

Configuring Cisco Network Registrar To Provide Dhcp

Here's the book you need to prepare for Cisco's revised CCDA exam, 640-861. This Study Guide provides: In-depth coverage of every CCDA exam objective Practical information on Cisco design solutions Hundreds of challenging practice questions, in the book and on the CD Leading-edge exam preparation software, including a test engine, electronic flashcards, and simulation software Authoritative coverage of all exam objectives, including: Gathering and evaluating information regarding current and future network requirements Identifying possible opportunities for network performance improvement Evaluating solutions for meeting IP addressing, routing protocol, and network management needs Incorporating equipment and technology within a campus design Applying the Enterprise Composite Network Model Addressing the issues of delivering voice traffic over a data network Evaluating solutions for compliance with SAFE architecture Developing implementation, prototype testing, and verification plans Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Cisco IOS XR Fundamentals is a systematic, authoritative guide to configuring routers with Cisco IOS® XR, the next-generation flagship Cisco® Internet

operating system. In this book, a team of Cisco experts brings together quick, authoritative, and example-rich reference information for all the commands most frequently used to configure and troubleshoot Cisco IOS XR-based routers in both service provider and enterprise environments. The authors walk you through the details of the Cisco IOS XR architecture and explain commands in the new Cisco IOS XR CLI wherever required. They present concise explanations of service provider requirements and internetwork theory, backed by proven sample configurations for IOS XR services, MPLS, multicast, system management, system security, routing, and interfaces. Cisco IOS XR Fundamentals is an indispensable resource for designing, implementing, troubleshooting, administering, or selling networks containing Cisco IOS XR-supported routers. This is the only Cisco IOS XR book that: Clearly explains how Cisco IOS XR meets the emerging requirements of both current and future networks Gives network professionals extensive information for simplifying migration and taking full advantage of Cisco IOS XR's new power Presents detailed, tested configuration examples that network professionals can apply in their own networks Walks through using new Cisco IOS XR features and the In-Service Software Upgrade (ISSU) process to minimize downtime and cost Use Cisco IOS XR to deliver superior scalability, availability, security, and service flexibility

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Understand the Cisco IOS XR distributed, modular architecture Design, implement, and troubleshoot networks containing Cisco IOS XR-supported routers Configure Cisco IOS XR routing, including RIP, IS-IS, OSPF, and EIGRP Learn BGP implementation details specific to Cisco IOS XR and using RPL to influence policies Manage IP addresses and Cisco IOS XR services Secure Cisco IOS XR using standard and extended ACLs, prefix lists, and uRPF Master all facets of MPLS configuration, including LDP, L3VPN, and TE Configure PIM, IGMP, and static RP multicast Optimize networks using advanced Cisco IOS XR features, including secure domain routers Learn building blocks of Multishelf, and understand configurations and migration techniques This book is part of the Cisco Press® Fundamentals Series. Books in this series introduce networking professionals to new networking technologies, covering network topologies, sample deployment concepts, protocols, and management techniques. Annotation Strategies for configuring, monitoring, and troubleshooting new Cisco telephony software! First book with specific coverage of Cisco CallManager written by its key developers. Includes specific configuration examples, configuration guidelines, troubleshooting tips, and case studies. Provides detailed information about such complex issues as Cisco CallManager routing and diagnostics. Cisco CallManager Fundamentals provides reference information

about Cisco CallManager. This book fully details the innerworkings of Cisco CallManager, which will empower those responsible for designing and maintaining the system with the availability to make intelligent decisions about what, when, and how features within Cisco CallManager can be used. John Alexander is a software development manager for Cisco Systems. John managed the development of the call processing softwares as well as software development tasks. Chris Pearce has been a software engineer in telecommunications for the past nine years. In 1994 he was one of the first four engineers that designed and implemented what would eventually become the Cisco CallManager. Anne Smith is a senior technical writer at Cisco Systems, author of over two-dozen user guides, online help files, and Web-based documentation for various software and telephony companies. Delon Whetten is the technical lead of the Cisco CallManager software group at Cisco Systems. He has been involved in the design and development of message switching, voice messaging, video teleconferencing, and Voice over IP call management systems for the last 24 years.

Here are all the CCNA-level Routing and Switching commands you need in one condensed, portable resource. The CCNA Routing and Switching Portable Command Guide, Third Edition, is filled with valuable, easy-to-access information

and is portable enough for use whether you're in the server room or the equipment closet. The guide summarizes all CCNA certification-level Cisco IOS® Software commands, keywords, command arguments, and associated prompts, providing you with tips and examples of how to apply the commands to real-world scenarios. Configuration examples throughout the book provide you with a better understanding of how these commands are used in simple network designs. This book has been completely updated to cover topics in the ICND1 100-101, ICND2 200-101, and CCNA 200-120 exams. Use this quick reference resource to help you memorize commands and concepts as you work to pass the CCNA Routing and Switching certification exam. The book is organized into these parts: Part I TCP/IP v4 Part II Introduction to Cisco Devices Part III Configuring a Router Part IV Routing Part V Switching Part VI Layer 3 Redundancy Part VII IPv6 Part VIII Network Administration and Troubleshooting Part IX Managing IP Services Part X WANs Part XI Network Security Quick, offline access to all CCNA Routing and Switching commands for research and solutions Logical how-to topic groupings for a one-stop resource Great for review before CCNA Routing and Switching certification exams Compact size makes it easy to carry with you, wherever you go Create Your Own Journal section with blank, lined pages allows you to personalize the book for your needs What Do You Want to Do?

chart inside back cover helps you to quickly reference specific tasks

What Cable Companies Don't Want You to Know

NX-OS and Cisco Nexus Switching

Top-Down Network Design

Cisco Router Configuration Handbook

Cisco Access Control Security

Intended for organisations needing to build an efficient and reliable enterprise network linked to the Internet, this second edition explains the current Internet architecture and shows how to evaluate service providers dealing with connection issues.

