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## SSAG9C - GINA WALSH

Cisco® Unified Presence offers companies powerful opportunities to improve productivity. Building on the migration to IP telephony and the deployment of Cisco Unified Communications environments, it helps people find each other faster, solve problems more quickly, pursue opportunities with more agility, and increase customer satisfaction. Written by three leading Cisco experts, Cisco Unified Presence Fundamentals explains the concepts behind Unified Presence, the technologies involved, their interdependencies, and how to troubleshoot them. The authors support their discussions of concepts and techniques with many sample applications, guiding network professionals to real-world mastery even if they have never used presence technologies. This book will be an indispensable resource for all Cisco partners and system integrators who need to understand Unified Presence and build solutions, and for all IT and networking professionals who must work with or support those solutions. This is the only book that Walks readers step by step through configuring Cisco Unified Presence Presents practical sample applications that encourage readers to explore and innovate in their own organizations Thoroughly covers the technical aspects of deploying Presence and explains how it can be used within key vertical markets Presents troubleshooting techniques from both server- and client-side perspectives Plan, install, configure, support, and profit from Cisco Unified Presence Understand the components of a Cisco Unified Presence solution and how they fit together Gain valuable insight into how Cisco Unified Presence can increase productivity, scheduling capabilities, and interactivity for evolving industries Understand crucial interdependencies that impact Cisco Unified Presence design, functionality, and behavior Configure Cisco Unified Presence for Federation Understand how to resolve Unified Presence issues with built-in tools and diagnostic utilities 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, passwords, and management techniques.

CCIE Routing and Switching v5.0 Official Cert Guide, Volume 1 Fifth Edition CCIE Routing and Switching v5.0 Official Cert Guide, Volume 1, Fifth Edition from CiscoPress 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 Peter Palúch share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. This first of two volumes covers LAN switching, IP networking, and IP IGP routing 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 1, 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](http://www.cisco.com/go/authorizedtraining). The official study guide helps you master topics on the CCIE Routing and Switching 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 --OSPF v2 and v3 --IS-IS --Route redistribution, route summarization, default routing, and performance routing Companion CD-ROM The CD-ROM contains 200 practice questions for the exam. Includes Exclusive Offer for 70% Off Premium Edition eBook and Practice Test Pearson IT Certificati ...

CCVP CVOICE Quick Reference (Digital Short Cut) Kevin Wallace, CCIE No. 7945 ISBN-10: 1-58705-824-3 ISBN-13: 978-1-58705-824-0 As a final exam preparation tool, the CCVP CVOICE Quick Reference, Second Edition provides a concise review of all objectives on the CVOICE exam (642-436). This digital Short Cut provides you with detailed, graphical-based information, highlighting only the key topics in cram-style format. With this document as your guide, you will review topics on foundational elements of VOIP calls, the description of dial plans, and the implementation of gateways, gatekeepers, and IP-IP gateways. This fact-filled Quick Reference allows you to get all-important information at a glance, helping you focus your study on areas of weakness and to enhance memory retention of essential exam concepts.

Now fully updated for the new Cisco CAPPS 300-085 exam, Implementing Cisco Collaboration Applications (CAPPS) Foundation Learning Guide is your Cisco® authorized learning tool for CCNP® Collaboration preparation. Part of the Cisco Press Foundation Learning Series, it teaches advanced skills for designing, deploying, configuring, and troubleshooting Cisco Collaboration and Unified Communications applications, devices, and networks. Author Chris Olsen shows how to effectively use Cisco Unity Connection, Cisco Unity Express, Cisco Instant Message and Presence, Cisco TelePresence Video Communication Server, and Cisco TeleP-

presence Management Suite in production environments. He begins by introducing the server platforms and overlays that are the basis for all Cisco Unity Connection design and integration. Next, he presents in-depth coverage of a wide range of essential tasks—from user configuration to voicemail redundancy, configuring Cisco Jabber Mobile, to provisioning Cisco Prime Collaboration. Each chapter opens with a list of topics that clearly identifies its focus. Each chapter ends with a summary of key concepts for quick study, as well as review questions to assess and reinforce your understanding. Throughout, configuration examples and sample verification outputs illustrate critical issues in network operation and troubleshooting. Whether you are preparing for the CCNP Collaboration certification exams or you are just interested in learning about how to deploy and operate Cisco collaboration applications, you will find this book to be an invaluable resource. Shows how to integrate Cisco Unity Connection with Cisco Unified Communications Manager or other PBXs Covers configuring Cisco Unity Connection users, templates, service classes, distribution lists, security, LDAP, dial plans, and call management Walks through Unified Messaging single Inbox configuration Shows how to design, integrate, and configure feature-rich branch office messaging solutions with Cisco Unity Express Explains Cisco Unified IM and Presence components, design, integration, deployment, and feature configuration Covers Cisco Jabber and Cisco Jabber Mobile configuration Guides you through deploying Cisco Collaboration Systems Applications with Cisco Prime Collaboration Introduces Cisco TelePresence Management Suite (Cisco TMS) capabilities and scheduling options This book is in the Foundation Learning Guide Series. These guides are developed together with Cisco® as the only authorized, self-paced learning tools that help networking professionals build their understanding of networking concepts and prepare for Cisco certification exams.

