

300-420 Dumps

Designing Cisco Enterprise Networks (ENSLD)

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NEW QUESTION 1

An engineer is working for a large cable TV provider that requires multiple sources streaming video on different channels using multicast with no rendezvous point. Which multicast protocol meets these requirements?

- A. PIM-SM
- B. PIM-SSM
- C. any-source multicast
- D. BIDIR-PIM

Answer: D

NEW QUESTION 2

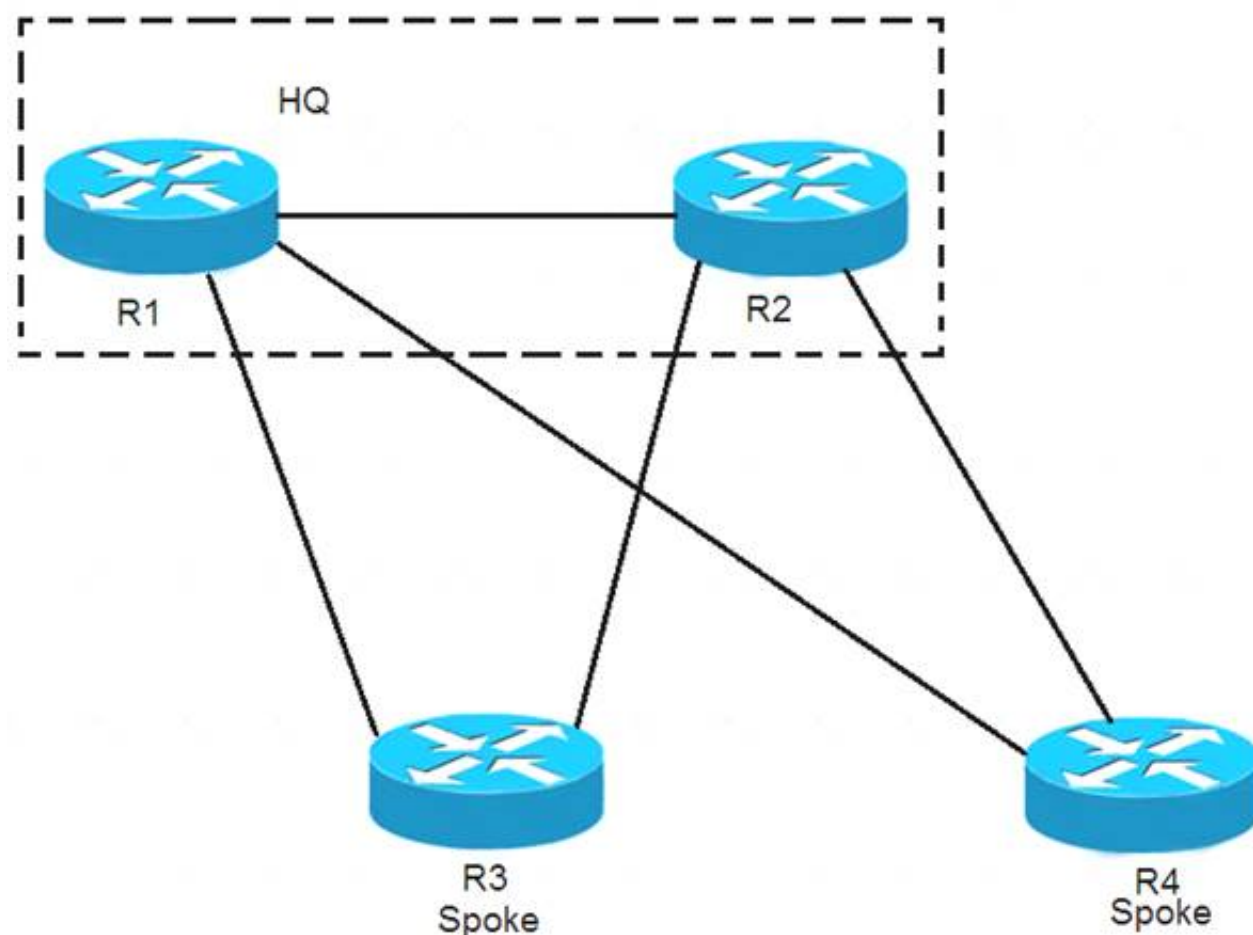
Which OSPF area blocks LSA Type 3, 4 and 5, but allows a default summary route?