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.

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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

How well does your enterprise stand up against today's sophisticated security threats? In this book, security experts from Cisco Systems demonstrate how to detect damaging security incidents on your global network--first by teaching you which assets you need to monitor closely, and then by helping you develop targeted strategies and pragmatic techniques to protect them. Security Monitoring is based on the authors' years of experience conducting incident response to keep Cisco's global network secure. It offers six steps to improve network monitoring. These steps will help you: Develop Policies: define rules, regulations, and monitoring criteria Know Your Network: build knowledge of your infrastructure with network telemetry Select Your Targets: define the subset of infrastructure to be monitored Choose Event Sources: identify event types needed to discover policy violations Feed and Tune: collect data, generate alerts, and

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tune systems using contextual information Maintain Dependable Event Sources: prevent critical gaps in collecting and monitoring events Security Monitoring illustrates these steps with detailed examples that will help you learn to select and deploy the best techniques for monitoring your own enterprise network.

bull; Prepare for the CCNP 642-821 BCRAN exam and gain a better, practical understanding of exam concepts bull; Experience how remote access concepts work in a real network with practice labs that walk you through their implementation bull; Review set-up guides that show you how to prepare a lab for study bull; Ready yourself for the new simulation-based questions on the CCNP exams

LAN Switch Security

CCNP Practical Studies

Transforming Campus Networks to Intent-Based Networking

Exam 640-861

What Hackers Know About Your Switches

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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. This book, combined with CCNA 200-301 Official Cert Guide, Volume 1, covers all the exam topics on the CCNA 200-301 exam. · Master Cisco CCNA 200-301 exam topics · Assess your knowledge with chapter-opening quizzes · Review key concepts with exam preparation tasks This is the eBook edition of CCNA 200-301

Official Cert Guide, Volume 2. This eBook does not include access to the Pearson Test Prep practice exams that comes with the print edition. CCNA 200-301 Official Cert Guide, Volume 2 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 200-301 Official Cert Guide, Volume 2 from Cisco Press enables you to succeed on the exam the first time and is the only self-study resource approved by Cisco. Best-selling author Wendell Odom 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 enable you to decide how much time you need to spend on each section · Chapter-ending Key Topic tables, 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 free copy of the CCNA 200-301 Network Simulator, Volume 2 Lite software, complete with meaningful lab exercises that help you hone your hands-on skills with the command-line interface for routers and switches · Links to a series of hands-on config labs developed by the author · Online interactive practice exercises that help you enhance your knowledge · More than 50 minutes of video mentoring from the author ·

An online interactive Flash Cards application to help you drill on Key Terms by chapter
· **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, hands-on labs, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that ensure your exam success. **CCNA 200-301 Official Cert Guide, Volume 2, combined with CCNA 200-301 Official Cert Guide, Volume 1, walk you through all the exam topics found in the Cisco 200-301 exam. Topics covered in Volume 2 include**
· **IP access control lists**
· **Security services**
· **IP services**
· **Network architecture**
· **Network automation**
Companion Website: Companion Website: The companion website contains CCNA Network Simulator Lite software, practice exercises, 50 minutes of video training, and other study resources. See the Where Are the Companion Files on the last page of your eBook file for instructions on how to access. In addition to the wealth of content, this new edition includes a series of free hands-on exercises to help you master several real-world configuration activities. These exercises can be performed on the CCNA 200-301 Network Simulator Lite, Volume 2 software included for free on the companion website that accompanies this book.
The complete guide to building and managing next-generation data center network fabrics with VXLAN and BGP EVPN This is the only comprehensive guide and deployment reference for building flexible data center network fabrics with VXLAN and BGP EVPN technologies. Writing for experienced network professionals, three leading

Cisco experts address everything from standards and protocols to functions, configurations, and operations. The authors first explain why and how data center fabrics are evolving, and introduce Cisco's fabric journey. Next, they review key switch roles, essential data center network fabric terminology, and core concepts such as network attributes, control plane details, and the associated data plane encapsulation. Building on this foundation, they provide a deep dive into fabric semantics, efficient creation and addressing of the underlay, multi-tenancy, control and data plane interaction, forwarding flows, external interconnectivity, and service appliance deployments. You'll find detailed tutorials, descriptions, and packet flows that can easily be adapted to accommodate customized deployments. This guide concludes with a full section on fabric management, introducing multiple opportunities to simplify, automate, and orchestrate data center network fabrics. Learn how changing data center requirements have driven the evolution to overlays, evolved control planes, and VXLAN BGP EVPN spine-leaf fabrics Discover why VXLAN BGP EVPN fabrics are so scalable, resilient, and elastic Implement enhanced unicast and multicast forwarding of tenant traffic over the VXLAN BGP EVPN fabric Build fabric underlays to efficiently transport uni- and multi-destination traffic Connect the fabric externally via Layer 3 (VRF-Lite, LISP, MPLS L3VPN) and Layer 2 (VPC) Choose your most appropriate Multi-POD, multifabric, and Data Center Interconnect (DCI) options Integrate Layer 4-7 services into the fabric, including load balancers and firewalls Manage fabrics with POAP-based day-0 provisioning, incremental day 0.5 configuration, overlay day-1 configuration, or day-2 operations

Objectives The purpose of *Top-Down Network Design, Third Edition*, is to help you design networks that meet a customer's business and technical goals. Whether your customer is another department within your own company or an external client, this book provides you with tested processes and tools to help you understand traffic flow, protocol behavior, and internetworking technologies. After completing this book, you will be equipped to design enterprise networks that meet a customer's requirements for functionality, capacity, performance, availability, scalability, affordability, security, and manageability.

