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Ip Multicast With Applications To

After an introduction that gets readers up to speed on the basics, IP Multicast with Applications to IPTV and Mobile DVB-H: Discusses multicast addressing for payload and payload forwarding Covers routing in a variety of protocols, including PIM-SM, CBT, PIM-DM, DVMRP, and MOSPF Discusses multicasting in IPv6 environments and Multicast Listener Discovery (MLD) Features examples of IP Multicast applications in the IPTV and mobile DVB-H environments Includes reference RFCs and protocols placed ...

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IP Multicast with Applications to IPTV and Mobile DVB-H ...  
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Get a clear picture of IP Multicast applications for delivering commercial high-quality video services

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IP multicast with applications to IPTV and mobile DVB-H. This book provides a concise guide to current IP Multicast technology and its applications, with a focus on IP-based Television (IPTV) and Digital Video Broadcast-Handheld (DVB-H) applications—areas of tremendous commercial interest. Traditional phone companies can use IP Multicast technology to deliver video services over their networks; cell phone companies can use it to stream video to handheld phones and PDAs; and many cable TV ...

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IP multicast with applications to IPTV and mobile DVB-H ...

IP multicast is a method of sending Internet Protocol datagrams to a group of interested receivers in a single transmission. It is the IP-specific form of multicast and is used for streaming media and other network applications. It uses specially reserved multicast address blocks in IPv4 and IPv6. Protocols associated with IP multicast include Internet Group Management Protocol, Protocol Independent Multicast and Multicast VLAN Registration. IGMP snooping is used to manage IP multicast traffic o

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IP multicast - Wikipedia

Next Previous Contents. 5. Multicast applications. Most people dealing with multicast, sooner or later decide to connect to the MBone, and then they usually need an mrouter. You'll also need it if you don't have a multicast-capable router and you want multicast traffic generated in one of your subnets to be "heard" on another. mrouter does circumvent the problem of sending multicast traffic across unicast routers -it encapsulates multicast datagrams into unicast ones (IP into IP)- but this ...

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Multicast over TCP/IP HOWTO: Multicast applications. IP Multicast with Applications to IPTV and Mobile DVB-H: Minoli, Daniel: Amazon.sg: Books. Skip to main content.sg. All Hello, Sign in. Account & Lists Account Returns & Orders. Try. Prime. Cart Hello ...

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In the ISM service, applications must acquire a unique IP  
multicast group address because traffic distribution is based  
only on the IP multicast group address used. If two  
applications with different sources and receivers use the  
same IP multicast group address, then receivers of both  
applications will receive traffic from the senders of both  
applications.

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Get a clear picture of IP Multicast applications for delivering commercial high-quality video services This book provides a concise guide to current IP Multicast technology and its applications, with a focus on IP-based Television (IPTV) and Digital Video Broadcast-Handheld (DVB-H)

applications—areas of tremendous commercial interest.

Traditional phone companies can use IP Multicast technology to deliver video services over their networks; cell phone companies can use it to stream video to handheld phones and PDAs; and many cable TV companies are considering upgrading to IP technology. In addition to applications in industries seeking to provide high-quality digital video and audio, there are numerous other practical uses: multi-site corporate videoconferencing; broad distribution of financial data, stock quotes, and news bulletins; database replication; software distribution; and content caching (for example, Web site caching). After an introduction that gets readers up to speed on the basics, IP Multicast with Applications to IPTV and Mobile DVB-H: Discusses multicast addressing for payload and payload forwarding Covers routing in a variety of protocols, including PIM-SM, CBT, PIM-DM, DVMRP, and MOSPF Discusses multicasting in IPv6 environments and Multicast Listener Discovery (MLD) Features examples of IP Multicast applications in the IPTV and mobile DVB-H environments Includes reference RFCs and protocols placed in the proper context of a commercial-grade infrastructure for the delivery of robust, entertainment-quality linear and nonlinear video programming This is a concise, compact reference for practitioners who seek a quick, practical review of the topic with an emphasis on the major and most often used aspects of the technology. It serves as a hands-on resource for engineers in the communications industry or

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Internet design, content providers, and researchers. It's also an excellent text for college courses on IP Multicast and/or IPTV.

IP multicasting is an emerging technology that gives you considerable cost and bandwidth savings - as it paves the way for the broadcasting of voice, video, and data over the Internet and corporate Intranets, without depleting network resources. IP Multicasting: Concepts and Applications goes far beyond an overview of what this technology is. It explains how it works inside real networks, reviews all the major products available today, and tells you what to look for when purchasing and upgrading network equipment and software. Ideal for systems managers, network administrators, systems integrators, Internet managers, and even Chief Information Officers implementing or planning to implement IP multicasting, IP Multicasting: Concepts and Application provides the technical foundation for understanding IP and broadcasting over IP networks; explains how IP multicasting works in a variety of environments, including frame relay, Layer 3 Switched, and satellite networks; and includes a complete resource directory, giving you one-stop access to reliable standards-based information, plus a comprehensive list of acronyms and a glossary.

