

Mypolicy

CVOICE 8.0

VoIP and convergence are hot topics, and the CVOICE 8.0 exam targets candidates looking to pass Exam 642-437 and pursue their CCNP Voice certification. Companies continue to add VoIP service at a record pace, and network administrators are ramping up their skills. This new member of the Sybex Study Guide series covers everything you'll need to know to pass the certification exam. VoIP (Voice over IP) is rapidly becoming a preferred solution for companies, and Cisco has responded to the need with a new certification to assure proficiency in VoIP technology. Prepares IT professionals for the CVOICE 8.0 exam and includes a CD with the Sybex Test Engine, flashcards, and the Glossary in PDF format. Covers gateway components, dial plans, basic operation and components of VoIP, how to implement a gateway, the function and interoperation of gatekeepers, how to implement an IP-to-IP gateway, and more. Administrators of Cisco VoIP networks will find all the essential tools for CVOICE exam success in CVOICE 8.0: Implementing Cisco Unified Communications Voice over IP and QoS v8.0 Study Guide.

Artificial Intelligence for Cybersecurity

Gain well-rounded knowledge of AI methods in cybersecurity and obtain hands-on experience in implementing them to bring value to your organization. Key Features: Familiarize yourself with AI methods and approaches and see how they fit into cybersecurity. Learn how to design solutions in cybersecurity that include AI as a key feature. Acquire practical AI skills using step-by-step exercises and code examples. Purchase of the print or Kindle book includes a free PDF eBook. Book Description: Artificial intelligence offers data analytics methods that enable us to efficiently recognize patterns in large-scale data. These methods can be applied to various cybersecurity problems, from authentication and the detection of various types of cyberattacks in computer networks to the analysis of malicious executables. Written by a machine learning expert, this book introduces you to the data analytics environment in cybersecurity and shows you where AI methods will fit in your cybersecurity projects. The chapters share an in-depth explanation of the AI methods along with tools that can be used to apply these methods, as well as design and implement AI solutions. You'll also examine various cybersecurity scenarios where AI methods are applicable, including exercises and code examples that'll help you effectively apply AI to work on cybersecurity challenges. The book also discusses common pitfalls from real-world applications of AI in cybersecurity issues and teaches you how to tackle them. By the end of this book, you'll be able to not only recognize where AI methods can be applied, but also design and execute efficient solutions using AI methods. What you will learn: Recognize AI as a powerful tool for intelligence analysis of cybersecurity data. Explore all the components and workflow of an AI solution. Find out how to design an AI-based solution for cybersecurity. Discover how to test various AI-based cybersecurity solutions. Evaluate your AI solution and describe its advantages to your organization. Avoid common pitfalls and difficulties when implementing AI solutions. Who this book is for: This book is for machine learning practitioners looking to apply their skills to overcome cybersecurity challenges. Cybersecurity workers who want to leverage machine learning methods will also find this book helpful. Fundamental concepts of machine learning and beginner-level knowledge of Python programming are needed to understand the concepts present in this book. Whether you're a student or an experienced professional, this book offers a unique and valuable learning experience that will enable you to protect your network and data against the ever-evolving threat landscape.

C++ Programming Made Simple

The author enables novices to get to grips with the programming language quickly and efficiently, and

demystifies the subject matter making it easy to understand. Java and C++ are now the two clear leading languages for technical and web programming, and the C++ language and environment, including C, are internationally standardised by the ISO Standard 1998. Although focusing on C++, the text also incorporates material on the C programming language. If you want to know how to: Write ISO C++ programs Write procedural C programs Use ISO C++ advanced features such as templates and RTTI Take advantage of the Standard Template Library Program with both the C and C++ Standard Libraries then C++ Programming Made Simple is for you!

SELinux Administration and Policy Engineering

"SELinux Administration and Policy Engineering" offers a comprehensive, technical roadmap for mastering Security-Enhanced Linux (SELinux) in modern computing environments. This authoritative guide begins with a deep exploration of the underlying principles of mandatory access control (MAC), SELinux's historical evolution, and its architectural integration within the Linux kernel. It systematically covers essential concepts, terminology, and contrasts SELinux's robust control mechanisms with traditional discretionary access models, providing foundational understanding for readers seeking to elevate their Linux security expertise. The book meticulously navigates through the intricacies of SELinux policy language, core constructs, and practical administration, ensuring readers gain both theoretical and hands-on proficiency. Readers will learn advanced policy engineering techniques, from writing and modularizing custom policies to debugging, lifecycle management, and performance optimization. Extensive chapters are devoted to real-world applications: securing containers, virtual machines, and cloud deployments, as well as tailoring policies for enterprise compliance, critical infrastructure, and regulated environments. Case studies from high-profile deployments illuminate the operational nuances large organizations face. Bridging SELinux with broader security and DevSecOps frameworks, the text delves into interoperability, network integration, authentication, and emerging directions such as automated policy synthesis and machine learning for anomaly detection. It concludes by charting the future of policy engineering—from IoT and edge computing integration to fostering community collaboration and open standards. This guide is indispensable for security professionals, administrators, and engineers aiming to design, deploy, and maintain resilient Linux infrastructures at any scale.