Audience This book is for you if you are an internetworking professional responsible for designing and maintaining medium- to large-sized enterprise networks. If you are a network engineer, architect, or technician who has a working knowledge of network protocols and technologies, this book will provide you with practical advice on applying your knowledge to internetwork design. This book also includes useful information for consultants, systems engineers, and sales engineers who design corporate networks for clients. In the fast-paced presales environment of many systems engineers, it often is difficult to slow down and insist on a top-down, structured systems analysis approach. Wherever possible, this book includes shortcuts and assumptions that can be made to speed up the network design process. Finally, this book is useful for undergraduate and graduate students in computer science and information technology disciplines. Students who have taken one or two courses in networking theory will find *Top-Down Network Design, Third Edition*, an approachable introduction to the engineering and business issues related to developing real-world networks that solve typical business problems. Changes for

the Third Edition Networks have changed in many ways since the second edition was published. Many legacy technologies have disappeared and are no longer covered in the book. In addition, modern networks have become multifaceted, providing support for numerous bandwidth-hungry applications and a variety of devices, ranging from smart phones to tablet PCs to high-end servers. Modern users expect the network to be available all the time, from any device, and to let them securely collaborate with coworkers, friends, and family. Networks today support voice, video, high-definition TV, desktop sharing, virtual meetings, online training, virtual reality, and applications that we can't even imagine that brilliant college students are busily creating in their dorm rooms. As applications rapidly change and put more demand on networks, the need to teach a systematic approach to network design is even more important than ever. With that need in mind, the third edition has been retooled to make it an ideal textbook for college students. The third edition features review questions and design scenarios at the end of each chapter to help students learn top-down network design. To address new demands on modern networks, the third edition of Top-Down Network Design also has updated material on the following topics: ˆ Network redundancy ˆ Modularity in network designs ˆ The Cisco SAFE security reference architecture ˆ The Rapid Spanning Tree Protocol (RSTP) ˆ Internet Protocol version 6 (IPv6) ˆ Ethernet scalability options, including 10-Gbps Ethernet and Metro Ethernet ˆ Network design and management tools

A practical handbook for network administrators who need to develop and implement security assessment programs, exploring a variety of offensive technologies,

explaining how to design and deploy networks that are immune to offensive tools and scripts, and detailing an efficient testing model. Original. (Intermediate)

Cisco ISP Essentials

Security Monitoring

Understanding Session Border Controllers

TCP/IP Network Administration

Cisco ISE for BYOD and Secure Unified Access

Internet Routing Architectures

The CCNA® Voice certification expands your CCNA-level skill set to prepare for a career in voice networking. This lab manual helps to prepare you for the Introducing Cisco Voice and Unified Communications Administration (ICOMM v8.0) certification exam (640-461). CCNA Voice Lab Manual gives you extensive hands-on practice for developing an in-depth understanding of voice networking principles, tools, skills, configurations, integration challenges, and troubleshooting techniques. Using this manual, you can practice a wide spectrum of tasks involving Cisco Unified Communications Manager, Unity Connection, Unified Communications Manager Express, and Unified Presence. CCNA Voice Lab Manual addresses all exam topics and offers additional guidance for successfully implementing IP voice solutions in small-to-medium-sized businesses. CCNA Voice 640-461 Official Exam Certification Guide, Second

Edition ISBN-13: 978-1-58720-417-3 ISBN-10: 1-58720-417-7 CCNA Voice Portable Command Guide ISBN-13: 978-1-58720-442-5 ISBN-10: 1-58720-442-8 Configuring Cisco Unified Communications Manager and Unity Connection: A Step-by-Step Guide, Second Edition ISBN-13: 978-1-58714-226-0 ISBN-10: 1-58714-226-0 CCNA Voice Quick Reference ISBN-13: 978-1-58705-767-0 ISBN-10: 1-58705-767-0

Here is the first book to focus solely on Cisco network hacking, security auditing, and defense issues. Using the proven Hacking Exposed methodology, this book shows you how to locate and patch system vulnerabilities by looking at your Cisco network through the eyes of a hacker. The book covers device-specific and network-centered attacks and defenses and offers real-world case studies.

An essential reference for deploying IPv6 in broadband networks With the exponential growth of the Internet and increasing number of end users, service providers are increasingly looking for ways to expand their networks to meet the scalability requirements of the growing number of Internet-ready appliances or "always-on" devices. This book bridges a gap in the literature by providing coverage of Internet Protocol Version 6 (IPv6), specifically in broadband access networks. The authors, who are Cisco Certified Internetworking Experts (CCIE), provide comprehensive

and first-rate coverage of: IPv6 drivers in broadband networks IPv6 deployment in Cable, DSL, ETTH, and Wireless networks Configuring and troubleshooting IPv6 gateway routers and host Configuring and troubleshooting IPv6 edge routers Configuring and troubleshooting IPv6 provisioning servers The authors also discuss challenges faced by service providers and how IPv6 addresses these issues. Additionally, the book is complemented with examples throughout to further facilitate readers' comprehension and a real large-scale IPv6 BB SP case study is presented. Deploying IPv6 in Broadband Access Networks is essential reading for network operators, network design engineers and consultants, network architects, and members of the networking community.

Fast answers and reliable solutions for all widely-used Cisco router features - all in one time-saving guide Organized for maximum efficiency: describes actual commands and options in the sequence they should be used Helps network pros eliminate time-consuming documentation searches Extensive updates: IPv6, MPLS, AutoQoS, SIP, MGCP, voice troubleshooting, VPNs, security, and more "At-a-glance" illustrations offer fast answers and easy double-checking Locating reliable Cisco router configuration command information can require extensive, time-consuming research. Cisco Router Configuration Handbook, 2/e, is the solution: a day-to-day reference to the

most widely used Cisco router features and configurations. Straight from Cisco experts, it covers every facet of router configuration, including fundamentals, network protocols, packet processing, voice/telephony, security, and more. This book is organized for maximum efficiency. Related features are covered together, and features and options are covered in the sequence in which they are typically used. Shaded tabs mark each section for quick reference. Information on each feature, technology, or protocol is presented in a concise one- or two-page format, with sections presenting quick facts, configuration information, and step-by-step examples, including both required and optional commands. Simply put, this book brings together all the Cisco routing configuration information most network professionals will ever need - and organizes it more efficiently than any other resource.

