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N5F2QB - KARSYN LYNN

Design a complete Voice over IP (VoIP) or traditional PBX system with Asterisk, even if you have only basic telecommunications knowledge. This best-selling guide makes it easy, with a detailed roadmap that shows you how to install and configure this open source software, whether you're upgrading your existing phone system or starting from scratch. Ideal for Linux administrators, developers, and power users, this updated edition shows you how to write a basic dialplan step-by-step, and brings you up to speed on the features in

Asterisk 11, the latest long-term support release from Digium. You'll quickly gain working knowledge to build a simple yet inclusive system. Integrate Asterisk with analog, VoIP, and digital telephony systems Build an interactive dialplan, using best practices for more advanced features Delve into voicemail options, such as storing messages in a database Connect to external services including Google Talk, XMPP, and calendars Incorporate Asterisk features and functions into a relational database to facilitate information sharing Learn how to use Asterisk's security, call routing, and faxing features Monitor and control your

system with the Asterisk Manager Interface (AMI) Plan for expansion by learning tools for building distributed systems For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. Learn, prepare, and practice for exam success, master CCNA voice 640-461 exam topics, and assess your knowledge with chapter-opening

quizzes. Review key concepts with exam preparation tasks and practice with realistic exam questions on the CD-ROM.

Tips on making your call center a genuine profit center In North America, call centers are a \$13 billion business, employing 4 million people. For managers in charge of a call center operation, this practical, user-friendly guide outlines how to improve results measurably, following its principles of revenue generation, efficiency, and customer satisfaction. In addition, this new edition addresses many industry changes, such as the new technology that's transforming today's call center and the location-neutral call center. It also helps readers determine whether it's cost-efficient to outsource operations and looks at the changing role and requirements of agents. The ultimate call center guide, now revised and updated The authors have helped over 60 companies improve the efficiency and effectiveness of their call center operations Offers comprehensive guidance for call centers of all sizes, from 20-person operations to multinational businesses With the latest edition of Call Centers For Dummies, managers will have

an improved arsenal of techniques to boost their center's bottom line.

Calling all-- * telecom managers * datacom managers with voice responsibilities * Call Center managers * VoIP implementers * network integrators * product and service developers * industry analysts "Clear and precise analysis and discussion of PBX system design and capabilities. Allan Sulkin has a unique ability to explain complex systems in easily understandable terms." -- Joe Licata, President, Siemens Enterprise Networks "A welcome addition to the bookshelf for anyone interested in the evolving IP-PBX system. Voice and data communications managers alike will greatly benefit from this text." -- Michael Thurk, Avaya, Group Vice President - Systems "Allan Sulkin's solid expertise and critical insight has been a valuable resource for the telecommunications community for over 20 years. He is uniquely qualified to articulate the very complex subject of PBX and IP telephony." -- Kanji Suzuki, former EVP of NEC America and current president and CEO of NEC Infrontia, Inc. The most efficient (and economical) ways to bring enterprise communi-

cation systems into the Digital Age are in this guide, written by the foremost analyst in the market space. In PBX Systems for IP Telephony, Allan Sulkin--consultant and advisor to Avaya, Siemens, Cisco, NEC, Alcatel and other world-class companies--evaluates technologies, markets, and best practices for enterprise voice systems, messaging, and customer contact centers. The heart and brains of your communications network, the PBX (Private Branch Exchange) can be the vital link--or the missing link--that interfaces businesses and their customers. This guide, from the recognized expert in telephony systems, provides answers. Whether you need to IP-enable a PBX system for a small business, make complex choices for the advanced call center, or gain the expertise to integrate a variety of communication systems into a state-of-the-art foundation for your e-business vision, PBX Systems for IP Telephony should be your first choice. Here's why: * No one knows PBX systems and markets better than the author, and no one is better at explaining them * This comprehensive resource supplies nut-