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 CCDA 200-310 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of the CCDA 200-310 Official Cert Guide. This eBook does not include the practice exam that comes with the print edition. CCDA 200-310 Official Cert Guide presents you with an organized test preparation routine through the use of proven series elements and techniques. “Do I Know This Already?” quizzes open each chapter and allow you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. CCDA 200-310 Official Cert Guide focuses specifically on the objectives for the newest Cisco CCDA DESGN exam. Expert networking consultants Anthony Bruno and Steve Jordan 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 allow you to succeed on the exam the first time. The official study guide helps you master all the topics on the new CCDA DESGN exam, including: Design methodologies, including PBM, network characterization, and top-down/bottom-up approaches Design objectives: modularity, hierarchy, scalability, resilience, fault domains Addressing and routing protocols in existing networks Enterprise network design: cam-

pus, enterprise, and branch Expanding existing networks: wireless, security, collaboration, virtualization, programmability, data centers, and more CCDA 200-310 Official Cert Guide is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit <http://www.cisco.com/web/learning/index.html>

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 Sambhi, 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 Sambhi, 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.

Cisco Unity Connection The comprehensive guide to Cisco Unity Connection voice messaging system design, implementation, and

troubleshooting David Schulz Cisco Unity Connection presents all the concepts and techniques you need to successfully plan, design, implement, and maintain Cisco Unity Connection voice messaging systems. For every stage of the system lifecycle, enterprise voice expert David Schulz offers clear explanations, practical examples, realistic case studies, and best-practice solutions. The author begins by introducing Cisco Unity Connection's core features, capabilities, and components. Next, he provides thorough, step-by-step coverage of configuration, including users, contacts, call routing, dial plans, class of service, and templates. You will find extensive discussions of user features and access, administration and maintenance, redundancy and backup, and much more. Throughout, the author addresses many enhancements introduced in the new Cisco Unity Connection v8.5 software. This book concludes with a complete guide to troubleshooting, including case studies that identify common deployment challenges and help you build real-world problem-solving skills.

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

CCNP Enterprise Core ENCOR 300-401 Official Cert Guide is a comprehensive self-study tool for preparing for the new ENCOR exam. Complete coverage of all exam topics as posted on the exam topic blueprint ensures students will arrive at a thorough understanding of what they need to master to succeed on the exam. The book follows a logical organization of the ENCOR exam objectives. Material is presented in a concise manner, focusing on increasing readers' retention and recall of exam topics. Readers will organize their exam preparation through the use of the consistent features in these chapters. Pre-chapter quiz - These quizzes allow readers to assess their knowledge of the chapter content and decide how much time to spend on any given section. Foundation Topics - These sections make up the majority of the page count, explaining concepts, configurations, with emphasis on the theory and concepts, and with linking the theory to the meaning of the configuration commands. Key Topics - Inside the Foundation Topics sections, every figure, table, or list that should absolutely be understood and remembered for the exam is noted with the words "Key Topic" in the margin. This tool allows the reader to quickly review the most important details in each chapter. Exam Preparation - This ending section of each chapter includes three additional features for review and study, all designed to help the reader remember the details as well as to get more depth. Readers will be instructed to review key topics from the chapter, complete tables and lists from memory, and define key terms. Final Preparation Chapter--This final chapter details a set of tools and a

study plan to help readers complete their preparation for the exams. Assessment, review, and practice for the CCNP ENCOR exam Revised edition of the #1 selling CCNP preparation self-study guide Book content is fully updated to align to the new CCNP ENCOR exam objectives Book and online materials are packed with features to help candidates master difficult testing methods on actual exams Practice tests contain exam-realistic questions that closely mimic the difficulty of the actual exam. In-depth expert explanations of all protocols, commands, and technologies on the ENCOR exam

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. CCNA Data Center DCICN 200-150 Official Cert Guide from Cisco Press allows you to succeed on the exam the first time and is the only self-study resource approved by Cisco. Cisco Data Center experts Chad Hintz, Cesar Obediente, and Ozden Karakok share 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 allows 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 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. The official study guide helps you master topics on the CCNA Data Center DCICN 200-150 exam, including the following: Nexus data center infrastructure and architecture Networking models, Ethernet LANs, and IPv4/IPv6 addressing/routing Data center Nexus switching and routing fundamentals Nexus switch installation and operation VLANs, trunking, STP, and Ethernet switching IPv4 and IPv6 subnetting IPv4 routing concepts, protocols, configuration, and access control Data center storage networking technologies and configurations