Cisco CallManager Fundamentals

Deploying IPv6 in Broadband Access Networks

IBM and Cisco: Together for a World Class Data Center

Next-Generation Data Center Architectures

Traffic Engineering with MPLS

Network World

CCIE Routing and Switching v5.0 Configuration and

Troubleshooting Practice Labs Bundle presents you with three full configuration lab scenarios and two full troubleshooting lab scenarios in exam style format to echo the real CCIE Routing and Switching v5.0 lab exam. This publication gives you the opportunity to put into practice your own extensive theoretical knowledge of subjects to find out how they interact with each other on a larger complex scale. ; An "Ask the Proctor" section list of questions for each section helps provide clarity and maintain direction to ensure that you do not give up and check the answers directly if you find a task too challenging. After each lab, this eBook lets you compare configurations and routing tables with the required answers. You also can run through a lab debrief, view configurations, and cut and paste configs into your own lab equipment for testing and verification. The point scoring for each question lets you know whether you passed or failed each lab. ; This extensive set of practice labs that sells for hundreds of dollars elsewhere helps you make sure you are fully prepared for the grueling CCIE Routing and Switching lab exam experience. ; This ebook 'bundle' contains the complete text of two ebooks - Cisco CCIE Routing and Switching v5.0

Configuration Practice Labs and Cisco CCIE Routing and Switching v5.0 Troubleshooting Practice Labs.

IPv6 for Enterprise Networks The practical guide to deploying IPv6 in campus, WAN/branch, data center, and virtualized environments Shannon McFarland, CCIE® No. 5245 Muninder Sambi, CCIE No. 13915 Nikhil Sharma, CCIE No. 21273 Sanjay Hooda, CCIE No. 11737 IPv6 for Enterprise Networks brings together all the information you need to successfully deploy IPv6 in any campus, WAN/branch, data center, or virtualized environment. Four leading Cisco IPv6 experts present a practical approach to organizing and executing your large-scale IPv6 implementation. They show how IPv6 affects existing network designs, describe common IPv4/IPv6 coexistence mechanisms, guide you in planning, and present validated configuration examples for building labs, pilots, and production networks. The authors first review some of the drivers behind the acceleration of IPv6 deployment in the enterprise. Next, they introduce powerful new IPv6 services for routing, QoS, multicast, and management, comparing them with familiar IPv4 features and behavior. Finally, they translate IPv6 concepts into usable configurations. Up-to-date and

practical, IPv6 for Enterprise Networks is an indispensable resource for every network engineer, architect, manager, and consultant who must evaluate, plan, migrate to, or manage IPv6 networks. Shannon McFarland, CCIE No. 5245, is a Corporate Consulting Engineer for Cisco serving as a technical consultant for enterprise IPv6 deployment and data center design with a focus on application deployment and virtual desktop infrastructure. For more than 16 years, he has worked on large-scale enterprise campus, WAN/branch, and data center network design and optimization. For more than a decade, he has spoken at IPv6 events worldwide, including Cisco Live. Muninder Sambi, CCIE No. 13915, is a Product Line Manager for Cisco Catalyst 4500/4900 series platform, is a core member of the Cisco IPv6 development council, and a key participant in IETF's IPv6 areas of focus. Nikhil Sharma, CCIE No. 21273, is a Technical Marketing Engineer at Cisco Systems where he is responsible for defining new features for both hardware and software for the Catalyst 4500 product line. Sanjay Hooda, CCIE No. 11737, a Technical Leader at Cisco, works with embedded systems, and helps to define new product architectures. His current areas of

focus include high availability and messaging in large-scale distributed switching systems. n Identify how IPv6 affects enterprises n Understand IPv6 services and the IPv6 features that make them possible n Review the most common transition mechanisms including dual-stack (IPv4/IPv6) networks, IPv6 over IPv4 tunnels, and IPv6 over MPLS n Create IPv6 network designs that reflect proven principles of modularity, hierarchy, and resiliency n Select the best implementation options for your organization n Build IPv6 lab environments n Configure IPv6 step-by-step in campus, WAN/branch, and data center networks n Integrate production-quality IPv6 services into IPv4 networks n Implement virtualized IPv6 networks n Deploy IPv6 for remote access n Manage IPv6 networks efficiently and cost-effectively This book is part of the Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers. For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of

large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce. This IBM® Redbooks® publication is an IBM and Cisco collaboration that articulates how IBM and Cisco can bring the benefits of their respective companies to the modern data center. It documents the architectures, solutions, and benefits that can be achieved by implementing a data center based on IBM server, storage, and integrated systems, with the broader Cisco network. We describe how to design a state-of-the art data center and networking infrastructure combining Cisco and IBM solutions. The objective is to provide a reference guide for customers looking to build an infrastructure that is optimized for virtualization, is highly available, is interoperable, and is efficient in terms of power and space consumption. It will explain the technologies used to build the infrastructure, provide use cases, and give guidance on deployments.