s-and-bolts information on costs, performance, risks, and other real-world considerations difficult to research * You get insights into the potential strengths and weaknesses of next-generation PBX systems * You'll consult the consultant to the system designers for practical advice on systems that fit your needs and your future * There's no more business-aware or user-friendly guide anywhere to converging your voice systems with your IP-based data systems When it comes to the PBX, the question often seems to be "Who's job is it anyway?" With this guidebook, you'll be ready to take the responsibility--and get the credit. This newly revised edition of the ground-breaking Artech House bestseller, SIP: Understanding the Session Initiation Protocol gives you a thorough and up-to-date understanding of this revolutionary protocol for call signaling and IP Telephony. The second edition includes brand new discussions on the use of SIP for wireless multimedia communications. It explains how SIP is powerful "rendezvous" protocol that leverages mobility and presence to allow users to communicate using different devices,

modes, and services anywhere they are connected to the Internet You learn why SIP has been chosen by the 3GPP (3rd Generation Partnership Program for wireless cell phones) as the core signaling, presence, and instant messaging protocol.

Calls all - telecom managers; datacom managers with voice responsibilities; Call Center managers; VoIP implementers; network integrators; product and service developers; industry analysts. "Clear and precise analysis and discussion of PBX system design and capabilities. Allan Sulkin has a unique ability to explain complex systems in easily understandable terms."--Joe Licata, President, Siemens Enterprise Networks. "A welcome addition to the bookshelf for anyone interested in the evolving IP-PBX system. Voice and data communications managers alike will greatly benefit from this text."--Michael Thurk, Avaya, Group Vice President - Systems. "Allan Sulkin's solid expertise and critical insight has been a valuable resource for the telecommunications community for over 20 years. He is uniquely qualified to articulate the very complex subject of PBX and IP telephony." - Kanji Suzuki,

former EVP of NEC America and current president and CEO of NEC Infrontia, Incorporation. The most efficient (and economical) ways to bring enterprise communication systems into the Digital Age are in this guide, written by the foremost analyst in the market space.; In "PBX Systems for IP Telephony", Allan Sulkin - consultant and advisor to Avaya, Siemens, Cisco, NEC, Alcatel and other world-class companies - evaluates technologies, markets, and best practices for enterprise voice systems, messaging, and customer contact centers. The heart and brains of your communications network, the PBX (Private Branch Exchange) can be the vital link - or the missing link - that interfaces businesses and their customers. This guide, from the recognized expert in telephony systems, provides answers. Whether you need to IP-enable a PBX system for a small business, make complex choices for the advanced call center, or gain the expertise to integrate a variety of communication systems into a state-of-the-art foundation for your e-business vision, "PBX Systems for IP Telephony" should be your first choice. Here's why: no

one knows PBX systems and markets better than the author, and no one is better at explaining them. This comprehensive resource supplies nuts-and-bolts information on costs, performance, risks, and other real-world considerations difficult to research. You get insights into the potential strengths and weaknesses of next-generation PBX systems.; You'll consult the consultant to the system designers for practical advice on systems that fit your needs and your future. There's no more business-aware or user-friendly guide anywhere to converging your voice systems with your IP-based data systems. When it comes to the PBX, the question often seems to be "Who's job is it anyway?" With this guidebook, you'll be ready to take the responsibility - and get the credit.

Leading consultant Annabel Dodd presents easy-to-understand, insightful explanations of today's key trends and technologies: Industry Players and Trends, Broadband, VoIP, Wi-Fi and WiMax, 3G Mobile Networks, and Multimedia Networks. Previous editions have helped professionals worldwide understand the major changes transforming the

telecommunications industry. In the past four years, the telecommunications industry has undergone major changes. This is the complete guide to the new realities of telecommunications. The new edition reflects all of today's most critical issues, trends, and technologies. In addition to providing crucial insights into the fast-changing competitive landscape, Dodd provides important information about the structure of, and key players in, the industry.

