

Free PDF 2025 Cisco 300-420: First-grade Designing Cisco Enterprise Networks Test Voucher



Designing Cisco Enterprise Networks v1.0 [300-420]

Exam Description: Designing Cisco Enterprise Networks v1.0 (ENSLD 300-420) is a 90-minute exam associated with the CCNP Enterprise Certification. This exam certifies a candidate's knowledge of enterprise design including advanced addressing and routing solutions, advanced enterprise campus networks, WAN, security services, network services, and SDA. The course, Designing Cisco Enterprise Networks, helps candidates to prepare for this exam.

The following topics are general guidelines for the content likely to be included on the exam. However, other related topics may also appear on any specific delivery of the exam. To better reflect the contents of the exam and for clarity purposes, the guidelines below may change at any time without notice.

- 25%
 - 1.0 Advanced Addressing and Routing Solutions
 - 1.1 Create structured addressing plans for IPv4 and IPv6
 - 1.2 Create stable, secure, and scalable routing designs for IS-IS
 - 1.3 Create stable, secure, and scalable routing designs for EIGRP
 - 1.4 Create stable, secure, and scalable routing designs for OSPF
 - 1.5 Create stable, secure, and scalable routing designs for BGP
 - 1.5.a Address families
 - 1.5.b Basic route filtering
 - 1.5.c Attributes for path preference
 - 1.5.d Route reflectors
 - 1.5.e Load sharing
 - 1.6 Determine IPv6 migration strategies
 - 1.6.a Overlay (tunneling)
 - 1.6.b Native (dual-stacking)
 - 1.6.c Boundaries (IPv4/IPv6 translations)
- 25%
 - 2.0 Advanced Enterprise Campus Networks
 - 2.1 Design campus networks for high availability
 - 2.1.a First Hop Redundancy Protocols
 - 2.1.b Platform abstraction techniques
 - 2.1.c Graceful restart
 - 2.1.d BFD
 - 2.2 Design campus Layer 2 infrastructures
 - 2.2.a STP scalability
 - 2.2.b Fast convergence
 - 2.2.c Loop-free technologies
 - 2.2.d PoE and WoL
 - 2.3 Design multicampus Layer 3 infrastructures

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Cisco Designing Cisco Enterprise Networks Sample Questions (Q167-Q172):

NEW QUESTION # 167

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. additional bandwidth for headend
- C. IPsec forwarding using tunnel mode
- D. IPsec forwarding using transport mode

