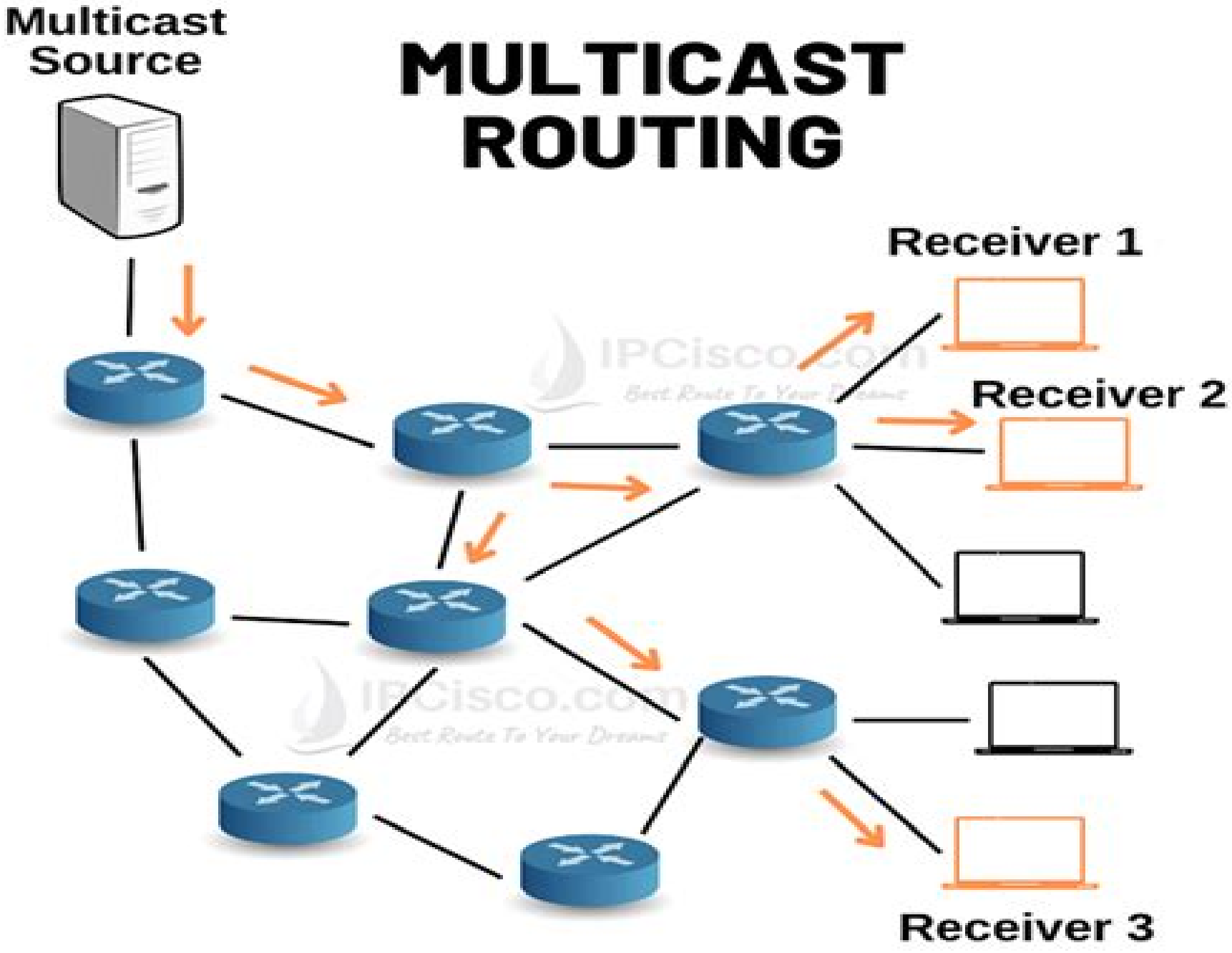
MULTICAST ROUTING



Multicast Networking And Applications

C. Kenneth Miller

Multicast Networking And Applications:

Multicast Networking and Applications C. Kenneth Miller,1999 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

Developing IP Multicast Networks Beau Williamson,2000 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 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 **IP Multicast** Josh Loveless,Raymond Blair,Arvind Durai,2016-09-30 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 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 *Managing Next Generation Networks and Services* Shingo Ata,Choong Seon Hong,2007-09-18 This book constitutes the refereed proceedings of the 9th Asia Pacific Network Operations and Management Symposium APNOMS 2007 held in Sapporo Japan October 2007 The 48 revised full papers and 30 revised short papers cover management of distributed networks network configuration and planning network security management sensor and ad hoc networks network monitoring routing and traffic engineering management of wireless networks and security on wireless networks **IP Multicasting** David R. Kosiur,1998-05-05 Your best source for powering up your network with IP multicast applications Videoconferencing video broadcasting collaborative applications push technologies these and other new wave networking applications are changing the way business is done And it s your job to make sure that your company s network is equipped to handle them This comprehensive guide gets you quickly up to speed on all technical aspects of IP multicasting the key to delivering high performance multimedia applications In IP Multicasting author Dave Kosiur clearly describes the differences between unicasting and multicasting how multicasting works and how it can be used to deliver the new generation of business applications He explains the protocols and systems associated with multicasting tells you how to prepare your network for multicasting and what to look for when buying and upgrading network infrastructure equipment and software to ensure optimal performance He also arms you with Proven implementation strategies Everything you need to know about routing for IP multicasting All about RTP RTCP RTSP and other transport protocols Expert guidance on integrated network services and QoS Critical reviews of the latest multicasting software and applications IP Multicasting is your best source for the technical know how you need to provide your users with the sophisticated networking capabilities they demand Visit our website at www wiley com compbooks Visit this book s companion website at www wiley com compbooks kosiur Proceedings of the 11th International Workshop on Network and Operating Systems Support for Digital Audio and Video ,2001 **The Handbook of Computer Networks, Distributed Networks, Network Planning, Control, Management, and New Trends and Applications** Hossein

