Routing TCP/IP, Volume II: CCIE Professional Development (2nd Edition)

By Jeff Doyle

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Routing TCP/IP, Volume II: CCIE Professional Development, Second Edition

The definitive guide to Cisco exterior routing protocols and advanced IP routing issues—now completely updated

Praised in its first edition for its readability, breadth, and depth, *Routing TCP/IP, Volume II,* Second Edition will help you thoroughly understand modern exterior routing protocols and implement them with Cisco routers.

Best-selling author Jeff Doyle offers crucial knowledge for every network professional who must manage routers to support growth and change. You'll find configuration and troubleshooting lessons that would cost thousands to learn in a classroom, plus up-to-date case studies, examples, exercises, and solutions.

Routing TCP/IP, Volume II, Second Edition covers routing and switching techniques that form the foundation of all Cisco CCIE tracks. Its expert content and CCIE structured review makes it invaluable for anyone pursuing this elite credential.

While its examples focus on Cisco IOS, the book illuminates concepts that are fundamental to virtually all modern networks and routing platforms. Therefore, it serves as an exceptionally practical reference for network designers, administrators, and engineers in any environment.

·   Review core inter-domain routing concepts, and discover how exterior routing protocols have evolved
·   Master BGP's modern operational components
·   Effectively configure and troubleshoot BGP
·   Control path attributes and selection to define better routes
·   Take full advantage of NLRI and routing policies
·   Provide for load balancing and improved network scalability

- Extend BGP to multiprotocol environments via MP-BGP
- Deploy, configure, manage, troubleshoot, and scale IP multicast routing
- Implement Protocol Independent Multicast (PIM): Dense Mode, Sparse Mode, and Bidirectional
- Operate, configure, and troubleshoot NAT in IPv4-IPv4 (NAT44) and IPv6-IPv4 (NAT64) environments
- Avoid policy errors and other mistakes that damage network performance

This book is part of the **CCIE Professional Development series,**which offers expert-level instruction on network design, deployment, and support methodologies to help networking professionals manage complex networks and prepare for the CCIE exams.

Category: Networking
Covers: BGP, Multicast, and NAT

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Editorial Review

About the Author

Jeff Doyle, CCIE No. 1919, is vice president of research at Fishtech Labs. Specializing in IP routing protocols, SDN/NFV, data center fabrics, MPLS, and IPv6, Jeff has designed or assisted in the design of large-scale IP service provider and enterprise networks in 26 countries over 6 continents. He worked with early IPv6 adopters in Japan, China, and South Korea, and has advised service providers, government agencies, military contractors, equipment manufacturers, and large enterprises on best-practice IPv6 deployment. He now advises large enterprises on evolving data center infrastructures, SDN, and SD-WAN.

Jeff is the author of *CCIE Professional Development: Routing TCP/IP*, Volumes I and II and *OSPF and IS-IS: Choosing an IGP for Large-Scale Networks*; a co-author of *Software Defined Networking: Anatomy of OpenFlow*; and an editor and contributing author of *Juniper Networks Routers: The Complete Reference*. He also writes for *Forbes* and blogs for both *Network World* and *Network Computing*. Jeff is one of the founders of the Rocky Mountain IPv6 Task Force, is an IPv6 Forum Fellow, and serves on the executive board of the Colorado chapter of the Internet Society (ISOC).

Jeff lives in Westminster, Colorado, with his wife Sara and a Sheltie named Max, the Forrest Gump of the dog world. Jeff and Sara count themselves especially fortunate that their four grown children and a growing herd of grandchildren all live within a few miles.

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