investigations, and using incident playbooks. You'll start by understanding threat analysis and computer forensics, which will help you build the foundation for learning intrusion analysis and incident response principles. The book will then guide you through vocabulary and techniques for analyzing data from the network and previous events. In later chapters, you'll discover how to identify, analyze, correlate, and respond to incidents, including how to communicate technical and inaccessible (non-technical) examples. You'll be able to build on your knowledge as you learn through examples and practice questions, and finally test your knowledge with two mock exams that allow you to put what you've learned to the test. By the end of this book, you'll have the skills to confidently pass the SECOPS 210-255 exam and achieve CCNA Cyber Ops certification. What you will learnGet up to speed with the principles of threat analysis, in a network and on a host deviceUnderstand the impact of computer forensicsExamine typical and atypical network data to identify intrusionsIdentify the role of the SOC, and explore other individual roles in incident responseAnalyze data and events using common frameworksLearn the phases of an incident, and how incident response priorities change for each phaseWho this book is for This book is for anyone who wants to prepare for the Cisco 210-255 SECOPS exam (CCNA Cyber Ops). If you're interested in cybersecurity, have already completed cybersecurity training as part of your formal education, or you work in Cyber Ops and just need a new certification, this book is for you. The certification guide looks at cyber operations from the ground up, consolidating concepts you may or may not have heard

about before, to help you become a better cybersecurity operator.

Cisco Certified CyberOps Associate 200-201 Certification Guide - Glen D. Singh 2021-06-04

Begin a successful career in cybersecurity operations by achieving Cisco Certified CyberOps Associate 200-201 certification

Key Features Receive expert guidance on how to kickstart your career in the cybersecurity industry Gain hands-on experience while studying for the Cisco Certified CyberOps Associate certification exam Work through practical labs and exercises mapped directly to the exam objectives

Book Description Achieving the Cisco Certified CyberOps Associate 200-201 certification helps you to kickstart your career in cybersecurity operations. This book offers up-to-date coverage of 200-201 exam resources to fully equip you to pass on your first attempt. The book covers the essentials of network security concepts and shows you how to perform security threat monitoring. You'll begin by gaining an in-depth understanding of cryptography and exploring the methodology for performing both host and network-based intrusion analysis. Next, you'll learn about the importance of implementing security management and incident response strategies in an enterprise organization. As you advance, you'll see why implementing defenses is necessary by taking an in-depth approach, and then perform security monitoring and packet analysis on a network. You'll also discover the need for computer forensics and get to grips with the components used to identify network intrusions. Finally, the book will not only help you to learn the theory but also enable you to gain much-needed practical experience for the cybersecurity industry. By the end of this Cisco cybersecurity book, you'll have covered everything you need to pass the Cisco Certified CyberOps Associate 200-201 certification exam, and have a handy, on-the-job desktop reference guide. What you will learn

Incorporate security into your architecture to prevent attacks Discover how to implement and prepare secure designs Identify access control models for digital assets Identify point of entry, determine scope, contain threats, and remediate Find out how to perform malware analysis and interpretation Implement security technologies to detect and analyze threats

Who this book is for This book is for students who want to pursue a career in cybersecurity operations, threat detection and analysis, and incident response. IT professionals, network security engineers, security operations center (SOC) engineers, and cybersecurity analysts looking for a career boost and those looking to get certified in Cisco cybersecurity technologies and break into the cybersecurity industry will also benefit from this book. No prior knowledge of IT networking and cybersecurity industries is needed.

Mobile Collaboration - Fouad Sabry 2022-07-10

What Is Mobile Collaboration The method of interacting with the help of electronic assets and software that is intended for usage in faraway places is referred to as mobile collaboration. Handheld electronic gadgets of the newest generation offer video, audio, and telestration capabilities that can be transmitted across secure networks. This makes it possible for several parties to participate in real-time conferencing. How You Will Benefit (I) Insights, and validations about the following topics: Chapter 1: Mobile collaboration Chapter 2: Wireless Chapter 3: Telepresence Chapter 4: Wireless sensor network Chapter 5: Heterogeneous network Chapter 6: Skype for Business Server Chapter 7: Videotelephony Chapter 8: Cisco certifications Chapter 9: Machine to machine Chapter 10: H.323 Chapter 11: List of Bluetooth profiles Chapter 12: Internet of things Chapter 13: Monsoon Multimedia Chapter 14: Unified communications Chapter 15: mHealth Chapter 16: Tata Communications Chapter 17: Librestream Chapter 18: Body area network Chapter 19: Fuze (company) Chapter 20: Unified communications management Chapter 21: List of Cisco products (II) Answering the public top questions about mobile collaboration. (III) Real world examples for the usage of mobile collaboration in many fields. (IV) 17 appendices to explain, briefly, 266 emerging technologies in each industry to have 360-degree full understanding of mobile collaboration' technologies.

Who This Book Is For Professionals, undergraduate and graduate students, enthusiasts, hobbyists, and those who want to go beyond basic knowledge or information for any kind of mobile collaboration.

CCNA Cyber Ops SECFND #210-250 Official Cert Guide - Omar Santos 2017-04-04

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

Mastering Palo Alto Networks - Tom Piens 2020-09-07

Set up next-generation firewalls from Palo Alto Networks and get to grips with configuring and troubleshooting using the PAN-OS platform

Key Features Understand how to optimally use PAN-OS features Build firewall solutions to safeguard local, cloud, and mobile networks Protect your infrastructure and users by implementing robust threat prevention solutions

Book Description To safeguard against security threats, it is crucial to ensure that your organization is effectively secured across networks, mobile devices, and the cloud. Palo Alto Networks' integrated platform makes it easy to manage network and cloud security along with endpoint protection and a wide range of security services. With this book, you'll understand Palo Alto Networks and learn how to implement essential techniques, right from deploying firewalls through to advanced troubleshooting. The book starts by showing you how to set up and configure the Palo Alto Networks firewall, helping you to understand the technology and appreciate the simple, yet powerful, PAN-OS platform. Once you've explored the web interface and command-line structure, you'll be able to predict expected behavior and troubleshoot anomalies with confidence. You'll learn why and how to create strong security policies and discover how the firewall protects against encrypted threats. In addition to this, you'll get to grips with identifying users and controlling access to your network with user IDs and even prioritize traffic using quality of service (QoS). The book will show you how to enable special modes on the firewall for shared environments and extend security capabilities to smaller locations. By the end of this network security book, you'll be well-versed with advanced troubleshooting techniques and best practices recommended by an experienced security engineer and Palo Alto Networks expert. What you will learn

Perform administrative tasks using the web interface and command-line interface (CLI) Explore the core technologies that will help you boost your network security Discover best practices and considerations for configuring security policies Run and interpret troubleshooting and debugging commands Manage firewalls through Panorama to reduce administrative workloads Protect your network from malicious traffic via threat prevention

Who this book is for This book is for network engineers, network security analysts, and security professionals who want to understand and deploy Palo Alto Networks in their infrastructure. Anyone looking for in-depth knowledge of Palo Alto Network technologies, including those who currently use Palo Alto Network products, will find this book useful. Intermediate-level network administration knowledge is necessary to get started with this cybersecurity book.

