

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

An engineer is designing a QoS policy that queues excess packets for later transmission. Which mechanism must be included in the design?

- A. shaping
- B. WRED
- C. policing
- D. RED

Answer: A

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

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 9

What is one function of the vSmart controller in an SD-WAN deployment?

- A. orchestrates vEdge and cEdge connectivity
- B. responsible for the centralized control plane of the SD-WAN network
- C. provides centralized network management and a GUI to monitor and operate the SD-WAN overlay
- D. provides a data-plane at branch offices to pass traffic through the SD-WAN network

Answer: B

NEW QUESTION 10

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 11

A network engineer must connect two sites across a public network using a secure tunneling technology that supports multicast traffic. Which technology must be chosen?

- A. IPsec
- B. GRE
- C. PPTP
- D. GRE over IPsec

Answer: D

NEW QUESTION 12

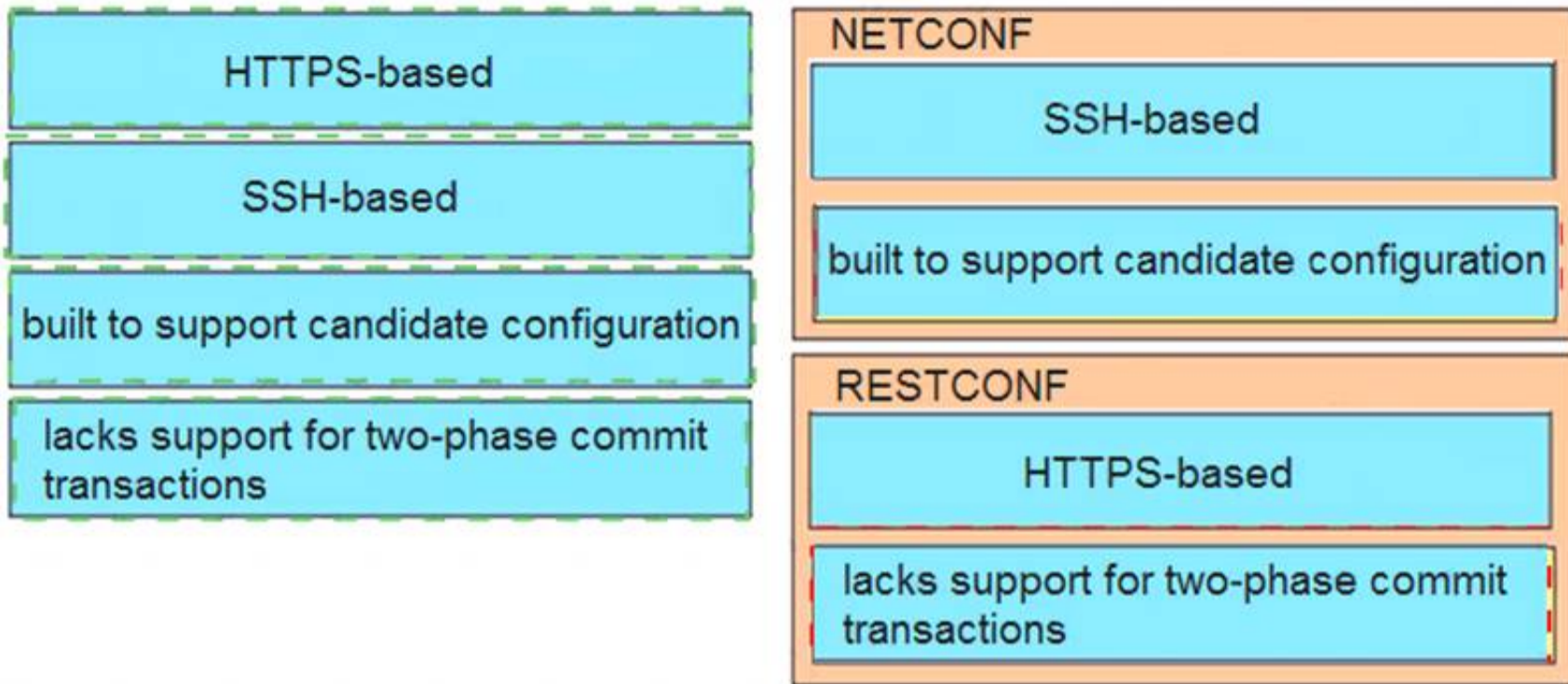
Drag and drop the properties from the left onto the protocols they describe on the right.