IP Quality of Service

The complete resource for understanding and deploying IP quality of service for Cisco networks Learn to deliver and deploy IP QoS and MPLS-based traffic engineering by understanding: QoS fundamentals and the need for IP QoS The Differentiated Services QoS architecture and its enabling QoS functionality The Integrated Services QoS model and its enabling QoS functions ATM, Frame Relay, and IEEE 802.1p/802.1Q QoS technologies and how they work with IP QoS MPLS and MPLS VPN QoS and how they work with IP QoS MPLS traffic engineering Routing policies, general IP QoS functions, and other miscellaneous QoS information Quality-of-service (QoS) technologies provide networks with greater reliability in delivering applications, as well as control over access, delay, loss, content quality, and bandwidth. IP QoS functions are crucial in today's scalable IP networks. These networks are designed to deliver reliable and differentiated Internet services by enabling network operators to control network resources and use. Network planners, designers, and engineers need a thorough understanding of QoS concepts and features to enable their networks to run at maximum efficiency and to deliver the new generation of time-critical multimedia and voice applications. "IP Quality of Service" serves as an essential resource and design guide for anyone planning to deploy QoS services in Cisco networks. Author Srinivas Vegesna provides complete coverage of Cisco IP QoS features and functions, including case studies and configuration examples. The emphasis is on real-world application-going beyond conceptual explanations to teach actual deployment. "IP Quality of Service" is written for internetworking professionals who are responsible for designing and maintaining IP services for corporate intranets and for service provider network infrastructures. If you are a network engineer, architect, manager, planner, or operator who has a rudimentary knowledge of QoS technologies, this book will provide you with practical insights on what you need to consider when designing and

implementing various degrees of QoS in the network. Because incorporating some measure of QoS is an integral part of any network design process, \"IP Quality of Service\" applies to all IP networks--corporate intranets, service provider networks, and the Internet.

Java Security

One of Java's most striking claims is that it provides a secure programming environment. Yet despite endless discussion, few people understand precisely what Java's claims mean and how it backs up those claims. If you're a developer, network administrator or anyone else who must understand or work with Java's security mechanisms, Java Security is the in-depth exploration you need. Java Security, 2nd Edition, focuses on the basic platform features of Java that provide security--the class loader, the bytecode verifier, and the security manager--and recent additions to Java that enhance this security model: digital signatures, security providers, and the access controller. The book covers the security model of Java 2, Version 1.3, which is significantly different from that of Java 1.1. It has extensive coverage of the two new important security APIs: JAAS (Java Authentication and Authorization Service) and JSSE (Java Secure Sockets Extension). Java Security, 2nd Edition, will give you a clear understanding of the architecture of Java's security model and how to use that model in both programming and administration. The book is intended primarily for programmers who want to write secure Java applications. However, it is also an excellent resource for system and network administrators who are interested in Java security, particularly those who are interested in assessing the risk of using Java and need to understand how the security model works in order to assess whether or not Java meets their security needs.

IBM i 7.1 Technical Overview with Technology Refresh Updates

This IBM® Redbooks® publication provides a technical overview of the features, functions, and enhancements available in IBM i 7.1, including all the Technology Refresh (TR) levels from TR1 to TR7. It provides a summary and brief explanation of the many capabilities and functions in the operating system. It also describes many of the licensed programs and application development tools that are associated with IBM i. The information provided in this book is useful for clients, IBM Business Partners, and IBM service professionals who are involved with planning, supporting, upgrading, and implementing IBM i 7.1 solutions.

Agile Business Rule Development

Business rules are everywhere. Every enterprise process, task, activity, or function is governed by rules. However, some of these rules are implicit and thus poorly enforced, others are written but not enforced, and still others are perhaps poorly written and obscurely enforced. The business rule approach looks for ways to elicit, communicate, and manage business rules in a way that all stakeholders can understand, and to enforce them within the IT infrastructure in a way that supports their traceability and facilitates their maintenance. Boyer and Mili will help you to adopt the business rules approach effectively. While most business rule development methodologies put a heavy emphasis on up-front business modeling and analysis, agile business rule development (ABRD) as introduced in this book is incremental, iterative, and test-driven. Rather than spending weeks discovering and analyzing rules for a complete business function, ABRD puts the emphasis on producing executable, tested rule sets early in the project without jeopardizing the quality, longevity, and maintainability of the end result. The authors' presentation covers all four aspects required for a successful application of the business rules approach: (1) foundations, to understand what business rules are (and are not) and what they can do for you; (2) methodology, to understand how to apply the business rules approach; (3) architecture, to understand how rule automation impacts your application; (4) implementation, to actually deliver the technical solution within the context of a particular business rule management system (BRMS). Throughout the book, the authors use an insurance case study that deals with claim processing. Boyer and Mili cater to different audiences: Project managers will find a pragmatic, proven methodology for delivering and maintaining business rule applications. Business analysts and rule authors will benefit from guidelines and best practices for rule discovery and analysis. Application architects and software developers will

appreciate an exploration of the design space for business rule applications, proven architectural and design patterns, and coding guidelines for using JRules.

Application Design

? Introducing the Ultimate Application Design Book Bundle! ? Are you ready to take your application design skills to the next level? Dive into the world of data-intensive app systems with our comprehensive book bundle, \"Application Design: Key Principles for Data-Intensive App Systems.\" ?? ? Book 1 - Foundations of Application Design: Lay the groundwork for success with an introduction to key principles for data-intensive systems. From data modeling basics to architecture patterns, this volume sets the stage for mastering application design. ? Book 2 - Mastering Data-Intensive App Architecture: Elevate your skills with advanced techniques and best practices for architecting data-intensive applications. Explore distributed systems, microservices, and optimization strategies to build scalable and resilient systems. ? Book 3 - Scaling Applications: Learn essential strategies and tactics for handling data-intensive workloads. Discover performance optimization techniques, cloud computing, and containerization to scale your applications effectively. ? Book 4 - Expert Insights in Application Design: Gain valuable insights from industry experts and thought leaders. Explore cutting-edge approaches and innovations shaping the future of data-intensive application development. With a combined wealth of knowledge, these four books provide everything you need to succeed in the fast-paced world of application design. Whether you're a seasoned professional or just starting your journey, this bundle is your roadmap to success. ??? ? Don't miss out on this opportunity to master application design and unlock new possibilities in your career. Get your hands on the \"Application Design: Key Principles for Data-Intensive App Systems\" book bundle today! ??