CCNP Collaboration CLACCM #300-815 Official Cert Guide is Cisco's official, comprehensive self-study resource for Cisco's CLACCM #300-815 exam (Implementing Cisco Advanced Call Control and Mobility Services), part of today's pathway to the CCNP Collaboration credential. It will thoroughly prepare network professionals to consolidate communications infrastructure into scalable, portable, and secure collaboration solutions using Cisco's advanced call control and mobility services. Designed for all CCNP Collaboration candidates preparing for the CLACCM #300-815 exam, it covers every objective concisely and logically, with extensive teaching features designed to promote retention and understanding. You'll find: Pre-chapter quizzes to assess knowledge upfront and focus your study more efficiently Foundation topics sections that explain concepts and configurations, and link theory to practice Key topics sections calling attention to every figure, table, and list you must know Exam Preparation sections with additional chapter review features Final preparation chapter providing tools and a complete final study plan A customizable practice test library This guide offers comprehensive, up-to-date coverage of all CLACCM #300-815 topics related to: SIP/H.323 protocols, signaling, session establishment, and troubleshooting Cisco Unified Border Element (CUBE) call routing, dial planning, configuration, and troubleshooting Cisco Unified Communications Manag-

er (CUCM) call control and dial planning, including IP Phone registration and call routing, SIP trunks, route patterns, and more CUCME IP Phone Registration, features, and SRST, including hunt groups, call queuing, time-of-day routing, conferencing, call park/pickup, mobility options, and global dial plan replication

As the cellular world and the Internet converge, mobile networks are transitioning from circuit to packet and the Internet Protocol (IP) is now recognized as the fundamental building block for all next-generation communication networks. The all-IP vision provides the flexibility to deliver cost-effective services and applications that meet the evolving needs of mobile users. RF engineers, mobile network designers, and system architects will be expected to have an understanding of IP fundamentals and how their role in delivering the end-to-end system is crucial for delivering the all-IP vision that makes the Internet accessible anytime, anywhere. IP Design for Mobile Networks discusses proper IP design theory to effectively plan and implement your next-generation mobile network so that IP integrates all aspects of the network. The book outlines, from both a standards and a design theory perspective, both the current and target state of mobile networks, and the technology enablers that will assist the migration. This IP transition begins with function-specific migrations of specific network domains and ends with an end-to-end IP network for radio, transport, and service delivery. The book introduces many concepts to give you exposure to the key technology trends and decision points affecting today's mobile operators. The book is divided into three parts: Part I provides an overview of how IP is being integrated into mobile systems, including radio systems and cellular networks. Part II provides an overview of IP, the technologies used for transport and connectivity of today's cellular networks, and how the mobile core is evolving to encompass IP technologies. Part III provides an overview of the end-to-end services network based on IP, including context awareness and services. Presents an overview of what mobile networks look like today—including protocols used, transport technologies, and how IP is being used for specific functions in mobile networks Provides an all-inclusive reference manual for IP design theory as related to the broader application of IP for mobile networks Imparts a view of upcoming trends in mobility standards to better prepare a network evolution plan for IP-based mobile networks 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. [ciscopress.com](http://ciscopress.com)

As a final exam preparation tool, the CCNP Voice TVoice 642-427 Quick Reference provides a concise review of all objectives on the new CCNP Voice Troubleshooting Cisco Unified Communications exam (642-427). This eBook provides you with detailed, graphical-based information, highlighting only the key topics in cram-style format. With this document as your guide, you will review topics on troubleshooting Cisco Unified Communications systems and solutions in different deployments. In addition, this eBook covers troubleshooting methodology, triage, resources, tools, and fixes for Cisco Unified Communications Manager and the new v8.0 features such as Call Control Discovery, SIP Precondition, and Extension Mobility Cross Cluster, as well as dial plan troubleshooting including globalized call routing. This fact-filled Quick Reference allows you to get all-important information at a glance, helping you to focus your study on areas of weakness and to enhance memory retention of essential exam concepts.

Master IIUC 640-460 exam topics with the official study guide Assess your knowledge with chapter-opening quizzes Review key concepts with Exam Preparation Tasks CCNA Voice Official Exam Certification Guide is a best of breed Cisco exam study guide that

focuses specifically on the objectives for the CCNA Voice IIUC 640-460 exam. Senior voice instructors and network engineers Jeremy Cioara, Michael Cavanaugh, and Kris Krake 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. CCNA Voice Official Exam Certification Guide presents you with an organized test preparation routine through the use of proven series elements and techniques. "Do I Know This Already?" quizzes open each chapter and allow you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks sections help drill you on key concepts you must know thoroughly. Well-regarded for its level of detail, assessment features, 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. CCNA Voice Official Exam Certification 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](http://www.cisco.com/go/authorizedtraining). The official study guide helps you master all the topics on the IIUC exam, including Connecting IP phones to the LAN infrastructure Cisco Unified CME installation Cisco Unified CME IP phone configuration Cisco Unified CME voice productivity features Gateway and trunk concepts and configuration Cisco Unity Express concepts and configuration Smart Business Communications System Configuring and maintaining the UC500 for voice