- A. normal
- B. stub
- C. NSSA
- D. totally stubby

Answer: D

NEW QUESTION 3

Refer to the exhibit.



EIGRP has been configured on all links. The spoke nodes have been configured as EIGRP stubs, and the WAN links to R3 have higher bandwidth and lower delay than the links to R4. When a link failure occurs at the R1-R2 link, what happens to traffic on R1 that is destined for a subnet attached to R2?

- A. R1 has no route to R2 and drops the traffic
- B. R1 load-balances across the paths through R3 and R4 to reach R2
- C. R1 forwards the traffic to R3, but R3 drops the traffic
- D. R1 forwards the traffic to R3 in order to reach R2

Answer: D

NEW QUESTION 4

Which design consideration must be made when dual vEdge routers are deployed at a branch site?

- A. Use BGP AS-path prepending to influence egress traffic and use MED to influence ingress traffic from the branch.
- B. HSRP priorities must match the OMP routing policy to prefer one vEdge over the other.
- C. Traffic must be symmetrical as it egresses the vEdges and returns from remote sites for DPI to function properly.
- D. Configure BFD between vEdge routers to detect sub-second link failures.

Answer: A

NEW QUESTION 5

Which solution allows overlay VNs to communicate with each other in an SD-WAN Architecture?

- A. External fusion routers can be used to map VNs to VRFs and selectively route traffic between VRFs.
- B. GRE tunneling can be configured between fabric edges to connect one VN to another.

- C. SGTs can be used to permit traffic from one VN to another.
- D. Route leaking can be used on the fabric border nodes to inject routes from one VN to another.

Answer: B

NEW QUESTION 6

An engineer must design a multicast network for a financial application. Most of the multicast sources also receive multicast traffic (many-to-many deployment model). To better scale routing tables, the design must not use source trees. Which multicast protocol satisfies these requirements?

- A. PIM-SSM
- B. PIM-SM
- C. MSDP
- D. BIDIR-PIM

Answer: B

NEW QUESTION 7

A branch office has a primary L3VPN MPLS connection back to the main office and an IPSEC VPN tunnel that serves as backup. Which design ensures that data is sent over the backup connection only if the primary MPLS circuit is down?

- A. Use EIGRP to establish a neighbor relationship with the main office via L3VPN MPLS and the IPSECVPN tunnel.
- B. Use BGP with the multipath feature enabled to force traffic via the primary path when available.
- C. Use static routes tied to an IP SLA to prefer the primary path while a floating static route points to the backup connection.
- D. Use OSPF with a passive-interface command on the backup connection.

Answer: C

NEW QUESTION 8

Which two best practices must be followed when designing an out-of-band management network? (Choose two.)

- A. Enforce access control
- B. Facilitate network integration
- C. Back up data using the management network
- D. Ensure that the management network is a backup to the data network
- E. Ensure network isolation

Answer: AE

NEW QUESTION 9

Drag and drop the properties from the left onto the protocols they describe on the right.