Bidgoli,2008 The Handbook of Computer Networks is the third set of reference books from leading author and Professor of Management Information Systems at California State University Bakersfield Hossein Bidgoli The Handbook of Computer Networks is designed to arm researchers practitioners students and managers with in depth understanding of this important and fast growing field in its broadest scope and in an applied and functional framework Each volume incorporates state of the art core information and networking topics practical applications and coverage of the emerging issues in the computer networking and data communications fields *Multicasting on the Internet and its Applications* Sanjoy Paul,2012-12-06 IP Multicast 29 4 29 4 1 Reverse Path Forwarding 4 2 Internet Group Management Protocol 31 Truncated Broadcasting 32 4 3 4 4 Distance Vector Multicast Routing Protocol DVMRP 34 4 5 Summary 35 5 Multicast Extensions to Open Shortest Path First MO SPF 39 5 1 High level Description 39 Architecture 40 5 2 5 2 1 Design Goals 41 Protocol Data Structures 41 5 2 2 5 3 Protocol 44 52 5 4 Summary 6 Protocol Independent Multicast PIM 53 6 1 High Level Description 53 54 6 2 Architecture 6 2 1 Design Goals 54 6 2 2 Components and Functions 55 6 3 Protocol 57 6 3 1 Creating the PIM framework 58 6 3 2 Creating a specific multicast tree for a group 59 6 3 3 Multicast data forwarding 64 6 3 4 Operation in a multi access network 65 6 3 5 List of PIM messages 68 6 3 6 A complete example 69 6 4 Summary 69 7 Core Based Tree CBT 73 7 1 High level Description 73 7 2 Architecture 74 7 2 1 Design Goals *Proceedings* ,2001 Video Processing and Communications Yao Wang,Jörn Ostermann,Ya-Qin Zhang,2002 Useful as a reference work this book offers a good balance between theoretical concepts and practical solutions with more rigorous formulation of certain problems such as motion estimation sampling basic coding theory Provides an in depth exposition of fundamental theory and techniques for video processing including frequency domain characterization of video signals and visual perception video sampling and format conversion two dimensional and three dimensional motion estimation Also presents techniques important for video communications including video coding and error control and up to date coverage on recent international standards on video communications A chapter is devoted to video streaming over Internet and wireless networks one of the most popular video communication applications In addition it discusses processing and communications of stereoscopic and multiview video Practicing researchers and engineers Proceedings of the ... International Workshop on Network and Operating Systems Support for Digital Audio and Video ,2003 **Information Security and Cryptology - ICISC'99** JooSeok Song,2006-12-31 This book constitutes the thoroughly refereed post proceedings of the Second International Conference on Information Security and Cryptology ICISC 99 held in Seoul Korea in December 1999 The 20 revised full papers presented together with an invited paper were carefully reviewed and selected from a total of 61 submissions The book is divided into topical sections on cryptoanalysis and cryptographic design cryptographic theory and computation complexity cryptographic protocols and authentication design digital signatures and secret sharing and electronic cash applications and implementation *Large-Scale Scientific Computing* Ivan Lirkov,Svetozar D. Margenov,Jerzy Wasniewski,2006-02-15 This book constitutes the thoroughly refereed post

proceedings of the 5th International Conference on Large Scale Scientific Computations LSSC 2005 held in Sozopol Bulgaria in June 2005 The 75 revised full papers presented together with five invited papers were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections **Multimedia Systems and Applications** ,2004 *Handbook of Communications Systems Management* ,1999 *IP Multicast* Josh Loveless,Ray Blair,Arvind Durai,2016-10-12 This volume thoroughly covers basic IP multicast principles and routing techniques specific to modern Cisco routing and switching environments Thorough and fully up to date it offers pragmatic discussions of common features design approaches deployment models and field practices for any contemporary IP multicast network and application **Eighth IEEE International Symposium on Distributed Simulation and Real-Time Applications** Stephen J. Turner,2004 *Communications (ICC 2000)* IEEE, Communications Society Staff,IEEE Communications Society,2000 ICOIN the 15th ,2001 IEEE Computer Society Order Number PR00951 Verso of t p **Encyclopedia of Internet Technologies and Applications** Mário Marques Freire,Manuela Periera,2008 This book is the single source for information on the world s greatest network and provides a wealth of information for the average Internet consumer as well as for experts in the field of networking and Internet technologies It provides the most thorough examination of Internet technologies and applications for researchers in a variety of related fields Provided by publisher

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