This Cisco-authorized, self-paced foundation learning tool for both the CCENT 100-101 and CCNA® 200-120 exams offers a comprehensive overview of the diverse technologies found in modern internetworks. From routing and switching concepts to practical configuration and security, it teaches with numerous examples, illustrations, and real-world scenarios, helping you rapidly gain both expertise and confidence. This book provides you with all the knowledge you need to install, operate and troubleshoot a small enterprise branch network, including basic network security. Whether you are preparing for certification or simply want to understand basic Cisco networking, you'll find this guide exceptionally valuable. Topics covered include: TCP/IP models and protocols; LANs and Ethernet; running Cisco IOS; VLANs and trunks; IP addressing and subnetting; packet delivery; static and dynamic routing; DHCP and NAT; network security; WANs, IPv6, and more. This edition has been fully updated to reflect the new Cisco ICND1 100-101 exam blueprint. Content has been reorganized, simplified, and expanded to help you learn even more efficiently. New Production Network Simulation questions offer more real-world review, and new web video resources in each chapter walks you through many key tasks. Interconnecting Cisco Network Devices, Part 1 (ICND1) Foundation Learning Guide, Fourth Edition is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction from authorized Cisco Learning Partners worldwide, please visit [www.cisco.com/go/authorizedtraining](http://www.cisco.com/go/authorizedtraining). Network functions, components, models, layers, topologies, and applications LAN, Ethernet, switching, routing, and packet delivery concepts Network management with Cisco IOS software and its command-line interface VLANs and segmentation: techniques for optimizing performance and flexibility Easy ways to create efficient IP addressing and subnetting schemes Cisco router configuration, in-

cluding static and dynamic routing DHCP and NAT: dynamically providing IP addresses and handling limited address availability Essential network security techniques Traffic management with Access Control Lists WAN concepts, technologies, and options IPv6 configuration in dynamically routed network environments The second of two volumes, this is Cisco's official, complete self-study resource for the BGP, QoS, IP multicast, security, WANs, and MPLS areas of the new CCIE Routing and Switching 5.0 exam. Designed for experienced networking professionals, it covers every objective in these areas concisely and logically, with extensive teaching features designed to help retention and develop deeper insight.

As a final exam preparation tool, the CCNP Security IPS 642-627 Quick Reference provides a concise review of all objectives on the new CCNP Security IPS exam (642-627). This eBook provides you with detailed, graphical-based information, highlighting only the key topics in cram-style format. With this document as your guide, you will review topics on reducing risk to the IT infrastructure and applications using Cisco IPS features and providing detailed operations support for the Cisco IPS. This fact-filled Quick Reference allows you to get all-important information at a glance, helping you to focus your study on areas of weakness and to enhance memory retention of essential exam concepts.

Today, billions of devices are Internet-connected, IoT standards and protocols are stabilizing, and technical professionals must increasingly solve real problems with IoT technologies. Now, five leading Cisco IoT experts present the first comprehensive, practical reference for making IoT work. IoT Fundamentals brings together knowledge previously available only in white papers, standards documents, and other hard-to-find sources—or nowhere at all. The authors begin with a high-level overview of IoT and introduce key concepts needed to successfully design IoT solutions. Next, they walk through each key technology, protocol, and technical building block that combine into complete IoT solutions. Building on these essentials, they present several detailed use cases, including manufacturing, energy, utilities, smart+connected cities, transportation, mining, and public safety. Whatever your role or existing infrastructure, you'll gain deep insight what IoT applications can do, and what it takes to deliver them. Fully covers the principles and components of next-generation wireless networks built with Cisco IOT solutions such as IEEE 802.11 (Wi-Fi), IEEE 802.15.4-2015 (Mesh), and LoRaWAN Brings together real-world tips, insights, and best practices for designing and implementing next-generation wireless networks Presents start-to-finish configuration examples for common deployment scenarios Reflects the extensive first-hand experience of Cisco experts

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, Cis-

co 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.

Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide is a Cisco® authorized learning tool for CCNP®/CCDP®/CCIP® preparation. As part of the Cisco Press Foundation Learning Series, this book teaches you how to plan, configure, maintain, and scale a routed network. It focuses on using Cisco routers connected in LANs and WANs typically found at medium-to-large network sites. After completing this book, you will be able to select and implement the appropriate Cisco IOS services required to build a scalable, routed network. Each chapter opens with the list of topics covered to clearly identify the focus of that chapter. At the end of each chapter, a summary of key concepts for quick study and review questions provide you with an opportunity to assess and reinforce your understanding of the material. Throughout the book there are many configuration examples and sample verification outputs demonstrating troubleshooting techniques and illustrating critical issues surrounding network operation. Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide is ideal for certification candidates who are seeking a tool to learn all the topics covered in the ROUTE 642-902 exam. Serves as the official book for the Cisco Networking Academy CCNP ROUTE course Includes all the content from the e-Learning portion of the Learning@ Cisco ROUTE course Provides a thorough presentation of complex enterprise network frameworks, architectures, and models, and the process of creating, documenting, and executing an implementation plan Details Internet Protocol (IP) routing protocol principles Explores Enhanced Interior Gateway Routing Protocol (EIGRP), Open Shortest Path First (OSPF), and Border Gateway Protocol (BGP) Examines how to manipulate routing updates and control the information passed between them Covers routing facilities for branch offices and mobile workers Investigates IP Version 6 (IPv6) in detail Presents self-assessment review questions, chapter objectives, and summaries to facilitate effective studying This book is in the Foundation Learning Guide Series. These guides are developed together with Cisco® as the only authorized, self-paced learning tools that help networking professionals

build their understanding of networking concepts and prepare for Cisco certification exams.

The 31-Day format breaks down key exam topics into 31 daily review sessions using short summaries, lists, tables, examples, and graphics. This edition includes a Study Resources section at the end of each day that provides you with a quick reference for locating more in-depth treatment of a day's topics within relevant textbook resources. Use this day-by-day guide to organize, prepare, and review all the CompTIA A+ objectives for the CompTIA A+ Essentials exam (220-701) and the CompTIA A+ Practical Application exam (220-702).

The complete guide to Cisco® IWAN: features, benefits, planning, and deployment Using Cisco Intelligent WAN (IWAN), businesses can deliver an uncompromised experience, security, and reliability to branch offices over any connection. Cisco IWAN simplifies WAN design, improves network responsiveness, and accelerates deployment of new services. Now, there's an authoritative single-source guide to Cisco IWAN: all you need to understand it, design it, and deploy it for maximum value. In Cisco Intelligent WAN (IWAN), leading Cisco experts cover all key IWAN technologies and components, addressing issues ranging from visibility and provisioning to troubleshooting and optimization. They offer extensive practical guidance on migrating to IWAN from your existing WAN infrastructure. This guide will be indispensable for all experienced network professionals who support WANs, are deploying Cisco IWAN solutions, or use related technologies such as DMVPN or PfR. Deploy Hybrid WAN connectivity to increase WAN capacity and improve application performance Overlay DMVPN on WAN transport to simplify operations, gain transport independence, and improve VPN scalability Secure DMVPN tunnels and IWAN routers Use Application Recognition to support QoS, Performance Routing (PfR), and application visibility Improve application delivery and WAN efficiency via PfR Monitor hub, transit, and branch sites, traffic classes, and channels Add application-level visibility and per-application monitoring to IWAN routers Overcome latency and bandwidth inefficiencies that limit application performance Use Cisco WAAS to customize each location's optimizations, application accelerations, and virtualization Smoothly integrate Cisco WAAS into branch office network infrastructure Ensure appropriate WAN application responsiveness and experience Improve SaaS application performance with Direct Internet Access (DIA) Perform pre-migration tasks, and prepare your current WAN for IWAN Migrate current point-to-point and multipoint technologies to IWAN

Best-practice QoS designs for protecting voice, video, and critical data while mitigating network denial-of-service attacks Understand the service-level requirements of voice, video, and data applications Examine strategic QoS best practices, including Scavenger-class QoS tactics for DoS/worm mitigation Learn about QoS tools and the various interdependencies and caveats of these tools that can impact design considerations Learn how to protect voice, video, and data traffic using various QoS mechanisms Evaluate design recommendations for protecting voice, video, and multiple classes of data while mitigating DoS/worm attacks for the following network infrastructure architectures: campus LAN, private WAN, MPLS VPN, and IPsec VPN Quality of Service (QoS) has already proven itself as the enabling technology for the convergence of voice, video, and data networks. As business needs evolve, so do the demands for QoS. The need to protect critical applications via QoS mechanisms in business networks has escalated over the past few years, primarily due to the increased frequency and sophistication of denial-of-service (DoS) and worm attacks. End-to-End QoS Network Design is a detailed handbook for planning and deploying QoS solutions to address current business

