Implementing Cisco Multicast

Varighed: 5 Days   Kursus Kode: MCAST   Leveringsmetode: Virtuel deltagelse

Beskrivelse:

Implementing Advanced Cisco® IP Multicast (MCAST) Version 2.0 provides students with in-depth knowledge about the IP multicast building blocks that make this IP service deployable. Bandwidth and processing power are wasted when data is replicated and sent from a source to potential receivers multiple times. With IP multicast and a sophisticated group of protocols, information is delivered with minimal effects on bandwidth and processor load. This IP service helps ensure simultaneous information delivery only to the people and the machines that require the information

Virtuel deltagelse

Et V&C Select kursus indholder nøjagtig det samme som et almindeligt kursus. Før kursusstart modtager man kursusmaterialet. Dernæst logger man på kurset via internettet og ser via sin pc den selvsamme præsentation som de øvrige deltagere, man kommunikerer via chat med underviseren og de øvrige deltagere på kurset. Denne uddannelsesmodel er både tids-og omkostningsbesparende og kan være et oplagt alternativ til almindelig klasseundervisning, hvis man f.eks. har et begrænset rejsebudget.

Målgruppe:

The course is targeted at presales and postsales technical support engineers who have to design and implement IP multicast in their networks

Agenda:

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

- Explain the benefits of multicasting

- List various types of multicast applications and their requirements

- Identify the addressing issues of IP multicasting

- Explain the way multicast applications work and identify the prerequisites that have to be fulfilled for an implementation

- Explain the principles and detailed operation of different Protocol Independent Multicast (PIM) modes

- Describe the variants of PIM sparse mode (bidirectional PIM environments and Source Specific Multicast)

- Select multicast protocols for different environments

- Describe the deployment of multicast in Border Gateway Protocol (BGP) environments

- Describe multicast deployment in Multiprotocol Label Switching (MPLS) VPN environments

Forudsætninger:

Following are the prerequisites for this course.

- Completion of BSCI, Building Scalable Cisco Internetworks
- CCNA - Implementing and Administering Cisco Solutions
- ENCOR - Implementing and Operating Cisco Enterprise Network Core Technologies

Test og certificering

This course, along with QOS is recommended in the preparation for the MCAST + QOS exam (Cisco test no. 640-905).

Counts towards:
Cisco Certified Internetwork Professional (CCIP)

Yderligere Kurser:
- NAC – Network Admission ControlCANAC –
- Implementing Network Appliance (Cisco Clean Access)

Indhold:

- Multicast Service Model
- Distribution Trees and Forwarding
- MAC Layer Addressing
- Internet Group Management Protocol (IGMP)
- Cisco Group Management Protocol (Cisco GMP)
- PIM Sparse Mode
- Bidirectional PIM
- Source Specific Multicast
- Rendezvous Points (RPs) and Auto-RP
- Anycast RP
- Multicast Border Gateway Protocol (MBGP)
- Multicast Source Discovery Protocol (MSDP)
- Multicast VPNs
- Security
- Video Applications
- Lab Outline
- The lab outline is as follows:
- Layer 2/3 Multicast
- PIM Sparse Mode Protocol Basics
- PIM Sparse Mode Protocol Mechanics
- Bidirectional PIM
- Source Specific Multicast
- PIM Sparse-Dense Mode and Manual RP Configuration
- Configuring Dynamic RP Information Distribution
- Anycast RP and External MBGP/MSDP Peering
- Configuring IP Multicast Support for MPLS VPNs

Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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