CCNP Security Cisco Secure Firewall and Intrusion Prevention System Official Cert Guide -

Nazmul Rajib 2022-06-25

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. CCNP Security Cisco Firepower SNCF 300-710 Official Cert Guide presents you with an organized test preparation routine using 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. Master CCNP Security Securing Networks with Cisco Firepower (SNCF 300-710) exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks Practice with realistic exam questions in the practice test software CCNP Security Cisco Firepower SNCF 300-710 Official Cert Guide, from Cisco Press allows you to succeed on the exam the first time and is the only self-study resource approved by Cisco. Author Nazmul Rajib shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. This complete study package includes A test-preparation routine proven to help you pass the exams Do I Know This Already? quizzes, which allow you to decide how much time you need to spend on each section Chapter-ending and part-ending exercises, which help you drill on key concepts you must know thoroughly Study plan suggestions and templates to help you organize and optimize your study time Well regarded for its level of detail, study plans, assessment features, challenging review questions and exercises, and video instruction, this official study guide helps you master the concepts and techniques that ensure your exam success. This official study guide helps you master all the topics on the Securing Networks with Cisco Firepower (SNCF 300-710) exam, including Policy configurations Integrations Deployments Management and troubleshooting **SSFIPS Securing Cisco Networks with Sourcefire Intrusion Prevention System Study Guide** - Todd Lammler 2015-10-13

Cisco has announced big changes to its certification program. As of February 24, 2020, all current certifications will be retired, and Cisco will begin offering new certification programs. The good news is if you're working toward any current CCNA certification, keep going. You have until February 24, 2020 to complete your current CCNA. If you already have CCENT/ICND1 certification and would like to earn CCNA, you have until February 23, 2020 to complete your CCNA certification in the current program. Likewise, if you're thinking of completing the current CCENT/ICND1, ICND2, or CCNA Routing and Switching certification, you can still complete them between now and February 23, 2020. Up the ante on your FirePOWER with Advanced FireSIGHT Administration exam prep Securing Cisco Networks with Sourcefire IPS Study Guide, Exam 500-285, provides 100% coverage of the FirePOWER with Advanced FireSIGHT Administration exam objectives. With clear and concise information regarding crucial next-generation network security topics, this comprehensive guide includes practical examples and insights drawn from real-world experience, exam highlights, and end of chapter reviews. Learn key exam topics and powerful features of the Cisco FirePOWER Services, including FireSIGHT Management Center, in-depth event analysis, IPS tuning and configuration, and snort rules language. Gain access to Sybex's superior online learning environment that includes practice questions, flashcards, and interactive glossary of terms. Use and configure next-generation Cisco FirePOWER services, including application control, firewall, and routing and switching capabilities Understand how to accurately tune your systems to improve performance and network intelligence while leveraging powerful tools for more efficient event analysis Complete hands-on labs to reinforce key concepts and prepare you for the practical applications portion of the examination Access Sybex's online interactive learning environment and test bank, which includes an assessment test, chapter tests, bonus practice exam questions, electronic flashcards, and a searchable glossary Securing Cisco Networks with Sourcefire IPS Study Guide, Exam 500-285 provides you with the information you need to prepare for the FirePOWER with Advanced FireSIGHT Administration examination.

From LTE to LTE-Advanced Pro and 5G - Moe Rahnama 2017-09-30

This practical hands-on new resource presents LTE technologies from end-to-end, including network planning and the optimization tradeoff process. This book examines the features of LTE-Advanced and LTE-Advanced Pro and how they integrate into existing LTE networks. Professionals find in-depth coverage of how the air interface is structured at the physical layer and how the related link level protocols are designed and work. This resource highlights potential 5G solutions as considered in releases 14 and beyond, the migration paths, and the challenges involved with the latest updates and standardization process. Moreover, the book covers performance analysis and results, as well as SON specifications and realization. Readers learn about OFDMA, and how DFT is used to implement it. Link budgeting, parameter

estimations, and network planning and sizing is explained. Insight into core network architecture is provided, including the protocols and signaling used for both data and voice services. The book also presents a detailed chapter on the end-to-end data transfer optimization mechanisms based on the TCP protocol. This book provides the tools needed for network planning and optimization while addressing the challenges of LTE and LTE-advanced networks.

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.

Designing for Cisco Network Service Architectures (ARCH) Foundation Learning Guide - Marwan Al-shawi 2016-12-27

Designing for Cisco Network Service Architectures (ARCH) Foundation Learning Guide, Fourth Edition · Learn about the Cisco modular enterprise architecture · Create highly available enterprise network designs · Develop optimum Layer 3 designs · Examine advanced WAN services design considerations · Evaluate data center design considerations · Design effective modern WAN and data center designs · Develop effective migration approaches to IPv6 · Design resilient IP multicast networks · Create effective network security designs Designing for Cisco Network Service Architectures (ARCH) Foundation Learning Guide , Fourth Edition, is a Cisco-authorized, self-paced learning tool for CCDP foundation learning. This book provides you with the knowledge needed to perform the conceptual, intermediate, and detailed design of a network infrastructure that supports desired network solutions over intelligent network services to achieve effective performance, scalability, and availability. This book presents concepts and examples necessary to design converged enterprise networks. You learn additional aspects of modular campus design, advanced routing designs, WAN service designs, enterprise data center design, IP multicast design, and security design. Advanced and modern network infrastructure solutions, such as virtual private networks (VPN), Cisco Intelligent WAN (IWAN), and Cisco Application-Centric Infrastructure (ACI), are also covered. Chapter-ending review questions illustrate and help solidify the concepts presented in the book. Whether you are preparing for CCDP certification or CCDE certification, or simply want to gain a better understanding of designing scalable and reliable network architectures, you will benefit from the

foundation information presented in this book. Designing for Cisco Network Service Architectures (ARCH) Foundation Learning Guide, Fourth Edition, 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 <https://learningnetwork.cisco.com>.

Category: Cisco Certification Covers: CCDP ARCH 300-320

Cisco IOS Access Lists - Jeff Sedayao 2001

This guide focuses on access lists that are critical to network and Internet security. Access lists are a main part of the Cisco IOS that are used to control access, route traffic and specify packet filtering for firewalls.

