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initiated through routing protocols, and  
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Routing TCP/IP, Volume 1: Doyle, Jeff, Carroll, Jennifer ...

iv Routing TCP/IP, Volume II 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.

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Same clear and straightforward writing style as in Doyle's Routing TCP/IP, Volume I. Allows students with a variety of levels of experience and previous education to understand, learn, and benefit from materials.

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Routing TCP/IP, Volume II (CCIE

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Routing TCP/IP, Volume II, provides you with the expertise necessary to understand and implement Border Gateway Protocol Version 4 (BGP-4), multicast routing, Network Address Translation (NAT), IPv6, and effective router management techniques. Jeff Doyle's practical approach, easy-to-read format, and comprehensive topic coverage make this book an instant classic and a must-have addition to any ...

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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.

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Praised in its first edition for its approachable style and wealth of information, this new edition provides readers a deep understanding of exterior routing protocols, teaches how to implement them using Cisco routers, and brings readers up-to-date on the latest enhancements and advanced IP routing issues. Routing TCP/IP, Volume II, Second Edition covers TCP connections, message states, path attributes, interior routing protocol interoperation, neighbor connections, and much more. The authors present crucial knowledge for every professional who wants to manage routers to support network growth and change. The routing and switching techniques they cover are fundamental to all modern networks, and form the foundation of all CCIE tracks - making this book an outstanding resource for those seeking to earn Cisco's elite CCIE credential. While

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Professional's "practical" aspects focus on Cisco's IOS, the authors illuminate concepts and issues that apply to any routing platform - making this a superb general reference for network professionals in any environment.

Praised in its first edition for its approachable style and wealth of information, this new edition provides readers a deep understanding of IP routing protocols, teaches how to implement these protocols using Cisco routers, and brings readers up to date protocol and implementation enhancements. Routing TCP/IP, Volume 1, Second Edition, includes protocol changes and Cisco features that enhance routing integrity, secure routers from attacks initiated through routing protocols, and provide greater control over the propagation of routing information for all the IP interior

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A detailed examination of interior routing protocols -- completely updated in a new edition A complete revision of the best-selling first edition--widely considered a premier text on TCP/IP routing protocols A core textbook for CCIE preparation and a practical reference for network designers, administrators, and engineers Includes configuration and troubleshooting lessons that would cost thousands to learn in a classroom and numerous real-world examples and case studies Praised in its first edition for its approachable style and wealth of information, this new edition provides readers a deep understanding of IP routing protocols, teaches how to implement these protocols using Cisco routers, and brings readers up to date protocol and implementation enhancements. Routing



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**TCP/IP, Volume 1, Second Edition**, includes protocol changes and Cisco features that enhance routing integrity, secure routers from attacks initiated through routing protocols, and provide greater control over the propagation of routing information for all the IP interior routing protocols. **Routing TCP/IP, Volume 1, Second Edition**, provides a detailed analysis of each of the IP interior gateway protocols (IGPs). Its structure remains the same as the best-selling first edition, though information within each section is enhanced and modified to include the new developments in routing protocols and Cisco implementations.

**What's New In This Edition?** The first edition covers routing protocols as they existed in 1998. The new book updates all covered routing protocols and discusses new features integrated in the latest version of Cisco IOS Software. IPv6, its

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use with interior routing protocols, and its interoperability and integration with IPv4 are also integrated into this book.

Approximately 200 pages of new information are added to the main text, with some old text removed. Additional exercise and solutions are also included.

**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.

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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

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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.

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Category: Networking Covers: BGP, Multicast, and NAT

Written for TCP/IP network administrators, protocol designers, and network application developers, this introductory text explains the inner workings of the OSPF (Open Shortest Path First) TCP/IP routing protocol for the Internet. Topics covered include: OSBF virtual links, NBMA (nonbroadcast multi-access) network segments, interactions with other routing protocols, and protocol extensions. Annotation copyrighted by Book News, Inc., Portland, OR

Ccie Professional Development: Routing Tcp/Ip, Volume I Takes Readers From A Basic Understanding Of Routers And Routing Protocols Through A Detailed Examination Of Each Of The Ip Interior Routing Protocols: Rip, Rip2, Igrp, Eigrp,

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Ospf, And Is-Is. In Addition To Specific Protocols, Important General Topics Such As Redistribution, Default Routes And On-Demand Routing, Route Filtering And Route Maps Are Covered. Throughout, The Book Emphasizes Techniques For Designing Networks That Efficiently Utilize And Integrate The Ip Routing Protocols. You Will Gain A Deep Understanding Of Ip Routing Protocols And Learn Best Practice Techniques For Implementing These Protocols Using Cisco Routers. As Well, This Book Help You Master Skills Necessary To Become An Effective Cisco Certified Internetwork Expert(Ccie). Each Protocol-Specific Chapter Opens With Through And Lucid Coverage Of The Protocol'S Capabilities And Characteristics. Following Sections Contain Configuration And Troubleshooting Case Studies That Cover Cisco-Specific Configuration Of The

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Protocol And All Commands Available For It On The Most Recent Cisco Ios Version. Finally, Review Questions And Configuration And Troubleshooting Exercises On Each Protocol Provide An Opportunity To Practice For The Ccie Exam.

