MPLS-based Layer 3 VPNs

Overall objective

The purpose of this lab is to study Layer 3 Virtual Private Networks (L3VPNs) created using MPLS and BGP. A VPN is an extension of a private network that uses a public communication infrastructure (operated by a network service provider) to interconnect a group of geographically distributed private sites. A Layer 3 VPN provides IP connectivity between VPN sites.

The most common approach uses BGP to exchange VPN routes between provider edge routers and MPLS label switched paths for data transport. This approach, described in RFC 4364, "BGP/MPLS IP Virtual Private Networks" (2006), is studied in this lab.

Prerequisites

You should be familiar with the basic concepts and operation of MPLS and LDP (Label Distribution Protocol), intra–domain and inter–domain routing using RIPv2 and BGP, as well as MPLS-based VPNs.

These topics are presented in the course material. Review them before the lab.

Case study

We consider the scenario shown in Figure 1. A network service provider (SP) operates an MPLS network and offers VPN services. The current task is to set up VPNs for the customers A and B. The network of each of these customers consists of two sites. The customers use private IP address space (partially overlapping).

In this example, the routers in the SP network run RIPv2 for intra–domain routing, MPLS for packet forwarding, and LDP for label distribution. For the VPN service, the SP uses the approach based on MPLS and BGP defined in RFC 4364 (summarized in the next section). Customer edge routers exchange VPN routing information with the provider edge routers using RIPv2.
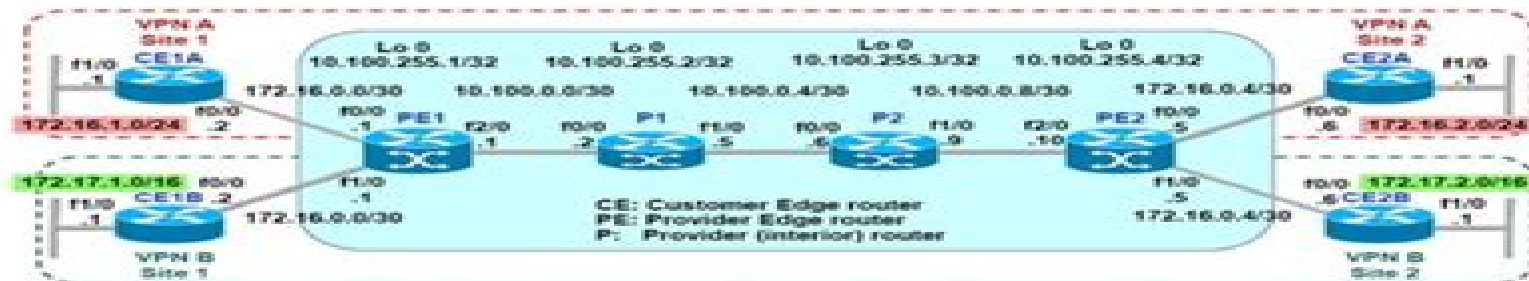

Figure 1. Network configuration for experiments with MPLS-based VPNs.

Summary of learning objectives

You will set up the network shown in Figure 1 and study the following topics:

- Configuration of MPLS, LDP and RIPv2 in the SP network.
- Configuration of MPLS-based L3VPNs using: VRFs (Virtual Routing and Forwarding), MP-BGP (Multi-Protocol BGP), redistribution of VPN routes between MP-BGP and RIPv2 in VRFs, etc.
- Operation of the MPLS network and the VPNs.

During the experiments carried out in the lab, you will see how these protocols work and cooperate to achieve the VPN service, by examining the status of the routers using Cisco IOS commands and by inspecting the exchanged packets using a protocol analyzer.