Java als erste Programmiersprache

Innerhalb kürzester Zeit hat Java die Programmierung revolutioniert. Java ist eine Sprache, die basierend auf C und C++ die Tradition dieser führenden Programmiersprachen in einer neuartigen und überraschenden Weise fortsetzt. So kann ein Java-Programm auf jedem beliebigen Rechner weltweit ohne irgendeine Änderung laufen, wenn für den entsprechenden Rechner eine virtuelle Maschine verfügbar ist. Für die Programmierung im Internet bietet Java die Technik der Applets, d.h. von kleinen Programmen, die in einer Web-Seite laufen. Diese Technik erlaubt es, von irgendeinem Rechner des Internets auf seinen eigenen Rechner Web-Seiten mit Applets zu laden und diese Applets lokal im Browser des eigenen Rechners auszuführen. Java findet seinen Einsatz jedoch nicht nur in Netzen, sondern auch als universell einsetzbare Programmiersprache für die verschiedensten Aufgabenstellungen. Das vorliegende Buch setzt weder C noch C++ Kenntnisse voraus. Es erlaubt dem Einsteiger, Java ohne Vorkenntnisse anderer Programmiersprachen zu erlernen. Daher der Titel „Java als erste Programmiersprache“. Dabei hat dieses Buch das ehrgeizige Ziel, dem Neuling die Sprachkonzepte von Java und die Grundkonzepte der objektorientierten Programmierung so präzise wie möglich und dennoch in leicht verständlicher Weise vorzustellen. Für den erfahrenen C++ Programmierer lohnt sich ein Blick in Anhang D, wo die wesentlichen Unterschiede zwischen C++ und Java übersichtlich dargestellt sind.

OpenLDAP in der Praxis

- Dieses Buch unterstützt Sie beim Einsatz von OpenLDAP in Ihrem Netzwerk – egal, ob Sie OpenLDAP das erste Mal einrichten oder von einer älteren Version migrieren. - Alle Kapitel bauen aufeinander auf, so dass Sie in der Lage sind, eine komplette OpenLDAP-Umgebung mit Kerberos einzurichten. Sie können aber auch einzelne Kapitel nutzen, um Ihre bestehende LDAP-Infrastruktur zu erweitern. - Besonders zu den Themen ACLs, Replikation und Kerberos finden Sie neben den Grundlagen auch Beispiele zu den Vorgehensweisen. - Neben der klassischen Installation wird auf die Einrichtung von OpenLDAP in Docker-Containern eingegangen. Zudem finden Sie einen Ausblick auf Kubernetes. - Mit allen Listings und Skripten zum Download. - basierend auf Version 2.6 - Ihr exklusiver Vorteil: E-Book inside beim Kauf des gedruckten Buches Dieses Buch bietet eine ausführliche Beschreibung von der Installation eines einzelnen

OpenLDAP-Servers bis hin zu einer Multi-Provider-Replikation und der Einbindung von Kerberos, und Sie erfahren, wie Sie den Funktionsumfang Ihres LDAP-Servers durch Overlays erweitern und performanter gestalten können. Alle Schritte auf dem Weg zu einer redundanten OpenLDAP-Struktur werden genau beschrieben. Das Hauptaugenmerk bei der Verwaltung liegt auf der Kommandozeile. Zusätzlich wird der LDAP Account Manager (LAM) als grafisches Werkzeug vorgestellt. Das Buch unterstützt Sie auch bei der Umstellung von OpenLDAP 2.4 auf OpenLDAP 2.6. In einem eigenen Kapitel gehen wir auf das Thema Monitoring ein, denn ein Dienst wie LDAP sollte nie ohne Überwachung bleiben. In dieser Auflage wird nur noch die Konfiguration über `cn=config` beschrieben. Die folgenden Inhalte sind komplett neu in dieser Auflage: - Einrichtung von Referrals - Zwei Faktoren Authentifizierung - Das Overlay autoca zur automatischen Erstellung von Clientzertifikaten - Einrichtung des OpenLDAP via Ansible AUS DEM INHALT - Installation der benötigten Pakete - Verwaltung des OpenLDAP über `cn=config` - Erstellen eigener Schemata - Einstieg nach der Installation der Pakete - Erste Objekte im LDAP-Baum - Verschlüsselung der Verbindung über TLS und LDAPS - Einrichtung des sssd als LDAP-Client - Einsatz von Filtern - Absichern des Baums durch ACLs - Verwendung von Overlays zur Funktionserweiterung - Replikation des LDAP-Baums - Einsatz von Referrals - OpenLDAP mit Docker und Kubernetes - OpenLDAP als LDAP-Proxy

Software Engineering

Software Engineering: The Implementation Phase provides the conceptual foundation required for the design and development of complex distributed and real-time applications. It summarizes a large spectrum of concepts, enabling readability and ease of comprehension by concentrating on Java and presenting mainly the programmatic aspects and basic functioning. The idea behind this book is not to overwhelm the reader, but instead provide sufficient information for the creation of prototypes, covering most aspects of an application. This volume guides you to determine for yourself which is the best global architecture for an application: thin or thick client; direct database access or EJBs; listeners or multi-threading; etc. It also presents a number of architectures, namely sets of components, threads and links, around which the functionalities of the application may be built and checked incrementally. One of the strengths of this book is the availability of simple examples, which have all been carefully checked and are available at the book's website.

Data Profiling and Insurance Law

The winner of the 2020 British Insurance Law Association Book Prize, this timely, expertly written book looks at the legal impact that the use of 'Big Data' will have on the provision – and substantive law – of insurance. Insurance companies are set to become some of the biggest consumers of big data which will enable them to profile prospective individual insureds at an increasingly granular level. More particularly, the book explores how: (i) insurers gain access to information relevant to assessing risk and/or the pricing of premiums; (ii) the impact which that increased information will have on substantive insurance law (and in particular duties of good faith disclosure and fair presentation of risk); and (iii) the impact that insurers' new knowledge may have on individual and group access to insurance. This raises several consequential legal questions: (i) To what extent is the use of big data analytics to profile risk compatible (at least in the EU) with the General Data Protection Regulation? (ii) Does insurers' ability to parse vast quantities of individual data about insureds invert the information asymmetry that has historically existed between insured and insurer such as to breathe life into insurers' duty of good faith disclosure? And (iii) by what means might legal challenges be brought against insurers both in relation to the use of big data and the consequences it may have on access to cover? Written by a leading expert in the field, this book will both stimulate further debate and operate as a reference text for academics and practitioners who are faced with emerging legal problems arising from the increasing opportunities that big data offers to the insurance industry.

