



## **Cisco**

### **Exam Questions 300-420**

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**

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 3**

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 4**

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 5**

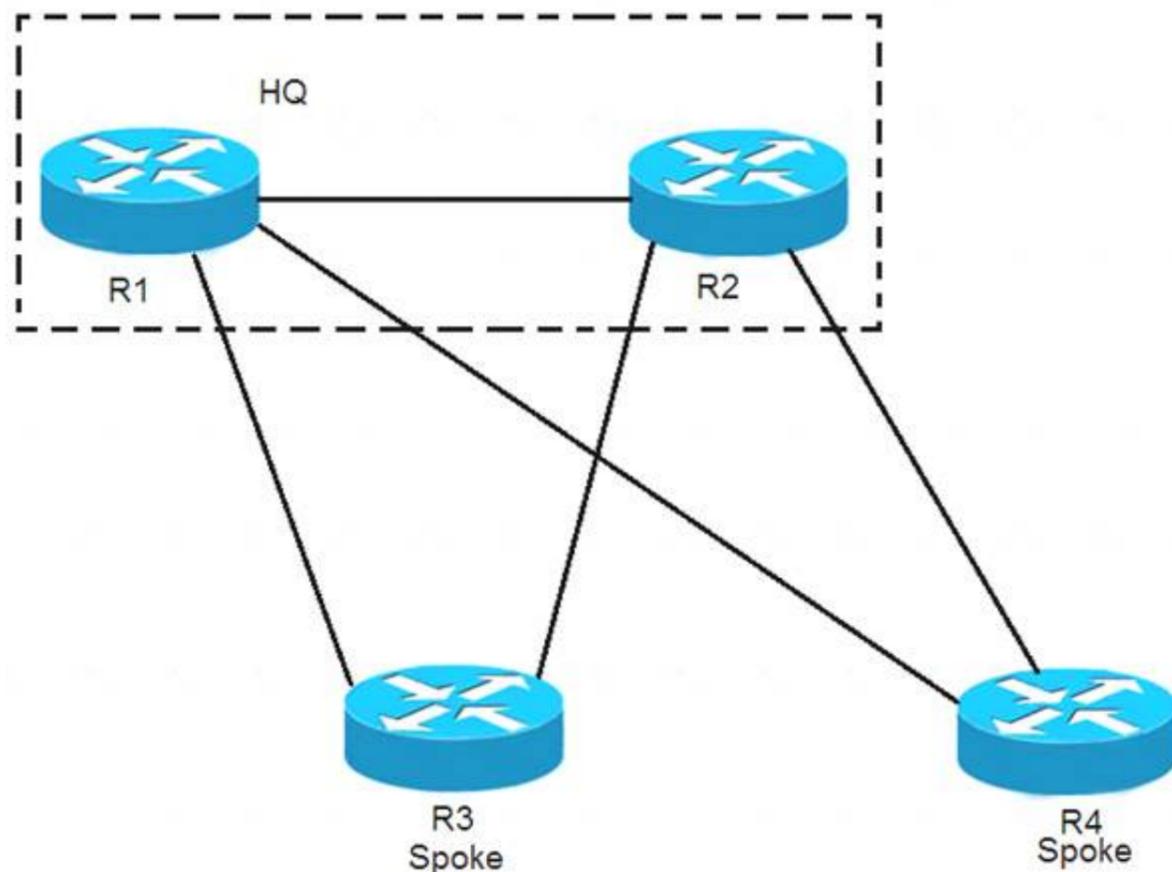
When a first hop redundancy solution is designed, which protocol ensures that load balancing occurs over multiple routers using a single virtual IP address and multiple virtual MAC addresses?

