Comparing, Designing, and Deploying VPNs (Networking Technology)

By Mark Lewis

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A practical guide for comparing, designing, and deploying IPsec, MPLS Layer 3, L2TPv3, L2TPv2, AToM, and SSL virtual private networks

- Explore the major VPN technologies and their applications, design, and configurations on the Cisco IOS® Router, Cisco® ASA 5500 Series, and the Cisco VPN 3000 Series Concentrator platforms
- Compare the various VPN protocols and technologies, learn their advantages and disadvantages, and understand their real-world applications and methods of integration
- Find out how to design and implement Secure Socket Layer (SSL) VPNs, including consideration of clientless operation, the Cisco SSL VPN Client, the Cisco Secure Desktop, file and web server access, e-mail proxies, and port forwarding
- Learn how to deploy scalable and secure IPsec and L2TP remote access VPN designs, including consideration of authentication, encryption, split-tunneling, high availability, load-balancing, and NAT transparency
- Master scalable IPsec site-to-site VPN design and implementation including configuration of security protocols and policies, multiprotocol/ multicast traffic transport, NAT/PAT traversal, quality of service (QoS), Dynamic Multipoint VPNs (DMVPNs), and public key infrastructure (PKI)

Virtual private networks (VPNs) enable organizations to connect offices or other sites over the Internet or a service provider network and allow mobile or home-based users to enjoy the same level of productivity as those who are in the same physical location as the central network. However, with so many flavors of VPNs available, companies and providers are often hard pressed to identify, design, and deploy the VPN solutions that are most appropriate for their particular network architecture and service needs.

Comparing, Designing, and Deploying VPNs brings together the most popular VPN technologies for convenient reference. The book examines the real-world operation, application, design, and configuration of the following site-to-site VPNs: Layer 2 Tunneling Protocol version 3 (L2TPv3)-based Layer 2 VPNs

(L2VPN); Any Transport over MPLS (AToM)-based L2VPN; MPLS Layer 3-based VPNs; and IP Security (IPsec)-based VPNs. The book covers the same details for the following remote access VPNs: Layer 2 Tunneling Protocol version 2 (L2TPv2) VPNs; L2TPv3 VPNs; IPsec-based VPNs; and Secure Socket Layer (SSL) VPNs. Through the operation, application, and configuration details offered in each chapter, you'll learn how to compare and contrast the numerous types of VPN technologies, enabling you to consider all relevant VPN deployment options and select the VPN technologies that are most appropriate for your network.

Comparing, Designing, and Deploying VPNs begins with an introduction of the types of VPNs available. Subsequent chapters begin with an overview of the technology, followed by an examination of deployment pros and cons that you can use to determine if the particular VPN technology is appropriate for your network. Detailed discussion of design, deployment, and configuration make up the heart of each chapter. Appendix A offers insight into two multipoint emulated LAN services that can be deployed over a MAN or WAN: Virtual Private LAN Service (VPLS) and IP-only Private LAN Service (IPLS).

If you are a network architect, network engineer, network administrator, an IT manager, or CIO involved in selecting, designing, deploying, and supporting VPNs, you'll find *Comparing, Designing, and Deploying VPNs* to be an indispensable reference.

This book is part of the Cisco Press® Networking Technology Series, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.

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Comparing, Designing, and Deploying VPNs (Networking Technology) By Mark Lewis Bibliography

- Sales Rank: #2386219 in eBooks
- Published on: 2006-04-12
- Released on: 2006-04-12
- Format: Kindle eBook

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Editorial Review

About the Author

Mark Lewis, CCIE® No. 6280, is technical director of MJL Network Solutions (www.mjlnet.com), a leading provider of internetworking solutions that focuses on helping enterprise and service provider customers to implement leading-edge technologies. Mark specializes in next-generation network technologies and has extensive experience designing, deploying, and migrating large-scale IP/MPLS networks. He is an active participant in the IETF, a member of the IEEE, and a certified Cisco Systems® instructor. Mark is the author of Troubleshooting Virtual Private Networks, published by Cisco Press.

Users Review

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