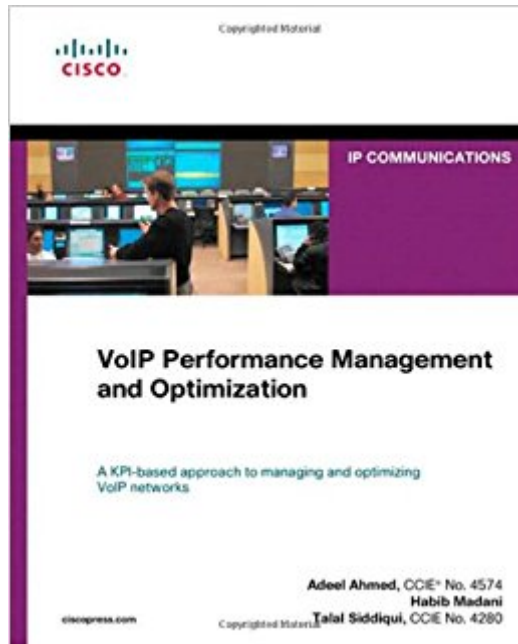The book was found

VoIP Performance Management And Optimization (Networking Technology: IP Communications)

Synopsis

VoIP Performance Management and Optimization A KPI-based approach to managing and optimizing VoIP networks Â IP Communications Â Adeel Ahmed, CCIEÂ® No. 4574 Habib Madani Talal Siddiqui, CCIE No. 4280 Â   VoIP Performance Management and Optimization is the first comprehensive, expert guide to managing, monitoring, troubleshooting, and optimizing large VoIP networks. Three leading Cisco VoIP experts bring together state-of-the-art techniques for ensuring that customer service level agreements (SLA) are consistently met or exceeded. Â The authors begin by reviewing how VoIP is deployed in enterprise and service provider networks and the performance tradeoffs and challenges associated with each leading VoIP deployment model. Next, they present a comprehensive approach to diagnosing problems in VoIP networks using key performance indicators (KPI) and proactively addressing issues before they impact service. Â In this book, you will find a proven tools-based strategy for gauging VoIP network health and maximizing performance and voice quality. You also will learn how to perform trend analysis and use the results for capacity planning and traffic engineeringâ "thereby optimizing your networks for both the short- and long-term. Â The authors all work in the Cisco Advanced Services Group. Â Deploy, manage, monitor, and scale multivendor VoIP networks more effectively Integrate performance data from multiple VoIP network segments and service flows to effectively manage SLAs Use performance counters, call detail records, and call agent trace logs to gauge network health in real time Utilize dashboards to analyze and correlate VoIP metrics, analyze trends, and plan capacity Implement a layered approach to quickly isolate and troubleshoot both localized and systemic problems in VoIP networks Optimize performance in networks where the service provider owns the â œlast mileâ • connection Improve performance when VoIP is deployed over publicly shared infrastructure Manage performance in enterprise networks using both centralized and distributed call processing Plan media deployment for the best possible network performance Monitor trends, establish baselines, optimize existing resources, and identify emerging problems Understand and address common voice quality issues Â   This IP communications book is part of the Cisco PressÂ® 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. Â Category: Networking: Unified Communications Covers: Voice over IP Network Management Â

Book Information

Series: Networking Technology: IP Communications

Hardcover: 448 pages

Publisher: Cisco Press; 1 edition (August 8, 2010)

Language: English

ISBN-10: 1587055287

ISBN-13: 978-1587055287

Product Dimensions: 7.8 x 1.1 x 9.5 inches

Shipping Weight: 2 pounds

Average Customer Review: 3.5 out of 5 stars See all reviews (2 customer reviews)

Best Sellers Rank: #2,555,016 in Books (See Top 100 in Books)   #97 in Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Performance Optimization #1651 in Books > Computers & Technology > Networking & Cloud Computing > Data in the Enterprise #1685 in Books > Computers & Technology > Networking & Cloud Computing > Networks, Protocols & APIs > Networks

