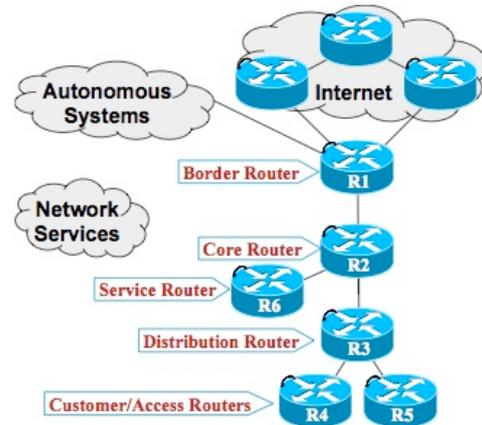


Advanced Services' Building Core Networks with OSPF, IS-IS, BGP, and MPLS Bootcamp (BCN) v6.1

Length: 5-day Workshop ILT, Virtual 8-days

Building Core Networks with OSPF, IS-IS, BGP, and MPLS Bootcamp (BCN) is a powerful hands-on course that provides you with the required knowledge and skills to design, deploy, operate, and maintain an Internet service provider (ISP) backbone network. You will learn the primary principles of the routing protocols that are used in very large networks. Hands-on labs reinforce the lecture materials to make sure that you have the working skills to affect the networks you support.

BCN is offered in a traditional classroom or as an interactive virtual live classroom training delivered over Cisco® WebEx®. Both versions are led by the same knowledgeable instructors. The course materials are the same (although minor changes are made to accommodate the virtual live classroom environment), and both versions have the same hands-on labs. BCN Virtual live classroom offers the same learning experience as the traditional version with the added benefit of remote access.



You will learn to:

Upon completion of this course, you should be able to:

- Identify the critical factors for availability, scalability, and manageability
- Implement an Interior Gateway Protocol (IGP, either OSPF or IS-IS) into a large-scale hierarchical network using best current practices for scalability
- Implement BGP into a large-scale hierarchical network using best practices for scalability
- Control routing policy by influencing the BGP path selection process using route maps, prefix lists, and community strings
- Implement multihoming strategies using multiexit discriminators (MEDs) and local preference
- Implement and verify MPLS functionality in a large-scale network
- Implement and verify MPLS VPN connectivity in intra-autonomous-system environments
- Implement and verify MPLS traffic engineering practices
- Implement Layer 2 VPNs using Any Transport over MPLS (AToM)

Recommended for:

This course is intended for network professionals, including designers, implementers, and support staff involved with design and deployment of large-scale networks for large enterprises or high-end ISP networks that use scalable technologies such as Intermediate System-to-Intermediate System (IS-IS), Open Shortest Path First (OSPF), Border Gateway Protocol (BGP), or Multiprotocol Label Switching (MPLS).

Prerequisites:

The following are the prerequisites for this course:

- Experience using the Cisco IOS® Software command-line interface (CLI)
- Proficiency in routing fundamentals and IP addressing
- [CCNA®](#) or the equivalent networking knowledge and experience