3. MP-iBGP is responsible for the exchange of VPN routes between the PE routers. PE1 advertises the VPNv4 route to PE2 using MP-iBGP and Next-Hop itself. VPN-specific information is carried in MP-BGP attributes (VPNv4 prefix, VPN label, RT).
4. VRF vpn_a at PE2 imports the route, since the local import RT matches the RT in the route. The IPv4 route is inserted in its routing table, with PE1 as next hop. The VPN Label (L_2) is also recorded.
5. VRF vpn_a at PE2 advertises the IPv4 route to router CE2A using an IGP (RIPv2). This completes the distribution of the route to 172.16.1.0/24. (Site 1 of VPN A).

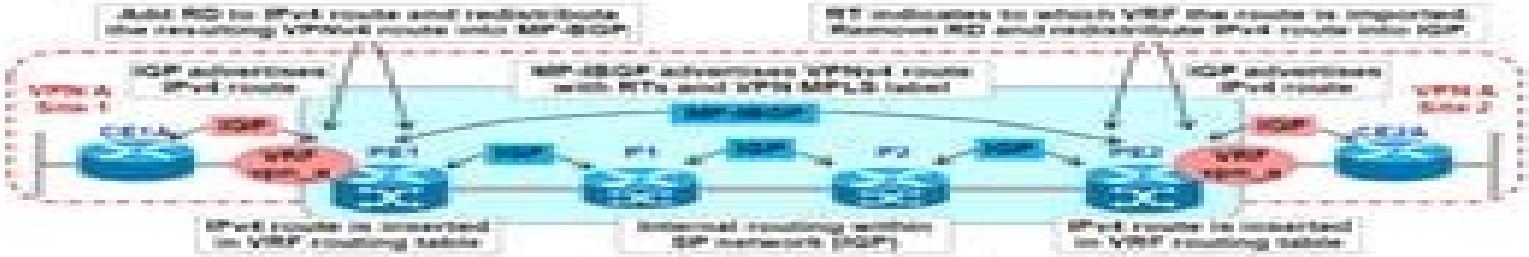

Figure 3. End-to-end route propagation.

Observe that the VPN routes are processed only by the PE routers. The other routers in the SP network need not know anything about VPN addresses and routes. In particular, the IGP running within the SP network is not involved in VPN route propagation (it supports the VPN only by providing internal routes needed to set up LSPs between PE routers). We use RIPv2 in the SP network.

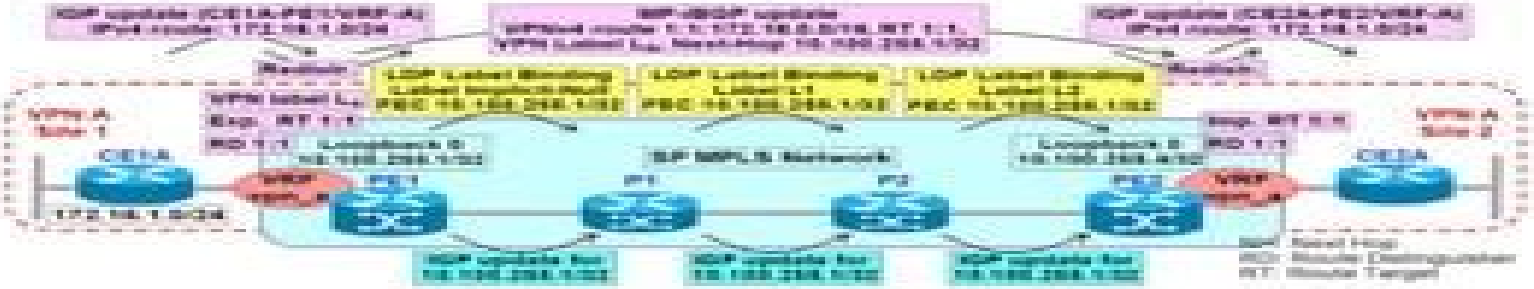

Figure 4. Control plane: Route and label propagation.

Data plane operation

Figure 5 shows the packet forwarding for VPN A, from Site 1 to Site 2, after the final configuration of the MPLS-based VPNs. The MPLS packets carry a label stack consisting of two labels:

- The top label (L_1, L_2) corresponds to the LSP between PE1 and PE2 set up automatically by LDP.
- The bottom label (L_2) is the VPN label assigned to the VPN by the egress router (in this example, the label assigned to VPN A by PE2). This label allows the egress router to demultiplex the packet flow received on the LSP, identifying the packets belonging to each VPN.

Figure 5 shows that P1 pops the top label, instead of PE1. This procedure is called penultimate hop popping (PHP), i.e., an LDP label is removed by the penultimate router, rather than the last router, and was requested by PE1 during label distribution (Implicit-Null label). This avoids an unnecessary label lookup at PE1, and it is the default behavior of Cisco routers.

