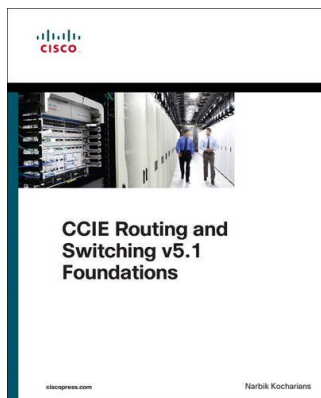


# **[PDF] CCIE Routing And Switching V5.1 Foundations: Bridging The Gap Between CCNP And CCIE (Practical Studies)**

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Title: CCIE Routing and Switching v5  
Author: Narbik Kocharians  
Released:  
Language:  
Pages: 1248  
ISBN: 1587144727  
ISBN13: 9781587144721  
ASIN: 1587144727

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#### **Description:**

**CCIE-level Cisco routing and switching guide for every CCNP**

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*CCIE Routing and Switching v5.1 Foundations* addresses every segment of the CCIE R&S Version 5 blueprint, helping you focus your study where it will do the most good: intense hands-on practice to deepen your current knowledge and thorough explanations of theoretical topics you haven't yet encountered.

Based on the author's industry-recognized CCIE prep classes, it includes 40+ detailed labs for real gear and platform emulators; structured illustrations of protocol and feature operation; and topic-specific labs to drive the theory home. It includes a full lab walkthrough of a complex configuration reflective of the actual CCIE—ensuring that you thoroughly understand the technologies and interactions you're reading about.

- Discover the physical topology for any network deployment
- Master Spanning Tree Protocol (STP) foundations and advanced features
- Deploy and optimize PPP and use its full set of capabilities
- Implement Dynamic Multipoint VPNs (DMVPNs) from start to finish
- Use IP Prefix lists in prefix filtration, packet filtering, and other applications
- Handle any RIPv2 deployment scenario n Implement EIGRP, including classical and named operation modes and interoperation
- Use advanced OSPF techniques, including route filtration, LSA operation, stub configurations, and update filtering
- Understand what happens when you perform redistribution, and manage problematic scenarios
- Manage complex BGP capabilities, including Adjacency State Machine
- Operate IPv6 in complex network environments, including DMVPN
- Focus on QoS mechanisms that CCIE still covers, including traffic marking, classification, policing, and shaping
- Deploy IPsec VPN solutions including GRE/IPSec tunnel mode, multi-site VPN technologies, and their encryption
- Implement multicasting in environments requiring end-to-end IPv4 and IPv6 transport
- Address operational and deployment issues involving MPLS VPNv4 tunnels

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