Securing Cisco IP Telephony Networks

IPv6 for Enterprise Networks

Data Center Fundamentals

Cisco IOS XR Fundamentals

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Remote Access

"Cisco BGP-4 Command and Configuration Handbook is a clear, concise, and complete source of documentation for all Cisco IOS Software BGP-4 commands. If you are preparing for the CCIE written and lab exams, this book can be used as a laboratory guide to learn the purpose and proper use of every BGP command. If you are a network designer, this book can be used as a ready reference for any BGP command." "Cisco BGP-4 Command and Configuration Handbook provides example scenarios that demonstrate the proper use of every BGP-4 command, which can be implemented using a minimum number of routers. This will enable you to learn each command without requiring an extensive and expensive lab configuration. The scenarios are presented so that the purpose and use of each command can be demonstrated without clouding the issue. Some of the examples lead you into common non-working situations in order to reinforce the understanding of the operation of the particular BGP command."--BOOK

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The real-world guide to securing Cisco-based IP telephony applications, devices, and networks Cisco IP telephony leverages converged networks to dramatically reduce TCO and improve ROI. However, its critical importance to business communications and deep integration with enterprise IP networks make it susceptible to attacks that legacy telecom systems did not face. Now, there's a comprehensive guide to securing the IP telephony components that ride atop data network infrastructures—and thereby providing IP telephony services that are safer, more resilient, more stable, and more scalable. Securing Cisco IP Telephony Networks provides comprehensive, up-to-date details for securing Cisco IP telephony equipment, underlying infrastructure, and telephony applications. Drawing on ten years of experience, senior network consultant Akhil Behl offers a complete security framework for use in any Cisco IP telephony environment. You'll find best practices and detailed configuration examples for securing Cisco Unified Communications Manager (CUCM), Cisco Unity/Unity Connection, Cisco Unified

Presence, Cisco Voice Gateways, Cisco IP Telephony Endpoints, and many other Cisco IP Telephony applications. The book showcases easy-to-follow Cisco IP Telephony applications and network security-centric examples in every chapter. This guide is invaluable to every technical professional and IT decision-maker concerned with securing Cisco IP telephony networks, including network engineers, administrators, architects, managers, security analysts, IT directors, and consultants. Recognize vulnerabilities caused by IP network integration, as well as VoIP's unique security requirements Discover how hackers target IP telephony networks and proactively protect against each facet of their attacks Implement a flexible, proven methodology for end-to-end Cisco IP Telephony security Use a layered (defense-in-depth) approach that builds on underlying network security design Secure CUCM, Cisco Unity/Unity Connection, CUPS, CUCM Express, and Cisco Unity Express platforms against internal and external threats Establish physical security, Layer 2 and Layer 3 security, and Cisco ASA-based perimeter security Complete coverage of Cisco IP Telephony encryption and authentication fundamentals Configure Cisco IOS

Voice Gateways to help prevent toll fraud and deter attacks Secure Cisco Voice Gatekeepers and Cisco Unified Border Element (CUBE) against rogue endpoints and other attack vectors Secure Cisco IP telephony endpoints—Cisco Unified IP Phones (wired, wireless, and soft phone) from malicious insiders and external threats This IP communications book is part of the Cisco Press® Networking Technology Series. IP communications titles from Cisco Press help networking professionals understand voice and IP telephony technologies, plan and design converged networks, and implement network solutions for increased productivity. This complete guide to setting up and running a TCP/IP network is essential for network administrators, and invaluable for users of home systems that access the Internet. The book starts with the fundamentals -- what protocols do and how they work, how addresses and routing are used to move data through the network, how to set up your network connection -- and then covers, in detail, everything you need to know to exchange information via the Internet. Included are discussions on advanced routing protocols (RIPv2, OSPF, and BGP) and the gated software package that implements them, a tutorial on configuring

important network services -- including DNS, Apache, sendmail, Samba, PPP, and DHCP -- as well as expanded chapters on troubleshooting and security. TCP/IP Network Administration is also a command and syntax reference for important packages such as gated, pppd, named, dhcpd, and sendmail. With coverage that includes Linux, Solaris, BSD, and System V TCP/IP implementations, the third edition contains:

- Overview of TCP/IP
- Delivering the data Network services
- Getting started
- Basic configuration
- Configuring the interface
- Configuring routing
- Configuring DNS
- Configuring network servers
- Configuring sendmail
- Configuring Apache
- Network security
- Troubleshooting
- Appendices

include dip, pppd, and chat reference, a gated reference, a dhcpd reference, and a sendmail reference. This new edition includes ways of configuring Samba to provide file and print sharing on networks that integrate Unix and Windows, and a new chapter is dedicated to the important task of configuring the Apache web server. Coverage of network security now includes details on OpenSSH, stunnel, gpg, iptables, and the access control mechanism in xinetd. Plus, the book offers updated information about DNS, including details on BIND 8 and BIND 9, the role of

classless IP addressing and network prefixes, and the changing role of registrars. Without a doubt, TCP/IP Network Administration, 3rd Edition is a must-have for all network administrators and anyone who deals with a network that transmits data over the Internet.

Cisco® Nexus switches and the new NX-OS operating system are rapidly becoming the new de facto standards for data center distribution/aggregation layer networking. NX-OS builds on Cisco IOS to provide advanced features that will be increasingly crucial to efficient data center operations. NX-OS and Cisco Nexus Switching is the definitive guide to utilizing these powerful new capabilities in enterprise environments. In this book, three Cisco consultants cover every facet of deploying, configuring, operating, and troubleshooting NX-OS in the data center. They review the key NX-OS enhancements for high availability, virtualization, In-Service Software Upgrades (ISSU), and security. In this book, you will discover support and configuration best practices for working with Layer 2 and Layer 3 protocols and networks, implementing multicasting, maximizing serviceability, providing consistent network and

storage services, and much more. The authors present multiple command-line interface (CLI) commands, screen captures, realistic configurations, and troubleshooting tips—all based on their extensive experience working with customers who have successfully deployed Nexus switches in their data centers. Learn how Cisco NX-OS builds on and differs from IOS Work with NX-OS user modes, management interfaces, and system files Configure Layer 2 networking: VLANs/private VLANs, STP, virtual port channels, and unidirectional link detection Configure Layer 3 EIGRP, OSPF, BGP, and First Hop Redundancy Protocols (FHRPs) Set up IP multicasting with PIM, IGMP, and MSDP Secure NX-OS with SSH, Cisco TrustSec, ACLs, port security, DHCP snooping, Dynamic ARP inspection, IP Source Guard, keychains, Traffic Storm Control, and more Build high availability networks using process modularity and restart, stateful switchover, nonstop forwarding, and in-service software upgrades Utilize NX-OS embedded serviceability, including Switched Port Analyzer (SPAN), Smart Call Home, Configuration Checkpoint/Rollback, and NetFlow Use the NX-OS Unified Fabric to simplify infrastructure and provide ubiquitous network and storage services Run NX-OS on

Nexus 1000V server-based software switches This book is part of the Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.