Customer Reviews

If you know anything about the Internet Protocol, then meeting VoIP for the first time can be a surprise. While laypersons might complain about low VoIP sound quality, the very fact that you can often still carry on a conversation in real time using it is quite impressive, given the unreliable underlying IP.But as VoIP has become popular, expectations have rise and thus the need for comprehensive metrics of performance. Leading to KPI, which the book explains in detail. It is a set of metrics for which software exists that measure it in real time (or as close to it as possible) and then to display results in some visually clear manner for the sysop. The visuals let the sysop's wetware (ie. brain) see if outages exist, or if some quality metric is decreasing. To some extent these can be subjective performance issues if there is no outright network failure.A key idea is for proactive monitoring, where the sysop in a Network Operations Centre can use a fault management system for diagnosis. The text discusses how to do fault isolation, especially in the common case where your network has several switches, gateways and subnets. For a sysop, the examples in chapters 7 and 8 may be the most valuable portions of the text, as they deal with those sometime difficult scenarios. You can use the examples to guide how you might reduce down your network problems to a given piece of equipment or subnet.In some respects, the diagnosis for VoIP problems is harder than for generic IP traffic, or indeed for streaming video. Bottleneck problems in the latter are less jarring than having a VoIP conversation repeatedly "time out" and the different KPI metrics explore various dimensions of possible problems.You can also see that Cisco offers a

sophisticated VoIP dashboard and associated debugging facilities, as evidenced by Appendices C and D.

-- which would be the treatment of QoS, in all its forms, considerations, and manifold verbiage within the Cisco universe.The chapter on QoS is a rehash of what you've likely read in rehashed form from numerous other rehashing sources...which is great, if you've never read any of the other rehashings...or if you have an irrational hankering for the same old same old.Someday, someone is going to write a comprehensive guide to all the quantum minutiae of QoS, from a primarily Cisco perspective.That someone will rule the world.Other than this one complaint, the book is a good one-source go-to reference on the topic.

VoIP Performance Management and Optimization (paperback) (Networking Technology: IP Communications) VoIP Performance Management and Optimization (Networking Technology: IP Communications) Wireless and Mobile Networking: IFIP Joint Conference on Mobile Wireless Communications Networks (MWCN'2008) and Personal Wireless Communications ... in Information and Communication Technology) Hybrid Particle Swarm Algorithm for Multiobjective Optimization: Integrating Particle Swarm Optimization with Genetic Algorithms for Multiobjective Optimization Network Performance and Optimization Guide: The Essential Network Performance Guide For CCNA, CCNP and CCIE Engineers (Design Series) Error-Correction Coding for Digital Communications (Applications of Communications Theory) Data Communications and Networking Fundamentals Using Novell Netware Release 3.11 Data Communications & Networking Using Novell Netware 4.11 Computer Networking from LANs to WANs: Hardware, Software and Security (Networking) NETWORKING: Networking for Beginners WordPress: A Beginner to Intermediate Guide on Successful Blogging and Search Engine Optimization. (Blogging, SEO, Search Engine Optimization, Free Website, WordPress, WordPress for Dummies) Seo 2017: Search Engine Optimization for 2017. On Page SEO, Off Page SEO, Keywords (SEO Books, Search Engine Optimization 2016) SEO 2017: Search Engine Optimization for 2017. On Page SEO, Off Page SEO, Keywords (SEO Books, Search Engine Optimization 2017) SEO+Clickbank (Search Engine Optimization 2016): Use The Power of Search Engine Optimization 2016+ Clickbank Pro Java EE 5 Performance Management and Optimization Blockchain: The Comprehensive Guide to Mastering the Hidden Economy: (Blockchain Technology, Fintech, Financial Technology, Smart Contracts, Internet Technology) Mobile Marketing: How Mobile Technology is Revolutionizing Marketing, Communications and Advertising IBM Z/Os V2r1 Communications Server Tcp/Ip Implementation:

High Availability, Scalability, and Performance Guide to TCP/IP (Networking (Course Technology)) 4th (fourth) Edition by Carrell, Jeffrey L., Chappell, Laura, Tittel, Ed, Pyles, Jam [2012] Virtual Machines Companion (Networking (Course Technology))