The Perfect Reference for the Multitasked SysAdmin
This is the perfect guide if VoIP engineering is not your specialty. It is the perfect introduction to VoIP security, covering exploit tools and how they can be used against VoIP (Voice over IP) systems. It gives the basics of attack methodologies used against the SIP and H.323 protocols as well as VoIP network infrastructure. * **VoIP Isn't Just Another Data Protocol** IP telephony uses the Internet architecture, similar to any other data application. However, from a security administrator's point of view, VoIP is different. Understand why. * **What Functionality Is Gained, Degraded, or Enhanced on a VoIP Net-**

work? Find out the issues associated with quality of service, emergency 911 service, and the major benefits of VoIP. * **The Security Considerations of Voice Messaging** Learn about the types of security attacks you need to protect against within your voice messaging system. * **Understand the VoIP Communication Architectures** Understand what PSTN is and what it does as well as the H.323 protocol specification, and SIP Functions and features. * **The Support Protocols of VoIP Environments** Learn the services, features, and security implications of DNS, TFTP, HTTP, SNMP, DHCP, RSVP, SDP, and SKINNY. * **Securing the Whole VoIP Infrastructure** Learn about Denial-of-Service attacks, VoIP service disruption, call hijacking and interception, H.323-specific attacks, and SIP-specific attacks. * **Authorized Access Begins with Authentication** Learn the methods of verifying both the user identity and the device identity in order to secure a VoIP network. * **Understand Skype Security** Skype does not log a history like other VoIP solutions; understand the implications of conducting business over a Skype connection. * **Get the Basics**

of a VoIP Security Policy Use a sample VoIP Security Policy to understand the components of a complete policy. Provides system administrators with hundreds of tips, tricks, and scripts to complete administration tasks more quickly and efficiently Short on theory, history, and technical data that ultimately is not helpful in performing their jobs Avoid the time drains associated with securing VoIP Provides information on designing a VoIP or analog PBX using Asterisk, covering how to install, configure, and integrate the software into an existing phone system. 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 autho-

rized Cisco Learning Partners worldwide, please visit 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

Go under the hood of an operating Voice over IP network, and build your knowledge of the protocols and architectures used by this Internet telephony technology. With this concise guide, you'll learn about services involved in VoIP and get a first-hand view of network data packets from the time the phones boot through calls and subsequent connection tear-down. With packet captures available on the companion website, this book is ideal whether you're an instructor, student, or professional looking to boost your skill set. Each chapter includes a set of review questions,

as well as practical, hands-on lab exercises. Learn the requirements for deploying packetized voice and video Understand traditional telephony concepts, including local loop, tip and ring, and T carriers Explore the Session Initiation Protocol (SIP), VoIP's primary signaling protocol Learn the operations and fields for VoIP's standardized RTP and RTCP transport protocols Delve into voice and video codecs for converting analog data to digital format for transmission Get familiar with Communications Systems H.323, SIP's widely used predecessor Examine the Skinny Client Control Protocol used in Cisco VoIP phones in networks around the world

Telecom Management for Call Centers offers a practical guide to addressing the most common issues faced by telecom management in large call-centers. This handbook was written primarily for the telecom manager; the techniques described here are practical and easily applicable, focusing on the issues the telecom manager faces in his or her daily operational work. The lessons learned by the professionals in this growing field are not often documented and shared. This

guide provides documentation of this practical knowledge in a single volume, presented by telecom professionals Luiz Augusto de Carvalho and Olavo Alves Jr. It offers a general view of how telecom infrastructures in large call-centers should be planned, priced, negotiated and managed. It examines call-center operations and provides guidelines for • cost management; • traffic management; • call-center infrastructure; • transport networks; • GSM gateways deployment; • billing systems and auditing; • dialer deployment. Carvalho and Alves also explore how to do the necessary calculations, prepare and use traffic matrixes, and map and analyze call-center traffic, including relevant case studies for all issues. Put your call center on the path to success using the advice and methods offered in Telecom Management for Call Centers.