Biztalk

In this book, you will learn to develop and design reliable BizTalk based solutions. The approach used in this

book is to get the reader productive with BizTalk development as quickly as possible. The reader will learn BizTalk by building real and practical small solutions from the outset. The technical background behind these applications as well as the design choices are explained in details. The author's philosophy is always to utilize BizTalk to the fullest, while writing as little code as possible. There are a large number of solutions and applications that are implemented in many organizations which are too complicated and could be replaced by much easier solutions just by utilizing a little bit of smarter configuration. This book is based on the author's experience in creating training material for ISVs, delivering numerous projects, mentoring, and training developers on implementing BizTalk

Modern C++ Design

This title documents a convergence of programming techniques - generic programming, template metaprogramming, object-oriented programming and design patterns. It describes the C++ techniques used in generic programming and implements a number of industrial strength components.

CCIE Practical Studies

bull; Gain CCIE lab exam experience with volume 2 of the best-selling CCIE Practical Studies. bull; Experience putting concepts into practice with lab scenarios that guide you in applying what you know onto real networks. bull; Learn how to build a practice lab for your CCIE lab exam preparation. bull; Use detailed labs and configuration exercises to learn technologies needed to succeed on the exam.

Network Security Technologies and Solutions (CCIE Professional Development Series)

CCIE Professional Development Network Security Technologies and Solutions A comprehensive, all-in-one reference for Cisco network security Yusuf Bhaiji, 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 Bhaiji, 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, HIPPA, and SOX This book is part of the Cisco CCIE Professional Development Series from Cisco Press, which offers expert-level instr

Inside Java 2 Platform Security

This authoritative Java security book is written by the architect of the Java security model. It chronicles J2EE v1.4 security model enhancements that will allow developers to build safer, more reliable, and more impenetrable programs.

CCNP and CCIE Security Core SCOR 350-701 Official Cert Guide

Trust the best-selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for the CCNP and CCIE Security Core SCOR 350-701 exam. Well regarded for its level of detail, study plans, assessment features, and challenging review questions and exercises, CCNP and CCIE Security Core SCOR 350-701 Official Cert Guide, Second Edition helps you master the concepts and techniques that ensure your exam success and is the only self-study resource approved by Cisco. Expert author 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. This complete study package includes A test-preparation routine proven to help you pass the exam Do I Know This Already? quizzes, which let you decide how much time you need to spend on each section Exam Topic lists that make referencing easy Chapter-ending exercises, which help you drill on key concepts you must know thoroughly The powerful Pearson Test Prep Practice Test software, complete with hundreds of well-reviewed, exam-realistic questions, customization options, and detailed performance reports 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 Content Update Program: This fully updated second edition includes the latest topics and additional information covering changes to the latest CCNP and CCIE Security Core SCOR 350-701 exam. Visit ciscopress.com/newcerts for information on annual digital updates for this book that align to Cisco exam blueprint version changes. This official study guide helps you master all the topics on the CCNP and CCIE Security Core SCOR 350-701 exam, including Network security Cloud security Content security Endpoint protection and detection Secure network access Visibility and enforcement Companion Website: The companion website contains more than 200 unique practice exam questions, practice exercises, and a study planner Pearson Test Prep online system requirements: Browsers: Chrome version 73 and above, Safari version 12 and above, Microsoft Edge 44 and above. Devices: Desktop and laptop computers, tablets running Android v8.0 and above or iPadOS v13 and above, smartphones running Android v8.0 and above or iOS v13 and above with a minimum screen size of 4.7". Internet access required. Pearson Test Prep offline system requirements: Windows 11, Windows 10, Windows 8.1; Microsoft .NET Framework 4.5 Client; Pentium-class 1 GHz processor (or equivalent); 512 MB RAM; 650 MB disk space plus 50 MB for each downloaded practice exam; access to the Internet to register and download exam databases Also available from Cisco Press for CCNP Advanced Routing study is the CCNP and CCIE Security Core SCOR 350-701 Official Cert Guide Premium Edition eBook and Practice Test, Second Edition This digital-only certification preparation product combines an eBook with enhanced Pearson Test Prep Practice Test. This integrated learning package Enables you to focus on individual topic areas or take complete, timed exams Includes direct links from each question to detailed tutorials to help you understand the concepts behind the questions Provides unique sets of exam-realistic practice questions Tracks your performance and provides feedback on a module-by-module basis, laying out a complete assessment of your knowledge to help you focus your study where it is needed most

End-to-end DSL Architectures

A complete guide of all DSL varieties, this volume also acts as a working handbook of configurations for all Cisco Systems devices. This book covers new standards and deregulation issues, including the recommended

G.shdsl standard International regulatory and infrastructure detail for a more global approach.

Object Oriented and Multicore Programming

This book covers the object oriented programming aspects using C++ programming. It focuses on developing the applications both at basic and moderate level. In this book there are number of illustrative programming examples that help the students to understand the concepts. Starting from introduction to object oriented programming, handling of control statements using C++, arrays, objects and classes, this book moves gradually towards the concept of overloading, inheritance, Exception handling, and I/O operations. In the later part of this book, concept of multicore programming is discussed. This chapter also focuses on the operating system's role in multicore programming. Then in the next subsequent unit, the concept of processes, interface classes and predicates is discussed. Lastly, the creation and handling of threads, thread scheduling and priorities are illustrated with the help of simple and easy to understand programs. Then there is a discussion on how the communication and synchronization of concurrent tasks take place. This book doesn't just provide a collection of ready-made programs but teaching you the basics of object oriented programming through C++ and multicore programming quickly and painlessly.

