Cisco

Exam Questions 300-420

Designing Cisco Enterprise Networks (ENSLD)

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 control-plane technology allows the same subnet to exist across multiple network locations?

A. LISP
B. VXLAN
C. FabricPath
D. ISE mobility services

Answer: B

NEW QUESTION 3
When vEdge router redundancy is designed, which FHRP is supported?

A. HSRP
B. OMP
C. GLBP
D. VRRP

Answer: D

NEW QUESTION 4
What are two valid scaling techniques when an EIGRP network is designed that consists of more than 1000 routers? (Choose two.)

A. Use structured hierarchical topology with route summarization
B. Used sub-second timers
C. Use the distribute-list command to filter routes
D. Modify delay parameters on the links
E. Implement multiple EIGRP autonomous systems

Answer: AE

NEW QUESTION 5
What is an advantage of designing an out-of-band network management solution?

A. In the event of a production network outage, network devices can still be managed.
B. There is no separation between the production network and the management network.
C. In the event of a production network outage, it can be used as a backup network path.
D. It is less expensive than an in-band management solution

Answer: A

NEW QUESTION 6
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
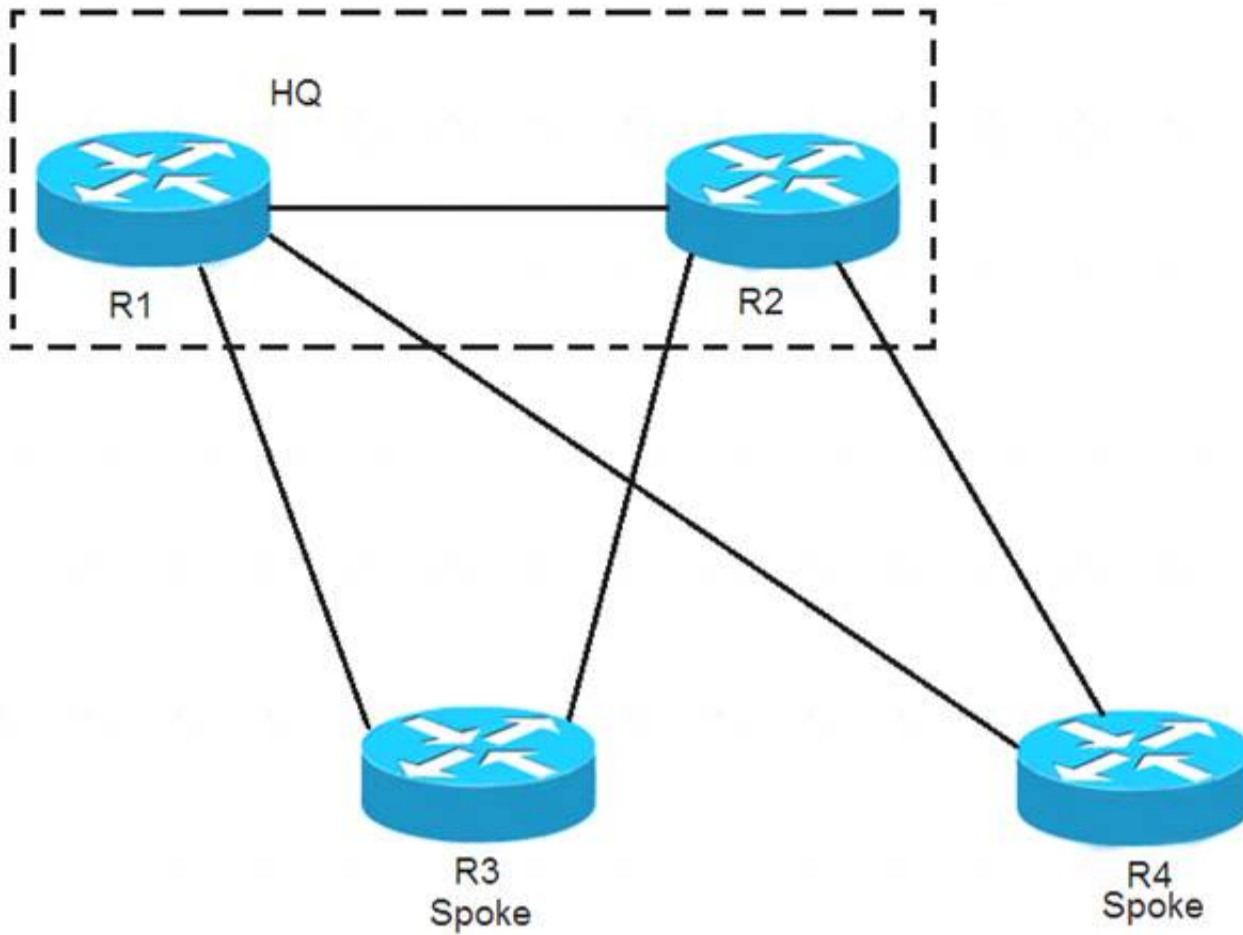
Answer: D

NEW QUESTION 7
When a first hop redundancy solution is designed, which protocol ensures that load balancing occurs over multiple routers using a single virtual IP address and multiple virtual MAC addresses?