State-of-the-art SIP primer SIP (Session Initiation Protocol) is the open standard that will make IP telephony an irresistible force in communications, doing for converged services what http does for the Web. SIP Demystified - authored by Gonzalo Camarillo, one of the contribu-

tors to SIP development in the IETF—gives you the tools to keep your company and career competitive. This guide tells you why the standard is needed, what architectures it supports, and how it interacts with other protocols. As a bonus, you even get a context-setting background in data networking. Perfect if you're moving from switched voice into a data networking environment, here's everything you need to understand: * Where, why, and how SIP is used * What SIP can do and deliver * SIP's fit with other standards and systems * How to plan implementations of SIP-enabled services * How to size up and choose from available SIP products

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.

The physical linkages re-

sponsible for carrying a company's data continue to be the most neglected components of the typical network—to the extent that nearly 70% of all network-related problems result from poor cabling. In this third edition of a widely acclaimed resource, three networking experts share their extensive experience, teaching you the cabling skills you need to build a reliable, efficient, and cost-effective network cabling infrastructure. As you master these techniques, you'll learn to avoid common pitfalls and troubleshoot problems as quickly as they arise. Coverage includes: Choosing the right cables and components for your network architecture and topology Avoiding unnecessary and unexpected costs Understanding the current limitations of data communications and network cabling Understanding how laws and building codes constrain cabling Understanding the function and importance of universal cabling standards Determining when you have a cabling-related network problem Assembling a complete cabling toolkit Integrating voice and data on the same cable system Setting up an infrastructure in which desktops, printers, copiers, and

other nodes share cabling Understanding issues of bandwidth, impedance, resistance, attenuation, crosstalk, capacitance, propagation, delay, and delay skew Working effectively with USB and Firewire Knowing when to discard legacy cabling and begin anew Documenting your cabling Creating an RFP and selecting a vendor

Voice over Internet Protocol is gaining a lot of attention these days. Both practical and fun, this text provides technology enthusiasts and voice professionals with dozens of hands-on projects for building a VoIP network, including a softPBX.

CCNP and CCIE Collaboration Core CLCOR 350-801 Official Cert Guide presents you with an organized test preparation routine through the use of proven series elements and techniques. Do I Know This Already? quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. CCNP and CCIE Collaboration Core CLCOR

350-801 Official Cert Guide focuses specifically on the objectives for the Cisco CCNP/CCIE CLCOR 350-801 exam. Collaboration expert Jason Ball shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. 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 Practice exercises that help you enhance your knowledge More than 60 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 organise and optimise

your study time

More and more businesses today have their receive phone service through Internet instead of local phone company lines. Many businesses are also using their internal local and wide-area network infrastructure to replace legacy enterprise telephone networks. This migration to a single network carrying voice and data is called convergence, and it's revolutionizing the world of telecommunications by slashing costs and empowering users. The technology of families driving this convergence is called VoIP, or Voice over IP. VoIP has advanced Internet-based telephony to a viable solution, piquing the interest of companies small and large. The primary reason for migrating to VoIP is cost, as it equalizes the costs of long distance calls, local calls, and e-mails to fractions of a penny per use. But the real enterprise turn-on is how VoIP empowers businesses to mold and customize telecom and datacom solutions using a single, cohesive networking platform. These business drivers are so compelling that legacy telephony is going the way of the dinosaur, yielding to Voice over IP as the dominant enter-