Managing Dynamic Automated Communities With Mpls Based Vpns

Alex Galis,Anastasius Gavras

Managing Dynamic Automated Communities With Mpls Based Vpns :

MPLS and VPN Architectures Jim Guichard,Ivan Pepelnjak,Jeff Apcar,2003 Master advanced MPLS VPN deployment solutions to design deploy and troubleshoot advanced or large scale networks This title builds on the bestselling success of the first volume with more advanced features to get more out of a network **Versatile Routing and Services with BGP** Alcatel-Lucent,Colin Bookham,2014-01-29 Design a robust BGP control plane within a secure scalable network for smoother services A robust Border Gateway Protocol setup is vital to ensuring reliable connectivity an essential capability for any organization The Internet has become a necessary always on service in homes and businesses and BGP is the protocol that keeps communication flowing But BGP also has become crucial to delivery of intra domain business services But the network is only as reliable as BGP so service enablement depends upon making BGP more stable reliable and service rich Alcatel Lucent Service Router Operating System is engineered to bear the load of the most demanding networks The system features support for Symmetric Multiprocessing and unprecedented depth of advanced routing features all within a single OS that s supported across the entire Alcatel Lucent IP MPLS router portfolio Versatile Routing and Services with BGP provides guidance toward implementation of BGP within SR OS and details the use and control of each feature The book provides in depth coverage of topics such as BGP MPLS IP VPN VPLS VPWS Labeled Unicast IPv4 reconvergence and multicast Security graceful restart and error handling IPv6 PE 6PE and IPv6 extensions to BGP MPLS IP VPN A look at forthcoming features such as Ethernet VPN Basic BGP competency is assumed but the book is accessible even to those with zero familiarity with Alcatel Lucent s SR OS It underscores the idea that BGP is more than just service enablement and can also be used for infrastructure layer transport but both layers must be solid scalable and able to quickly reconverge Versatile Routing and Services with BGP demonstrates the creation of a robust BGP control plane within a secure network allowing the delivery of flawless uninterrupted service The Future Internet Alex Galis,Anastasius Gavras,2013-04-22 Co editors of the volume are Federico lvarez Alessandro Bassi Michele Bezzi Laurent Ciavaglia Frances Cleary Petros Daras Hermann De Meer Panagiotis Demestichas John Domingue Theo G Kanter Stamatis Karnouskos Srdjan Kr o Laurent Lefevre Jasper Lentjes Man Sze Li Paul Malone Antonio Manzalini Volkmar Lotz Henning M ller Karsten Oberle Noel E O Connor Nick Papanikolaou Dana Petcu Rahim Rahmani Danny Raz Ga l Richards Elio Salvadori Susana Sargento Hans Schaffers Joan Serrat Burkhard Stiller Antonio F Skarmeta Kurt Tutschku Theodore Zahariadis The Internet is the most vital scientific technical economic and societal set of infrastructures in existence and in operation today serving 2 5 billion users Continuing its developments would secure much of the upcoming innovation and prosperity and it would underpin the sustainable growth in economic values and volumes needed in the future Future Internet infrastructures research is therefore a must The Future Internet Assembly FIA is a successful conference that brings together participants of over 150 research projects from several distinct yet interrelated areas in the European Union Framework Programme 7 FP7 The research projects are grouped as follows the