needs. This book goes beyond discussing available QoS technologies and considers detailed design examples that illustrate where, when, and how to deploy various QoS features to provide validated and tested solutions for voice, video, and critical data over the LAN, WAN, and VPN. The book starts with a brief background of network infrastructure evolution and the subsequent need for QoS. It then goes on to cover the various QoS features and tools currently available and comments on their evolution and direction. The QoS requirements of voice, interactive and streaming video, and multiple classes of data applications are presented, along with an overview of the nature and effects of various types of DoS and worm attacks. QoS best-practice design principles are introduced to show how QoS mechanisms can be strategically deployed end-to-end to address application requirements while mitigating network attacks. The next section focuses on how these strategic design principles are applied to campus LAN QoS design. Considerations and detailed design recommendations specific to the access, distribution, and core layers of an enterprise campus network are presented. Private WAN QoS design is discussed in the following section, where WAN-specific considerations and detailed QoS designs are presented for leased-lines, Frame Relay, ATM, ATM-to-FR Service Interworking, and ISDN networks. Branch-specific designs include Cisco® SAFE recommendations for using Network-Based Application Recognition (NBAR) for known-worm identification and policing. The final section covers Layer 3 VPN QoS design-for both MPLS and IPsec VPNs. As businesses are migrating to VPNs to meet their wide-area networking needs at lower costs, considerations specific to these topologies are required to be reflected in their customer-edge QoS designs. MPLS VPN QoS design is examined from both the enterprise and service provider's perspectives. Additionally, IPsec VPN QoS designs cover site-to-site and teleworker contexts. Whether you are looking for an introduction to QoS principles and practices or a QoS planning and deployment guide, this book provides you with the expert advice you need to design and implement comprehensive QoS solutions.

Cisco TelePresence™ Systems (CTS) create live, face-to-face meeting experiences, providing a breakthrough virtual conferencing and collaboration experience that transcends anything previously achievable by videoconferencing. Although the business case for deploying CTS is compelling, implementing it requires advanced knowledge of the latest networking technologies, an attention to detail, and thorough planning. In this book, four leading CTS technical experts cover everything you need to know to successfully design and deploy CTS in your environment. The authors cover every element of a working CTS solution: video, audio, signaling protocols and call processing, LAN and WAN design, multipoint, security, inter-company connectivity, and much more. They deliver start-to-finish coverage of CTS design for superior availability, QoS support, and security in converged networks. They also present the first chapter-length design guide of its kind detailing the room requirements and recommendations for lighting, acoustics, and ambience within various types of TelePresence rooms. Cisco Telepresence Fundamentals is an indispensable resource for all technical professionals tasked with deploying CTS, including netadmins, sysadmins, audio/video specialists, VoIP specialists, and operations staff. This is the only book that: Introduces every component of a complete CTS solution and shows how they work together Walks through connecting CTS in real-world environments Demonstrates how to secure virtual meetings using Cisco firewalls and security protocols Includes a full chapter on effective TelePresence room design Walks through every aspect of SIP call signaling design, including both single-cluster and intercluster examples for use in a TelePresence environment Provides prequalification, room, and network path as-

assessment considerations to help you anticipate and avoid problems Tim Szigeti, CCIE® No. 9794, technical leader within the Cisco® Enterprise Systems Engineering team, is responsible for defining Cisco TelePresence network deployment best practices. He also coauthored the Cisco Press book End-to-End QoS Network Design. Kevin McMenemy, senior manager of technical marketing in the Cisco TelePresence Systems Business Unit, has spent the past nine years at Cisco supporting IP videoconferencing, video telephony, and unified communications. Roland Saville, technical leader for the Cisco Enterprise Systems Engineering team, tests and develops best-practice design guides for Cisco TelePresence enterprise deployments. Alan Glowacki is a Cisco technical marketing engineer responsible for supporting Cisco TelePresence customers and sales teams. Use Cisco TelePresence Systems (CTS) to enhance global teamwork and collaboration, both within your own enterprise and with your customers, partners, and vendors Understand how the various components of the Cisco TelePresence Solution connect and work together Integrate CTS into existing LAN, enterprise, and service provider networks Successfully design and deploy a global TelePresence network Understand the importance of room dimensions, acoustics, lighting, and ambience and how to properly design the physical room environment Provide the high levels of network availability CTS requires Leverage the Cisco quality of service (QoS) tools most relevant to CTS network provisioning and deployment Systematically secure CTS using TLS, dTLS, sRTP, SSH, and Cisco firewalls 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. Category: IP Communications Covers: Cisco TelePresence Systems

Networking Essentials Companion Guide is the official supplemental textbook for the Networking Essentials course in the Cisco Networking Academy. Networking is at the heart of the digital transformation. The network is essential to many business functions today, including business critical data and operations, cybersecurity, and so much more. A wide variety of career paths rely on the network--so it's important to understand what the network can do, how it operates, and how to protect it. This is a great course for developers, data scientists, cybersecurity specialists, and other professionals looking to broaden their networking domain knowledge. It's also an excellent launching point for students pursuing a wide range of career pathways--from cybersecurity to software development to business and more.