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 16

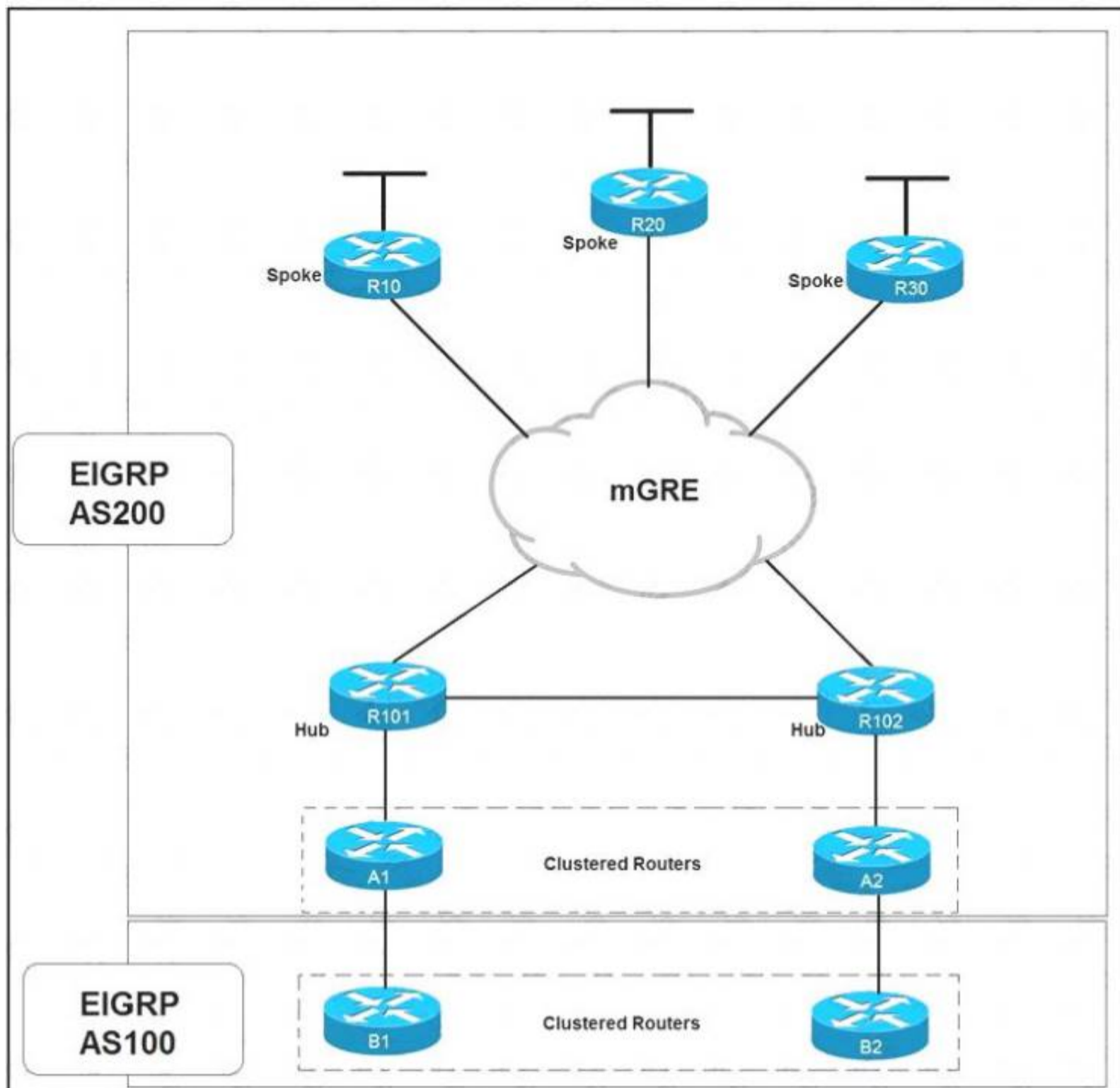
When designing interdomain multicast, which two protocols are deployed to achieve communication between multicast sources and receivers? (Choose two.)

