Border Gateway Protocol (BGP) for Service Provider and Enterprise Networks

BGP 400

BROCADE UNIVERSITY

Brocade
Certified Service Provider Network Engineer

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PREREQUISITES:

- Content covered in *Brocade Certified Network Engineer (BCNE) Training* (*CNE 200*) or *Basic Switch/ Router Configuration and Management* (*ETH 103*), or equivalent knowledge.
- BGP content covered in *Brocade Certified Network Professional (BCNP) Training* (*CNP 300*), *Advanced Switching/Routing Configuration and Management* (*ETH 405*), or the web-based training that accompanies *BGP 400*; or equivalent knowledge.

AUDIENCE:

This course is for Channel Partners (SDP, VARs), end users, network engineers, network architects, network designers, technical support personnel, OEMs, professional services, field SEs, Brocade employees, and any user who would like to learn about the BGP implementation of Brocade devices.

DESCRIPTION:

This course covers intermediate to advanced BGP theory and concepts. The lab-intensive course will provide students with the required skills to configure and troubleshoot BGP networks in Service Provider and Enterprise network environments. This course covers the manipulation of BGP attributes, filtering prefixes using route maps, ACLs, AS-PATH ACLs, and prefix lists. It also covers community attributes in a transit AS, BGP redundancy, load sharing, confederations, route reflectors, and peer groups.

BGP 400 is one of the courses in a curriculum path which leads to the Brocade Certified Service Provider Network Engineer (BCSPNE) certification, exam number 150-710 . It is also is a prerequisite for Brocade University MPLS training offerings.

OBJECTIVES:

Upon successful completion of this course, students should be able to:

- Provide an overview of the BGP routing protocol
- Review the Brocade BGP configuration
- Implement and manipulate BGP attributes for route selection
- Filter prefixes using standard ACLs, route maps, AS-PATH ACLs, and prefix lists
- Configure community attributes for transit Autonomous Systems (ASs)
- Implement BGP redundancy
- Describe BGP enhanced features

DELIVERY OPTIONS:

The **BGP 400** course is available in three versions:

- **BGP 400-ILT**: Two days of instructor-led classroom training with hands-on lab exercises, plus 2 hours of web-based training.
- **BGP 400-VCT:** Two days of instructor-led classroom training with hands-on lab exercises, plus 2 hours of web-based training.

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