The complete guide to transforming enterprise networks with Cisco DNA As networks become more complex and dynamic, organizations need better ways to manage and secure them. With the Cisco Digital Network Architecture, network operators can run entire network fabrics as a single, programmable system by defining rules that span their devices and move with their users. Using Cisco intent-based networking, you spend less time programming devices, managing configurations, and troubleshooting problems so you have more time for driving value from your network, your applications, and most of all, your users. This guide systematically introduces Cisco DNA, highlighting its business value propositions, design philosophy, tenets, blueprints, components, and solutions. Combining insider information with content previously scattered through multiple technical documents, it provides a single source for evaluation, planning, implementation, and operation. The authors bring together authoritative insights for multiple business and technical audiences. Senior executives will learn how DNA can help them drive digital transformation for competitive advantage. Technical decision-makers will discover powerful emerging solutions for their specific needs. Architects will find es-

sential recommendations, interdependencies, and caveats for planning deployments. Finally, network operators will learn how to use DNA Center's modern interface to streamline, automate, and improve virtually any network management task. · Accelerate the digital transformation of your business by adopting an intent-based network architecture that is open, extensible, and programmable · Integrate virtualization, automation, analytics, and cloud services to streamline operations and create new business opportunities · Dive deep into hardware, software, and protocol innovations that lay the programmable infrastructure foundation for DNA · Virtualize advanced network functions for fast, easy, and flexible deployments · Translate business intent into device configurations and simplify, scale, and automate network operations using controllers · Use analytics to tune performance, plan capacity, prevent threats, and simplify troubleshooting · Learn how Software-Defined Access improves network flexibility, security, mobility, visibility, and performance · Use DNA Assurance to track the health of clients, network devices, and applications to reveal hundreds of actionable insights · See how DNA Application Policy supports granular application recognition and end-to-end treatment, for even encrypted applications · Identify malware, ransomware, and other threats in encrypted traffic

This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Access to the personal video mentoring is available through product registration at Cisco Press; or see the instructions in the back pages of your eBook. Learn, prepare, and practice for CCNP/CCIE Data Center Core DCCOR 350-601 exam success with this Cert Guide from Cisco Press, a leader in IT certification learning and the only self-study resource approved by Cisco. · Master CCNP/CCIE Data Center Core DCCOR 350-601 exam topics · Assess your knowledge with chapter-ending quizzes · Review key concepts with exam preparation tasks · Learn from more than two hours of video mentoring CCNP and CCIE Data Center Core DCCOR 350-601 Official Cert Guide is a best-of-breed exam study guide. Expert authors Somit Maloo and Firas Ahmed share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test-preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. The book also contains more than two hours of personal video mentoring from the Pearson IT Certification Complete Video Course. Go to the back pages of your eBook for instructions on how to access the personal video mentoring content. Well regarded for its level of detail, assessment features, and challenging review questions and exercises, this study guide helps you master the concepts and techniques that will help you succeed on the exam the first time. This official study guide helps you master all the topics on the CCNP/CCIE Data Center Core DCCOR 350-601 exam, including · Network · Compute · Storage Network · Automation · Security Trust the best selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. CCNP Security VPN 642-647 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

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As a final exam preparation tool, the CCNP Security VPN 642-648 Quick Reference provides a concise review of all objectives on the new CCNP Security VPN exam (642-648). This eBook provides you with detailed, graphical-based information, highlighting only the key topics in cram-style format. With this document as your guide, you will review topics on deploying Cisco ASA-based VPN solutions. This fact-filled Quick Reference allows you to get all-important information at a glance, helping you to focus your study on areas of weakness and to enhance memory retention of essential exam concepts.

Designed for all CCNP Security candidates, CCNP Security Virtual Private Networks SVPN 300-730 Official Cert Guide covers every SVPN #300-730 objective concisely and logically, with extensive teaching features designed to promote retention and understanding. You'll find: Pre-chapter quizzes to assess knowledge upfront and focus your study more efficiently Foundation topics sections that explain concepts and configurations, and link theory to practice Key topics sections calling attention to every figure, table, and list you must know Exam Preparation sections with additional chapter review features Final preparation chapter providing tools and a complete final study plan A customizable practice test library CCNP Security Virtual Private Networks SVPN 300-730 Official Cert Guide offers comprehensive, up-to-date coverage of all SVPN #300-730 topics related to: Secure communications Architectures Troubleshooting