Essential Firepower - Alex Tatistcheff 2019-05-06

This book is focused on Firepower essentials. In it, you will find practical, best practice recommendations for configuring and using Firepower. Each best practice is listed in the table of contents so you can quickly find it along with an explanation of why it is important. Essential Firepower will help you learn how to effectively configure and use this system, what is important, and what is not. The best way to use this book is to read each of the recommendations with their associated explanation and decide if they are right for you. Not every recommendation will be applicable to your Firepower deployment. However, you will find that most will provide valuable real-world information and insight into the type of tuning that will bring out the true value and potential of your Firepower system. The goal of this book is not to be just another tome on the switches, knobs and dials available to configure and tune the Firepower NGFW. The primary focus is to provide pragmatic, real-life information and advice to network and security administrators who use this system day-to-day. You will get the benefit of the author's 14 years of experience as a user, instructor and consultant with the Sourcefire 3D and FireSIGHT/Firepower system. If you are ready to learn the practical application of Firepower technology, and to gain understanding you won't get from the official documentation, then this book is for you.

CCIE - John Swartz 2001

With maps to the official Cisco CCIE exam blueprint, this low-cost alternative to course work holds the key to mastering the exam. The CD features an advanced test engine with a bonus exam, electronic flash cards for PC and Palm devices, evaluation version of Visio software, and demo of Router Simulation software.

CCIE/CCNP Security Exam 300-710 - Donald Robb 2021-03-25

Best Selling Cisco Author Todd Lammle, Donald Robb and Alsouqi have just completed their newest study guide: CCNP Security Securing Networks with Cisco Firepower (SNCF) 300-710 Volume II-the most popular CCNP Security elective! This book, written by the preeminent Cisco Firepower expert, thoroughly covers the Cisco CCNP SNCF exam objectives in a step-by-step, user friendly manner that will help get you through the grueling Cisco exam the first time! Covers ALL the CCNP Security Cisco Firepower SNCF 300-710 exam objectives! Real life examples abound in this book! You will go step-by-step through setting up a Cisco Firepower Management Center (FMC) and Cisco Firepower Threat Defense (FTD), as well as the Firepower 7000/8000 Appliances. Learn the following: Install a virtual and hardware FMC with System configuration, licensing and health policy, and then bring your devices into the FMC to be managed. Install a Cisco Firepower Appliance using inline, passive, switching, routing and BVI. Includes 4100/9300 Install with FXOS and Chassis Manager in-depth! Learn and configure High Availability for hardware FMC's and all FTD devices, followed by an intense monitoring and troubleshooting section. Configure FXOS Chassis Manager and bring up a virtual FTD and ASA image, as well as RadWare. Configure multi-instance on the Chassis manager, and then understand what a cluster is and how to configure a cluster. Most importantly, understand the traffic flow which is very important on the exam and not written anywhere else! Learn about FTD 1000/2100/4100 and 9300 new Devices and how to install, perform password recovery and how to bring them into a FMC! Install a Cisco Firepower Threat Defense (FTD) and configure it with IP addresses, IP routing, NAT and VPN. Prepare it to be managed by a FMC. Configure the full Snort process of Security Intelligence (SI), Prefilter, DNS Policy, SSL Policy, Network Analyst Policy (NAP), AD Identity Policy and Realms, the main Access Control Policy, QoS, Firepower Network Discovery, File & Malware Policy, IPS policy, Advanced IPS policy, User Management, Advanced Network Analysis and more! Experience the detailed step-by-step building of an intense and detailed Access Control Policy (ACP), designed by the most

experienced Firepower instructor/consultant that you can use in your own network! Learn how to tune your Cisco FMC policies with advanced network analysis tools found only in this book! Create, configure and manage a Cisco Snort IPS policy in detail, and fine tune it! Created by an author with more than 30 years' experience in Cisco, and over 10,000 FTD device installs! The amount of Cisco Firepower knowledge in this book cannot be beat! This book is focused on the CCNP Security Cisco Firepower SNCF objectives! You Will Pass! Add a www.lammle.com/firepower membership to gain intense practice questions, detailed videos that go through every chapter of this book, and also rent pods for lab practice!

High-Speed Networks - Jorge Crichigno 2022

This book provides practical knowledge and skills on high-speed networks, emphasizing on Science Demilitarized Zones (Science DMZs). The Science DMZ is a high-speed network designed to facilitate the transfer of big science data which is presented in this book. These networks are increasingly important, as large data sets are now often transferred across sites. This book starts by describing the limitations of general-purpose networks which are designed for transferring basic data but face numerous challenges when transferring terabyte- and petabyte-scale data. This book follows a bottom-up approach by presenting an overview of Science DMZs and how they overcome the limitations of general-purpose networks. It also covers topics that have considerable impact on the performance of large data transfers at all layers: link layer (layer-2) and network layer (layer-3) topics such as maximum transmission unit (MTU), switch architectures, and routers buffer size; transport layer (layer-4) topics including TCP features, congestion control algorithms for high-throughput high-latency networks, flow control, and pacing; applications (layer-5) used for large data transfers and for maintenance and operation of Science DMZs; and security considerations. Most chapters incorporate virtual laboratory experiments, which are conducted using network appliances running real protocol stacks. Students in computer science, information technology and similar programs, who are interested in learning fundamental concepts related to high-speed networks and corresponding implementations will find this book useful as a textbook. This book assumes minimal familiarity with networking, typically covered in an introductory networking course. It is appropriate for an upper-level undergraduate course and for a first-year graduate course. Industry professionals working in this field will also want to purchase this book.

