Learning Services

Cisco Training on Demand

Routing Protocol Bootcamp

Overview
The Routing Protocol Bootcamp Cisco® Training on Demand course is part of the Cisco Technical Assistance Center (TAC) curriculum. The course explains routing protocols to engineers who need the knowledge and skills to plan, configure, and verify the implementation of the following protocols: Routing Information Protocol Version 2 (RIPv2), Enhanced Interior Gateway Routing Protocol (EIGRP), Open Shortest Path First Version 2 (OSPFv2), and Border Gateway Protocol (BGP). This Training on Demand course is a blend of video, course materials and hands-on lab exercises.

Interested in purchasing this course in volume at discounts for your company? Contact ctod-sales@cisco.com.

Duration
The Routing Protocol Bootcamp Training on Demand course has 13 modules and 67 lessons, totaling approximately 21 hours of video, along with 4 hands-on lab exercises.

Target Audience
This course is designed for network professionals who design, implement or support RIPv2, EIGRP, OSPFv2, and BGP.

Those studying for a CCNP Routing and Switching exam should also find this course helpful.
Objectives
After completing this course, you should be able to:

- Describe important concepts relating to RIPv2, EIGRP, OSPFv2, and BGP
- Design and configure RIPv2, EIGRP, OSPFv2, and BGP networks
- Troubleshoot moderate RIPv2, EIGRP, OSPFv2, and BGP issues

Course Prerequisites
Before taking this course, you should have the working knowledge and skills about the following:

- Data networking operations (equivalent to the topics covered in the Cisco CCENT® certification or Interconnecting Cisco Networking Devices Part 1 (ICND1) training)
- Ability to read and subnet IPv4 addresses
- Ability to configure a Cisco router or switch with the Cisco IOS® command-line interface (CLI)
- (Optional) How routing protocols work

Course Outline
- Module 1: RIPv2
- Module 2: eIGRP Fundamentals
- Module 3: eIGRP Tuning
- Module 4: OSPFv2 Fundamentals
- Module 5: OSPFv2 Area Types
- Module 6: OSPF Tuning
- Module 7: BGP Overview
- Module 8: eBGP Fundamentals
- Module 9: BGP Path Selection & Filtering—Basics
- Module 10: iBGP Fundamentals
- Module 11: BGP Aggregation
- Module 12: BGP Path Selection & Filtering—Advanced
- Module 13: BGP Neighbors Tuning

Labs Outline
This course contains four hands-on virtual lab exercises, powered by Cisco Learning Labs and Cisco IOL (Cisco IOS Software on Linux). The topology for all labs is shown in Figure 1.
The labs included in this course are:

- Lab 1: RIPv2 Configuration Lab
- Lab 2: EIGRP Configuration Lab
- Lab 3: OSPF Configuration Lab
- Lab 4: EBGP Configuration Lab

Instructor: Charles Stizza

Charles Stizza is currently a member of the Data Center Switching TAC team. With more than 15 years of IT experience, his expertise extends to a variety of technologies, including Layer 3 routing, data center, and virtualization. When not teaching or supporting Cisco customers, Stizza spends time mentoring professionals and helping them realize their potential.

Supported Configurations

Cisco Training on Demand videos are supported on PCs, Macs, and tablets using one of the following browsers, or later: Mozilla Firefox 30, Google Chrome 35, and Apple Safari 6. The labs are supported on PCs and Macs, but not on tablets.

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