Building Data Centers with VXLAN BGP EVPN

Comprehensive Guide to Designing, Deploying, Troubleshooting, and Maintaining Cisco Unified Border Element (CUBE) Solutions

TOP-DOWN NET DES _c3

Cisco OSPF Command and Configuration Handbook

Cisco IOS Switching Services

Cisco Security Secrets & Solutions

Contrary to popular belief, Ethernet switches are not inherently secure. Security vulnerabilities in Ethernet switches are multiple: from the switch implementation, to control plane protocols (Spanning Tree Protocol [STP], Cisco® Discovery Protocol [CDP], and so on) and data plane protocols, such as Address Routing Protocol (ARP) or Dynamic Host Configuration Protocol (DHCP). LAN Switch Security explains all the vulnerabilities in a network infrastructure related to Ethernet switches. Further, this book shows you how to configure a switch to prevent or to

mitigate attacks based on those vulnerabilities. This book also includes a section on how to use an Ethernet switch to increase the security of a network and prevent future attacks. Divided into four parts, LAN Switch Security provides you with steps you can take to ensure the integrity of both voice and data traffic traveling over Layer 2 devices. Part I covers vulnerabilities in Layer 2 protocols and how to configure switches to prevent attacks against those vulnerabilities. Part II addresses denial-of-service (DoS) attacks on an Ethernet switch and shows how those attacks can be mitigated. Part III shows how a switch can actually augment the security of a network through the utilization of wirespeed access control list (ACL) processing and IEEE 802.1x for user authentication and authorization. Part IV examines future developments from the LinkSec working group at the IEEE. For all parts, most of the content is vendor independent and is useful for all network architects deploying Ethernet switches. After reading this book, you will have an in-depth understanding of LAN security and be prepared to plug the security holes that exist in a great number of campus networks. Use port security to protect against CAM attacks Prevent spanning-tree attacks Isolate VLANs with proper configuration techniques Protect against rogue DHCP servers Block ARP snooping Prevent IPv6 neighbor discovery and router solicitation exploitation Identify Power over Ethernet vulnerabilities Mitigate risks from HSRP and VRPP Stop information

leaks with CDP, PaGP, VTP, CGMP and other Cisco ancillary protocols
Understand and prevent DoS attacks against switches Enforce simple wirespeed security policies with ACLs Implement user authentication on a port base with IEEE 802.1x Use new IEEE protocols to encrypt all Ethernet frames at wirespeed. 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.

A comprehensive guide to the best common practices for Internet service providers
Learn the best common practices for configuring routers on the Internet from experts who helped build the Internet Gain specific advice through comprehensive coverage of all Cisco routers and current versions of Cisco IOS Software
Understand the Cisco IOS tools essential to building and maintaining reliable networks Increase your knowledge of network security Learn how to prevent problems and improve performance through detailed configuration examples and diagrams Cisco IOS Software documentation is extensive and detailed and is often too hard for many Internet service providers (ISPs) who simply want to switch on and get going. Cisco ISP Essentials highlights many of the key Cisco IOS features in everyday use in the major ISP backbones of the world to help new network

engineers gain understanding of the power of Cisco IOS Software and the richness of features available specifically for them. Cisco ISP Essentials also provides a detailed technical reference for the expert ISP engineer, with descriptions of the various knobs and special features that have been specifically designed for ISPs. The configuration examples and diagrams describe many scenarios, ranging from good operational practices to network security. Finally a whole appendix is dedicated to using the best principles to cover the configuration detail of each router in a small ISP Point of Presence.

PacketCable Implementation Cisco Press

The only guide to the CISCO Secure Access Control Server, this resource examines the concepts and configuration of the Cisco Secure ACS. Users will learn how to configure a network access server to authenticate, authorize, and account for individual network users that telecommute from an unsecured site into the secure corporate network.

CCNA Voice Lab Manual

Hacking the Cable Modem

Proven Methods for Incident Detection on Enterprise Networks

Cisco BGP-4 Command and Configuration Handbook

Network Dictionary

CCNA Routing and Switching Portable Command Guide

Master the basics of data centers to build server farms that enhance your Web site performance Learn design guidelines that show how to deploy server farms in highly available and scalable environments Plan site performance capacity with discussions of server farm architectures and their real-life applications to determine your system needs Today's market demands that businesses have an Internet presence through which they can perform e-commerce and customer support, and establish a presence that can attract and increase their customer base. Underestimated hit ratios, compromised credit card records, perceived slow Web site access, or the infamous "Object Not Found" alerts make the difference between a successful online presence and one that is bound to fail. These challenges can be solved in part with the use of data center technology. Data centers switch traffic based on information at the Network, Transport, or Application layers. Content switches perform the "best server" selection process to direct users' requests for a specific service to a server in a server farm. The best server selection process takes into account both server load and

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availability, and the existence and consistency of the requested content. Data Center Fundamentals helps you understand the basic concepts behind the design and scaling of server farms using data center and content switching technologies. It addresses the principles and concepts needed to take on the most common challenges encountered during planning, implementing, and managing Internet and intranet IP-based server farms. An in-depth analysis of the data center technology with real-life scenarios make Data Center Fundamentals an ideal reference for understanding, planning, and designing Web hosting and e-commerce environments.