Enhanced IP Services for Cisco Networks

Learn how to manage and deploy the latest IP services in Cisco-centric networks. Understand VPN security concepts: confidentiality, integrity, origin authentication, non-repudiation, anti-replay, perfect forward secrecyDeploy quality of service technologies to protect your mission-critical applicationsFind out how IPsec technology works and how to configure it in IOSLearn how to set up a router as a firewall and intrusion detection systemGain efficient use of your IP address space with NAT, VLSM, IP unnumberedSolve real-world routing problems with redistribution, route filtering, summarization, policy routingEnable authentication, authorization, and accounting (AAA) security services with RADIUS and TACACS+ servers
\"Enhanced IP Services for Cisco Networks\" is a guide to the new enabling and advanced IOS services that build more scalable, intelligent, and secure networks. You will learn the technical details necessary to deploy quality of service and VPN technologies, as well as improved security and advanced routing features. These services will allow you to securely extend the network to new frontiers, protect your network from attacks, and enhance network transport with application-level prioritization. This book offers a practical guide to implementing IPsec, the IOS Firewall, and IOS Intrusion Detection System. Also included are advanced routing principles and quality of service features that focus on improving the capability of your network. A good briefing on cryptography fully explains the science that makes VPNs possible. Rather than being another routing book, this is a guide to improving your network's capabilities by understanding and using the sophisticated features available to you in Cisco's IOS software

CCNP Security FIREWALL 642-618 Official Cert Guide

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 Security FIREWALL 642-618 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of the CCNP Security FIREWALL 642-618 Official Cert Guide. This eBook does not include the companion CD-ROM with practice exam that comes with the print edition. CCNP Security FIREWALL 642-618 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 Security FIREWALL 642-618 Official Cert Guide, focuses specifically on the objectives for the Cisco CCNP Security FIREWALL exam. Expert networking consultants Dave Hucaby, Dave Garneau, and Anthony Sequeira 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 CCNP Security FIREWALL exam, including: ASA interfaces IP connectivity ASA management Recording ASA activity Address translation Access control Proxy services Traffic inspection and handling Transparent firewall mode Virtual firewalls High availability ASA service modules CCNP Security FIREWALL 642-618 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/go/authorizedtraining.

Expert Web Services Security in the .NET Platform

* Only up to date book for the latest version of .NET * Concentrates on Web services not general .NET security * Describes the key aspects of Windows Operating System security, Internet Information Services security, and ASP.NET Security, laying the foundation for a complete discussion of Web Services security in the .NET Platform. * Shows how to use the WS-Security W3C specifications for industry – standard authentication, encryption, authorization, Xml signature, attachments and routing with Web Services. * Teaches the reader how to use the new WSE (Web Services Software Development Kit) from Microsoft. * Shows how to integrate Web Services security into the applications developers write with specific working code examples and explanations.

CCIE Routing and Switching v5.0 Official Cert Guide Library

CCIE Routing and Switching v5.0 Official Cert Guide Library, Fifth Edition Assessment, review, and practice package for the CCIE R&S v5.0 exams Includes CCIE Routing and Switching v5.0 Official Cert Guide, Volume 1, Fifth Edition, and CCIE Routing and Switching v5.0 Official Cert Guide, Volume 2, Fifth Edition. This is the eBook version of the print title. The eBook edition does not provide access to the test engine software or the practice tests that accompany the print book These official study guides help you master all the topics on the CCIE R&S v5.0 exams, including Virtual LANs and VLAN Trunking Spanning Tree Protocol (STP) IP services (ARP, NTP, DHCP, NAT, SNMP, NetFlow, and more) RIPv2 and RIPv6 EIGRP OSPFv2 and v3 IS-IS Route redistribution, route summarization, default routing, and performance routing BGP operations and routing policies QoS WANs IP Multicast Device and network security and tunneling technologies MPLS CCIE Routing and Switching v5.0 Official Cert Guide Library, Fifth Edition from Cisco Press enables you to succeed on the exam the first time and is the only self-study resource approved by Cisco. In the two books included in this package, expert instructors Narbik Kocharians, Peter Palúch, and Terry Vinson share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. The first volume covers LAN switching, IP networking, and IP IGP routing topics. The second volume covers IP BGP routing, quality of service (QoS), wide area networks, IP multicast, network security, and Multiprotocol Label Switching (MPLS) topics. Together, these two books cover all the topics on the new v5.0 blueprint. 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 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, study plans, assessment features, challenging review questions and exercises, this official study guide helps you master the concepts and techniques that ensure your exam success. CCIE Routing and Switching v5.0 Official Cert Guide Library, Fifth 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 www.cisco.com. This volume is part of the Official Cert Guide series from Cisco Press. Books in this series provide officially developed exam preparation materials that offer assessment, review, and practice to help Cisco Career Certification candidates identify weaknesses, concentrate their study efforts, and enhance their confidence as exam day nears.

Information Security and Ethics: Concepts, Methodologies, Tools, and Applications

Presents theories and models associated with information privacy and safeguard practices to help anchor and guide the development of technologies, standards, and best practices. Provides recent, comprehensive coverage of all issues related to information security and ethics, as well as the opportunities, future challenges, and emerging trends related to this subject.

