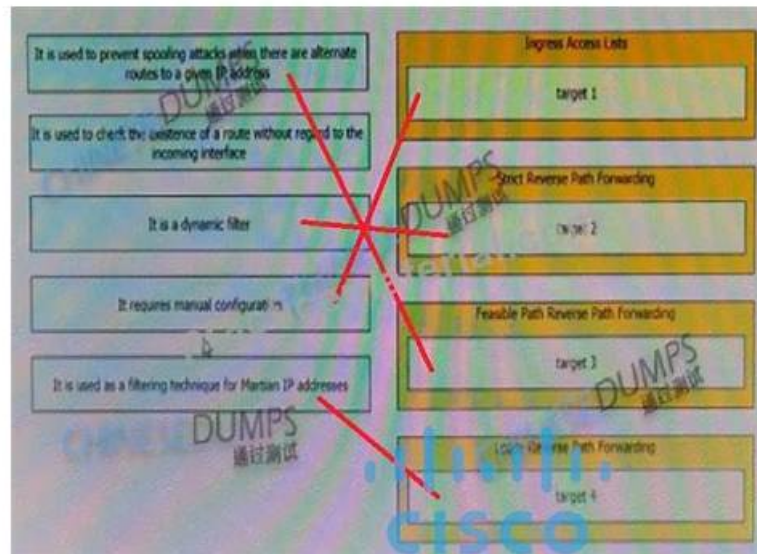


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Cisco Certified Design Expert (CCDE) Written Exam Sample Questions (Q60-Q65):

NEW QUESTION # 60

Which design solution reduces the amount of IGMP state in the network?

- A. One multicast group address throughout network regardless of IGMP version
- **B. IGMPv3 with PIM-SSM**
- C. Multiple multicast domains
- D. IGMP filtering

Answer: B

Explanation:

* B (IGMPv3 with PIM-SSM): Source-Specific Multicast (SSM) significantly reduces multicast state in the network by eliminating shared trees and (*,G) state, requiring only (S,G) entries. With IGMPv3 receivers specify both the group and source, which reduces unnecessary group membership and simplifies multicast forwarding state.

Other options explained:

* A: IGMP filtering controls receiver access but does not reduce core multicast state.

* C: Multiple multicast domains complicate rather than simplify state.

* D: Using one multicast group is not scalable or practical for multiple services.

NEW QUESTION # 61

Refer to the diagram.

Which solution must be used to send traffic from the foreign wireless LAN controller to the anchor wireless LAN controller?

- A. Send packets from the foreign controller to the anchor controller via IPinIP or IPsec tunnel.
- B. Send packets from the foreign controller to the anchor controller via Layer 3 MPLS VPN or VRF-Lite
- **C. Encapsulate packets into an EoIP tunnel and send them to the anchor controller.**
- D. Send packets without encapsulation to the anchor controller over the routed network.

Answer: C

NEW QUESTION # 62

Refer to the exhibit. The WAN network of the General Bank of Greece has experienced several outages. It takes too long to activate a new branch site. The networking department of the bank plans to upgrade the legacy end-of-life WAN network with a new flexible, manageable, and scalable in-house solution. The number of branches will increase exponentially in the next fiscal year. The CTO states that the bank's main goal is OPEX reduction. The network engineering team prepares a table to evaluate the available options. Which WAN technology can be used for the solution?

- A. Managed SD-WAN
- B. SD-WAN over L2VPN
- C. SD-WAN over L3VPN
- **D. DMVPN over L3VPN**

Answer: D

NEW QUESTION # 63

A Tier-3 Service Provider is evolving into a Tier-2 Service Provider due to the amount of Enterprise business it is receiving. The network engineers are re-evaluating their IP/MPLS design considerations in order to support duplicate/overlapping IP addressing from their Enterprise customers within each Layer3 VPN. Which concept would need to be reviewed to ensure stability in their network?

- A. Assigning unique IP address space for the Enterprise NAT/Firewalls
- B. Assigning unique Route Target IDs
- **C. Assigning unique Route Distinguishers**

- D. Assigning unique VRF IDs to each L3VPN

Answer: C

Explanation:

Route Distinguishers (RDs) are fundamental to MPLS Layer 3 VPN architecture (RFC 4364). They allow the service provider to distinguish identical IP prefixes from different VPN customers by adding a unique identifier to each VPN route, preventing conflicts from overlapping IP spaces.

* Unique RDs ensure that the VPNv4 address family maintains separation of identical customer prefixes.

Why other options are incorrect:

* B: Route Targets control route import/export policy but do not differentiate overlapping prefixes.

* C: NAT is not required inside MPLS VPN for overlapping IPs.

* D: VRF IDs are local identifiers on routers; not relevant for prefix uniqueness in control plane.

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NEW QUESTION # 64

What is the most important operational driver when building a resilient and secure modular network design?

- A. Dependencies on hardware or software that is difficult to scale
- B. Minimize app downtime
- **C. Reduce the frequency of failures requiring human intervention**
- D. Increase time spent on developing new features

Answer: C

Explanation:

A modular, scalable network design aims to:

- * Localize faults
- * Reduce impact radius of failures
- * Enable automated fault detection and recovery

The primary operational driver is to reduce the need for manual intervention during failures, which translates to:

- * Faster recovery times
- * Consistency in troubleshooting
- * Improved service reliability

While minimizing app downtime (B) is a goal, it is a result of reducing human-required failure recovery.

Option C is a business process goal, and D is an architectural challenge, not an operational driver.

This aligns with CCDE v3.1's "Network Architecture Principles" for building operationally resilient networks.

NEW QUESTION # 65

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