network of the future as infrastructure connecting and orchestrating the future Internet of people computers devices content clouds and things cloud computing Internet of Services and advanced software engineering the public private partnership projects on Future Internet Future Internet Research and Experimentation FIRE The 26 full papers included in this volume were selected from 45 submissions They are organized in topical sections named software driven networks virtualization programmability and autonomic management computing and networking clouds internet of things and enabling technologies and economic incentives **Next Generation Internet** Joel Mambretti,Andrew Schmidt,1999-09-10 A guide to understanding the emerging technologies and services of the new Internet The groundwork for the next generation Internet NGI is rapidly being laid and now it s only a matter of time before a truly universal fully interactive multimedia Information Superhighway is realized Many organizations are already connecting to powerful new Internet services Enabling the seamless convergence of communications and computation the next version of the Internet will be no mere upgrade it will be based on a communications technology revolution Written by Joel Mambretti and Andrew Schmidt who have been intimately involved with the development of the next generation Internet this book helps you to understand and prepare for the internetworking revolution The authors explain why we need a next generation Internet and discuss the crucial design issues we face from the application technical and network services perspectives They also explore in detail the enabling technologies behind the next generation Internet Writing for both corporate decision makers and the technical community they present Architecture Services and service management Core protocols and technologies Standards governance and ongoing partnerships Differentiated Services GigaPOPs National and international pilot programs both active and planned International next generation Internet projects Universal accessibility Advanced Internet applications **Dissertation Abstracts International** ,2004 **Dynamic Quality of Service Support in Virtual Private Networks** Yuxiao Jia,2004 MPLS-Enabled Applications Ina Minei,Julian Lucek,2006-02-03 MPLS holds the key to network convergence Here at last is a single all encompassing resource where the myriad applications sharpen into a comprehensible text Kireeti Kompella Juniper Fellow Juniper Networks This should be the textbook for MPLS courses both for training of experienced networking professionals and for universities Loa Andersson Acreo AB IAB member and IETF MPLS working group co chair MPLS Enabled Applications is a must read for anyone involved in enterprise or service provider networks Dave Cooper Sr Manager IP Engineering Global Crossing Ltd The capability of Multiprotocol Label Switching MPLS to identify traffic based on its label at forwarding time coupled with its ability to force traffic down pre established paths has created a whole range of new applications while enabling scaling of existing applications To highlight the emerging developments Ina Minei and Julian Lucek cover traffic engineering L3VPNs Layer 3 Virtual Private Networks pseudowires VPLS Virtual Private LAN Service and much more They methodically illustrate how MPLS holds the key to network convergence by allowing operators to offer more services over a single physical infrastructure and how it can reduce the cost of the network by streamlining operations With

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Vale of Glamorgan Festival ,19?? Material in the Australian performing arts programs and ephemera PROMPT collection consists of programs and related items for Australian performing arts organisations Australian artists performing overseas professional productions performed in Australia including those featuring overseas performers and overseas performances of Australian plays music etc *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

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focusing on fundamental TE concepts network control trunk attributes constraint based routing CBR Resource Reservation Protocol with TE extensions RSVP TE and resource optimization Following a discussion on how MPLS can bring increased reliability to MANs the author then concludes the book with a detailed analysis of the service aspect of MANs Topics reviewed include L3 and L2 MPLS VPNs geographically dispersed Ethernet multipoint services virtual private LAN services VPLS and the integrated services IntServ and differentiated services DiffServ QoS models with respect to MPLS The entire book adopts a simplify and exemplify approach containing a series of real life case studies and using representative topologies as a basis for illustrating the concepts discussed in each chapter This learning by example approach helps you to remember and understand the complex MPLS concepts and technologies You can then apply what you have learned from these examples and scenarios to your specific networking environments **Advanced MPLS Design and Implementation** Vivek #2995,2001 An in depth guide to understanding advanced MPLS implementation including packet based VPNs ATM based VPNs traffic engineering and quality of service Advanced MPLS Design and Implementation enables you to Understand MPLS through a detailed analysis of MPLS architecture and operation Design and implement packet based MPLS Virtual Private Networks VPNs using label switching routers LSRs Design and implement ATM based MPLS VPNs using WAN switched ATM LSRs Implement MPLS traffic engineering on your core network and optimize traffic flows dynamically Implement MPLS QoS and provide hard service guarantees with multiple classes of service Acquire practical design and implementation knowledge of real world MPLS VPNs TE and QoS through case studies and configuration examples Multiprotocol Label Switching MPLS is a highly scalable high performance forwarding technology that has multiple applications in the service provider and enterprise environment This book is intended for internetwork engineers and administrators who are responsible for designing implementing and supporting service provider or enterprise MPLS backbone networks It contains a broad range of technical details on MPLS and its associated protocols packet based MPLS ATM based MPLS MPLS traffic engineering MPLS QoS MPLS design and advanced MPLS architectures This book contains MPLS theory design configuration and various case studies Use this book as a reference and guide for designing implementing and supporting an MPLS network Even if you re not using Cisco r equipment this book can increase your awareness and understanding of MPLS technology as well as provide you with detailed design concepts and rules for building scalable MPLS networks Advanced MPLS Design and Implementation is your guide to understanding designing and implementing MPLS VPNs WAN switched MPLS VPNs MPLS traffic engineering and MPLS QoS *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

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