prise communications paradigm. Developed from real-world experience by a senior developer, O'Reilly's *Switching to VoIP* provides solutions for the most common VoIP migration challenges. So if you're a network professional who is migrating from a traditional telephony system to a modern, feature-rich network, this book is a must-have. You'll discover the strengths and weaknesses of circuit-switched and packet-switched networks, how VoIP systems impact network infrastructure, as well as solutions for common challenges involved with IP voice migrations. Among the challenges discussed and projects presented: building a softPBX configuring IP phones ensuring quality of service scalability standards-compliance topological considerations coordinating a complete system ?switchover? migrating applications like voicemail and directory services retro-interfacing to traditional telephony supporting mobile users security and survivability dealing with the challenges of NAT To help you grasp the core principles at work, *Switching to VoIP* uses a combination of strategy and hands-on "how-to" that introduce VoIP

routers and media gateways, various makes of IP telephone equipment, legacy analog phones, IPTables and Linux firewalls, and the Asterisk open source PBX software by Digium. You'll learn how to build an IP-based or legacy-compatible phone system and voicemail system complete with e-mail integration while becoming familiar with VoIP protocols and devices. *Switching to VoIP* remains vendor-neutral and advocates standards, not brands. Some of the standards explored include: SIP H.323, SCCP, and IAX Voice codecs 802.3af Type of Service, IP precedence, DiffServ, and RSVP 802.1a/b/g WLAN If VoIP has your attention, like so many others, then *Switching to VoIP* will help you build your own system, install it, and begin making calls. It's the only thing left between you and a modern telecom network.

Asterisk Hacking provides details of techniques people may not be aware of. It teaches the secrets the bad guys already know about stealing personal information through the most common, seemingly innocuous, highway into computer networks: the phone system. This book provides details to readers what they can do to

protect themselves, their families, their clients, and their network from this invisible threat. Power tips show how to make the most out of the phone system for defense or attack. Contains original code to perform previously unthought of tasks like changing caller id, narrowing a phone number down to a specific geographic location, and more! See through the eyes of the attacker and learn WHY they are motivated, something not touched upon in most other titles.

“Annabel Dodd has cogently untangled the wires and switches and technobabble of the telecommunications revolution and explained how the introduction of the word ‘digital’ into our legislative and regulatory lexicon will affect consumers, companies and society into the next millennium.” – United States Senator Edward J. Markey of Massachusetts; Member, U.S. Senate Subcommittee on Communications, Technology, Innovation, and the Internet “Annabel Dodd has a unique knack for explaining complex technologies in understandable ways. This latest revision of her book covers the rapid changes in the fields of broadband, cellular,

and streaming technologies; newly developing 5G networks; and the constant changes happening in both wired and wireless networks. This book is a must-read for anyone who wants to understand the rapidly evolving world of telecommunications in the 21st century!” – David Mash, Retired Senior Vice President for Innovation, Strategy, and Technology, Berklee College of Music Completely updated for current trends and technologies, *The Essential Guide to Telecommunications*, Sixth Edition, is the world’s top-selling, accessible guide to the fast-changing global telecommunications industry. Writing in easy-to-understand language, Dodd demystifies today’s most significant technologies, standards, architectures, and trends. She introduces leading providers worldwide, explains where they fit in the marketplace, and reveals their key strategies. New topics covered in this edition include: LTE Advanced and 5G wireless, modern security threats and countermeasures, emerging applications, and breakthrough techniques for building more scalable, manageable networks. Gain a practical understanding of modern cellular, Wi-Fi, In-

ternet, cloud, and carrier technologies Discover how key technical, business, and regulatory innovations are changing the industry See how streaming video, social media, cloud computing, smartphones, and the Internet of Things are transforming networks Explore growing concerns about security and privacy, and review modern strategies for detecting and mitigating network breaches Learn how Software Defined Networks (SDN) and Network Function Virtualization (NFV) add intelligence to networks, enabling automation, flexible configurations, and advanced networks Preview cutting-edge, telecom-enabled applications and gear—from mobile payments to drones Whether you’re an aspiring network engineer looking for a broad understanding of the industry, or a salesperson, marketer, investor, or customer, this indispensable guide provides everything you need to know about telecommunications right now. This new edition is ideal for both self-study and classroom instruction. Register your product for convenient access to downloads, updates, and/or corrections as they become available. Cloud Computing: Imple-

