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Cisco 400-007 exam is a rigorous and challenging test that requires candidates to demonstrate their ability to design and implement complex network architectures. It is designed to ensure that only the most skilled and knowledgeable professionals are able to earn

the prestigious CCDE certification.

Cisco Certified Design Expert (CCDE v3.0) Written Exam Sample Questions (Q356-Q361):

NEW QUESTION # 356

The SD-WAN architecture is composed of separate orchestration, management, control, and data planes. Which activity happens at the orchestration plane?

- A. Central configuration and monitoring
- **B. Automatic onboarding of the SD-WAN routers into the SD-WAN overlay**
- C. Decision-making process on where traffic flows
- D. Packet forwarding

Answer: B

Explanation:

The SD-WAN architecture separates roles by function:

* Orchestration Plane: Handles device lifecycle functions such as zero-touch provisioning (ZTP) and certificate distribution. It facilitates onboarding into the overlay securely and automatically.

* Control Plane: Makes forwarding decisions and shares route and policy information.

* Data Plane: Forwards packets.

* Management Plane: Provides visibility, analytics, and template-based policy configuration.

Option A correctly identifies orchestration as the ZTP and bootstrapping component.

NEW QUESTION # 357

A multicast network is using Bidirectional PIM. Which two combined actions achieve high availability so that two RPs within the same network can act in a redundant manner? (Choose two)

- **A. Use two phantom RP addresses**
- B. Advertise the two RP addresses in the routing protocol
- **C. Control routing to the two RPs through a longest match prefix**
- D. Manipulate the multicast routing table by creating static mroutes to the two RPs
- E. Manipulate the administration distance of the unicast routes to the two RPs
- F. Use anycast RP based on MSDP peering between the two RPs

Answer: A,C

Explanation:

<https://community.cisco.com/t5/networking-knowledge-base/rp-redundancy-with-pim-bidir-phantom-rp/ta-p/3117191>

NEW QUESTION # 358

When an SDN-based model is used to transmit multimedia traffic, which aspect should an architect consider while designing the network?

- A. Flow forwarding
- B. Traffic patterns
- **C. QoE estimation**
- D. Security

Answer: C

Explanation:

* A (QoE estimation): In SDN-based designs, particularly for multimedia traffic (voice, video, streaming), Quality of Experience (QoE) estimation is crucial to ensure end-user satisfaction. SDN can dynamically allocate resources based on real-time measurements of packet loss, jitter, delay, and other QoE indicators to maintain service quality.

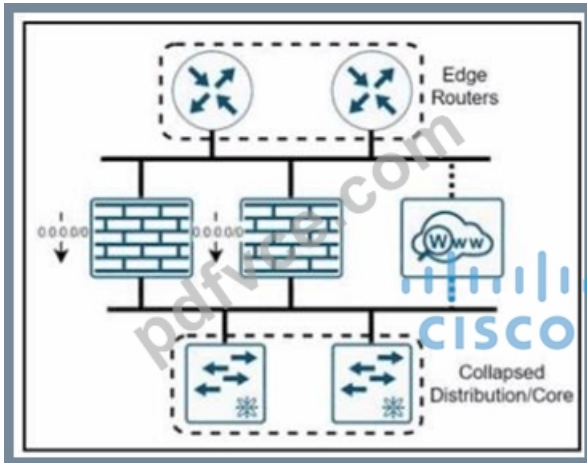
Other options explained:

* B: Security is always important but not unique to multimedia design.

- * C: Traffic patterns are part of capacity planning but secondary to QoE for multimedia.
- * D: Flow forwarding is handled by the SDN controller but does not directly address multimedia quality.

NEW QUESTION # 359

Refer to the exhibit.



A company named XYZ needs to apply security policies for end-user browsing by installing a secure web proxy appliance. All the web traffic must be inspected by the appliance, and the remaining traffic must be inspected by an NGFW that has been upgraded with intrusion prevention system functionality. In which two ways must the routing be performed? (Choose two)

- A. Policy-based routing on firewalls
- **B. Static routing on the appliance**
- C. Policy-based routing on the internet edge
- **D. Policy-based routing on the collapsed core**

Answer: B,D

Explanation:

In this architecture:

- * A secure web proxy is introduced to inspect and filter all web (HTTP/HTTPS) traffic.
- * Remaining traffic (non-web) must pass through an NGFW with IPS capabilities.
- * Both the web proxy and NGFW reside between the collapsed distribution/core and internet edge.

To enforce that all web traffic is directed to the proxy appliance for inspection and non-web traffic follows its usual path to the NGFW:

A). Policy-Based Routing (PBR) on the Collapsed Core

This allows traffic classification based on destination port (e.g., TCP 80/443) and selectively reroutes web traffic to the proxy. Non-web traffic continues toward the NGFW. PBR is essential here because traditional routing (based only on destination IP) would not differentiate between traffic types.

D). Static Routing on the Appliance

The proxy appliance must return the traffic back toward the NGFW for final processing and internet egress.

This is typically achieved using static routes on the proxy device, ensuring the return path sends packets back to the correct firewall interface for consistent inspection.

#B. Policy-based routing on the internet edge: Not applicable here, as rerouting must occur closer to the source (collapsed core), before traffic reaches the internet edge.

#C. Policy-based routing on firewalls: This adds unnecessary complexity. Firewalls should focus on enforcing security policies, not traffic redirection logic in this scenario.

This approach adheres to CCDE v3.1 best practices by separating policy enforcement functions and enabling scalable, deterministic traffic flow through layered security appliances.

NEW QUESTION # 360

Which interface between the controller and the networking device enables the two to communicate and allows the controller to program the data plane forwarding tables of the networking device?

- A. controller interface

- Answer: D**

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