Managing Dynamic Automated Communities With Mpls Based Vpns Book

Dongli Zhang

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Dissertation Abstracts International ,2004 **MPLS-based VPNs** Peter Tomsu,Gerhard Wieser,2002 This guide for network engineers describe the design deployment and management of Multiprotocol Label Switching MPLS The book explains how MPLS virtual private networks VPNs function and compares MPLS to other approaches Route distribution VPN topologies encapsulation label distribution and other techniques and features are covered Numerous charts and diagrams are featured Tomsu is a consulting engineer Wieser is a systems engineer c Book News Inc **Managed Mpls VPNs a Complete Guide** Gerardus Blokdyk,2018-09-14 What are specific Managed MPLS VPNs Rules to follow What business benefits will Managed MPLS VPNs goals deliver if achieved What are the rough order estimates on cost savings opportunities that Managed MPLS VPNs brings ask yourself are the records needed as inputs to the Managed MPLS VPNs process available Is the Managed MPLS VPNs organization completing tasks effectively and efficiently This exclusive Managed MPLS VPNs self assessment will make you the reliable Managed MPLS VPNs domain specialist by revealing just what you need to know to be fluent and ready for any Managed MPLS VPNs challenge How do I reduce the effort in the Managed MPLS VPNs work to be done to get problems solved How can I ensure that plans of action include every Managed MPLS VPNs task and that every Managed MPLS VPNs outcome is in place How will I save time investigating strategic and tactical options and ensuring Managed MPLS VPNs costs are low How can I deliver tailored Managed MPLS VPNs advice instantly with structured going forward plans There s no better guide through these mind expanding questions than acclaimed best selling author Gerard Blokdyk Blokdyk ensures all Managed MPLS VPNs essentials are covered from every angle the Managed MPLS VPNs self assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Managed MPLS VPNs outcomes are achieved Contains extensive criteria grounded in past and current successful projects and activities by experienced Managed MPLS VPNs practitioners Their mastery combined with the easy elegance of the self assessment provides its superior value to you in knowing how to ensure the outcome of any efforts in Managed MPLS VPNs are maximized with professional results Your purchase includes access details to the Managed MPLS VPNs self assessment dashboard download which gives you your dynamically prioritized projects ready tool and shows you exactly what to do next Your exclusive instant access details can be found in your book You will receive the following contents with New and Updated specific criteria The latest quick edition of the book in PDF The latest complete edition of the book in PDF which criteria correspond to the criteria in The Self Assessment Excel Dashboard and Example pre filled Self Assessment Excel Dashboard to get familiar with results generation plus an extra special resource that helps you with project managing INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books Lifetime Updates is an industry first feature which allows you to receive verified self assessment updates ensuring you always have the most accurate information at your fingertips **Vale of Glamorgan**

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Services ,2006 MPLS and VPN Architectures: MPLS-based Virtual Private Networks. Ch. 7. Virtual Private Network (VPN) Implementation Options. Ch. 8. MPLS Jim Guichard,2001 MPLS and VPN Architectures provides the first in depth discussion particular to Cisco s MPLS architecture This book covers MPLS theory and configuration network design issues and case studies as well as one major MPLS application MPLS based VPNs The MPLS VPN architecture and all of its mechanisms are explained with configuration examples suggested design and deployment guidelines and extensive case studies MPLS and VPN Architectures is your practical guide to understanding designing and deploying MPLS and MPLS based VPNs Book Jacket **QoS Control and Guarantees for MPLS VPN Based Services** Dongli Zhang,2006 Rick Gallaher's MPLS Training Guide ,2005* This book introduces readers to mpls concepts installation migration operation inspection and troubleshooting It discusses specific router and switch platforms and includes such topics as frame mode mpls cell mode mpls label distribution protocol tag distribution protocol label distribution protocol migration mpls configuration traffic engineering mpls vpns mpls vpn deployment models mpls vpn routing protocol support multi protocol bgp mpls vpn configurations mpls vpn integration and mpls vpn management Readers will find complete ready to use configurations for routers Shows how to implement MPLS traffic engineering on a core network and optimize traffic Great for users studying for Cisco s Implementing Cisco MPLS exam 640 910 and written by a Cisco internetworking expert who knows everything about MPLS Includes coverage of Cisco Systems newly released October 7 2002 Multiprotocol Label Switching MPLS Bandwidth Protection software package The new architecture uses MPLS Traffic Engineering Fast Reroute and an offline application called Tunnel Builder Pro to increase resiliency at a network wide level Includes updated coverage of MPLS and GMPLS **Cooperation of control and management plane for the dynamic provisioning of connectivity services on MPLS networks** Eduardo Grampín Castro,Joan Serrat Fernández,2005

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