Integrated Security Technologies and Solutions - Volume I - Aaron Woland 2018-05-02

The essential reference for security pros and CCIE Security candidates: policies, standards, infrastructure/perimeter and content security, and threat protection Integrated Security Technologies and Solutions - Volume I offers one-stop expert-level instruction in security design, deployment, integration, and support methodologies to help security professionals manage complex solutions and prepare for their CCIE exams. It will help security pros succeed in their day-to-day jobs and also get ready for their CCIE Security written and lab exams. Part of the Cisco CCIE Professional Development Series from Cisco Press, it is authored by a team of CCIEs who are world-class experts in their Cisco security disciplines, including co-creators of the CCIE Security v5 blueprint. Each chapter starts with relevant theory, presents configuration examples and applications, and concludes with practical troubleshooting. Volume 1 focuses on security policies and standards; infrastructure security; perimeter security (Next-Generation Firewall, Next-Generation Intrusion Prevention Systems, and Adaptive Security Appliance [ASA]), and the advanced threat protection and content security sections of the CCIE Security v5 blueprint. With a strong focus on interproduct integration, it also shows how to combine formerly disparate systems into a seamless, coherent next-generation security solution. Review security standards, create security policies, and organize security with Cisco SAFE architecture Understand and mitigate threats to network infrastructure, and protect the three planes of a network device Safeguard wireless networks, and mitigate risk on Cisco WLC and access points Secure the network perimeter with Cisco Adaptive Security Appliance (ASA) Configure Cisco Next-Generation Firewall Firepower Threat Defense (FTD) and operate security via Firepower Management Center (FMC) Detect and prevent intrusions with Cisco Next-Gen IPS, FTD, and FMC Configure and verify Cisco IOS firewall features such as ZBFW and address translation Deploy and configure the Cisco web and email security appliances to protect content and defend against advanced threats Implement Cisco Umbrella Secure Internet Gateway in the cloud as your first line of defense against internet threats Protect against new malware with Cisco Advanced Malware Protection and Cisco

ThreatGrid

Integrated Security Technologies and Solutions - Volume II - Aaron Woland 2019-03-28

The essential reference for security pros and CCIE Security candidates: identity, context sharing, encryption, secure connectivity and virtualization Integrated Security Technologies and Solutions - Volume II brings together more expert-level instruction in security design, deployment, integration, and support. It will help experienced security and network professionals manage complex solutions, succeed in their day-to-day jobs, and prepare for their CCIE Security written and lab exams. Volume II focuses on the Cisco Identity Services Engine, Context Sharing, TrustSec, Application Programming Interfaces (APIs), Secure Connectivity with VPNs, and the virtualization and automation sections of the CCIE v5 blueprint. Like Volume I, its strong focus on interproduct integration will help you combine formerly disparate systems into seamless, coherent, next-generation security solutions. Part of the Cisco CCIE Professional Development Series from Cisco Press, it is authored by a team of CCIEs who are world-class experts in their Cisco security disciplines, including co-creators of the CCIE Security v5 blueprint. Each chapter starts with relevant theory, presents configuration examples and applications, and concludes with practical troubleshooting. Review the essentials of Authentication, Authorization, and Accounting (AAA) Explore the RADIUS and TACACS+ AAA protocols, and administer devices with them Enforce basic network access control with the Cisco Identity Services Engine (ISE) Implement sophisticated ISE profiling, EzConnect, and Passive Identity features Extend network access with BYOD support, MDM integration, Posture Validation, and Guest Services Safely share context with ISE, and implement pxGrid and Rapid Threat Containment Integrate ISE with Cisco FMC, WSA, and other devices Leverage Cisco Security APIs to increase control and flexibility Review Virtual Private Network (VPN) concepts and types Understand and deploy Infrastructure VPNs and Remote Access VPNs Virtualize leading Cisco Security products Make the most of Virtual Security Gateway (VSG), Network Function Virtualization (NFV), and microsegmentation

CCNP and CCIE Security Core SCOR 350-701 Official Cert Guide - Omar Santos 2020-04-14

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

Cisco Firepower 6.x with Firepower Threat Defense - Alex Tatistcheff 2017-04-13

Learn how to administrate a Cisco Firepower with Firepower Threat Defense system! Understand Cisco's Threat-Focused Next Generation Firewall (NGFW) with Optiflow Processing The Cisco NGFW/IPS is the the industries best security product, so now is the time to up your skills with with Cisco's Firepower technologies. Learn step-by-step with the worlds leading Firepower experts, Todd Lammle and Alex Tatistcheff, on how you can configure, maintain, troubleshoot and analyze your network with easy, detailed information each security policy. All Firepower policies covered, including IPS/Snort, DNS, SSL, Identity (Active and Passive), Network Discovery, Pre-filter, Correlation, File & Malware, Access Control, Network Analysis Policy, and more!

Ccie/CCNP Security SnCF 300-710 - Todd Lammle 2020-04-06

Best Selling Cisco Author Todd Lammle has just completed his newest study guide: CCNP Security Securing Networks with Cisco Firepower (SNCF) 300-710-the most popular CCNP Security elective! This book, written by the preeminent Cisco Firepower expert, thoroughly covers the Cisco CCNP SNCF exam objectives in a step-by-step, user friendly manner that will help get you through the grueling Cisco exam the first time!Covers ALL the CCNP Security Cisco Firepower SNCF 300-710 exam objectives! Real life examples abound in this book!You will go step-by-step through setting up a Cisco Firepower Management Center (FMC) and Cisco Firepower Threat Defense (FTD), as well as the Firepower 7000/8000 Appliances.Learn the following: Install a virtual and hardware FMC with System configuration, licensing and health policy, and then bring your devices into the FMC to be managed.Install a Cisco Firepower Appliance using inline, passive, switching, routing and BVI.Includes 4100/9300 Install with FXOS and Chassis Manager in-depth!Learn and configure High Availability for hardware FMC's and all FTD devices, followed by an intense monitoring and troubleshooting section.Configure FXOS Chassis Manager and bring up a virtual FTD and ASA image, as well as RadWare. Configure multi-instance on the Chassis manager, and then understand what a cluster is and how to configure a cluster. Most importantly, understand the traffic flow which is very important or the exam and not written anywhere else! Learn about FTD 1000/2100/4100 and 9300 new Devices and how to install, perform password recovery and how to bring them into a FMC!Install a Cisco Firepower Threat Defense (FTD) and configure it with IP addresses, IP routing, NAT and VPN. Prepare it to be managed by a FMCConfigure the full Snort process of Security Intelligence (SI), Prefilter, DNS Policy, SSL Policy, Network Analyst Policy (NAP), AD Identity Policy and Realms, the main Access Control Policy, QoS, Firepower Network Discovery, File & Malware Policy, IPS policy, Advanced IPS policy, User Management, Advanced Network Analysis and more!Experience the detailed step-by-step building of an intense and detailed Access Control Policy (ACP), designed by the most experienced Firepower instructor/consultant that you can use in your own network!Learn how to tune your Cisco FMC policies with advanced network analysis tools found only in this book! Create, configure and manage a Cisco Snort IPS policy in detail, and fine tune it!Created by an author with more than 30 years' experience in Cisco, and over 10,000 FTD device installs! The amount of Cisco Firepower knowledge in this book cannot be beat!This book is focused on the CCNP Security Cisco Firepower SNCF objectives! You Will Pass!Add a www.lammle.com/firepower membership to gain intense practice questions, detailed videos that go through every chapter of this book, and also rent pods for lab practice!