- A. IGMPv2
- B. BIDIR-PIM
- C. MP-BGP
- D. MSDP
- E. MLD

Answer: CD

NEW QUESTION 18

Refer to the exhibit.



Which solution decreases the EIGRP convergence time?

- A. Enable subsecond timers
- B. Increase the hold time value
- C. Increase the dead timer value
- D. Enable stub routing on the spokes

Answer: D

NEW QUESTION 22

Which feature must be incorporated into the campus LAN design to enable Wake on LAN?

- A. dynamic ARP Inspection Snooping on layer 2 devices
- B. directed broadcasts on layer 3 devices
- C. proxy ARP on layer 3 devices
- D. DHCP Snooping on layer 2 devices

Answer: B

NEW QUESTION 27

Which two statements describe source trees in a multicast environment? (Choose two.)

- A. Source trees guarantee the minimum amount of network latency for forwarding multicast traffic
- B. Source trees create an optimal path between the source and the receivers
- C. Source trees use a single common root placed at some chosen point in the network
- D. Source trees can introduce latency in packet delivery
- E. Source trees can create suboptimal paths between the source and the receivers

Answer: AB

NEW QUESTION 32

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 36

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 38

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 41

A customer with an IPv4 only network topology wants to enable IPv6 connectivity while preserving the IPv4 topology services. The customer plans to migrate IPv4 services to the IPv6 topology, then decommission the IPv4 topology. Which topology supports these requirements?

- A. dual stack
- B. 6VPE
- C. 6to4
- D. NAT64

Answer: A

NEW QUESTION 46

A customer is discussing QoS requirements with a network consultant. The customer has specified that end-to-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 49

What are two benefits of designing an SD-WAN network fabric with direct Internet access implemented at every site? (Choose two.)

- A. It decreases latency to applications hosted by public cloud service provider.
- B. It decreases latency on Internet circuits.
- C. It increases the speed of delivery of site deployments through zero-touch provisioning.
- D. It increases the total available bandwidth on Internet circuits.
- E. It alleviates network traffic on MPLS circuits.

Answer: AE

NEW QUESTION 54

An engineer is working with NETCONF and Cisco NX-OS based devices. The engineer needs a YANG model that supports a specific feature relevant only to Cisco NX-OS. Which model must the engineer choose?

- A. Native
- B. IEEE
- C. OpenConfig
- D. IETF

Answer: D

NEW QUESTION 55

Which consideration must be taken into account when using the DHCP relay feature in a Cisco SD-Access Architecture?

- A. DHCP-relay must be enabled on fabric edge nodes to provide the correct mapping of DHCP scope to the local anycast gateway.
- B. A DHCP server must be enabled on the border nodes to allow subnets to span multiple fabric edges.

- C. DHCP servers must support Cisco SD-Access extensions to correctly assign IPs to endpoints in an SDAccess fabric with anycast gateway.
- D. DHCP Option-82 must be enabled to map the circuit IP option to the access fabric node where the DHCP discover originated.

Answer: A

NEW QUESTION 57

An engineer is looking for a standards-driven YANG model to manage a multivendor network environment. Which model must the engineer choose?

- A. Native
- B. OpenConfig
- C. IETF
- D. IEEE NETCONF

Answer: C

NEW QUESTION 60

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 61

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 65

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 70

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 <div style="background-color: yellow; height: 20px; margin-bottom: 5px;"></div> <div style="background-color: yellow; height: 20px; margin-bottom: 5px;"></div>
supports TCP, UDP, and gRPC	
The device initiates a session to the collector	Dial-Out <div style="background-color: yellow; height: 20px; margin-bottom: 5px;"></div> <div style="background-color: yellow; height: 20px; margin-bottom: 5px;"></div>
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 75

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