

CCNP 6.0

CCNP ROUTE: Implementing IP Routing

Chapter 1. Routing Services

- 1.1 Complex Enterprise Network Frameworks, Architectures, and Models
- 1.2 Creating, Documenting, and Executing an Implementation Plan
- 1.3 Reviewing IP Routing Principles

Chapter 2. Configuring the Enhanced Interior Gateway Routing Protocol

- 2.1 Understanding EIGRP Terminology and Operation
- 2.2 Planning EIGRP Routing Implementations
- 2.3 Configuring and Verifying EIGRP
- 2.4 Configuring and Verifying EIGRP in an Enterprise WAN
- 2.5 Configuring and Verifying EIGRP Authentication
- 2.6 Optimizing EIGRP Implementations

Chapter 3. Configuring the Open Shortest Path First Protocol

- 3.1 Understanding OSPF Terminology and Operation
- 3.2 OSPF Packets
- 3.3 Configuring and Verifying Basic OSPF Routing
- 3.4 Understanding OSPF Network Types
- 3.5 Understanding OSPF LSAs
- 3.6 Interpreting the OSPF LSDB and Routing Table
- 3.7 Configuring and Verifying Advanced OSPF Features
- 3.8 Configuring OSPF Authentication

Chapter 4. Manipulating Routing Updates

- 4.1 Assessing Network Routing Performance Issue
- 4.2 Controlling Routing Update Traffic
- 4.3 Implementing Route Redistribution
- 4.4 Controlling Routing Update Traffic

Chapter 5. Implementing Path Control

- 5.1 Understanding Path Control
- 5.2 Implement Path Control using Offset-Lists
- 5.3 Implement Path Control using IP SLAs
- 5.4 Implement Path Control using Policy Based Routing
- 5.5 Advanced Path Control Tools

Chapter 6. Implementing a Border Gateway Protocol Solution for ISP connectivity

- 6.1 BGP Terminology, Concepts, and Operation
- 6.2 Configuring BGP
- 6.3 Verifying and Troubleshooting BGP
- 6.4 Basic BGP Path Manipulation Using Route Map
- 6.5 Filtering BGP Routing Updates

Chapter 7: Implementing Routing Facilities for Branch Offices and Mobile Workers

- 7.1 Planning the Branch Office Implementation
- 7.2 Planning for Mobile Worker Implementations
- 7.3 Routing Traffic to the Mobile Worker

Chapter 8. Implementing IPv6 in an Enterprise Network

8.1 Introducing IPv6

8.2 IPv6 Addressing

8.3 Configuring and Verifying IPv6 Unicast

8.4 Routing IPv6 Traffic

8.5 Tunneling IPv6 Traffic

8.6 Translation Using NAT-PT