HTTPS-based

SSH-based

built to support candidate configuration

lacks support for two-phase commit transactions

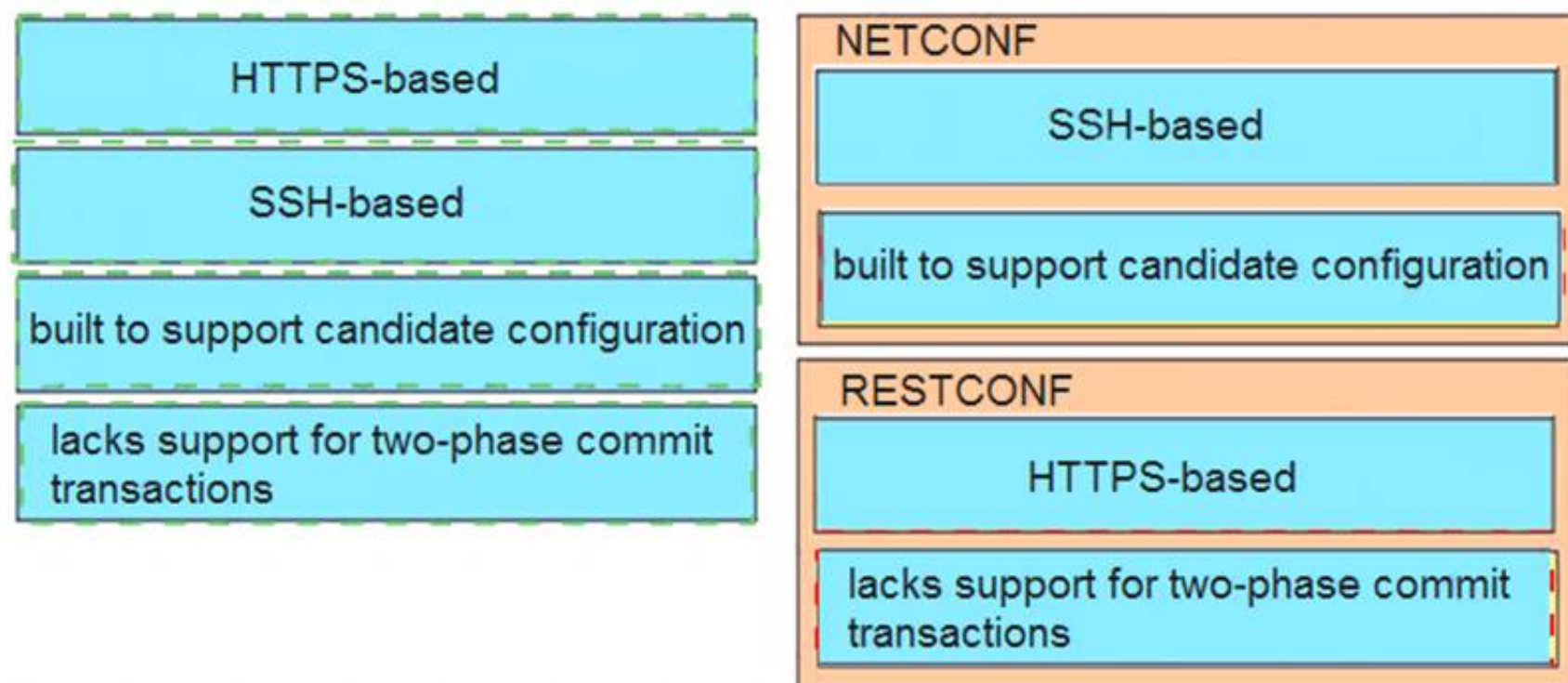
NETCONF

RESTCONF

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 10

Which nonproprietary mechanism can be used to automate rendezvous point distribution in a large PIM domain?

- A. Embedded RP
- B. BSR
- C. Auto-RP
- D. Static RP

Answer: B

NEW QUESTION 10

When a network is designed using IS-IS protocol, which two circuit types are supported? (Choose two.)

- A. nonbroadcast multiaccess
- B. multiaccess
- C. point-to-multipoint
- D. nonbroadcast
- E. point-to-point

Answer: BE

NEW QUESTION 13

An engineer must design a VPN solution for a company that has multiple branches connecting to a main office. What are two advantages of using DMVPN instead of IPsec tunnels to accomplish this task? (Choose two.)

- A. support for AES 256-bit encryption
- B. greater scalability
- C. support for anycast gateway
- D. lower traffic overhead
- E. dynamic spoke-to-spoke tunnels

Answer: BE

NEW QUESTION 16

Which function are fabric intermediate nodes responsible for in an SD-Access Architecture?

- A. mapping EIDs to RLOCs
- B. encapsulating user traffic in a VXLAN header including the SGT
- C. registering new endpoints in the HTDB
- D. transporting IP packets between edge nodes and border nodes

Answer: D

NEW QUESTION 18

Which feature is required for graceful restart to recover from a processor failure?

- A. Cisco Express Forwarding
- B. Virtual Switch System
- C. Stateful Switchover
- D. Bidirectional Forwarding Detection

Answer: A

NEW QUESTION 23

What is the purpose of an edge node in an SD-Access network fabric?

