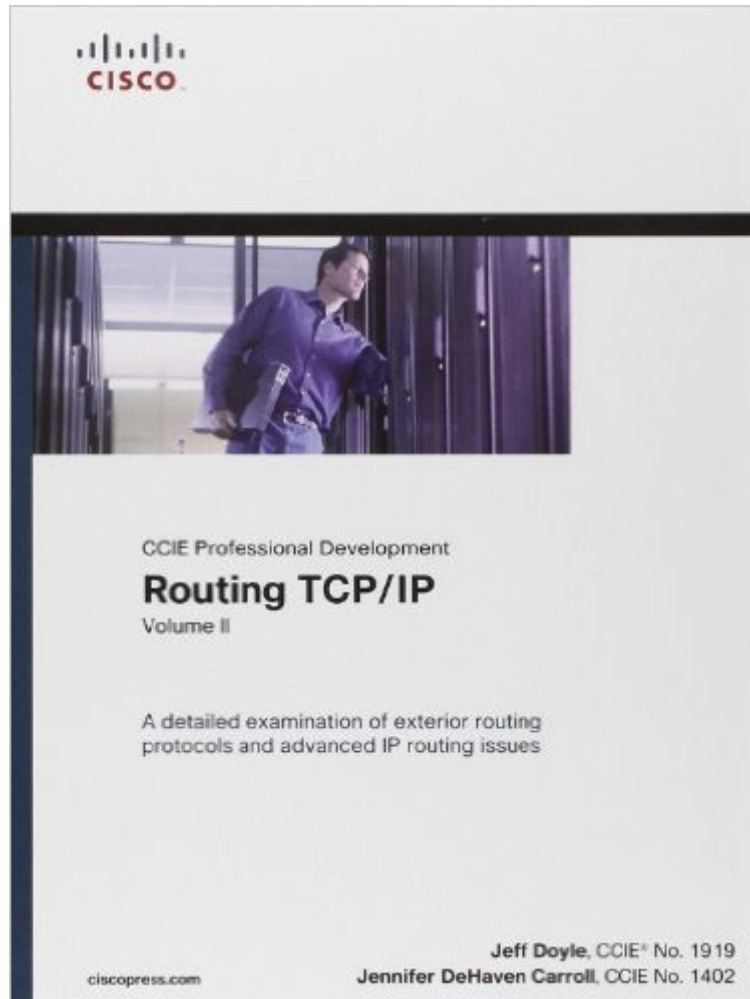


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# Routing TCP/IP, Volume II (CCIE Professional Development)



## Synopsis

A detailed examination of exterior routing protocols and advanced IP routing issues. Routing TCP/IP, Volume II, enables you to:

- Master the operational components, configuration, and troubleshooting of BGP-4-the de facto interdomain routing protocol
- Understand the operation, configuration, and troubleshooting of NAT
- Learn how to deploy, configure, and troubleshoot IP multicast routing through an array of case studies and exercises
- Familiarize yourself with the design goals and current state of IPv6, the new generation of the IP protocol
- Implement router management through a diverse range of expert-tested methods
- Test and validate your knowledge with practical, comprehensive review questions, configuration exercises, and troubleshooting exercises

Further your CCIE preparation while mastering advanced TCP/IP concepts. The complexities of exterior gateway protocols, including TCP connections, message states, path attributes, interior routing protocol interoperation, and setting up neighbor connections, require a comprehensive understanding of router operations in order to manage network growth. 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 network professional's library. Routing TCP/IP, Volume II, expands upon the central theme of Volume I: scalability and management of network growth. Volume II moves beyond the interior gateway protocols covered in Volume I to examine both inter-autonomous system routing and more exotic routing issues such as multicasting and IPv6. This second volume follows the same informational structure used effectively in Volume I: discussing the topic fundamentals, following up with a series of configuration examples designed to show the concept in a real-world environment, and relying on tested troubleshooting measures to resolve any problems that might arise. This book helps you accomplish more than earning the highly valued CCIE number after your name; it also helps you develop the knowledge and skills that are essential to perform your job at an expert level. Whether you are pursuing CCIE certification, need to review for your CCIE recertification exam, or are just looking for expert-level advice on advanced routing issues, Routing TCP/IP, Volume II, helps you understand foundation concepts and apply best practice techniques for effective network growth and management.

## Book Information

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## Customer Reviews

I bought the book five weeks ago and have been working through it setting up the labs. The BGP info seems to be every bit as good as Sam Halabi's, the NAT section detailed, the IP multicasting very detailed and thorough and the Router Management section good. I wish Cisco provided more books that are understandable like this for CCIE study.