Design, configure, and manage MPLS TE to optimize network performance Almost every busy network backbone has some congested links while others remain underutilized. That's because shortest-path routing protocols send traffic down the path that is shortest without considering other network parameters, such as utilization and traffic demands. Using Traffic Engineering (TE), network operators can redistribute packet flows to attain more uniform distribution across all links. Forcing traffic onto specific pathways allows you to get

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the most out of your existing network capacity while making it easier to deliver consistent service levels to customers at the same time. Cisco(r) Multiprotocol Label Switching (MPLS) lends efficiency to very large networks, and is the most effective way to implement TE. MPLS TE routes traffic flows across the network by aligning resources required by a given flow with actual backbone capacity and topology. This constraint-based routing approach feeds the network route traffic down one or more pathways, preventing unexpected congestion and enabling recovery from link or node failures. Traffic Engineering with MPLS provides you with information on how to use MPLS TE and associated features to maximize network bandwidth. This book focuses on real-world applications, from design scenarios to feature configurations to tools that can be used in managing and troubleshooting MPLS TE. Assuming some familiarity with basic label operations, this guide focuses mainly on the operational aspects of MPLS TE-how the various pieces work and how to configure and troubleshoot them. Additionally, this book addresses design and scalability issues along with extensive deployment tips to help you roll out MPLS TE on your own

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network. Understand the background of TE and MPLS, and brush up on MPLS forwarding basics Learn about router information distribution and how to bring up MPLS TE tunnels in a network Understand MPLS TE's Constrained Shortest Path First (CSPF) and mechanisms you can use to influence CSPF's path calculation Use the Resource Reservation Protocol (RSVP) to implement Label-Switched Path setup Use various mechanisms to forward traffic down a tunnel Integrate MPLS into the IP quality of service (QoS) spectrum of services Utilize Fast Reroute (FRR) to mitigate packet loss associated with link and node failures Understand Simple Network Management Protocol (SNMP)-based measurement and accounting services that are available for MPLS Evaluate design scenarios for scalable MPLS TE deployments Manage MPLS TE networks by examining common configuration mistakes and utilizing tools for troubleshooting MPLS TE problems "Eric and Ajay work in the development group at Cisco that built Traffic Engineering. They are among those with the greatest hands-on experience with this application. This book is the product of their experience." -George Swallow, Cisco Systems, Architect for Traffic Engineering Co-Chair, IETF MPLS

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Working Group Eric Osborne, CCIE(r) #4122, has been doing Internet engineering of one sort or another since 1995. He joined Cisco in 1998 to work in the Cisco Technical Assistance Center (TAC), moved from there to the ISP Expert team and then to the MPLS Deployment team. He has been involved in MPLS since the Cisco IOS(r) Software Release 11.1CT days. Ajay Simha, CCIE #2970, joined the Cisco TAC in 1996. He then went on to support tier 1 and 2 ISPs as part of Cisco's ISP Expert team. Ajay has been working as an MPLS deployment engineer since October 1999, and he has first-hand experience in

"Cisco OSPF Command and Configuration Handbook is a clear, concise, and complete source of documentation for all Cisco IOS Software OSPF commands. The way you use this book will depend on your objectives. If you are preparing for the CCIE written and lab exams, then this book can be used as a laboratory guide to learn the purpose and proper use of every OSPF command. If you are a network designer, then this book can be used as a ready reference for any OSPF command. Author Bill Parkhurst provides concise snapshots of every command with regard to command purpose, usage, syntax explanation, initial introduction in

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Cisco IOS Software, and cross references to related commands also covered in the book. This book covers many OSPF topic areas, including interface configuration, OSPF area configuration, route filtering, OSPF process configuration, route cost, default route generation, redistribution, administrative distance, OSPF neighbor relationships, route summarization, and show, debug, and clear commands"--Resource description page.

Whether the reader is the biggest technology geek or simply a computer enthusiast, this integral reference tool can shed light on the terms that'll pop up daily in the communications industry. (Computer Books - Communications/Networking)

CCDA: Cisco Certified Design Associate Study Guide

Network Security Assessment

Hacking Exposed Cisco Networks

Know Your Network

Cisco CCIE Routing and Switching v5.0 Configuration and Troubleshooting Practice Labs Bundle

AAA Administrative Services

PacketCable Implementation is the first complete primer on PacketCable

network design, provisioning, configuration, management, and security. Drawing on consulting experience with every leading cable operator, Jeff Riddel presents real-world case studies, sample network designs, configurations, and practical tips for all facets of PacketCable planning and deployment. This book's end-to-end coverage has been designed for cable engineers and networking professionals with widely diverse backgrounds and experience. Topics covered include PacketCable specifications and functional components, multimedia terminal adapters (MTA) provisioning, call signaling, media streaming, quality of service (QoS), event messaging, security, and much more. Every chapter contains tables and charts that serve as quick, easy references to key points. Each chapter closes with a summary and chapter review questions designed to help you assess and deepen your understanding. PacketCable Implementation brings together everything you need to know about cable networking to service delivery. Discover the PacketCable "big picture," including key application opportunities Learn about the latest generation of PacketCable standards and specifications, including PacketCable 2.0 and DOCSIS 3.0 Understand the functional components of a PacketCable network and how they fit together Walk step-by-step through provisioning, including protocols, flows, and MTA configuration Gain an in-depth understanding of call signaling: message formats, Network-based Call Signaling (NCS), PSTN interconnects, Call Management Server

Signaling (CMSS), and more Implement efficient, high-performance media streaming Deploy, analyze, manage, and troubleshoot a state-of-the-art QoS framework Manage crucial network considerations, including lawful intercept This book is part of the Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers. Category: Cisco Press-Networking Covers: Broadband Multimedia

A guide to cable modems includes tutorials, diagrams, source code examples, hardware schematics, and hacks to get the most out of this Internet connection.