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

**Answer: A**

**NEW QUESTION 6**

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 7**

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 8**

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 9**

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 10**

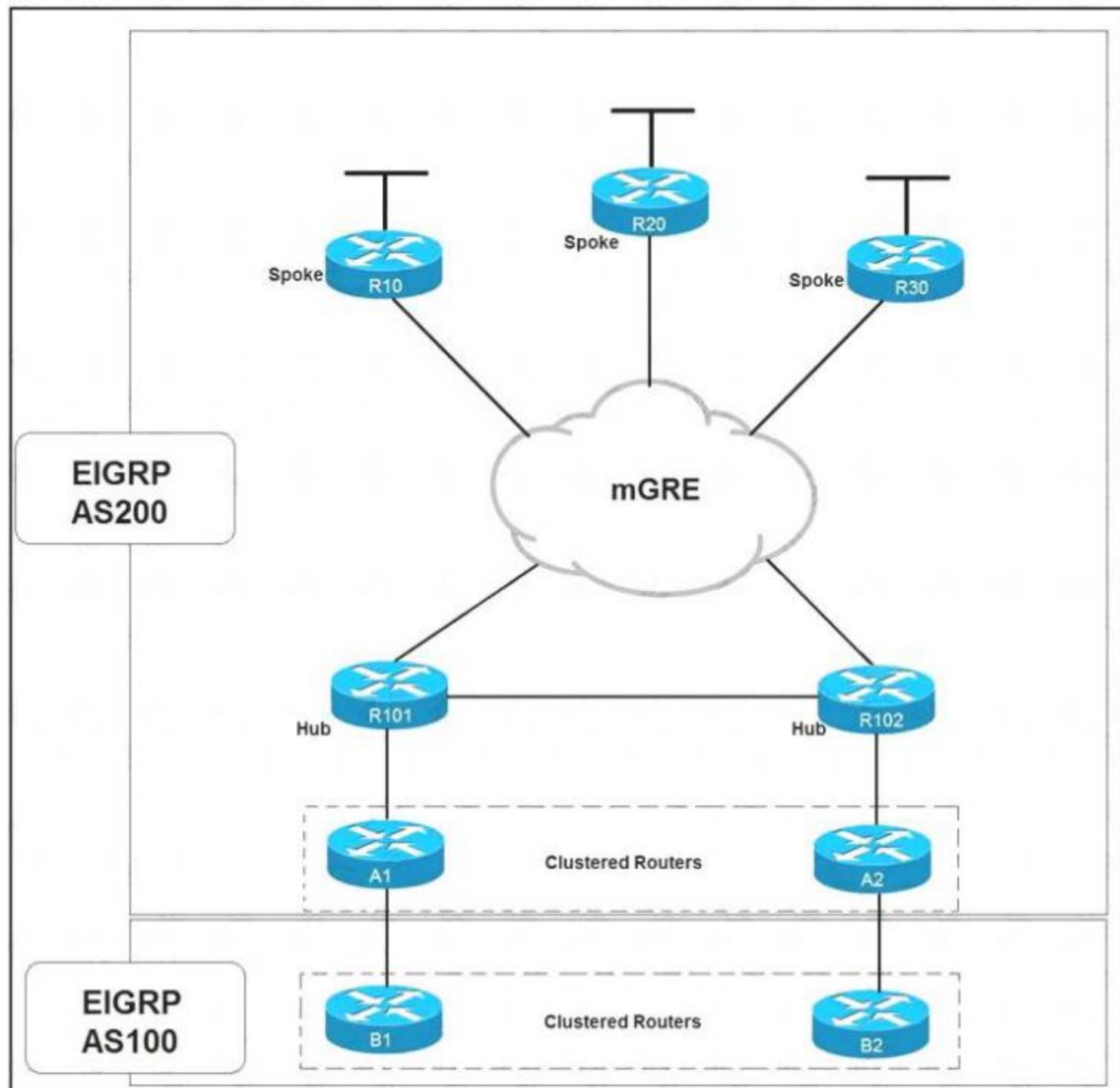
Which nonproprietary mechanism can be used to automate rendezvous point distribution in a large PIM domain?

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

Answer: B

**NEW QUESTION 10**

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 15**

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 18**

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 22

In an SD-WAN architecture, which methods are used to bootstrap a vEdge router?

- A. DHCP options or manual configuration
- B. vManage or DNS records
- C. ZTP or manual configuration
- D. DNS records or DHCP options

**Answer: C**

#### NEW QUESTION 27

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 31

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 32

When IPsec VPNs are designed, what is a unique requirement if support for IP Multicast is required?

- A. encapsulation of traffic with GRE or VTI
- B. IPsec forwarding using transport mode
- C. additional bandwidth for headend
- D. IPsec forwarding using tunnel mode

**Answer: A**

#### NEW QUESTION 37

An infrastructure team is concerned about the shared memory utilization of a device, and for this reason, they need to monitor the device state. Which solution limits impact on the device and provides the required data?

- A. IPFIX
- B. static telemetry
- C. on-change subscription
- D. periodic subscription

**Answer: A**

#### NEW QUESTION 42

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 45

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

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 49

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 50

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 53

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 57

An organization is designing a detailed QoS plan that limits bandwidth to specific rates. Which two parameters are supported by the traffic policing feature? (Choose two.)

- A. violating
- B. marking
- C. shaping
- D. bursting
- E. conforming

**Answer:** BC

#### NEW QUESTION 60

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 64

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 67

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