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technologies --MPLS

This approved study guide helps you master topics on the CompTIA Network+ N10-006 exam, including the following: Computer network fundamentals The OSI model and TCP/IP stack Media types, infrastructure components, and network devices Ethernet technology IPv4 and IPv6 addresses Routing IP traffic with dynamic routing protocols DNAT, SNAT, and PAT Multicast routing Wide Area Networks (WANs) Wireless LANs Network optimization and QoS Windows and UNIX command-line tools for network administration and troubleshooting Network security Troubleshooting common Layer 2, Layer 3, and wireless networking issues CompTIA Network+ N10-006 Cert Guide contains proven study features that enable you to succeed on the exam the first time. Best-selling authors and expert instructors Keith Barker and Kevin Wallace share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills, essential for successful completion of the performance-based testing items on the exam. This complete, CompTIA-approved study package includes the following: A test-preparation routine proven to help you pass the exams approved by CompTIA Clearly defined chapter learning objectives covering all N10-006 exam topics Chapter-ending review questions and exam preparation 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 40 performance-based practice question exercises to help you prepare for the hands-on exam questions An 80% discount off the Premium Edition eBook and Practice Test (a \$40 value!) A free copy of the CompTIA Network+ Simulator Lite software, complete with meaningful lab exercises that help you hone your hands-on skills More than 60 minutes of video mentoring from the author A final preparation chapter that guides you through tools and resources to help you craft your review and test-taking strategies An Exam Essentials appendix that quickly recaps all major chapter topics for easy reference, both in print and interactive digital format A key terms Glossary in both print and on the DVD, which acts as an interactive flash-card application Study plan suggestions and templates to help you organize and optimize your study time A 10% exam discount voucher (a \$27 value!) Well regarded for its level o...

An Essential Guide to Understanding and Implementing IP Routing Protocols Cisco's authoritative single-source guide to IP routing protocols for enterprise and service provider environments Service providers and large enterprises are converging on a common IP infrastructure that supports rapid deployment of high-value services. Demand is soaring for highly skilled IP network engineers who can implement and run these infrastructures. Now, one source combines reliable knowledge about contemporary IP routing protocols and expert hands-on guidance for using them with Cisco IOS, IOS XE, and IOS XR operating systems. After concisely reviewing the basics, three Cisco experts fully explain static routing, EIGRP, OSPF, IS-IS, and BGP routing protocols. Next, they introduce advanced routing with policies and redistribution, sophisticated BGP-based traffic engineering, and multicast. They present comprehensive coverage of IPv6, from its multicast implementation to its completely revamped address structure. Finally, they discuss advanced high availability techniques, including fast routing convergence. IP Routing on Cisco IOS, IOS XE, and IOS XR presents each protocol conceptually, with intuitive illustrations, realistic configurations, and appropriate output. To help IOS users master IOS XE and IOS XR, differences in operating systems are explicitly identified, and side-by-side feature command references are presented. All content fully aligns with Learning@Cisco, providing efficient self-study for multiple Cisco Career Certifica-

tions, including CCNA®/CCNP®/CCIE® Service Provider, CCIE Routing & Switching, Cisco IOS XR Specialist Certification, and the routing components of several additional Cisco Certifications. Brad Edgeworth, CCIE No. 31574 (R&S & SP) has been with Cisco since 2011 as Systems Engineer and Technical Leader. Formerly a network architect and consultant for various Fortune® 500 companies, his 18 years of IT experience includes extensive architectural and operational work in enterprise and service provider environments. He is a Cisco Live distinguished speaker presenting on IOS XR. Aaron Foss, CCIE No. 18761 (R&S & SP), a High Touch Engineer with the Cisco Focused Technical Support (FTS) organization, works with large service providers to troubleshoot MPLS, QoS, and IP routing issues. He has more than 15 years of experience designing, deploying, and troubleshooting IP networks. Ramiro Garza Rios, CCIE No. 15469 (R&S, SP, and Security), Senior Network Consulting Engineer with Cisco Advanced Services, plans, designs, implements, and optimizes next-generation service provider networks. Before joining Cisco in 2005, he was Network Consulting and Presales Engineer for a Cisco Gold Partner in Mexico, where he planned and deployed both enterprise and service provider networks. Foreword by Norm Dunn, Senior Product Manager, Learning@Cisco Global Product Management, Service Provider Portfolio Understand how IOS®, IOS XE, and IOS XR operating systems compare Master IPv4 concepts, addressing structure, and subnetting Learn how routers and routing protocols work, and how connected networks and static routes behave from the router's perspective Work with EIGRP and distance vector routing Deploy basic and advanced OSPF, including powerful techniques for organizing routing domains, path selection, and optimization Compare IS-IS with OSPF, and implement advanced IS-IS multilevel routing, optimization, and path selection Make the most of BGP and route manipulation, including IOS/IOS XE route maps and IOS XR's highly scalable Route Policy Language Use advanced policy-based route manipulation and filtering Implement route redistribution: rules, potential problems, and solutions Leverage BGP communities, summaries, and other router conservation techniques Discover how IPv6 changes IP address and command structure Establish highly efficient multicast routing in IPv4 and IPv6 environments Systematically improve network availability and operational uptime through event driven detection and fast routing convergence

This is Cisco's authorized foundation learning tool for the new Implementing Cisco IP Telephony and Video, Part 1 (CIPTV1 300-070) exam, required for Cisco CCNP Collaboration certification. It brings together essential knowledge for implementing a Cisco Unified Collaboration solution in a single-site environment.

Expert solutions for securing network infrastructures and VPNs bull; 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 ac-

cess 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.

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