

Implementing Cisco Multicast (MCAST) v2.0

Price: 4300

Duration: 5 days

Delivery Methods: Virtual

Overview

The Implementing Cisco Multicast (MCAST) v2.0 course is a 5-day course which teaches you the fundamentals of IP multicasting, including multicast applications, sources, receivers, group management, and IP multicast routing protocols such as Protocol Independent Multicast (PIM) used within a single administrative domain. You will learn about issues in switched LAN environments and reliable IP multicasting, and technical solutions for simple deployments of IP multicast within a provider or customer network. The course reviews the configuration and troubleshooting guidelines for implementation of IP multicast on Cisco® routers. Labs offer hands-on experience to help you prepare to deploy IP multicast successfully.

Prerequisites:

The knowledge and skills that a learner should have before attending this course are as follows:

- Work experience and configuration skills for Cisco routers and LAN switches

Course Objectives:

Upon completion of this course the learner will be able to meet these overall objectives:

- Describe IP multicast services
- Identify IP multicast issues on a data link layer
- Explain why Protocol Independent Multicast Sparse Mode (PIM-SM) is the most current scalable IP multicast routing protocol
- Describe Rendezvous Point (RP) distribution solutions

- Recognize the drawbacks of the PIM-SM and describe two extensions to provide possible solutions
- Explain basic concepts of Multiprotocol BGP (MP-BGP) and its use in the IP multicast environment
- Configure and deploy Multicast Source Discovery Protocol (MSDP) in the interdomain environment
- Describe solutions to mitigate security issues in the IP multicast network
- Describe the process of monitoring and maintaining multicast high-availability operations
- Design multicast-related application and network solutions in customer and service provider networks

Who Should Attend

The primary audience for this course is as follows:

- Network professionals
- Systems engineers
- Partners
- Customers

Course content

Module 1: Course Introduction

Module 2: IP Multicast Concepts and Technologies

- Introducing IP Multicast
- Understanding the Multicast Service Model
- Defining Multicast Distribution Trees and Forwarding
- Reviewing Multicast Protocols

Module 3: Multicast on the LAN

- Mapping Layer 3 to Layer 2
- Working with Cisco Group Management Protocol
- Using Internet Group Management Protocol (IGMP) Snooping

Module 4: PIM Sparse Mode

- Introducing Protocol Independent Multicast Sparse Mode

- Understanding PIM-SM Protocol Mechanics
- Using PIM-SM in a Sample Situation
- Configuring and Monitoring PIM-SM

Module 5: Rendezvous Point Engineering

- Identifying RP Distribution Solutions
- Implementing Auto-RP
- Using PIMv2 Bootstrap Router (BSR)
- Using Anycast RP and MSDP

Module 6: PIM Sparse Mode Protocol Extensions

- Introducing Source-Specific Multicast (SSM)
- Configuring and Monitoring SSM
- Reviewing Bidirectional PIM
- Configuring and Monitoring Bidirectional PIM

Module 7: Multiprotocol Extensions for BGP

- Introducing MP-BGP
- Configuring and Monitoring MP-BGP

Module 8: Interdomain IP Multicast

- Examining Dynamic Interdomain IP Multicast
- Explaining Multicast Source Discovery Protocol
- Using MSDP Source-Active (SA) Caching
- Configuring and Monitoring MSDP

Module 9: IP Multicast Security

- Introducing IP Multicast and Security
- Securing a Multicast Network

Module 10: Multicast Optimization and High-Availability Features

- Using Multicast Optimization and High-Availability Features

Module 11: Applications of Multicast

- Exploring IP Multicast and Video Applications

- Using IP Multicast in Mission-Critical Environments
- Exploring How Enterprise IT Uses IP Multicasting Globally

Course Schedule

Date	Time	Price	Options
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