Answer: A

NEW QUESTION # 168

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

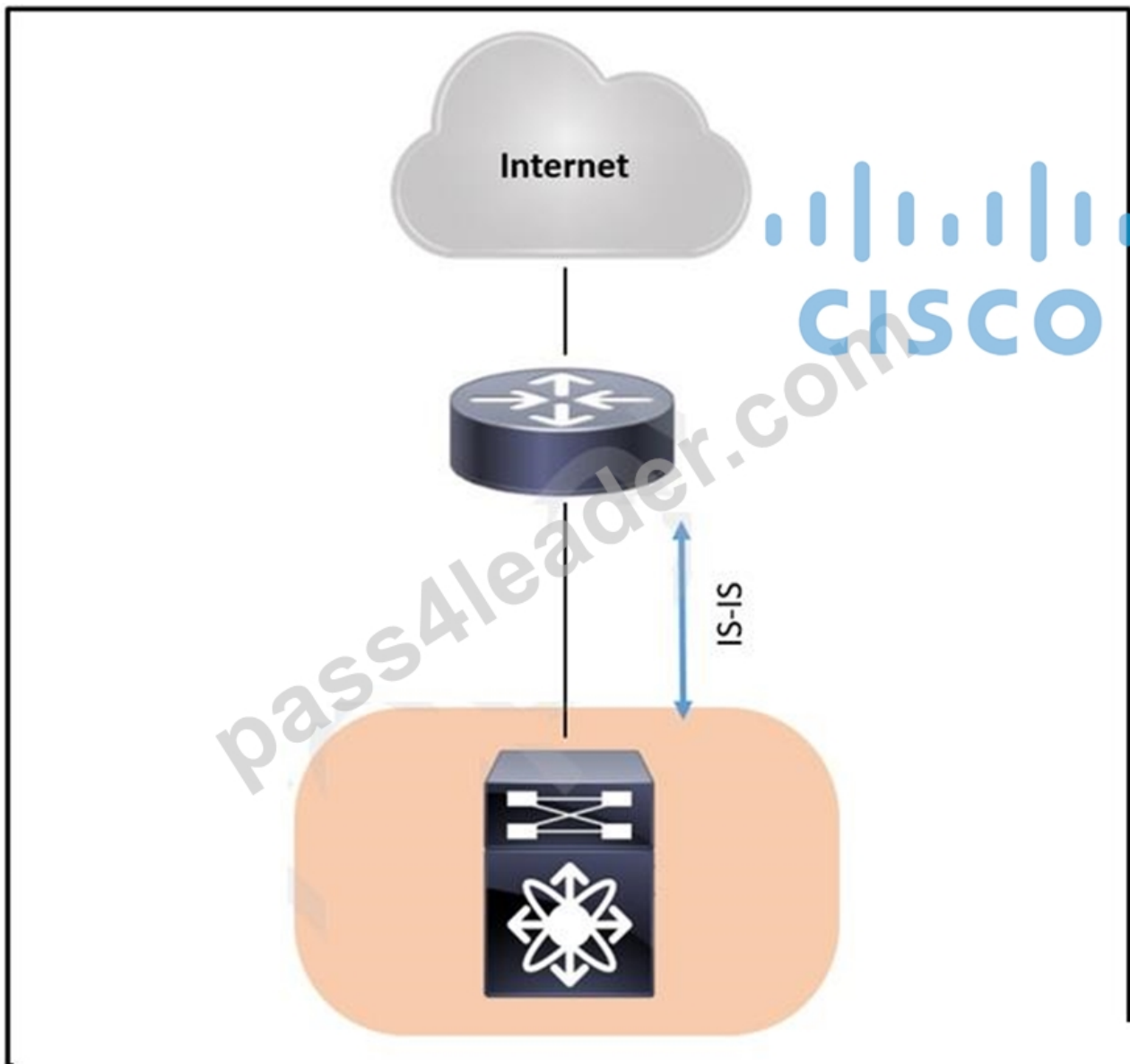
Answer: B

Explanation:

Section: Network Services

NEW QUESTION # 169

Refer to the exhibit.



A network engineer must improve the current IS-IS environment. The Catalyst switch is equipped with dual supervisors. Each time a stateful switchover occurs, the network experiences unnecessary route recomputation. Which solution addresses this issue if the upstream router does not understand graceful restart messaging?

- A. Configure ISIS aggressive timers on both devices.
- B. Enable NSR on the switch.
- C. Enable IS-IS remote LFA FRR on both devices.
- **D. Enable NSF on the switch.**

Answer: D

NEW QUESTION # 170

Which statement describes what happens if all VSL connections between the virtual switch members are lost?

- A. Both virtual switch members cease to forward traffic.
- B. The virtual switch members reload.
- C. The VSS transitions to the dual active recovery mode, and both virtual switch members continue to forward traffic independently.
- **D. The VSS transitions to the dual active recovery mode, and only the new active virtual switch continues to forward traffic.**

Answer: D

Explanation:

Q. What happens if all VSL connections between the virtual switch members are lost?

A. VSLs can be configured with up to eight links between the two switches across any combination of line cards or supervisor ports to provide a high level of redundancy. If for some rare reason all VSL connections are lost between the virtual switch members leaving both the virtual switch members up, the VSS will transition to the dual active recovery mode.

The dual active state is detected rapidly (subsecond) by any of the following three methods:

Enhancement to PagP used in MEC with connecting Cisco switches

L3 Bidirectional Forwarding Detection (BFD) configuration on a directly connected link (besides VSL) between virtual switch members or through an L2 link through an access layer switch L2 Fast-Hello Dual-Active Detection configuration on a directly connected link (besides VSL) between virtual switch members (supported with 12.2(33)SXI) In the dual active recovery mode, all interfaces except the VSL interfaces are in an operationally shut down state in the formerly active virtual switch member. The new active virtual switch continues to forward traffic on all links.

Reference: http://www.cisco.com/en/US/prod/collateral/switches/ps5718/ps9336/prod_qas0900aecd806ed74b.html

NEW QUESTION # 171

What is the purpose of a control plane node in a Cisco SD-Access network fabric?

- A. to act as the network gateway between the network fabric and outside networks
- B. to maintain the endpoint database and mapping between endpoints and edge nodes
- C. to identify and authenticate endpoints within the network fabric
- D. to detect endpoints in the fabric and inform the host tracking database of EID-to-fabric-edge node bindings

Answer: D

Explanation:

Explanation

<https://www.cisco.com/c/en/us/td/docs/solutions/CVD/Campus/cisco-sda-design-guide.html>

NEW QUESTION # 172

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