Techniques for optimizing large-scale IP routing operation and managing network growth Understand the goals of scalable network design, including tradeoffs between network scaling, convergence speed, and resiliency Learn basic techniques applicable to any network design, including hierarchy, addressing, summarization, and information hiding Examine the deployment and operation of EIGRP, OSPF, and IS-IS protocols on large-scale networks Understand when and how to use a BGP core in a large-scale network and how to use BGP to connect to

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external networks Apply high availability and fast convergence to achieve 99.999 percent, or “five 9s” network uptime  
Secure routing systems with the latest routing protocol security best practices  
Understand the various techniques used for carrying routing information through a VPN  
Optimal Routing Design provides the tools and techniques, learned through years of experience with network design and deployment, to build a large-scale or scalable IP-routed network. The book takes an easy-to-read approach that is accessible to novice network designers while presenting invaluable, hard-to-find insight that appeals to more advanced-level professionals as well. Written by experts in the design and deployment of routing protocols, Optimal Routing Design leverages the authors’ extensive experience with thousands of customer cases and network designs. Boiling down



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years of experience into best practices for building scalable networks, this book presents valuable information on the most common problems network operators face when seeking to turn best effort IP networks into networks that can support Public Switched Telephone Network (PSTN)-type availability and reliability. Beginning with an overview of design fundamentals, the authors discuss the tradeoffs between various competing points of network design, the concepts of hierarchical network design, redistribution, and addressing and summarization. This first part provides specific techniques, usable in all routing protocols, to work around real-world problems. The next part of the book details specific information on deploying each interior gateway protocol (IGP)—including EIGRP, OSPF, and IS-IS—in real-world network environments. Part III covers

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advanced topics in network design, including border gateway protocol (BGP), high-availability, routing protocol security, and virtual private networks (VPN). Appendixes cover the fundamentals of each routing protocol discussed in the book; include a checklist of questions and design goals that provides network engineers with a useful tool when evaluating a network design; and compare routing protocols strengths and weaknesses to help you decide when to choose one protocol over another or when to switch between protocols. “The complexity associated with overlaying voice and video onto an IP network involves thinking through latency, jitter, availability, and recovery issues. This text offers keen insights into the fundamentals of network architecture for these converged environments.” —John Cavanaugh, Distinguished Services

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

The comprehensive, hands-on guide for resolving IP routing problems Understand and overcome common routing problems associated with BGP, IGRP, EIGRP, OSPF, IS-IS, multicasting, and RIP, such as route installation, route advertisement, route redistribution, route summarization, route flap, and neighbor relationships Solve complex IP routing problems through methodical, easy-to-follow flowcharts and step-by-step scenario instructions for troubleshooting Obtain essential troubleshooting skills from

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detailed case studies by experienced Cisco TAC team members Examine numerous protocol-specific debugging tricks that speed up problem resolution Gain valuable insight into the minds of CCIE engineers as you prepare for the challenging CCIE exams As the Internet continues to grow exponentially, the need for network engineers to build, maintain, and troubleshoot the growing number of component networks has also increased significantly. IP routing is at the core of Internet technology and expedient troubleshooting of IP routing failures is key to reducing network downtime and crucial for sustaining mission-critical applications carried over the Internet. Though troubleshooting skills are in great demand, few networking professionals possess the knowledge to identify and rectify networking problems quickly and efficiently. Troubleshooting IP Routing

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Protocols provides working solutions necessary for networking engineers who are pressured to acquire expert-level skills at a moment's notice. This book also serves as an additional study aid for CCIE candidates. Authored by Cisco Systems engineers in the Cisco Technical Assistance Center (TAC) and the Internet Support Engineering Team who troubleshoot IP routing protocols on a daily basis, Troubleshooting IP Routing Protocols goes through a step-by-step process to solving real-world problems. Based on the authors' combined years of experience, this complete reference alternates between chapters that cover the key aspects of a given routing protocol and chapters that concentrate on the troubleshooting steps an engineer would take to resolve the most common routing problems related to a variety of routing protocols. The book provides extensive,

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practical coverage of BGP, IGRP, EIGRP, OSPF, IS-IS, multicasting, and RIP as run on Cisco IOS Software network devices.

Troubleshooting IP Routing Protocols offers you a full understanding of invaluable troubleshooting techniques that help keep your network operating at peak performance. Whether you are looking to hone your support skills or to prepare for the challenging CCIE exams, this essential reference shows you how to isolate and resolve common network failures and to sustain optimal network operation. This book is part of the Cisco 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 CCIE exams.

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pages, text, audio, and video, the global IP network is inspiring and intimidating in its vigor and resilience. While we could discuss at length the reasons for its vigor, the resilience of this network is in large part due to IP routing. This book introduces the reader to the intricacies of IP routing as it is implemented using Cisco routers. Each section leads the reader through the basics of configuring routing protocols. This approach gives the reader a quick start with the routing protocol under discussion and reveals the underlying concepts of IP routing. What is the packet-forwarding process ? How is the routing table maintained ? How do Distance Vector algorithms work ? How do classful and classless route lookups differ ? These and other concepts are illustrated in the discussions of static routing, RIP, IGRP, and EIGRP. The limitations of these traditional routing

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protocols will also become obvious to the reader. Variable Length Subnet Masks, route summarization, and fast convergence are key features in the design of any large IP network. These features are discussed in the OSPF chapter, which includes an introduction to Dijkstra's algorithm, the foundation for Link State protocols. Finally, BGP-4 is described in detail, showing the reader how to use BGP-4 attributes to set routing policies. This book is intended for anyone interested in IP routing. While it is appropriate for a beginner, it will also be useful for anyone already familiar with IP routing who is seeking a better understanding of the underlying concepts.

Intended for organisations needing to build an efficient and reliable enterprise network linked to the Internet, this second edition explains the current Internet



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architecture and shows how to evaluate service providers dealing with connection issues.

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