IPv6 Security - Scott Hogg 2008-12-11

IPv6 Security Protection measures for the next Internet Protocol As the world's networks migrate to the IPv6 protocol, networking professionals need a clearer understanding of the security risks, threats, and challenges this transition presents. In IPv6 Security, two of the world's leading Internet security practitioners review each potential security issue introduced by IPv6 networking and present today's best solutions. IPv6 Security offers guidance for avoiding security problems prior to widespread IPv6 deployment. The book covers every component of today's networks, identifying specific security deficiencies that occur within IPv6 environments and demonstrating how to combat them. The authors describe best practices for identifying and resolving weaknesses as you maintain a dual stack network. Then they describe the security mechanisms you need to implement as you migrate to an IPv6-only network. The authors survey the techniques hackers might use to try to breach your network, such as IPv6

network reconnaissance, address spoofing, traffic interception, denial of service, and tunnel injection. The authors also turn to Cisco® products and protection mechanisms. You learn how to use Cisco IOS® and ASA firewalls and ACLs to selectively filter IPv6 traffic. You also learn about securing hosts with Cisco Security Agent 6.0 and about securing a network with IOS routers and switches. Multiple examples are explained for Windows, Linux, FreeBSD, and Solaris hosts. The authors offer detailed examples that are consistent with today's best practices and easy to adapt to virtually any IPv6 environment. Scott Hogg, CCIE® No. 5133, is Director of Advanced Technology Services at Global Technology Resources, Inc. (GTRI). He is responsible for setting the company's technical direction and helping it create service offerings for emerging technologies such as IPv6. He is the Chair of the Rocky Mountain IPv6 Task Force. Eric Vyncke, Cisco Distinguished System Engineer, consults on security issues throughout Europe. He has 20 years' experience in security and teaches security seminars as a guest professor at universities throughout Belgium. He also participates in the Internet Engineering Task Force (IETF) and has helped several organizations deploy IPv6 securely. Understand why IPv6 is already a latent threat in your IPv4-only network Plan ahead to avoid IPv6 security problems before widespread deployment Identify known areas of weakness in IPv6 security and the current state of attack tools and hacker skills Understand each high-level approach to securing IPv6 and learn when to use each Protect service provider networks, perimeters, LANs, and host/server connections Harden IPv6 network devices against attack Utilize IPsec in IPv6 environments Secure mobile IPv6 networks Secure transition mechanisms in use during the migration from IPv4 to IPv6 Monitor IPv6 security Understand the security implications of the IPv6 protocol, including issues related to ICMPv6 and the IPv6 header structure Protect your network against large-scale threats by using perimeter filtering techniques and service provider—focused security practices Understand the vulnerabilities that exist on IPv6 access networks and learn solutions for mitigating each 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: IPv6 Security

Security Operations Center - Joseph Muniz 2015-11-02

Security Operations Center Building, Operating, and Maintaining Your SOC The complete, practical guide to planning, building, and operating an effective Security Operations Center (SOC) Security Operations Center is the complete guide to building, operating, and managing Security Operations Centers in any environment. Drawing on experience with hundreds of customers ranging from Fortune 500 enterprises to large military organizations, three leading experts thoroughly review each SOC model, including virtual SOCs. You'll learn how to select the right strategic option for your organization, and then plan and execute the strategy you've chosen. Security Operations Center walks you through every phase required to establish and run an effective SOC, including all significant people, process, and technology capabilities. The authors assess SOC technologies, strategy, infrastructure, governance, planning, implementation, and more. They take a holistic approach considering various commercial and open-source tools found in modern SOCs. This best-practice guide is written for anybody interested in learning how to develop, manage, or improve a SOC. A background in network security, management, and operations will be helpful but is not required. It is also an indispensable resource for anyone preparing for the Cisco SCYBER exam. · Review high-level issues, such as vulnerability and risk management, threat intelligence, digital investigation, and data collection/analysis · Understand the technical components of a modern SOC · Assess the current state of your SOC and identify areas of improvement · Plan SOC strategy, mission, functions, and services · Design and build out SOC infrastructure, from facilities and networks to systems, storage, and physical security · Collect and successfully analyze security data · Establish an effective vulnerability management practice · Organize incident response teams and measure their performance · Define an optimal governance and staffing model · Develop a practical SOC handbook that people can actually use · Prepare SOC to go live, with comprehensive transition plans · React quickly and collaboratively to security incidents · Implement best practice security operations, including continuous enhancement and improvement

CCNA Cyber Ops SECOPS 210-255 Official Cert Guide - Omar Santos 2017-06-08

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

Transforming Campus Networks to Intent-Based Networking - Pieter-Jan Nefkens 2019-12-23

Migrate to Intent-Based Networking—and improve network manageability, cost, agility, security, and simplicity With Intent-Based Networking (IBN), you can create networks that capture and automatically activate business intent, assure that your network responds properly, proactively detect and contain security threats, and remedy network issues before users even notice. Intent-Based Networking makes networks far more valuable, but few organizations have the luxury of building them from the ground up. In this book, leading expert Pieter-Jans Nefkens presents a unique four-phase approach to preparing and transforming campus network infrastructures, architectures, and organization—helping you gain maximum value from IBN with minimum disruption and cost. The author reviews the problems IBN is intended to solve, and illuminates its technical, business, and cultural implications. Drawing on his pioneering experience, he makes specific recommendations, identifies pitfalls, and shows how to overcome them. You'll learn how to implement IBN with the Cisco Digital Network Architecture and DNA Center and walk through real-world use cases. In a practical appendix, Nefkens even offers detailed technical configurations to jumpstart your own transformation. Review classic campus network deployments and understand why they need to change Learn how Cisco Digital Network Architecture (DNA) provides a solid foundation for state-of-the-art next generation network infrastructures Understand “intent” and how it can be applied to network infrastructure Explore tools for enabling, automating, and assuring Intent-Based Networking within campus networks Transform to Intent-Based Networking using a four-phased approach: Identify challenges; Prepare for Intent; Design and Deploy; and Enable Intent Anticipate how Intent-Based Networking will change your enterprise architecture, IT operations, and business