- A. Edge nodes identify and authenticate endpoints and register endpoint information with control plane nodes.
- B. Edge nodes track endpoint IDs to location mappings, along with IPv4, IPv6, or MAC addresses.
- C. Edge nodes are the gateway between the fabric domain and network outside of the fabric.
- D. Edge nodes resolve lookup requests from edge and border nodes to locate destination endpoint IDs.

Answer: A

NEW QUESTION 24

Which design consideration should be observed when EIGRP is configured on Data Center switches?

- A. Perform manual summarization on all Layer 3 interfaces to minimize the size of the routing table.
- B. Prevent unnecessary EIGRP neighborships from forming across switch virtual interfaces.
- C. Lower EIGRP hello and hold timers to their minimum settings to ensure rapid route reconvergence.
- D. Configure multiple EIGRP autonomous systems to segment Data Center services and applications.

Answer: A

NEW QUESTION 28

A customer is discussing QoS requirements with a network consultant. The customer has specified that endto- end path verification is a requirement. Which QoS solution meets this requirement?

- A. IntServ model with RSVP to support the traffic flows
- B. DiffServ model with PHB to support the traffic flows
- C. marking traffic at the access layer with DSCP to support the traffic flows
- D. marking traffic at the access layer with CoS to support the traffic flows

Answer: A

NEW QUESTION 30

Which design consideration must be made when using IPv6 overlay tunnels?

- A. Overlay tunnels that connect isolated IPv6 networks can be considered a final IPv6 network architecture.
- B. Overlay tunnels should only be considered as a transition technique toward a permanent solution.
- C. Overlay tunnels can be configured only between border devices and require only the IPv6 protocol stack.
- D. Overlay tunneling encapsulates IPv4 packets in IPv6 packets for delivery across an IPv6 infrastructure.

Answer: C

NEW QUESTION 32

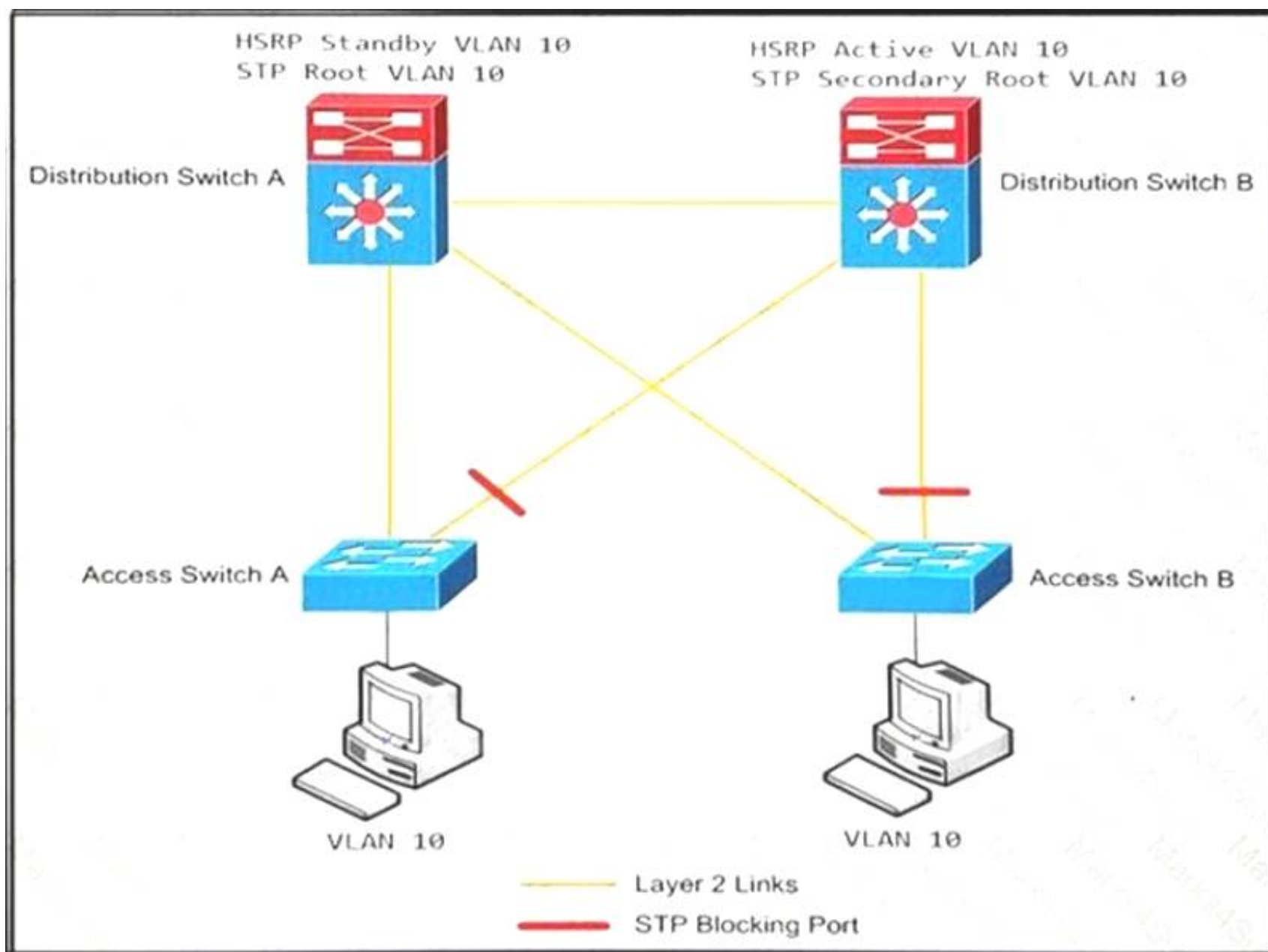
How do endpoints inside an SD-Access network reach resources outside the fabric?