mentation, Management, and Security provides an understanding of what cloud computing really means, explores how disruptive it may become in the future, and examines its advantages and disadvantages. It gives business executives the knowledge necessary to make informed, educated decisions regarding cloud initiatives. The authors first discuss the evolution of computing from a historical perspective, focusing primarily on advances that led to the development of cloud computing. They then survey some of the critical components that are necessary to make the cloud computing paradigm feasible. They also present various standards based on the use and implementation issues surrounding cloud computing and describe the infrastructure management that is maintained by cloud computing service providers. After addressing significant legal and philosophical issues, the book concludes with a hard look at successful cloud computing vendors. Helping to overcome the lack of understanding currently preventing even faster adoption of cloud computing, this book arms readers with guidance essential to make

smart, strategic decisions on cloud initiatives.

If you have the responsibility to design, upgrade and manage data networks to carry IP Telephony (voice, video and data); need help in evaluating competing IP-Centrex and IP-PBX systems; or need guidance in specifying the parameters for a service level agreement for IP-Centrex, this unique reference provides you with the knowledge you need to get the job done right. It enables you to more accurately estimate the time and resources needed to implement IP Telephony in your organization. The book describes the IP-Centrex option of having the telephone company take responsibility for the service delivery and offers the kind of information service providers need to improve marketing and sales campaigns for IP-Centrex services.

Get the most out of ACDs (automatic call distributors) and other complex systems in order to boost customer satisfaction and increase sales Includes three ready to use RFPs (request for proposals) for buying an ACD, computer telephony system, or recording

Provides information on Asterisk, an open source

telephony application.

"This book is like a good tour guide. It doesn't just describe the major attractions; you share in the history, spirit, language, and culture of the place." -- Henning Schulzrinne, Professor, Columbia University Since its birth in 1996, Session Initiation Protocol (SIP) has grown up. As a richer, much more robust technology, SIP today is fully capable of supporting the communication systems that power our twenty-first century work and life. This second edition handbook has been revamped to cover the newest standards, services, and products. You'll find the latest on SIP usage beyond VoIP, including Presence, instant messaging (IM), mobility, and emergency services, as well as peer-to-peer SIP applications, quality-of-service, and security issues--everything you need to build and deploy today's SIP services. This book will help you

- * Work with SIP in Presence and event-based communications
- * Handle SIP-based application-level mobility issues
- * Develop applications to facilitate communications access for users with disabilities
- * Set up Internet-based emergency services
- * Explore how peer-to-peer SIP systems

may change VoIP * Understand the critical importance of Internet transparency * Identify relevant standards and specifications * Handle potential quality-of-service and security problems

Skype for Business Unleashed This is the most comprehensive, realistic, and useful guide to Skype for Business Server 2015, Microsoft's most powerful unified communications system. Four leading Microsoft unified communications consultants share in-the-trenches guidance for planning, integration, migration, deployment, administration, and more. The authors thoroughly introduce Skype for Business 2015's components and capabilities, as well as changes and improvements associated with the integration of popular Skype consumer technologies. You'll find detailed coverage of IP voice, instant messaging, conferencing, and collaboration; and expert guidance on server roles, multi-platform clients, security, and troubleshooting. Reflecting their unsurpassed experience, the authors illuminate Microsoft's new cloud-based and hybrid cloud architectures for unified communications, showing how these impact networking, security,