Cisco Firepower Threat Defense (FTD) - Nazmul Rajib 2017-11-21

The authoritative visual guide to Cisco Firepower Threat Defense (FTD) This is the definitive guide to best practices and advanced troubleshooting techniques for the Cisco flagship Firepower Threat Defense (FTD) system running on Cisco ASA platforms, Cisco Firepower security appliances, Firepower eXtensible Operating System (FXOS), and VMware virtual appliances. Senior Cisco engineer Nazmul Rajib draws on unsurpassed experience supporting and training Cisco Firepower engineers worldwide, and presenting detailed knowledge of Cisco Firepower deployment, tuning, and troubleshooting. Writing for cybersecurity consultants, service providers, channel partners, and enterprise or government security professionals, he shows how to deploy the Cisco Firepower next-generation security technologies to protect your network from potential cyber threats, and how to use Firepower's robust command-line tools to investigate a wide variety of technical issues. Each consistently organized chapter contains definitions of keywords, operational flowcharts, architectural diagrams, best practices, configuration steps (with detailed screenshots), verification tools, troubleshooting techniques, and FAQs drawn directly from issues raised by Cisco customers at the Global Technical Assistance Center (TAC). Covering key Firepower materials on the

CCNA Security, CCNP Security, and CCIE Security exams, this guide also includes end-of-chapter quizzes to help candidates prepare. · Understand the operational architecture of the Cisco Firepower NGFW, NGIPS, and AMP technologies · Deploy FTD on ASA platform and Firepower appliance running FXOS · Configure and troubleshoot Firepower Management Center (FMC) · Plan and deploy FMC and FTD on VMware virtual appliance · Design and implement the Firepower management network on FMC and FTD · Understand and apply Firepower licenses, and register FTD with FMC · Deploy FTD in Routed, Transparent, Inline, Inline Tap, and Passive Modes · Manage traffic flow with detect-only, block, trust, and bypass operations · Implement rate limiting and analyze quality of service (QoS) · Blacklist suspicious IP addresses via Security Intelligence · Block DNS queries to the malicious domains · Filter URLs based on category, risk, and reputation · Discover a network and implement application visibility and control (AVC) · Control file transfers and block malicious files using advanced malware protection (AMP) · Halt cyber attacks using Snort-based intrusion rule · Masquerade an internal host's original IP address using Network Address Translation (NAT) · Capture traffic and obtain troubleshooting files for advanced analysis · Use command-line tools to identify status, trace packet flows, analyze logs, and debug messages
The Water Supply of Sussex - William Whitaker 1899

Cisco Next-Generation Security Solutions - Omar Santos 2016-07-06

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
CCNP Enterprise Certification Study Guide: Implementing and Operating Cisco Enterprise Network Core Technologies - Ben Piper 2020-06-03

The practical and conceptual knowledge you need to attain CCNP Enterprise certification From one of the most trusted study guide publishers comes CCNP Enterprise Certification Study Guide: Exam 350-401. This guide helps you develop practical knowledge and best practices for critical aspects of enterprise infrastructure so you can gain your CCNP Enterprise certification. If you're hoping to attain a broader range of skills and a solid understanding of Cisco technology, this guide will also provide fundamental concepts for learning how to implement and operate Cisco enterprise network core technologies. By focusing on real-world skills, each chapter prepares you with the knowledge you need to excel in your current role and beyond. It covers emerging and industry-specific topics, such as SD-WAN, network design, wireless, and automation. This practical guide also includes lessons on: ● Automation ● Network assurance ● Security ● Enterprise infrastructure ● Dual-stack architecture ● Virtualization In addition to helping you gain enterprise knowledge, this study guide can lead you toward your Cisco specialist certification. When you purchase this guide, you get access to the information you need to prepare yourself for advances in

technology and new applications, as well as online study tools such as: ● Bonus practice exams ● Pre-made flashcards ● Glossary of key terms ● Specific focus areas Expand your skillset and take your career to the next level with CCNP Enterprise Certification Study Guide.

Experiences Installing Firepower Services on an ASA5525X Technical Enablement Series - Aaron Lewis 2019-10-07

This IBM Redpaper describes a case study that involves software and hardware from Cisco Systems, Inc. Specifically, a Cisco FirePOWER module — also known as a SourceFire (SFR) module — was installed on a Cisco Adaptive Security Appliance (ASA). The case study reveals the steps, issues, and decision points of such an installation. The scope of this case study is as follows: FirePOWER 6.2.0 on an ASA 5525-X running code level 9.6.2 from the Command Line Interface (CLI). We do not discuss the ASDM installation method. This document addresses the needs of Network Administrators, Security Administrators, and other staff who install and manage Intrusion Prevention or Intrusion Detection systems (IPS / IDS). The reader should have a basic understanding of computer networking and be familiar with basic networking terms such as Interface, Access Control Lists (ACL), Domain Name Service (DNS), and Internet Protocol (IP) address.
CCIE/CCNP Security Exam 300-710: Securing Networks with Cisco Firepower (SNCF) - Donald Robb 2021-03-26

Best Selling Cisco Author Todd Lammle has just completed his newest study guide: CCNP Security Securing Networks with Cisco Firepower (SNCF) 300-710--the most popular CCNP Security elective! This book, written by the preeminent Cisco Firepower expert, thoroughly covers the Cisco CCNP SNCF exam objectives in a step-by-step, user friendly manner that will help get you through the grueling Cisco exam the first time!Covers ALL the CCNP Security Cisco Firepower SNCF 300-710 exam objectives! Real life examples abound in this book!You will go step-by-step through setting up a Cisco Firepower Management Center (FMC) and Cisco Firepower Threat Defense (FTD), as well as the Firepower 7000/8000 Appliances.Learn the following:Install a virtual and hardware FMC with System configuration, licensing and health policy, and then bring your devices into the FMC to be managed.Install a Cisco Firepower Appliance using inline, passive, switching, routing and BVI.Includes 4100/9300 Install with FXOS and Chassis Manager in-depth!Learn and configure High Availability for hardware FMC's and all FTD devices, followed by an intense monitoring and troubleshooting section.Configure FXOS Chassis Manager and bring up a virtual FTD and ASA image, as well as RadWare. Configure multi-instance on the Chassis manager, and then understand what a cluster is and how to configure a cluster. Most importantly, understand the traffic flow which is very important or the exam and not written anywhere else! Learn about FTD 1000/2100/4100 and 9300 new Devices and how to install, perform password recovery and how to bring them into a FMC!Install a Cisco Firepower Threat Defense (FTD) and configure it with IP addresses, IP routing, NAT and VPN. Prepare it to be managed by a FMC. Configure the full Snort process of Security Intelligence (SI), Prefilter, DNS Policy, SSL Policy, Network Analyst Policy (NAP), AD Identity Policy and Realms, the main Access Control Policy, QoS, Firepower Network Discovery, File & Malware Policy, IPS policy, Advanced IPS policy, User Management, Advanced Network Analysis and more! Experience the detailed step-by-step building of an intense and detailed Access Control Policy (ACP), designed by the most experienced Firepower instructor/consultant that you can use in your own network! Learn how to tune your Cisco FMC policies with advanced network analysis tools found only in this book! Create, configure and manage a Cisco Snort IPS policy in detail, and fine tune it!Created by an author with more than 30 years' experience in Cisco, and over 10,000 FTD device installs! The amount of Cisco Firepower knowledge in this book cannot be beat!This book is focused on the CCNP Security Cisco Firepower SNCF objectives! You Will Pass! Add a www.lammle.com/firepower membership to gain intense practice questions, detailed videos that go through every chapter of this book, and also rent pods for lab practice!