Configuring Cisco Voice Over IP, Second Edition provides network administrators with a thorough understanding of Cisco's current voice solutions. This book is organized around the configuration of all of Cisco's core VoIP products, including Cisco CallManager software, Cisco 7910 series of phones, and server-based IP PBXs. In addition, AVVID coverage has been added. An update to a bestselling title in a growth market. Continued competitive pressure on ISPs to deliver VoIP will create strong demand information on topic Voice Over IP is expected to make great inroads in 2002. Voice-over-IP got its start at the time of the first edition of the book; it is now real and more companies are adopting it since IT managers have become less skeptical of IP telephony's reliability and

more aware of the potential cost savings and application benefits of a converged network. Voip wares now promise easier quality-of-service (QoS) deployment, and a multitude of new IP phones and conferencing stations for corporations. Cisco and IBM recently announced a package deal that could help businesses quickly roll out IP voice in a small or midsize office. Since getting into the IP telephony market two years ago, Cisco has seen quick success in selling its voice-over-IP products into its vast installed base of IP LAN equipment customers. The firm was the top vendor of IP phones in the first quarter of this year and second in IP PBX system shipments (behind 3Com), according to Cahners In-Stat. The complete guide to deploying and operating SBC solutions, including Cisco Unified Border Element (CUBE) Enterprise and service provider networks are increasingly adopting SIP as the guiding protocol for session management, and require leveraging Session Border Controller (SBC) technology to enable this transition. Thousands of organizations have made the Cisco Unified Border Element (CUBE) their SBC technology of choice. Understanding Session Border Controllers gives network professionals and consultants a comprehensive guide to SBC theory, design, deployment, operation, security, troubleshooting, and more. Using CUBE-based examples, the authors offer insights that will be valuable to technical professionals using any SBC solution. The authors thoroughly cover native call control protocols, SBC behavior, and SBC's benefits for

topology abstraction, demarcation and security, media, and protocol interworking. They also present practical techniques and configurations for achieving interoperability with a wide variety of collaboration products and solutions. Evaluate key benefits of SBC solutions for security, management, and interoperability Master core concepts of SIP, H.323, DTMF, signaling interoperability, call routing, fax/modem over IP, security, media handling, and media/signal forking in the SBC context Compare SBC deployment scenarios, and optimize deployment for your environment Size and scale an SBC platform for your environment, prevent oversubscription of finite resources, and control cost through careful licensing Use SBCs as a back-to-back user agent (B2BUA) to interoperate between asymmetric VoIP networks Establish SIP trunking for PSTN access via SBCs Interoperate with call servers, proxies, fax servers, ITSPs, redirect servers, call recording servers, contact centers, and other devices Secure real-time communications over IP Mitigate security threats associated with complex SIP deployments Efficiently monitor and manage an SBC environment

CCNA 200-301 Official Cert Guide, Volume 2
Configuring Cisco Voice Over IP 2E
A Cisco NX-OS Perspective
Cisco LAN Switching Configuration Handbook
PacketCable Implementation

Help for Unix System Administrators

Cisco LAN Switching Configuration Handbook Second Edition A concise reference for implementing the most frequently used features of the Cisco Catalyst family of switches Steve McQuerry, CCIE® No. 6108 David Jansen, CCIE No. 5952 David Hucaby, CCIE No. 4594 **Cisco LAN Switching Configuration Handbook, Second Edition**, is a quick and portable reference guide to the most commonly used features that can be configured on Cisco® Catalyst® switches. Written to be used across all Catalyst IOS platforms, the book covers general use of Cisco IOS®, followed by a series of chapters that provide design and configuration guidelines. Each chapter starts with common design overviews and then describes the configuration of management features. Coverage includes Layer 2, Layer 3, multicast, high availability, and traffic management configurations. This book is organized by groups of common features, with sections marked by shaded tabs for quick reference. Information on each feature is presented in a concise format, with background, configuration, and example components. The format is organized for easy accessibility to commands and their proper usage, saving you hours of research time. From the first page, the authors zero in on quick facts, configuration steps, and explanations of

configuration options in each Cisco Catalyst switch feature. The quick reference format allows you to easily locate just the information you need without having to search through thousands of pages of documentation, helping you get your switches up and running quickly and smoothly. Whether you are looking for a handy, portable reference to more easily configure Cisco Catalyst switches in the field, or you are preparing for CCNA®, CCNP®, or CCIE® certification, you will find Cisco LAN Switching Configuration Handbook, Second Edition, to be an essential resource. Steve McQuerry, CCIE No. 6108, is a technical solutions architect with Cisco focused on data center solutions. Steve works with enterprise customers in the midwestern United States to help them plan their data center architectures. David Jansen, CCIE No. 5952, is a technical solutions architect (TSA) with Cisco focused on Data Center Architectures at Cisco. David has more than 20 years of experience in the IT industry. David Hucaby, CCIE No. 4594, is a lead network engineer for the University of Kentucky, where he works with healthcare networks based on the Cisco Catalyst, ASA/PIX/FWSM security, and VPN product lines. Implement switched campus network designs Configure switch prompts, IP addresses, passwords, switch modules, file management, and

administrative protocols Understand how Layer 3 interfaces are used in a switch Configure Ethernet, Fast Ethernet, Gigabit Ethernet, and EtherChannel interfaces Implement VLANs, trunking, and VTP Operate, configure, and tune Spanning Tree Protocol (STP) Handle multicast traffic and interact with multicast routers Streamline access to server and firewall farms with accelerated server load balancing Deploy broadcast suppression, user authentication, port security, and VLAN access lists Configure switch management features Implement QoS and high availability features Transport voice traffic with specialized voice gateway modules, inline power, and QoS features This book is part of the Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers. Cisco IOS 12.0 Switching Services is a comprehensive guide detailing available Cisco IOS switching alternatives. Cisco switching services range from fast switching and Netflow switching to LAN Emulation. This book describes how to configure routing between virtual LANs (VLANs) and teach how to effectively configure and implement VLANs on switches. 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

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system · Administer device AAA with Cisco IOS, WLC, and Nexus