Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide: (CCNP ROUTE 300-101) (Foundation Learning Guides)

By Diane Teare, Bob Vachon, Rick Graziani

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Now updated for Cisco's new ROUTE 300-101 exam, Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide is your Cisco® authorized learning tool for CCNP® or CCDP® preparation. Part of the Cisco Press Foundation Learning Series, it teaches you how to plan, configure, maintain, and scale a modern routed network.

Focusing on Cisco routers connected in LANs and WANs at medium-to-large network sites, the authors show how to select and implement Cisco IOS services for building scalable, routed networks. They examine basic network and routing protocol principles in detail; introduce both IPv4 and IPv6; fully review EIGRP, OSPF, and BGP; explore enterprise Internet connectivity; cover routing updates and path control; and present today's router security best practices.

Each chapter opens with a list of topics that clearly identifies its focus. Each chapter ends with a summary of key concepts for quick study, as well as review questions to assess and reinforce your understanding. Throughout, configuration and verification output examples illustrate critical issues in network operation and troubleshooting.

This guide is ideal for all certification candidates who want to master all the topics covered on the ROUTE 300-101 exam.

- Serves as the official book for the newest version of the Cisco Networking Academy CCNP ROUTE course
- Includes all the content from the newest Learning@Cisco ROUTE course and information on each of the ROUTE exam topics
- Compares basic routing protocol features and limitations
- Examines RIPv2 and RIPng
- Covers EIGRP operation and implementation for both IPv4 and IPv6

- Explores OSPFv2 implementation, and OSPFv3 for both IPv4 and IPv6
- Discusses network performance optimization via routing updates
- Introduces path control with Cisco Express Forwarding (CEF) switching, policy-based routing (PBR), and service level agreements (SLAs)
- Addresses enterprise Internet connectivity via single or redundant ISP connections
- Explains BGP terminology, concepts, operation, configuration, verification, and troubleshooting
- Covers securing the management plane of Cisco routers using authentication and other recommended practices
- Presents self-assessment review questions, chapter objectives, and summaries to facilitate effective studying

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Editorial Review

About the Author

Diane Teare, P.Eng, CCNP, CCDP, CCSI, PMP, is a professional in the networking, training, project management, and e-learning fields. She has more than 25 years of experience in designing, implementing, and troubleshooting network hardware and software, and has been involved in teaching, course design, and project management. She has extensive knowledge of network design and routing technologies. Diane is a Cisco Certified Systems Instructor (CCSI), and holds her Cisco Certified Network Professional (CCNP), Cisco Certified Design Professional (CCDP), and Project Management Professional (PMP) certifications. She is an instructor, and the Course Director for the CCNA and CCNP Routing and Switching curriculum, with one of the largest authorized Cisco Learning Partners. She was the director of e-learning for the same company, where she was responsible for planning and supporting all the company's e-learning offerings in Canada, including Cisco courses. Diane has a bachelor's degree in applied science in electrical engineering and a master's degree in applied science in management science. She authored or co-authored the following Cisco Press titles: the first edition of this book; the second edition of *Designing Cisco Network Service Architectures (ARCH); Campus Network Design Fundamentals*; the three editions of *Authorized Self-Study Guide Building Scalable Cisco Internetworks (BSCI)*; and *Building Scalable Cisco Networks*. Diane edited the first two editions of the *Authorized Self-Study Guide Designing for Cisco Internetwork Solutions (DESGN)*, and *Designing Cisco Networks*.

Bob Vachon, is a professor at Cambrian College in Sudbury, Ontario, Canada, where he teaches Cisco networking infrastructure courses. He has more than 30 years of work and teaching experience in the computer networking and information technology field. Since 2001, Bob has collaborated as team lead, lead author, and subject matter expert on various CCNA, CCNA-S, and CCNP projects for Cisco and the Cisco Networking Academy. He also was a contributing author for the Routing Protocols Companion Guide, Connecting Networks Companion Guide, and authored the CCNA Security (640-554) Portable Command Guide. In his downtime, Bob enjoys playing the guitar, playing pool, and either working in his gardens or white-water canoe tripping.

Rick Graziani teaches computer science and computer networking courses at Cabrillo College in Aptos, California. Rick has worked and taught in the computer networking and information technology field for almost 30 years. Before teaching, Rick worked in IT for various companies, including Santa Cruz Operation, Tandem Computers, and Lockheed Missiles and Space Corporation. He holds a Master of Arts degree in computer science and systems theory from California State University Monterey Bay. Rick also works for the Cisco Networking Academy Curriculum Engineering team and has written other books for Cisco Press, including *IPv6 Fundamentals*. When Rick is not working, he is most likely surfing. Rick is an avid surfer who enjoys surfing at his favorite Santa Cruz breaks.

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