CCNA Security 210-260 Official Cert Guide - Omar Santos 2015-09-01

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 CCNA Security 210-260 Official Cert Guide exam topics --Assess your knowledge with chapter-opening quizzes --Review key concepts with exam preparation tasks This is the eBook edition of the CCNA Security 210-260 Official Cert Guide. This

eBook does not include the companion CD-ROM with practice exam that comes with the print edition. CCNA Security 210-260 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 enable 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. CCNA Security 210-260 Official Cert Guide focuses specifically on the objectives for the Cisco CCNA Security exam. Networking Security experts Omar Santos and John Stuppi 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. 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 enable you to succeed on the exam the first time. The official study guide helps you master all the topics on the CCNA Security exam, including --Networking security concepts --Common security threats --Implementing AAA using IOS and ISE --Bring Your Own Device (BYOD) --Fundamentals of VPN technology and cryptography --Fundamentals of IP security --Implementing IPsec site-to-site VPNs --Implementing SSL remote-access VPNs using Cisco ASA --Securing Layer 2 technologies --Network Foundation Protection (NFP) --Securing the management plane on Cisco IOS devices --Securing the data plane --Securing routing protocols and the control plane --Understanding firewall fundamentals --Implementing Cisco IOS zone-based firewalls --Configuring basic firewall policies on Cisco ASA --Cisco IPS fundamentals --Mitigation technologies for e-mail- and web-based threats --Mitigation technologies for endpoint threats CCNA Security 210-260 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 <http://www.cisco.com/web/learning/index.html>.

Cisco Firepower Threat Defense (ftd) Ngfw: An Administrator's Handbook: A 100% Practical Guide on Configuring and Managing Cisco ftd Using Cisco Fmc and - Jithin Alex 2018-10-07

This book is written like a learning course, explained in detail with a lab topology using FTDv and FMCv. Hence this is a 100% practical guide on configuring and managing Cisco Firepower Threat Defense Next Generation Firewall using Cisco Firepower Management Center. I have also covered the standalone firewall introduction and how to use Firepower Device Manager to manage your FTD firewall locally without using FMC. Covers, *How to upgrade ASA firewall to Cisco FTD (Migration and Upgrade)*Configure Cisco Firepower Threat Defence (FTD) Next Generation firewall*Configure Cisco Firepower Management Center (FMC)*Manage and administer the FTD devices using FMC (Configure interfaces, zones, routing, ACLs, Pre-filter policies, NAT, High Availability etc)* FTD local management using Firepower Device Manager (FDM)*Introduction to the FTD Migration tool*Table of Contents*Introduction*How to use this book?*What is Cisco FTD?*Lab Topology*Setting up Cisco Firepower Threat Defense (FTD) Firewall*Changing Management IP*Configure Manager in Cisco FTD*Setting up Cisco Firepower Management Center (FMC)*License Activation*Explore the Cisco FMC options*Register Cisco FTD with Cisco FMC*Configure the Firewall Zone and Interface*Additional Notes on Sub-Interface and Redundant Interfaces*Create a Platform Policy*Configure Routing on Cisco FTD*Configuring FTD as a DHCP server*Network Address Translation (NAT)*Create an Access Control Policy*Pre-Filter Policy*Configuring High Availability on Cisco FTD*Upgrading Cisco ASA firewall to FTD*Installing Cisco FTD image on an existing ASA Firewall*Install Firepower Threat Defense System Software*Manage Cisco FTD firewall using Firepower Device Manager (FDM)*Bonus: Introduction to Cisco FTD migration tool*Note: This book doesn't cover the topics on VPN, SGT, and Cisco ISE integration.

Python Network Programming Techniques - Marcel Neidinger 2021-10-08

Become well-versed with network programmability by solving the most commonly encountered problems using Python 3 and open-source packages Key Features Explore different Python packages to automate your infrastructure Leverage AWS APIs and the Python library Boto3 to administer your public cloud network efficiently Get started with infrastructure automation by enhancing your network programming

knowledgeBook Description Network automation offers a powerful new way of changing your infrastructure network. Gone are the days of manually logging on to different devices to type the same configuration commands over and over again. With this book, you'll find out how you can automate your network infrastructure using Python. You'll get started on your network automation journey with a hands-on introduction to the network programming basics to complement your infrastructure knowledge. You'll learn how to tackle different aspects of network automation using Python programming and a variety of open source libraries. In the book, you'll learn everything from templating, testing, and deploying your configuration on a device-by-device basis to using high-level REST APIs to manage your cloud-based infrastructure. Finally, you'll see how to automate network security with Cisco's Firepower APIs. By the end of this Python network programming book, you'll have not only gained a holistic overview of the different methods to automate the configuration and maintenance of network devices, but also learned how to automate simple to complex networking tasks and overcome common network programming challenges. What you will learn Programmatically connect to network devices using SSH (secure shell) to execute commands Create complex configuration templates using Python Manage multi-vendor or multi-device environments using network controller APIs or unified interfaces Use model-driven programmability to retrieve and change device configurations Discover how to automate post modification network infrastructure tests Automate your network security using Python and Firepower APIs Who this book is for This book is for network engineers who want to make the most of Python to automate their infrastructure. A basic understanding of Python programming and common networking principles is necessary.

Internet of Things, Infrastructures and Mobile Applications - Michael E. Auer 2020-09-10

This book gathers papers on interactive and collaborative mobile learning environments, assessment, evaluation and research methods in mobile learning, mobile learning models, theory and pedagogy, open and distance mobile learning, life-long and informal learning using mobile devices, wearables and the Internet of Things, game-based learning, dynamic learning experiences, mobile systems and services for opening up education, mobile healthcare and training, case studies on mobile learning, and 5G network infrastructure. Today, interactive mobile technologies have become the core of many—if not all—fields of society. Not only do the younger generation of students expect a mobile working and learning environment, but also the new ideas, technologies and solutions introduced on a nearly daily basis also boost this trend. Discussing and assessing key trends in the mobile field were the primary aims of the 13th International Conference on Interactive Mobile Communication Technologies and Learning (IMCL2019), which was held in Thessaloniki, Greece, from 31 October to 01 November 2019. Since being founded in 2006, the conference has been devoted to new approaches in interactive mobile technologies, with a focus on learning. The IMCL conferences have since become a central forum of the exchange of new research results and relevant trends, as well as best practices. The book's intended readership includes policymakers, academics, educators, researchers in pedagogy and learning theory, schoolteachers, further education lecturers, practitioners in the learning industry, etc.