and Active Directory. They cover SDN for unified communications; interoperation with consumer Skype and legacy video conferencing; quality optimization, mobile improvements, and much more. Throughout, the authors combine theory, step-by-step configuration instructions, and best practices from real enterprise environments. Simply put, you'll learn what works—and how it's done. Detailed Information on How To · Plan deployments, from simple to highly complex · Deploy Skype for Business Server 2015 as a cloud or cloud-hybrid solution · Walk step by step through installation or an in-place upgrade · Overcome "gotchas" in migrating from Lync Server 2010 or 2013 · Leverage new features available only in cloud or cloud-hybrid environments · Implement and manage Mac, mobile, Windows, browser, and virtualized clients · Establish server roles, including front end, edge, and mediation server · Make the most of Skype for Business Server 2015's enhanced mobile experience · Manage external dependencies: network requirements, dependent services, and security infrastructure · Efficiently administer Skype for Busi-

ness Server 2015 · Provide for high availability and disaster recovery · Integrate voice, telephony, and video, step by step · Avoid common mistakes, and discover expert solutions and workarounds
Category: Business Applications
Covers: Skype for Business User Level: Intermediate—Advanced

The IBM Lotus Sametime 8.5.2 Administration Guide uses a practical, no-nonsense approach to give you the essential information you need. Using realistic scenarios, you learn how to configure and maintain your environment to meet your needs and take advantage of the flexibility offered in Sametime 8.5.2. If you are responsible for installing and administering Sametime 8.5.2, then this book is for you. If you're completely new to Sametime administration, this book will serve as your roadmap. If you're making the jump from a prior version of Sametime, then you'll see how Sametime 8.5.2 differs and how you work with the new configuration. Even if you already have Sametime 8.5.2 up and running, this guide will answer those questions you may still have of why and how the various server components work.

Design a complete Voice over IP (VoIP) or traditional PBX system with Asterisk, even if you have only basic telecommunications knowledge. This best-selling guide makes it easy with a detailed roadmap that shows you how to install and configure this open source software, whether you're upgrading your existing phone system or starting from scratch. Ideal for Linux administrators, developers, and power users, this updated fifth edition shows you how to write a basic dialplan step-by-step and brings you up to speed on the features in Asterisk 16, the latest long-term support release from Digium. You'll quickly gain working knowledge to build a simple yet inclusive system. Integrate Asterisk with analog, VoIP, and digital telephony systems Build an interactive dialplan using best practices for more advanced features Delve into voicemail options such as storing messages in a database Connect to external services including Google Hangouts, XMPP, and calendars Incorporate Asterisk features and functions into a relational database to facilitate information sharing Learn how to use Asterisk's security, call routing, and faxing

features Monitor and control your system with the Asterisk Manager Interface (AMI)

Today's support operations face greater responsibilities than the help desks of the 1990s. That's because customers expect 24x7 assistance on whatever channel they choose - no matter what type of products and/or services they buy. The Complete Guide t

Securing VoIP: Keeping Your VoIP Network Safe will show you how to take the initiative to prevent hackers from recording and exploiting your company's secrets. Drawing upon years of practical experience and using numerous examples and case studies, technology guru Bud Bates discusses the business realities that necessitate VoIP system security and the threats to VoIP over both wire and wireless networks. He also provides essential guidance on how to conduct system security audits and how to integrate your existing IT security plan with your VoIP system and security plans, helping you prevent security breaches and eavesdropping. Explains the business case for securing VoIP Systems Presents hands-on tools that show how to defend a VoIP net-

work against attack. Provides detailed case studies and real world examples drawn from the authors' consulting practice. Discusses the pros and cons of implementing VoIP and why it may not be right for everyone. Covers the security policies and procedures that need to be in place to keep VoIP communications safe.

