Learning Services

Cisco Training on Demand

BGP Bootcamp

Overview

The BGP (Border Gateway Protocol) Bootcamp Cisco® Training on Demand course is part of the Cisco Technical Assistance Center (TAC) curriculum. As an advanced course, it takes a deep-dive look at BGP as described in Request for Comments (RFC) 4271, “A Border Gateway Protocol 4,” and covers the knowledge and skills needed to plan, configure, and troubleshoot BGP. The topics include eBGP, iBGP, BGP path selection, aggregation, and neighbors tuning. It wraps up with a brief discussion about BGP for IPv6. 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 BGP Bootcamp Training on Demand course consists of 10 modules and 45 lessons, totaling 12 hours of video instruction, along with 5 hands-on lab exercises.

Target Audience

This course is designed for network professionals who design, deploy, and support BGP.

Objectives

After completing this course, you should be able to:

- Implement a BGP configuration
- Use the BGP path selection process
- Configure, monitor, and troubleshoot basic BGP routing
- Use BGP attributes to influence the route selection process
- Enable route reflectors and confederations
- Use BGP tools to optimize the scalability of BGP

Course Prerequisites

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

- Working knowledge of how enterprise and service providers work
- Knowledge and experience with implementing at least one routing protocol, such as Intermediate System–to–Intermediate System (IS–IS) or Open Shortest Path First (OSPF)
- (Optional) Ability to describe the basics of what BGP is and what network problems it solves

Course Outline

- Module 1: BGP Overview
- Module 2: eBGP Fundamentals
- Module 3: BGP Path Selection and Filtering—Basics
- Module 4: iBGP Fundamentals
- Module 5: Advanced eBGP Neighbor Features
- Module 6: Advanced iBGP Neighbor Features
- Module 7: BGP Path Selection and Filtering—Advanced
- Module 8: BGP Aggregation
- Module 9: BGP Neighbors Tuning
- Module 10: BGP for IPv6

Labs Outline

This course contains five hands-on virtual lab exercises, powered by Cisco Learning Labs and Cisco IOS (Cisco IOS® Software on Linux). The topology for all labs is shown in Figure 1.

Figure 1. Topology for All Labs in BGP Bootcamp Course
The labs included in this course are:

- Lab 1: eBGP Fundamentals
- Lab 2: iBGP Fundamentals and Advanced
- Lab 3: Advanced eBGP Neighbors
- Lab 4: BGP Best Path Selection and Filtering—Advanced
- Lab 5: BGP Aggregation

**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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