The definitive guide to designing and deploying Cisco IP multicast networks Clear explanations of the concepts and underlying mechanisms of IP multicasting, from the fundamentals to advanced design techniques Concepts and techniques are reinforced through real-world network examples, each clearly illustrated in a step-by-step manner with detailed drawings Detailed coverage of PIM State Rules that govern Cisco router behavior In-depth information on IP multicast addressing, distribution trees, and multicast routing

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protocols Discussions of the common multimedia applications and how to deploy them Developing IP Multicast Networks, Volume I, covers an area of networking that is rapidly being deployed in many enterprise and service provider networks to support applications such as audio and videoconferencing, distance learning, and data replication. The concepts used in IP multicasting are unlike any other network protocol, making this book a critical tool for networking professionals who are implementing this technology. This book provides a solid foundation of basic IP multicast concepts, as well as the information needed to actually design and deploy IP multicast networks. Using examples of common network topologies, author Beau Williamson discusses the issues that network engineers face when trying to manage traffic flow. Developing IP Multicast Networks, Volume I, includes an in-depth discussion of the PIM protocol used in Cisco routers and detailed coverage of the rules that control the creation and maintenance of Cisco mroute state entries. The result is a comprehensive guide to the development and deployment of IP multicast networks using Cisco routers and switches.

"Provides detailed information on existing Multicast and MVPN standards, referred to as Next-Generation Multicast based standards, Multicast Applications, and case studies with detailed configurations"--Provided by publisher.

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IP Multicast Volume I: Cisco IP Multicast Networking Design, deploy, and operate modern Cisco IP multicast networks IP Multicast, Volume I thoroughly covers basic IP multicast principles and routing techniques for building and operating enterprise and service provider networks to support applications ranging from videoconferencing to data replication. After briefly reviewing data communication in IP networks, the authors thoroughly explain network access, Layer 2 and Layer 3 multicast, and protocol independent multicast (PIM). Building on these essentials, they introduce multicast scoping, explain IPv6 multicast, and offer practical guidance for IP multicast design, operation, and troubleshooting. Key concepts and techniques are illuminated through real-world network examples and detailed diagrams. Reflecting extensive experience working with Cisco customers, the authors offer pragmatic discussions of common features, design approaches, deployment models, and field practices. You'll find everything from specific commands to start-to-finish methodologies: all you need to deliver and optimize any IP multicast solution. IP Multicast, Volume I is a valuable resource for network engineers, architects, operations technicians, consultants, security professionals, and collaboration specialists. Network

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managers and administrators will find the implementation case study and feature explanations especially useful. · Review IP multicasting applications and what makes multicast unique · Understand IP multicast at the access layer, from layered encapsulation to switching multicast frames · Work with Layer 2 switching domains, IPv4 group addresses, and MAC address maps · Utilize Layer 3 multicast hosts and understand each PIM mode · Implement basic forwarding trees and rendezvous points · Compare multicast forwarding modes: ASM, SSM, and PIM Bidir · Plan and properly scope basic multicast networks · Choose your best approach to forwarding replication · Apply best practices for security and resiliency · Understand unique IPv6 deployment issues · Efficiently administer and troubleshoot your IP multicast network This book is part of the Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers. Category: Networking Covers: IP Multicast

A tutorial and complete description of the core concepts and real-world applications of IP multicast, one of the most effective solutions alleviating network congestion. The author, one of the key technologists in multicasting, describes a series of multicast applications and shows how they can be used to improve business processes and information dispersal without causing network infrastructure overload.

All readers need to know to deploy IP Multicasting now--and optimize it tomorrow--is found within these pages. This is one of the first books to closely examine the protocols which make Multicasting possible--and the thorny routing issues that arise in enterprise Multicasting.

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This guide to multicasting routing explains the complexities of this growing technology. It provides an overview of the current state of development, analyzes its relevant protocols, and shows how they work together. Real-world examples illustrate key concepts. Specific topics include: PIM-SM and MSDP, Any-Source and Source-Specific delivery models, building dedicated multicast environments, and IGMP and its various versions. A glossary defines key terms and important acronyms. The authors are engineers and technical writers. Annotation copyrighted by Book News, Inc., Portland, OR

The Internet is quickly becoming the backbone for the worldwide information society of the future. Point-to-point communication dominates the network today, however, group communication--using multicast technology--will rapidly gain importance as digital, audio, and video transmission, push technology for the Web, and distribution of software updates to millions of end users become ubiquitous. Multicast Communication: Protocols and Applications explains how and why multicast technology is the key to this transition. This book provides network engineers, designers, and administrators with the underlying concepts as well as a complete and detailed description of the protocols and algorithms that comprise multicast. \* Presents information on the entire range of multicast protocols, including, PIM-SM, MFTP, and PGM and explains their mechanisms, trade-offs, and solid approaches to their implementation \* Provides an in-depth examination of Quality of Service concepts, including: RSVP, ST2, IntServ, and DiffServ \* Discusses group address allocation and scoping \* Discusses multicast implementation in ATM networks \* Builds a solid understanding of the Mbone and surveys the successes and current limitations of real multicast applications on the Internet such as

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videoconferencing, whiteboards, and distance learning

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