This book gathers chapters from some of the top international empirical software engineering researchers focusing on the practical knowledge necessary for conducting, reporting and using empirical methods in software engineering. Topics and features include guidance on how to design, conduct and report empirical studies. The volume also provides information across a range of techniques, methods and qualitative and quantitative issues to help build a toolkit applicable to the diverse software development contexts

Cisco Unified Contact Center Enterprise (UCCE) The complete guide to managing UCCE environments: tips, tricks, best practices, and lessons learned Cisco Unified Contact Center Enterprise (UCCE) integrates multiple components and can serve a wide spec-

trum of business requirements. In this book, Gary Ford, an experienced Cisco UCCE consultant brings together all the guidance you need to optimally configure and manage UCCE in any environment. The author shares in-depth insights covering both the enterprise and hosted versions of UCCE. He presents an administrator's view of how to perform key UCCE tasks and why they work as they do. He thoroughly addresses application configuration, agents, scripting, IVR, dial plans, UCM, error handling, reporting, metrics, and many other key topics. You'll find proven, standardized configuration examples that help eliminate errors and reduce downtime, step-by-step walkthroughs of several actual configurations, and thorough coverage of monitoring and troubleshooting UCCE systems. Cisco Unified Contact Center Enterprise (UCCE) is an indispensable resource to help you deploy and operate UCCE systems reliably and efficiently. · Understand the Cisco Unified Contact Center product portfolio and platform architecture · Choose the right single-site, multi-site, or clustered deployment model for your environment ·

Take a lifecycle services approach to UCCE deployment and application configuration--including preparation, planning, design, and implementation · Implement traditional, current-generation, and next-generation call routing · Master the latest best practices for call flow scripting · Understand UCCE's nodes and distributed processes and build a clean system startup sequence · Design, implement, and deliver unified CM/IP IVR solutions · Set up and efficiently manage UCCE databases · Make the most of UCCE's reporting tools · Create advanced applications with Data-Driven Routing · Effectively maintain any UCCE deployment, including older versions · Use a best-practice methodology for troubleshooting, and master valuable, little-known Cisco diagnostic tools 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. Authoritative, hands-on guidance for Skype Busi-

ness administrators Mastering Skype for Business 2015 gives administrators the comprehensive coverage they need to effectively utilize Skype for Business. Fully up to date for the 2015 release, this guide walks you through industry best practices for planning, design, configuration, deployment, and management with clear instruction and plenty of hands-on exercises. Case studies illustrate the real-world benefits of Unified Communication, and provide expert experiences working with Skype for Business. From server roles, infrastructure, topology, and security to telephony, cloud deployment, and troubleshooting, this guide provides the answers you need and the insight that will make your job easier. Sample automation scripts help streamline your workflow, and full, detailed coverage helps you exploit every capability Skype for Business has to offer. Skype for Business enables more robust video conferencing, and integrates with Office, Exchange, and SharePoint for better on-premises and cloud operations. Organizations are turning to Skype for Business as a viable PBX replacement, and admins need to be up

to speed and ready to go. This book provides the clear, explicit instructions you need to: Design, configure, and manage IM, voice mail, PBX, and VoIP Connect to Exchange and deploy Skype for Business in the cloud Manage UC clients and devices, remote access, federation, and public IM Automate management tasks, and implement cross-team backup-and-restore The 2015 version is the first Skype to take advantage of the Windows 10 'touch first' capabilities to provide fast, natural, hands-on control of communications, and users are eager

to run VoIP, HD video conferencing, collaboration, instant messaging, and other UC features on their mobile devices. Mastering Skype for Business 2015 helps you get Skype for Business up and running quickly, with hands-on guidance and expert insight. For an accessible and comprehensive survey of telecommunications and data communications technologies and services, consult the Telecommunications and Data Communications Handbook, which includes information on origins, evolution and meaningful contemporary applications. Find discussions of

technologies set in context, with details on fiber optics, cellular radio, digital carrier systems, TCP/IP, and the Internet. Explore topics like Voice over Internet Protocol (VoIP); 802.16 & WiMAX; Passive Optical Network (PON); 802.11g & Multiple Input Multiple Output (MIMO) in this easily accessible guide without the burden of technical jargon. For upper-level undergraduate and graduate level MIS courses. This MIS text gives students and active managers a thorough and practical guide to IT management practices and issues."