- A. a VRF fusion router is used to map resources in one VN to another VN
- B. Fabric borders use VRFs to map VNs to VRFs
- C. SD-Access transit links are used to transport encapsulated traffic from one fabric to another
- D. A fabric edge is used to de-encapsulate VXLAN traffic to normal IP traffic then transported over the outside network

Answer: D

NEW QUESTION 33

Refer to the exhibit.



An engineer must optimize the traffic flow of the network. Which change provides a more efficient design between the access and the distribution layer?

- A. Add a link between access switch A and access switch B
- B. Reconfigure the distribution switch A to become the HSRP Active
- C. Change the link between distribution switch A and distribution switch B to be a routed link
- D. Create an EtherChannel link between distribution switch A and distribution switch B

Answer: B

NEW QUESTION 37

A network solution is being designed for a company that connects to multiple Internet service providers. Which Cisco proprietary BGP path attribute will influence outbound traffic flow?

- A. Local Preference
- B. MED
- C. Weight
- D. AS Path
- E. Community

Answer: C

NEW QUESTION 42

Which NETCONF operation creates filtering that is specific to the session notifications?

- A. <create-subscription>
- B. <commit>
- C. <notification>
- D. <logging>

Answer: A

NEW QUESTION 46

A router running ISIS is showing high CPU and bandwidth utilization. An engineer discovers that the router is configured as L1/L2 and has L1 and L2 neighbors. Which step optimizes the design to address the issue?

- A. Make this router a DIS for each of the interfaces
- B. Disable the default behavior of advertising the default route on the L1/L2 router
- C. Configure the router to be either L1 or L2
- D. Configure each interface as either L1 or L2 circuit type

Answer: D

NEW QUESTION 47

Drag and drop the characteristics from the left onto the correct telemetry mode on the right.

The collector initiates a session to the device	Dial-In
supports TCP, UDP, and gRPC	
The device initiates a session to the collector	
supports gRPC only	Dial-Out

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

In a dial-in mode, the destination initiates a session to the router and subscribes to data to be streamed. Dialin mode is supported over gRPC in only 64-bit platforms

In a dial-out mode, the router initiates a session to the destinations based on the subscription. All 64-bit IOS XR platforms (except for NCS 6000 series routers) support gRPC and TCP protocols. All 32-bit IOS XR platforms support only TCP.

NEW QUESTION 50

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