Network Security Principles and Practices

Expert solutions for securing network infrastructures and VPNs; Build security into the network by defining zones, implementing secure routing protocol designs, and building safe LAN switching environments Understand the inner workings of the Cisco PIX Firewall and analyze in-depth Cisco PIX Firewall and Cisco IOS Firewall features and concepts Understand what VPNs are and how they are implemented with protocols such as GRE, L2TP, and IPSec Gain a packet-level understanding of the IPSec suite of protocols, its associated encryption and hashing functions, and authentication techniques Learn how network attacks can be categorized and how the Cisco IDS is designed and can be set up to protect against them Control network access by learning how AAA fits into the Cisco security model and by implementing RADIUS and TACACS+ protocols Provision service provider security using ACLs, NBAR, and CAR to identify and control attacks Identify and resolve common implementation failures by evaluating real-world troubleshooting scenarios As organizations increase their dependence on networks for core business processes and increase access to remote sites and mobile workers via virtual private networks (VPNs), network security becomes more and more critical. In today's networked era, information is an organization's most valuable resource. Lack of customer, partner, and employee access to e-commerce and data servers can impact both revenue and productivity. Even so, most networks do not have the proper degree of security. Network Security Principles and Practices provides an in-depth understanding of the policies, products, and expertise that brings organization to this extremely complex topic and boosts your confidence in the performance and integrity of your network systems and services. Written by a CCIE engineer who participated in the development of the CCIE Security exams, Network Security Principles and Practices is the first book that provides a comprehensive review of topics important to achieving CCIE Security certification. Network Security Principles and Practices is a comprehensive guide to network security threats and the policies and tools developed specifically to combat those threats. Taking a practical, applied approach to building security into networks, the book shows you how to build secure network architectures from the ground up. Security aspects of routing protocols, Layer 2 threats, and switch security features are all analyzed. A comprehensive treatment of VPNs and IPSec is presented in extensive packet-by-packet detail. The book takes a behind-the-scenes look at how the Cisco PIX(r) Firewall actually works, presenting many difficult-to-understand and new Cisco PIX Firewall and Cisco IOSreg; Firewall concepts. The book launches into a discussion of intrusion detection systems (IDS) by analyzing and breaking down modern-day network attacks, describing how an IDS deals with those threats in general, and elaborating on the Cisco implementation of IDS. The book also discusses AAA, RADIUS, and TACACS+ and their usage with some of the newer security implementations such as VPNs and proxy authentication. A complete section devoted to service provider techniques for enhancing customer security and providing support in the event of an attack is also included. Finally, the book concludes with a section dedicated to discussing tried-and-tested troubleshooting tools and techniques that are not only invaluable to candidates working toward their CCIE Security lab exam but also to the security network administrator running the operations of a network on a daily basis.

CCIE Routing and Switching v5.0 Official Cert Guide, Volume 2

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 CCIE R&S v5.0 exam topics, including BGP, QoS, WANs, IP multicast, security, and MPLS --Assess your knowledge with chapter-opening quizzes --Review key concepts with exam preparation tasks This is the eBook edition of the CCIE Routing and Switching v5.0 Official Cert Guide, Volume 2, Fifth Edition. This eBook does not include the companion CD-ROM with practice exam that comes with the print edition. CCIE Routing and Switching v5.0 Official Cert Guide, Volume 2, Fifth Edition from Cisco Press enables you to succeed on the exam the first time and is the only self-study resource approved by Cisco. Expert instructors Narbik Kocharians and Terry Vinson share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. This second of two volumes covers IP BGP routing, quality of service (QoS), wide area networks, IP multicast, network security, and Multiprotocol Label Switching (MPLS) 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 --The powerful Pearson IT Certification Practice Test software, complete with hundreds of well-reviewed, exam-realistic questions, customization options, and detailed performance reports --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, study plans, assessment features, challenging review questions and exercises, this official study guide helps you master the concepts and techniques that ensure your exam success. CCIE Routing and Switching v5.0 Official Cert Guide, Volume 2, Fifth 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 www.cisco.com/go/authorizedtraining. The official study guide helps you master topics on the CCIE Routing and Switching v5.0 exams, including: --BGP operations and routing policies --QoS --WANs --IP Multicast --Device and network security and tunneling technologies --MPLS

Professional C# 2008

Professional C# 2008 starts by reviewing the overall architecture of .NET in Chapter 1 in order to give you the background you need to be able to write managed code. After that the book is divided into a number of sections that cover both the C# language and its application in a variety of areas.

Professional C# 2005 with .NET 3.0

Preparing readers to program in C#, this authoritative guide provides the necessary background information on how the .NET architecture works Begins with a tutorial on C# 2005 and the .NET 3.0 Framework, then moves through the vast .NET class library, showing how C# can be used to solve various tasks Includes coverage of the new .NET 3.0 Framework, Generics, ObjectSpaces, .NET 3.0 in SQL Server, ASP.NET 3.0, Windows Communication Foundation, Windows Workflow Foundation, Windows Presentation Foundation, arrays, system transactions, tracing, and event logging Additional coverage includes such topics as writing Windows applications and Windows services, writing Web pages and Web services with ASP.NET 3.0, manipulating XML using C# 2005, and generating graphics using C# 2005

IBM SAN42B-R Extension Switch and IBM b-type Gen 6 Extension Blade in Distance Replication Configurations (Disk and Tape)

This IBM® Redpaper™ publication helps network and storage administrators understand how to implement

the IBM SAN42B-R Extension Switch and the IBM b-type Gen 6 Extension Blade for distance replication. It provides an overview of the IBM System Storage® SAN42B-R extension switch hardware and software features, describes the extension architecture, shows example implementations, and explains how to troubleshoot your extension products. IBM b-type extension products provide long-distance replication of your data for business continuity by using disaster recovery (BC/DR). This paper provides an overview of extension, detailed information about IBM b-type extension technologies and products, preferred topologies, example implementations with FCIP and TS7760/7700 Grid IP Extension, monitoring, and troubleshooting.