A. GLBP
B. IRDP
C. VRRP
D. HSRP

Answer: A

NEW QUESTION 8
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 9
Which QoS feature responds to network congestion by dropping lower priority packets?

A. CBWFQ
B. tail drop
C. WRED
D. strict priority
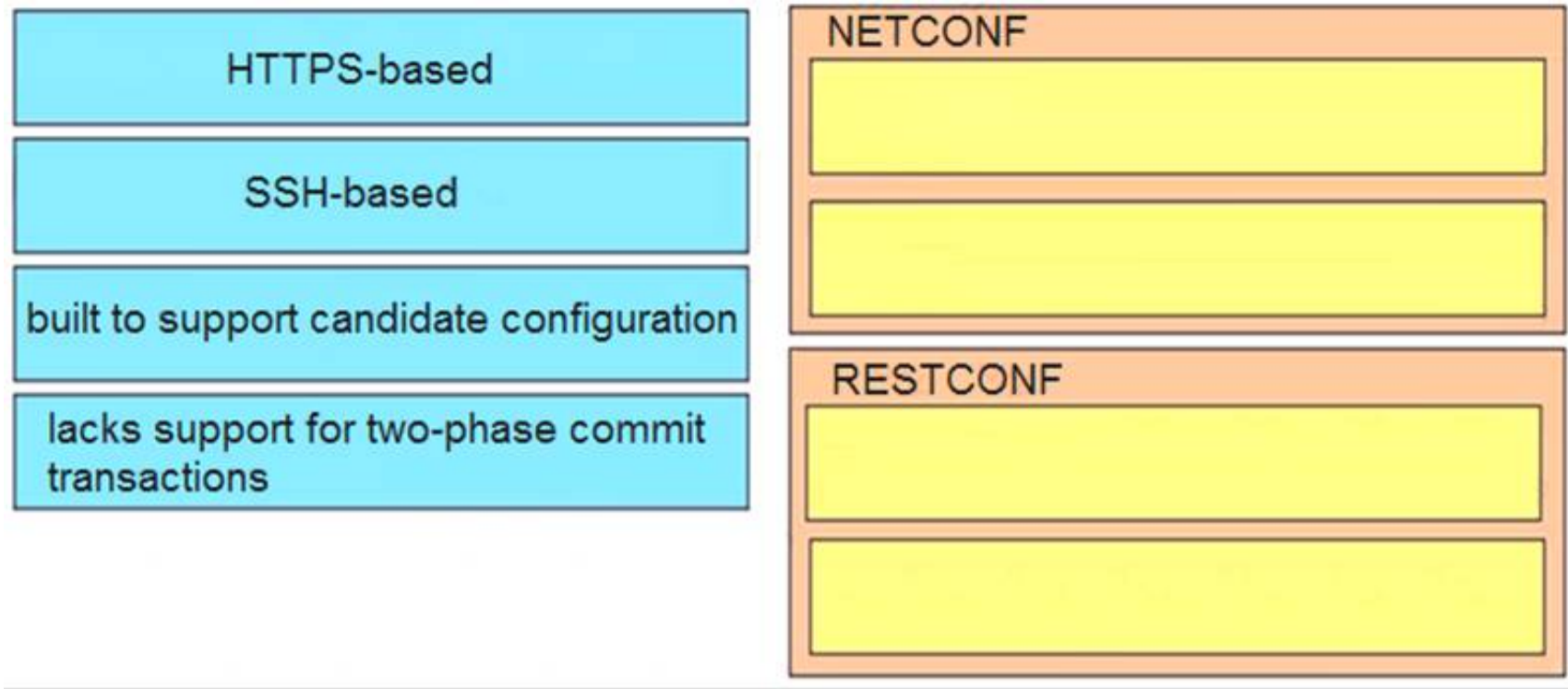
Answer: C

NEW QUESTION 10
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
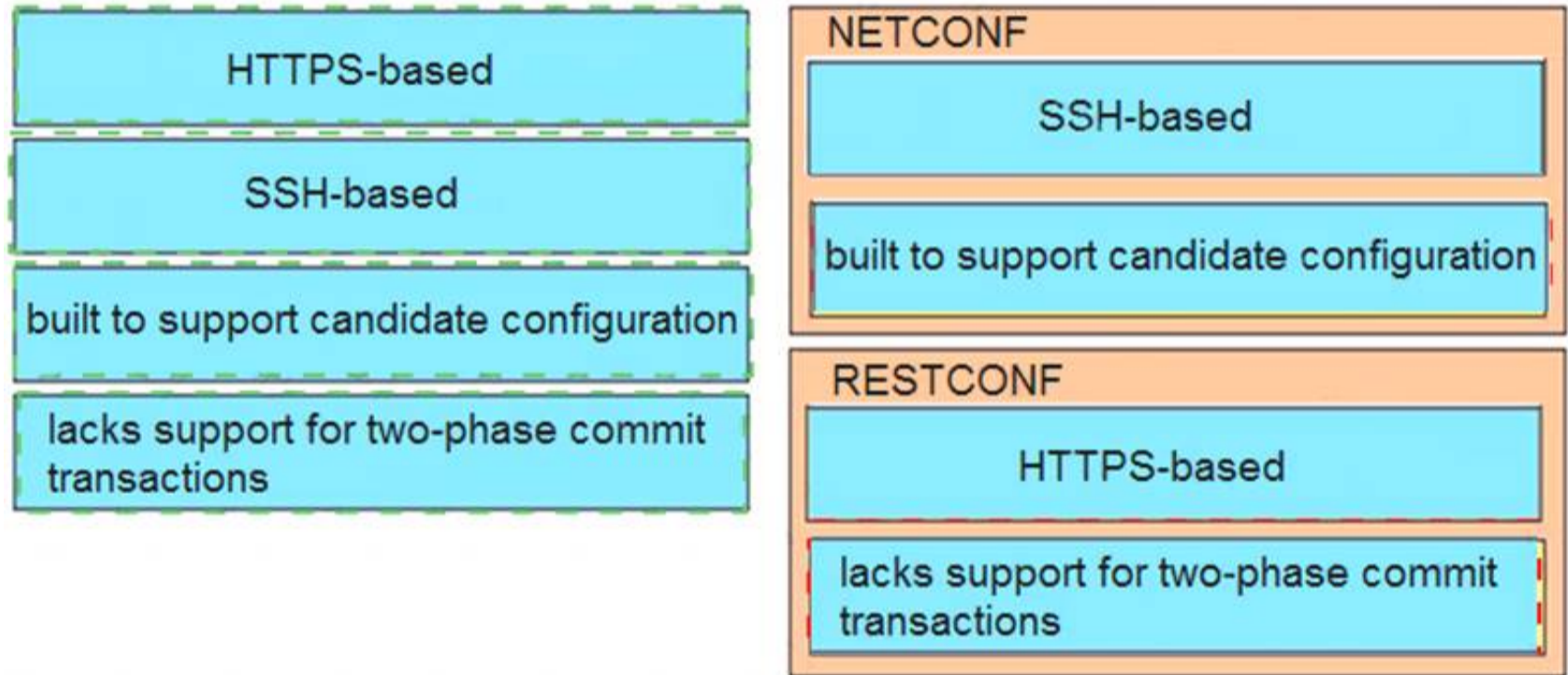C. MSDP
D. BIDIR-PIM

Answer: B

NEW QUESTION 10
Drag and drop the properties from the left onto the protocols they describe on the right.

	NETCONF
HTTPS-based	
SSH-based	
built to support candidate configuration	
lacks support for two-phase commit transactions	RESTCONF

A. Mastered
B. Not Mastered

Answer: A

Explanation:

	NETCONF
HTTPS-based	SSH-based
SSH-based	built to support candidate configuration
built to support candidate configuration	RESTCONF
lacks support for two-phase commit transactions	HTTPS-based
	lacks support for two-phase commit transactions

NEW QUESTION 14
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 18
Which method will filter routes between EIGRP neighbors within the same autonomous system?

A. distribute-list
B. policy-based routing
C. leak-map
D. route tagging

Answer: A

NEW QUESTION 23
When designing interdomain multicast, which two protocols are deployed to achieve communication between multicast sources and receivers? (Choose two.)

A. IGMPv2
B. BIDIR-PIM
C. MP-BGP

D. MSDP
E. MLD

Answer: CD

NEW QUESTION 27
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 28
Which two routing protocols allow for unequal cost load balancing? (Choose two.)