Network Security with Netflow and IPFIX - Omar Santos 2015-09-08

A comprehensive guide for deploying, configuring, and troubleshooting NetFlow and learning big data analytics technologies for cyber security Today's world of network security is full of cyber security vulnerabilities, incidents, breaches, and many headaches. Visibility into the network is an indispensable tool for network and security professionals and Cisco NetFlow creates an environment where network administrators and security professionals have the tools to understand who, what, when, where, and how network traffic is flowing. Network Security with NetFlow and IPFIX is a key resource for introducing yourself to and understanding the power behind the Cisco NetFlow solution. Omar Santos, a Cisco Product Security Incident Response Team (PSIRT) technical leader and author of numerous books including the CCNA Security 210-260 Official Cert Guide, details the importance of NetFlow and demonstrates how it can be used by large enterprises and small-to-medium-sized businesses to meet critical network challenges. This book also examines NetFlow's potential as a powerful network security tool. Network Security with NetFlow and IPFIX explores everything you need to know to fully understand and implement the Cisco Cyber Threat Defense Solution. It also provides detailed configuration and troubleshooting guidance, sample configurations with depth analysis of design scenarios in every chapter, and detailed case studies

with real-life scenarios. You can follow Omar on Twitter: @santosomar NetFlow and IPFIX basics Cisco NetFlow versions and features Cisco Flexible NetFlow NetFlow Commercial and Open Source Software Packages Big Data Analytics tools and technologies such as Hadoop, Flume, Kafka, Storm, Hive, HBase, Elasticsearch, Logstash, Kibana (ELK) Additional Telemetry Sources for Big Data Analytics for Cyber Security Understanding big data scalability Big data analytics in the Internet of everything Cisco Cyber Threat Defense and NetFlow Troubleshooting NetFlow Real-world case studies

[Cisco Digital Network Architecture](#) - Tim Szigeti 2018-12-27

The complete guide to transforming enterprise networks with Cisco DNA As networks become more complex and dynamic, organizations need better ways to manage and secure them. With the Cisco Digital Network Architecture, network operators can run entire network fabrics as a single, programmable system by defining rules that span their devices and move with their users. Using Cisco intent-based networking, you spend less time programming devices, managing configurations, and troubleshooting problems so you have more time for driving value from your network, your applications, and most of all, your users. This guide systematically introduces Cisco DNA, highlighting its business value propositions, design philosophy, tenets, blueprints, components, and solutions. Combining insider information with content previously scattered through multiple technical documents, it provides a single source for evaluation, planning, implementation, and operation. The authors bring together authoritative insights for multiple business and technical audiences. Senior executives will learn how DNA can help them drive digital transformation for competitive advantage. Technical decision-makers will discover powerful emerging solutions for their specific needs. Architects will find essential recommendations, interdependencies, and caveats for planning deployments. Finally, network operators will learn how to use DNA Center's modern interface to streamline, automate, and improve virtually any network management task. · Accelerate the digital transformation of your business by adopting an intent-based network architecture that is open, extensible, and programmable · Integrate virtualization, automation, analytics, and cloud services to streamline operations and create new business opportunities · Dive deep into hardware, software, and protocol innovations that lay the programmable infrastructure foundation for DNA · Virtualize advanced network functions for fast, easy, and flexible deployments · Translate business intent into device configurations and simplify, scale, and automate network operations using controllers · Use analytics to tune performance, plan capacity, prevent threats, and simplify troubleshooting · Learn how Software-Defined Access improves network flexibility, security, mobility, visibility, and performance · Use DNA Assurance to track the health of clients, network devices, and applications to reveal hundreds of actionable insights · See how DNA Application Policy supports granular application recognition and end-to-end treatment, for even encrypted applications · Identify malware, ransomware, and other threats in encrypted traffic

[Automating Cisco Security Solutions SAUTO \(300-735\) Exam Practice Questions & Dumps](#) - Books fortune 2020-11-03

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Cisco ISE for BYOD and Secure Unified Access - Aaron Woland 2017-06-16

Fully updated: The complete guide to Cisco Identity Services Engine solutions Using Cisco Secure Access Architecture and Cisco Identity Services Engine, you can secure and gain control of access to your networks in a Bring Your Own Device (BYOD) world. This second edition of Cisco ISE for BYOD and Secure Unified Access contains more than eight brand-new chapters as well as extensively updated coverage of all the previous topics in the first edition book to reflect the latest technologies, features, and best practices of the ISE solution. It begins by reviewing today's business case for identity solutions. Next, you walk through ISE foundational topics and ISE design. Then you explore how to build an access security policy using the building blocks of ISE. Next are the in-depth and advanced ISE configuration sections, followed by the troubleshooting and monitoring chapters. Finally, we go in depth on the new TACACS+ device administration solution that is new to ISE and to this second edition. With this book, you will gain an understanding of ISE configuration, such as identifying users, devices, and security posture; learn about Cisco Secure Access solutions; and master advanced techniques for securing access to networks, from dynamic segmentation to guest access and everything in between. Drawing on their cutting-edge experience supporting Cisco enterprise customers, the authors offer in-depth coverage of the complete lifecycle for all relevant ISE solutions, making this book a cornerstone resource whether you're an architect, engineer, operator, or IT manager. · Review evolving security challenges associated with borderless networks, ubiquitous mobility, and consumerized IT · Understand Cisco Secure Access, the Identity Services Engine (ISE), and the building blocks of complete solutions · Design an ISE-enabled network, plan/distribute ISE functions, and prepare for rollout · Build context-aware security policies for network access, devices, accounting, and audit · Configure device profiles, visibility, endpoint posture assessments, and guest services · Implement secure guest lifecycle management, from WebAuth to sponsored guest access · Configure ISE, network access devices, and supplicants, step by step · Apply best practices to avoid the pitfalls of BYOD secure access · Set up efficient distributed ISE deployments · Provide remote access VPNs with ASA and Cisco ISE · Simplify administration with self-service onboarding and registration · Deploy security group access with Cisco TrustSec · Prepare for high availability and disaster scenarios · Implement passive identities via ISE-PIC and EZ Connect · Implement TACACS+ using ISE · Monitor, maintain, and troubleshoot ISE and your entire Secure Access system · Administer device AAA with Cisco IOS, WLC, and Nexus