Practical Serverless and Microservices with C#

Take a realistic look at microservices and distributed systems with the .NET stack to understand the limitations of microservices development through a practical lens Key Features Work through common scenarios encountered when developing distributed microservices applications Understand cost considerations, traffic limits, and time limits surrounding serverless environments Take full advantage of the synergy between Azure services (Container Apps, Functions, and Aspire) and .NET code Purchase of the print or Kindle book includes a free eBook in PDF format Book DescriptionFrom the authors of the Software Architecture with C# and .NET series comes this practical and grounded showcase of microservices using the .NET stack. Written for .NET developers entering the world of modern cloud and distributed applications, it shows you when microservices and serverless architectures are the right choice for building scalable enterprise solutions and when they're not. You'll gain a realistic understanding of their use cases and limitations. Rather than promoting microservices as a one-size-fits-all solution, it encourages thoughtful adoption based on real-world needs. Following a brief introduction and important setup, the book helps you prepare for practical application through examples such as a ride-sharing website. You'll work with Docker, Kubernetes, Azure Container Apps, and the new .NET Aspire with considerations for security, observability, and cost management. The book culminates in a complete event-driven application that brings together everything you've covered. By the end of the book, you'll have a well-rounded understanding of cloud and distributed .NET—viewed through the lens of two industry veterans.What you will learn Set up serverless environments in Azure for developing and debugging Design reliable communication and computation across microservices Explore Azure Functions in depth and use triggers for IoT and background tasks Use Azure Container Apps to simplify the creation and management of containers Apply best practices to secure a microservices application Accurately assess and calculate costs and usage limits in serverless solutions Who this book is for This book is for engineers and senior software developers looking to advance into modern cloud and distributed applications. It helps professionals evolve their knowledge of microservices and serverless architecture to get the best of both architectural models. Prior experience with C#/.NET and the Microsoft Stack (Entity Framework and ASP.NET Core) is required to get the most out of this book. If you've enjoyed the authors' previous Software Architecture with C# and .NET series, this new book offers an in-depth exploration of select topics in those earlier works.

Cisco QOS Exam Certification Guide (IP Telephony Self-Study)

This is the eBook version of the print title. The eBook edition does not provide access to the CD content that accompanies the print book. Official self-study test preparation guide for the Cisco QOS 642-642 exam. The official study guide helps you master all the topics on the QOS exam, including QoS concepts, tools, and architectures Modular QoS CLI (MQC), QoS Policy Manager (QPM), and AutoQoS Classification and marking Congestion management Traffic shaping and policing Congestion avoidance through drop policies Compression tools and link fragmentation and interleaving (LFI) tools for link efficiency LAN QoS QoS best practices The CCVP certification validates a robust set of skills in implementing, operating, configuring, and troubleshooting a converged IP network. A solid understanding of quality-of-service (QoS) features and implementation is essential for CCVP certification and is also a core component of the CCIP® certification. Cisco QOS Exam Certification Guide, Second Edition, is a best-of-breed Cisco® exam study guide that focuses specifically on the objectives for the QOS 642-642 exam. Senior instructor and best-selling author Wendell Odom and senior AVVID consultant Michael Cavanaugh share preparation hints and test-taking

tips, helping you identify areas of weakness and improve your QoS knowledge. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. Cisco QOS Exam Certification Guide, Second Edition, 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 and Foundation Summary tables, figures, and snapshot information make referencing easy and give you a quick refresher whenever you need it. Challenging chapter-ending review questions help you assess your knowledge and reinforce key concepts. Well-regarded for its level of detail, assessment features, and challenging review questions and exercises, this book helps you master the concepts and techniques that will enable you to succeed on the exam the first time. Cisco QOS Exam Certification Guide, Second Edition, is part of a recommended learning path from Cisco Systems® 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/go/authorizedtraining. This volume is part of the Exam Certification Guide Series from Cisco Press®. Books in this series provide officially developed exam preparation materials that offer assessment, review, and practice to help Cisco Career Certification candidates identify weaknesses, concentrate their study efforts, and enhance their confidence as exam day nears.

Professional Apache Geronimo

Geronimo is a popular production-grade Open Source J2EE 1.4 certified server available free of charge. It is the only server of its kind licensed under the Apache Software License 2.0, allowing free adaptation and modification for commercial or non-commercial use. The server is well-supported internationally by a large base of users, developers, and support vendors. Geronimo can host a variety of server applications. It comes equipped with a relational database server and message broker, enabling you to immediately deploy your enterprise applications. With all this potential, getting started with Geronimo can be a daunting task. This team of experienced authors has crafted a book to make your experience with Geronimo go smoothly — and they've packed it with numerous examples of configuration and deployment for the Geronimo server.

Whether you've been using a commercial J2EE server or this is your first encounter with an application server, you'll quickly learn what Geronimo can do for your environment. What you will learn from this book

- How to configure and deploy a J2EE application on Geronimo
- Ways to download, install, configure, and secure the server
- Expert tips on server customization and tuning
- How to use the various administrative, management, and troubleshooting tools that accompany Geronimo
- How to take advantage of the highly modular architecture of the Geronimo server, and how it works inside

Who this book is for This book is for managers, administrators, and developers who are either considering Geronimo for possible production deployment, or are already using Geronimo and are looking for a way to kick-start the implementation process. Wrox Professional guides are planned and written by working programmers to meet the real-world needs of programmers, developers, and IT professionals. Focused and relevant, they address the issues technology professionals face every day. They provide examples, practical solutions, and expert education in new technologies, all designed to help programmers do a better job.

Data Warehousing and Mining: Concepts, Methodologies, Tools, and Applications

In recent years, the science of managing and analyzing large datasets has emerged as a critical area of research. In the race to answer vital questions and make knowledgeable decisions, impressive amounts of data are now being generated at a rapid pace, increasing the opportunities and challenges associated with the ability to effectively analyze this data.