A. EIGRP
B. IS-IS
C. BGP
D. OSPF
E. RIPng

Answer: AC

NEW QUESTION 30
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 35
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 39
Refer to the exhibit.
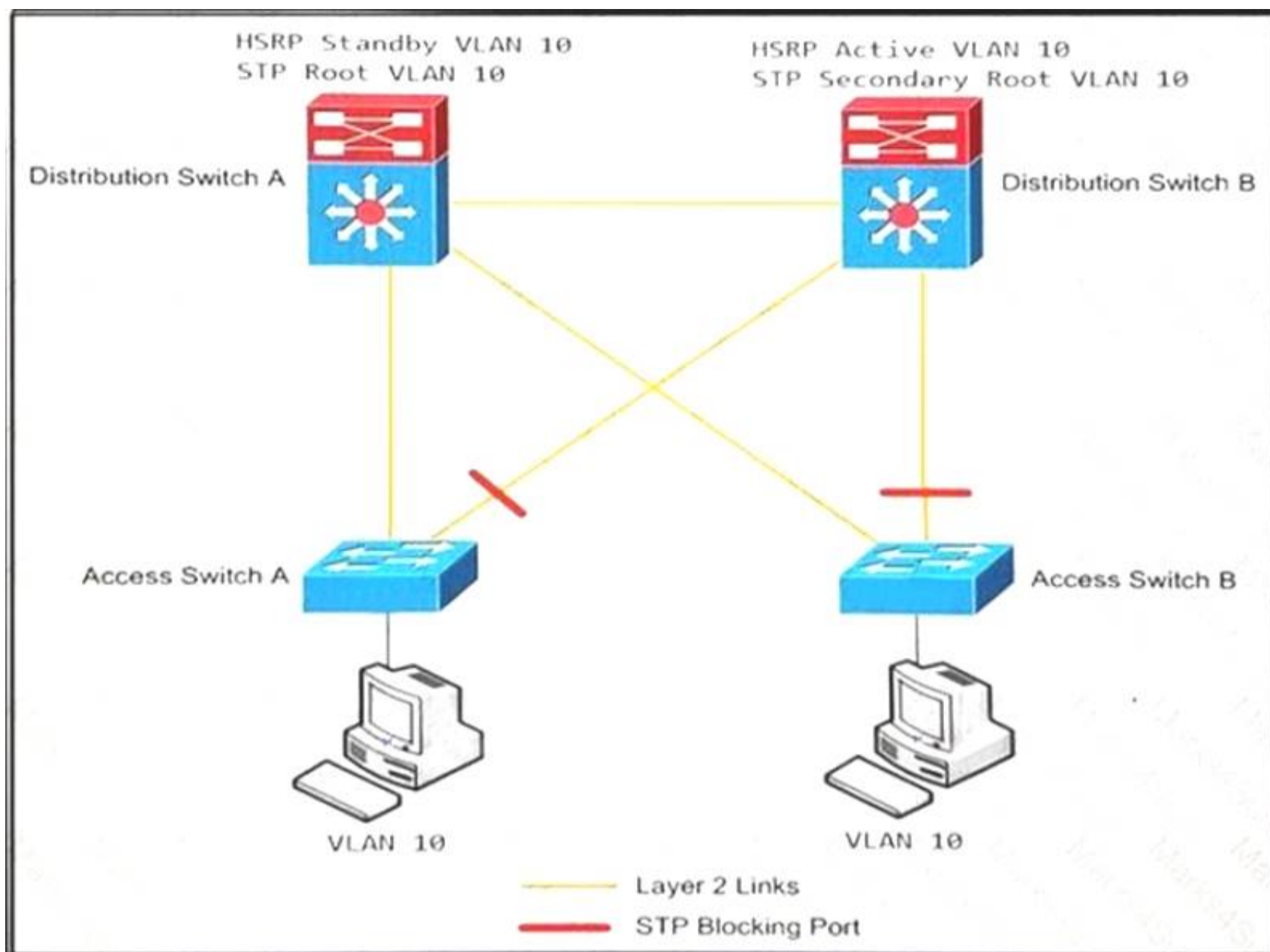
An engineer must optimize the traffic flow of the network. Which change provides a more efficient design between the access and the distribution layer?

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 44
Which two BGP features will result in successful route exchanges between eBGP neighbors sharing the same AS number? (Choose two.)

A. advertise-best-external
B. bestpath as-path ignore
C. client-to-client reflection
D. as-override
E. allow-as-in

Answer: DE

NEW QUESTION 49
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 52
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	Dial-Out
supports gRPC only	

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 53
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