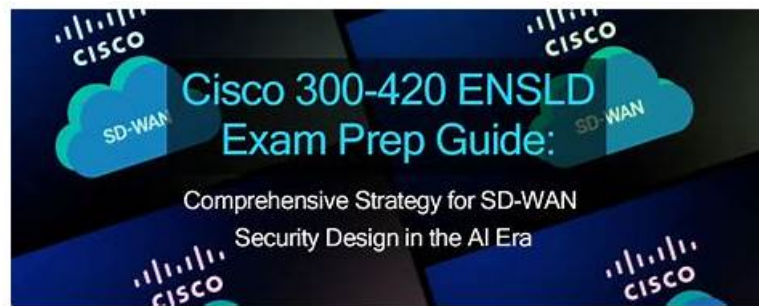


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Cisco Designing Cisco Enterprise Networks Sample Questions (Q77-Q82):

NEW QUESTION # 77

A company wants to enable several third-party video conferencing networks based on multicast services. The video conferencing platform can accommodate numerous and dispersed senders and receivers in third-party networks. The interior routing protocol is OSPF and the exterior routing protocol is BGP. Which multicast mode must be selected to achieve this goal?

- A. Set IGMPv2.

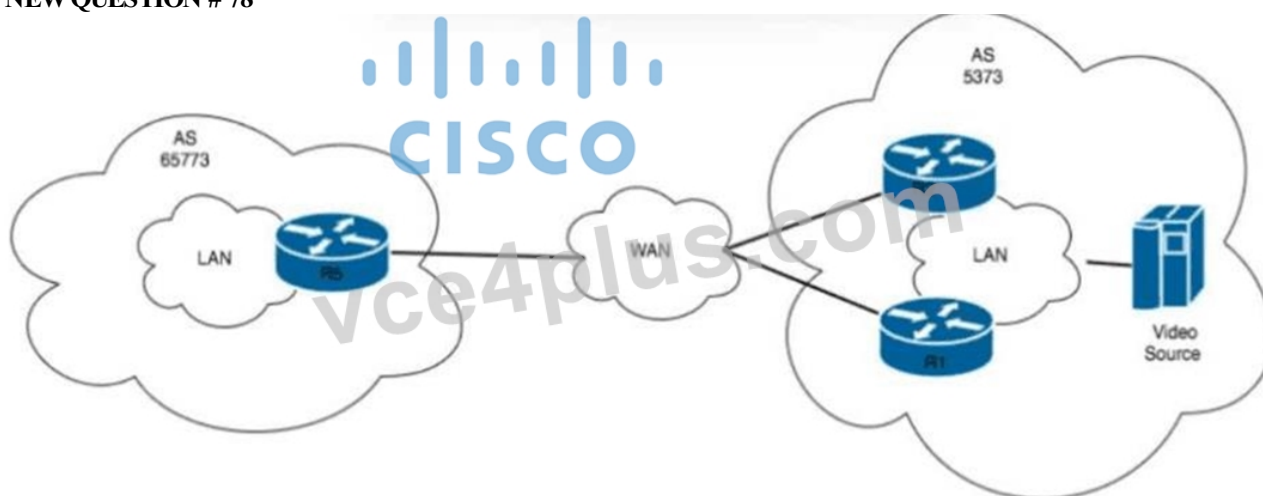
- B. Enable MP-BGP
- C. Configure MSDP
- **D. Enable BIDIR-PIM**

Answer: D

Explanation:

BIDIR-PIM is the correct multicast mode for a video conferencing environment with numerous dispersed senders and receivers. Bidirectional PIM is designed for many-to-many multicast applications where receivers may also transmit and where maintaining per-source trees would create unnecessary state and control-plane overhead. Instead of building a shortest-path tree for every source, BIDIR-PIM uses a shared tree rooted at the rendezvous point and forwards traffic bidirectionally. This makes it attractive for collaborative applications and conferencing scenarios with many active participants. MP-BGP can carry multicast VPN or multicast routing information in service-provider designs, but it is not itself the multicast forwarding mode for this requirement. MSDP is used to exchange source information between PIM-SM domains, not to optimize many-to-many forwarding within the multicast design. IGMPv2 handles host membership signaling on local segments and does not provide the routed multicast mode. Reference topics: BIDIR-PIM, many-to-many multicast, shared tree, video conferencing multicast, PIM design.

NEW QUESTION # 78



Refer to the exhibit. A company specializing in VoD content creation has two offices in a separate multicast domain connected by a WAN link. BGP communication has been established between the offices. Clients are inside the LAN in each office. In AS5373, R2 has been selected as RP. What must the network architect design to deliver VoD content to clients in AS65773?

- A. PIM ASM with BSR
- **B. MSDP**
- C. PIM ASM with Auto-RP
- D. PIM SSM

Answer: B

Explanation:

MSDP is required because the design connects separate PIM-SM multicast domains and needs multicast source discovery across domain boundaries. In each autonomous system, receivers join a multicast group through the local rendezvous point. Without MSDP, an RP in one domain does not automatically learn about active sources registered to an RP in another domain. MSDP allows RPs to exchange Source-Active information so that receivers in AS65773 can learn about VoD sources in AS5373 and build the required multicast forwarding state. Auto-RP and BSR are mechanisms for discovering or advertising rendezvous point information inside a PIM domain; they do not solve interdomain source discovery between separate multicast domains. PIM SSM can work for source-specific applications, but the question states that R2 has been selected as RP, which indicates an ASM/PIM-SM design. With BGP already established between offices, MSDP complements the interdomain routing design by exchanging multicast source reachability information.

