MPLS [Next Steps

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Monografía

SHORT DESCRIPTION:Multiprotocol Label Switching (MPLS) is a data plane and control technology that is used in packet (that is Internet Protocol) networks. Now over ten years old, it has taken root firmly as a fundamental tool in many service provider networks. The last ten years have seen a considerable consolidation of MPLS techniques and protocols. This has resulted in the abandoning of some of the original features of MPLS, and the development of other new features. MPLS has moved from a prospective solution, to a grown-up technology. Now that MPLS has reached this level of maturity

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Mención de serie: The Morgan Kaufmann series in networking

Nota general: Description based upon print version of record

Contenido: Front Cover; MPLS: Next Steps; Copyright Page; Contents; About the Editors; About the Authors; CHAPTER 1 Introduction; 1.1 Source Material; 1.2 Contents of this Book; SECTION A: MPLS BASICS; CHAPTER 2 Overview of the MPLS Data Plane; 2.1 Network Layer Routing Functional Components: Control and Forwarding; 2.2 Label Switching: The Forwarding Component; 2.3 Label Switching: The Control Component; 2.4 Edge Devices; 2.5 Relationship between Label Switching and Network Layer Addressing and Routing; CHAPTER 3 Overview of MPLS Protocols; 3.1 Foundations of MPLS Protocols 3.2 Label Distribution Protocol (LDP)3.3 Traffic Engineering in MPLS; 3.4 Prioritizing Traffic in MPLS; CHAPTER 4 From MPLS to GMPLS; 4.1 The Origins of GMPLS; 4.2 Basic GMPLS Requirements; SECTION B: ADVANCED TECHNIQUES; CHAPTER 5 Traffic Engineering; 5.1 What Is IP Traffic Engineering?; 5.2 Routing IP Flows; 5.3 Choosing Offline or Dynamic Traffic Engineering; 5.4 Choosing to Use Traffic Engineering; 5.5 Traffic Engineering in MPLS; 5.6 GMPLS and Traffic Engineering; 5.7 GMPLS Traffic Engineering Definitions; 5.8 GMPLS Traffic Engineering Protocols; 5.9 Traffic Engineering Link Bundling 5.10 Traffic Engineering Regions and Switching Layers5.11 Inter-Domain Traffic Engineering; 5.12 Service Path Re-Optimization; CHAPTER 6 Providing Quality of Service; 6.1 What is

Quality of Service?; 6.2 MPLS Traffic Engineering for QoS; 6.3 Traffic Engineering and QoS Optimization of MPLS-Based Integrated Voice/Data Dynamic Routing Networks; 6.4 Class-of-Service Routing; 6.5 Dynamic Bandwidth Allocation, Protection and Reservation Principles; 6.6 Queuing Mechanisms; 6.7 Internet QoS Resource Management; 6.8 Summary and Conclusions; 6.9 Applicability of Requirements CHAPTER 7 MPLS Traffic Engineering Recovery Mechanisms7.1 MPLS Traffic Engineering Terminology; 7.2 Analysis of the Recovery Cycle; 7.3 MPLS Traffic Engineering Global Default Restoration; 7.4 MPLS Traffic Engineering Global Path Protection; 7.5 MPLS Traffic Engineering Local Protection; 7.6 Another MPLS Traffic Engineering Recovery Alternative; 7.7 Comparison of Global and Local Protection; 7.8 Revertive versus Nonrevertive Modes; 7.9 Failure Profile and Fault Detection; 7.10 Standardization; 7.11 Summary; 7.12 RSVP Signaling Extensions for MPLS TE Local Protection 7.13 Backup Path ComputationCHAPTER 8 GMPLS and Service Recovery; 8.1 Failures in Transport Networks; 8.2 Network Survivability Definitions; 8.3 Service Recovery Cycle; 8.4 Service Recovery Classes; 8.5 Recovery Levels and Scopes; 8.6 Span Recovery; 8.7 Path Recovery; 8.8 Control Plane Recovery; SECTION 9.7 MIB Extensions for Advanced MPLS-TE Function and GMPLS

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