This is a strong book for learning IP services. The BGP section here is well done also but Halabi's BGP book is by far the best BGP book written. The author understands his audience. He writes with consideration for you the reader as if he WANTS you to get it. So many times you bump into books written by those who go off on tangents. There is not a chapter in this book that isn't worth the read. It's excellent, but I want to point you, again, to the IP Services portion of this book that really will round you out as an engineer and as a CCIE candidate. It is as informative as Volume I, it just covered different and lesser known topics but they are still topics you need to know.

This book covers BGP in almost 300 pages. Is it better than Halabi's bible? No, you just go faster into the subject as well as on NAT, IP Multicast, IP V6 and Router Management (SNMP, Syslog, NTP, Netflow...). Doyle is always clear and chooses good examples. I would recommend it as a first and solid read on the above subjects. Then continue with Halabi's Internet Routing Architectures and Williamson's Developing IP Multicast Networks. For IP V6, NAT and Network Management there are certainly other reference texts but I don't know them...

I bought this book almost two years ago for having a good material more than a CCNP level; I love reading and having the books, but I suggest to update it as soon as possible like they did for Volume 1. Right now I'm preparing for CCIE R&S and I realized the book includes a lot of obsolete information like: EGP, Multicast Protocols like CGMP, MOSPF, DVMRP, CBT, etc. Anyway it's a good resource and it deserves 5 stars.

"Routing TCP/IP, Volume II" by Jeff Doyle and Jennifer DeHaven Carroll picks up where "Routing TCP/IP, Volume I" left off. And, like the first volume, this volume is an essential "must read" for any aspiring CCIE-candidate. The book is divided into two sections, Exterior Gateway Protocols and Advanced IP Routing Issues. The first section provides an historical review of Exterior Gateway Protocol (EGP), an introduction for Border Gateway Protocol version 4 (BGP), and finally details on configuring and troubleshooting BGP. As with the first volume, numerous configuration and troubleshooting examples and exercises are included. However, one flaw is that the student will need twelve routers to actually stage the configuration example / lab at the end of this section. The second part, Advanced IP Routing Issues, covers a variety of topics, although Multicast received the bulk of the attention. The Multicast chapters are concise, well written, and easy to digest and understand. Other topics include Network Address Translation (NAT), IPv6, and Router Management. However, since the initial publication date (2001), Cisco support for IPv6 has matured, making the chapter here a bit outdated. In fact, the Second Edition of Volume I does a much better job of incorporating IPv6 throughout. Also, I felt the chapter on Router Management was a bit light and was left with the impression that is tossed in at the last moment as a sort of "filler". The reader should definitely make sure that he or she is comfortable with the topics presented in "Routing TCP/IP, Volume I" before delving into this book. Concepts covered in the first volume, such as Interior Gateway Protocols (RIP, OSPF, EIGRP) and the fundamentals of route redistribution, are referenced throughout this volume. If you do not completely understand the topics covered in Volume I, you will likely have a difficult time grasping the topics and concepts covered here in Volume II. All in all, a very good book for a student working towards a CCIE. You will likely need to augment the BGP coverage with Halabi's "Internet Routing Architecture". When I first bought the book a few years back, I would have given it 5 stars. However, given some of the outdated topics I mentioned earlier, I've knocked it down to 4. A Second Edition refresh, similar to what was done for "Routing TCP/IP, Volume I", would likely bump it back to 5 stars. Good luck! Mark G. Reyero, CCIE 12932

This book, as well as Vol.1, is definitely one of the best books on networking ever written, both in general Cisco-specific. It is not only the best resource on BGP4 but on other "esoteric" and less known protocols like PIM, MSDP and IPv6. The content is very well-structured, all concepts are supported by numerous examples so even if one doesn't understand the subject in its depth he or she can find an answer to a specific real-world question. Although Routing TCP/IP Vol.2 isn't meant to be a CCIE cram book, I believe it will provide the reader with great insight and deep understanding of networking which will help one pass the CCIE lab with shining colors and become a better engineer. In my opinion Vol 1 and 2 are the best books ever published on TCP/IP routing, both from a theoretical and practical point of view (with all due respect to Radia Perlman). Both are definitely the #1 resource for every network engineer and CCIE candidate. What the book doesn't provide is a quick answer to every question or an easy way to superficial knowledge - it requires a certain degree of discipline, concentration and time. Exceptional work, Mr. Doyle!

##### Review is only for BGP

part##### BGP is the only part I read, it is excellent. I even can't find any words you can remove or any particular content is unnecessary repeat, each attributes writer gave an "small story" and one example, instead of put a list such as 1,2,3... The most difficult part of each protocol is understand why and how, that's exactly this book deliver to me, for example, to explain AS\_SET, instead of talking about itself, the writer talked about the shortage of AS\_PATH, then gave an example after aggregate, no AS# can be seen, then what if we were using AS\_SET.... For such, excellent explanation. Not a lot of people consider this is the best, I haven't read the IRA, to be fair, this book at least is one of the best..

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