Reference topics: MSDP, PIM-SM, interdomain multicast, Source-Active messages, rendezvous point resilience.

NEW QUESTION # 79

A company uses cloud-based applications for voice and video calls, file sharing, content sharing, and messaging. During business

hours, these applications randomly become slow and unresponsive. However, other applications work smoothly with the current applied QoS polices. Which solution must the company choose to resolve the issue?

- A. Identify the application ports, create groupings, and rate-limit the required bandwidth.
- B. Identify the port used by each application and apply a minimum bandwidth guarantee.
- C. Identify the applications with NBAR2 and allocate the required bandwidth accordingly.
- D. Identify the applications and reserve the required bandwidth on the perimeter routers.

Answer: C

Explanation:

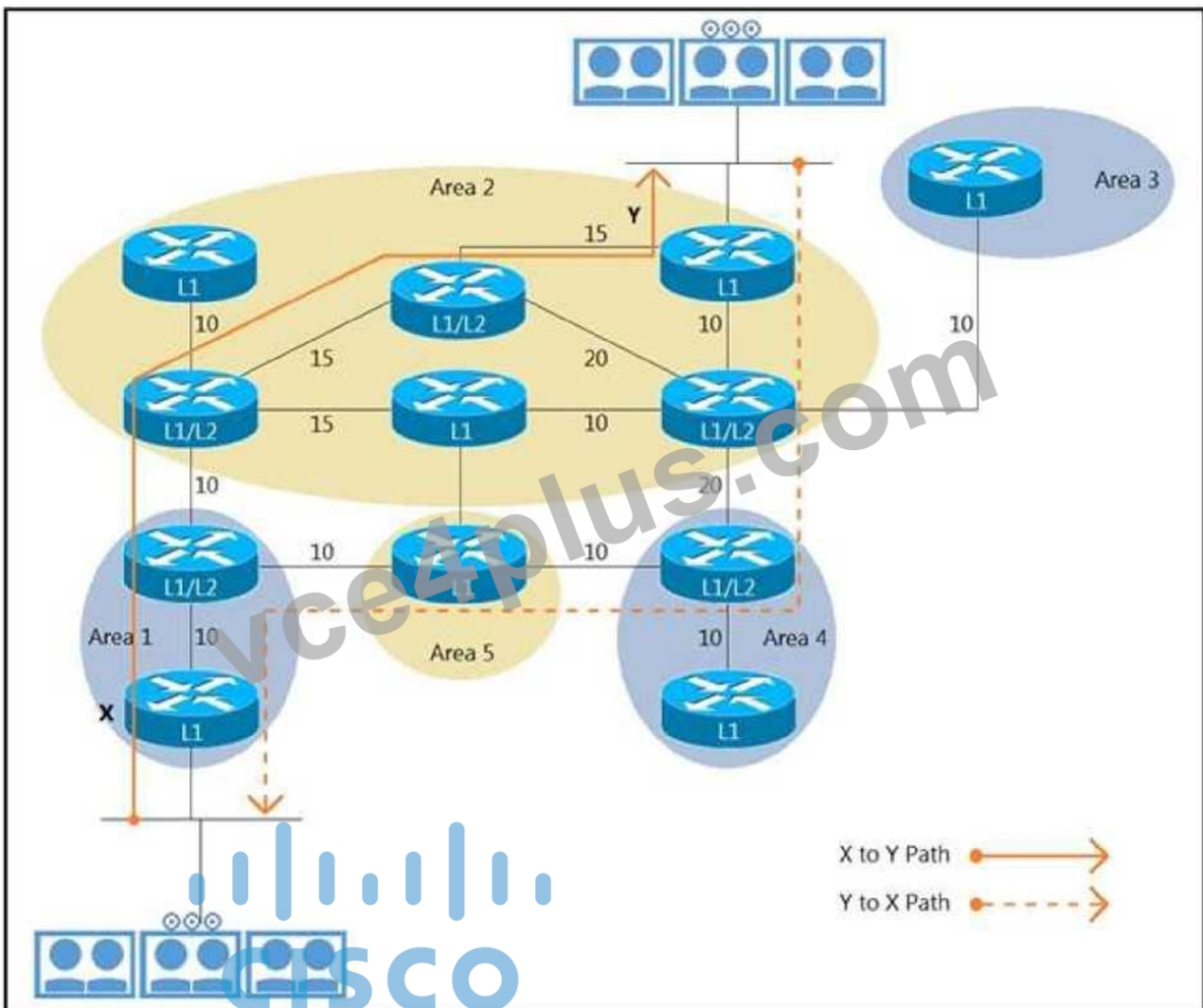
using NBAR to identify application and bandwidth usage, then adjust existing QoS polices would be a more simple option. Of course, B is still ok if the network admin know all traffic and bandwidth consumption by other tools, say netflow.

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_nbar/configuration/15-ml/qos-nbar-15-ml-book/nbar-protocol-discvry.html#GUID-ED1AEDA1-AE69-45C3-A77E-2AF881CA9C36

<https://www.cisco.com/c/en/us/products/ios-nx-os-software/network-based-application-recognition-nbar/index.html>

NEW QUESTION # 80

Refer to the exhibit.



Refer to the exhibit. Customers report low video quality and delays when having point-to-point telepresence video calls between the two locations. An architect must optimize a design so that traffic follows the same path for egress and ingress traffic flows. Which technique optimizes the design?

- A. Configure the high metric on the router in area 4.
- B. Configure route filter on the router in area 4.
- C. Configure route leaking on the router in area 2.