Conceptual Modeling - ER 2004

On behalf of the Organizing Committee, we would like to welcome you to the proceedings of the 23rd International Conference on Conceptual Modeling (ER 2004). This conference provided an international

forum for technical discussion on conceptual modeling of information systems among researchers, developers and users. This was the third time that this conference was held in Asia; the first time was in Singapore in 1998 and the second time was in Yokohama, Japan in 2001. China is the third largest nation with the largest population in the world. Shanghai, the largest city in China and a great metropolis, famous in Asia and throughout the world, is therefore a most appropriate location to host this conference. This volume contains papers selected for presentation and includes the two keynote talks by Prof. Hector Garcia-Molina and Prof. Gerhard Weikum, and an invited talk by Dr. Xiao Ji. This volume also contains industrial papers and demo/poster papers. An additional volume contains papers from 6 workshops. The conference also featured three tutorials: (1) Web Change Management and Delta Mining: Opportunities and Solutions, by Sanjay Madria, (2) A Survey of Data Quality Issues in Cooperative Information Systems, by Carlo Batini, and (3) Visual SQL - An ER-Based Introduction to Database Programming, by Bernhard Thalheim.

Pro SQL Database for Windows Azure

Pro SQL Database for Windows Azure, 2nd Edition shows how to create enterprise-level database deployments without the usual investment in datacenter and other infrastructure. Take advantage instead of Microsoft's worldwide backbone for cloud computing that delivers all the power of SQL Server in the form of the cloud-based SQL Database for Windows Azure. You can create and deploy a database in mere minutes that is accessible worldwide and takes advantage of SQL Database's high-availability features to protect your data while ensuring 99.9% uptime. SQL Azure is ideally suited for startups, who can benefit from instant access to a robust and secure web-accessible database platform for use in rapidly deploying new products to market. SQL Azure is also ideal for small and mid-sized businesses, giving them the same ability to deploy SQL Server as any large enterprise, but without the management overhead. Even large enterprises find SQL Azure useful in creating failover environments, development environments, extra capacity to handle surges in demand, and more. Pro SQL Database for Windows Azure covers the very latest in Microsoft's fast-moving, cloud platform, showing how to program and administer it in a variety of cloud computing scenarios. You'll learn to program SQL Azure from ASP.NET, from WinForms, and from SQL Reporting Services. You'll learn to manage the platform by planning for scalability, troubleshooting performance issues, and implementing strong security. You'll learn the unique aspects of SQL Azure such as sharding and federation support that combine to place SQL Azure a step above and ahead of the competition. Shows how to use SQL Azure from classic Windows applications, ASP.NET and Windows Communication Foundation Covers management, performance, scalability, and troubleshooting Addresses the all-important issue of securing your data Helps you properly design for high-performance in a cloud environment Helps you adopt the new Federations feature in SQL Azure

The Definitive Guide to the Microsoft Enterprise Library

The Definitive Guide to the Microsoft Enterprise Library introduces one of the most exciting and popular .NET-oriented initiatives, the Enterprise Library. The EL offers eight application blocks and other reusable code that are used to solve a variety of common problem spaces. These problems cover a number of topics, including data access, exception handling, caching, logging, security, cryptography, validation, policy injection and configuration. Author Keenan Newton, a senior consultant for Microsoft Consulting Services, begins the book with an introduction to common challenges, explaining the conditions that brought about the creation of the EL. After an EL overview, subsequent chapters offer detailed information about each of the eight blocks. The book concludes by outlining the framework available for creating custom application blocks as well as other development spaces using application blocks. You'll be able to build .NET applications faster and more efficiently by taking advantage of readily available code developed and released by Microsoft's patterns and practices group. You will be introduced to these technologies in conjunction with real-world scenarios.

Cisco ASA, PIX, and FWSM Firewall Handbook

Cisco ASA, PIX, and FWSM Firewall Handbook, Second Edition, is a guide for the most commonly implemented features of the popular Cisco® firewall security solutions. Fully updated to cover the latest firewall releases, this book helps you to quickly and easily configure, integrate, and manage the entire suite of Cisco firewall products, including ASA, PIX®, and the Catalyst® Firewall Services Module (FWSM). Organized by families of features, this book helps you get up to speed quickly and efficiently on topics such as file management, building connectivity, controlling access, firewall management, increasing availability with failover, load balancing, logging, and verifying operation. Sections are marked by shaded tabs for quick reference, and information on each feature is presented in a concise format, with background, configuration, and example components. Whether you are looking for an introduction to the latest ASA, PIX, and FWSM devices or a complete reference for making the most out of your Cisco firewall deployments, Cisco ASA, PIX, and FWSM Firewall Handbook, Second Edition, helps you achieve maximum protection of your network resources. “Many books on network security and firewalls settle for a discussion focused primarily on concepts and theory. This book, however, goes well beyond these topics. It covers in tremendous detail the information every network and security administrator needs to know when configuring and managing market-leading firewall products from Cisco.” —Jason Nolet, Vice President of Engineering, Security Technology Group, Cisco David Hucaby, CCIE® No. 4594, is a lead network engineer for the University of Kentucky, where he works with health-care networks based on the Cisco Catalyst, ASA, FWSM, and VPN product lines. He was one of the beta reviewers of the ASA 8.0 operating system software. Learn about the various firewall models, user interfaces, feature sets, and configuration methods Understand how a Cisco firewall inspects traffic Configure firewall interfaces, routing, IP addressing services, and IP multicast support Maintain security contexts and flash and configuration files, manage users, and monitor firewalls with SNMP Authenticate, authorize, and maintain accounting records for firewall users Control access through the firewall by implementing transparent and routed firewall modes, address translation, and traffic shunning Define security policies that identify and act on various types of traffic with the Modular Policy Framework Increase firewall availability with firewall failover operation Understand how firewall load balancing works Generate firewall activity logs and learn how to analyze the contents of the log Verify firewall operation and connectivity and observe data passing through a firewall Configure Security Services Modules, such as the Content Security Control (CSC) module and the Advanced Inspection Processor (AIP) module 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: Cisco ASA 8.0, PIX 6.3, and FWSM 3.2 version firewalls

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