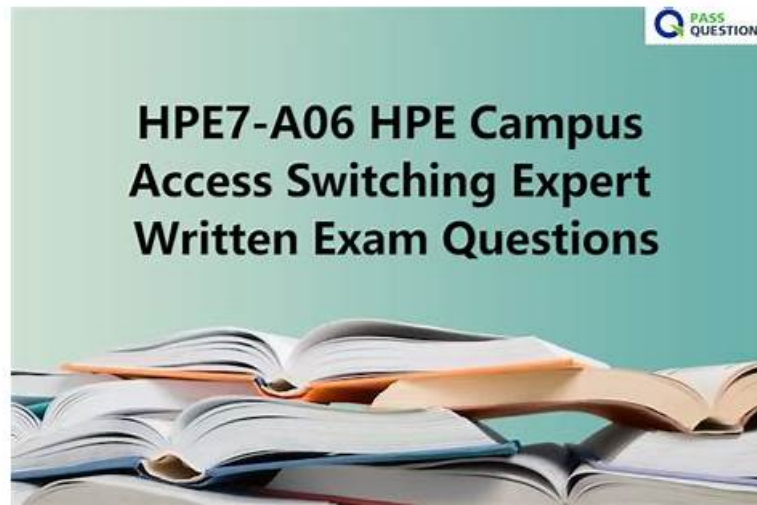


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## HPE Campus Access Switching Expert Written Exam Sample Questions (Q27-Q32):

### NEW QUESTION # 27

the administrator of a large company noticed that there are some problems with UCC sessions on a wired network. Some employees complain about dropped calls and poor quality. The administrator wants to monitor jitter on AOS-CX switches with iP SLA. but notices results spiking to 100% What should the administrator check first to correct monitoring to run as desired?

- A. CoPP settings
- B. number of NAE agents
- C. memory and processor usage
- D. source IP and source port combination

Answer: C

Explanation:

The administrator observes IP SLA jitter monitoring results spiking to 100% when monitoring UCC sessions.

This indicates either extremely severe network jitter or, more likely, a problem with the IP SLA operation or measurement itself on the AOS-CX switch.

\* IP SLA & Jitter: IP SLA measures jitter by analyzing the inter-packet delay variation of probe packets.

Accurate measurements depend on the switch generating and processing these probes consistently.

\* Factors Affecting IP SLA Accuracy:

\* Switch Resource Contention: If the switch's CPU or memory is heavily utilized, the operating system might not schedule the IP SLA process promptly. This can lead to inconsistent generation or processing of probe packets, causing highly inaccurate measurements, including extreme jitter values like 100%.

\* Control Plane Policing (CoPP): IP SLA packets are control plane traffic. If CoPP policies are too restrictive, they might drop or delay IP SLA probes, skewing results.

\* Network Path Issues: Actual severe jitter on the network path would also cause high readings, but 100% spikes often suggest measurement error first.

\* Troubleshooting Steps: When encountering unexpectedly high or erratic IP SLA results, the first step is often to rule out issues with the monitoring device itself.

\* Analysis of Options:

\* A. memory and processor usage: Checking the switch's resource utilization is crucial. High CPU /memory load can directly impact the timing accuracy of IP SLA operations.

\* B. source IP and source port combination: Unlikely to cause 100% jitter spikes unless fundamentally misconfigured causing probe failure.

\* C. number of NAE agents: NAE agents consume resources, but checking overall CPU/memory (A) is more direct.

\* D. CoPP settings: A valid concern, as CoPP affects control plane traffic. However, checking overall system load (A) is typically a primary check before delving into specific policies like CoPP.

\* Conclusion: High memory and processor usage (Option A) on the switch running the IP SLA operation is a common cause for inaccurate timing and resulting erroneous jitter measurements. This should be checked first to ensure the monitoring platform itself is functioning correctly.

References: AOS-CX IP SLA Guide, AOS-CX Management and Configuration Guide (Monitoring CPU /Memory, CoPP). This relates to "Performance Optimization" (6%) and "Troubleshooting" (10%).

## NEW QUESTION # 28

Two CX 8325 switches are configured as a cluster using VSX for the core role and two CX 6300M in VSF for the aggregation role. When a minor software upgrade is issued on the switches, what is the method to achieve a hitless upgrade with the aggregation switches?

- A. VSF update-software initiates the software upgrade first on the primary switch, followed by the secondary.
- B. ISSU update-software initiates the upgrade first on the primary switch, followed by the secondary.
- **C. VSF update-software initiates the software Upgrade first on the secondary switch, followed by the primary.**
- D. ISSU update-software initiates the upgrade first on the secondary switch, Followed by the primary.

**Answer: C**

Explanation:

The question involves a minor software upgrade on a VSF (Virtual Switching Framework) stack of CX

6300M switches in the aggregation role, with CX 8325 switches in a VSX cluster as the core. The task is to identify the method for a hitless upgrade on the aggregation switches.

\* Analysis of Options:

\* Option A: Correct. VSF upgrades start with the secondary switch, followed by the primary, to ensure continuous operation without traffic disruption.

\* Option B: Incorrect. In-Service Software Upgrade (ISSU) is used for VSX, not VSF, and follows a different process.

\* Option C: Incorrect. Upgrading the primary switch first in VSF risks disrupting control plane operations.

\* Option D: Incorrect. ISSU is not applicable to VSF upgrades.

\* Why Option A is Correct: In a VSF stack, the update-software command initiates a rolling upgrade, starting with the secondary (standby) switch to ensure the primary (commander) continues handling traffic. Once the secondary is upgraded and rejoins the stack, the primary is upgraded, maintaining hitless operation. This process leverages VSF's ability to keep member switches active during upgrades, minimizing downtime. The CX 6300M's VSF implementation supports this hitless upgrade mechanism, as per HPE Aruba Networking documentation.

\* Relevance to Certification Objectives:

\* Network Resiliency and Virtualization (8%): Designing and troubleshooting VSF for high availability and hitless upgrades.

\* Troubleshooting (10%): Ensuring minimal disruption during software upgrades in campus networks.

References:

HPE Aruba Networking AOS-CX Configuration Guide: VSF Software Upgrade, detailing hitless upgrade procedures.

HPE7-A06 Study Guide: Covers VSF maintenance and upgrade processes.

HPE Aruba Networking Technical Documentation: CX 6300 Series VSF Upgrade Best Practices.

**NEW QUESTION # 29**

A Python developer could not modify the VLAN database on an AOS-CX switch through the REST API.

Which settings should the developer check first? (Select two.)

- A. SNMP settings
- **B. local-user settings**
- C. SSH settings
- **D. HTTPS settings**
- E. REST API settings

**Answer: B,D**

Explanation:

A Python developer using the REST API cannot modify the VLAN database on an AOS-CX switch. We need to identify the first settings to check.

\* REST API Requirements for Modification:

\* HTTPS Server: The REST API operates over HTTPS, so the HTTPS server must be enabled on the switch (show https-server status).

\* REST Interface: The REST API interface itself must be enabled (it usually is by default, check with show rest-interface).

\* Authentication: The API client must provide valid credentials (username/password or token) for a user account configured on the switch.

\* Authorization: The authenticated user account must have sufficient privileges to modify the configuration (e.g., belong to the built-in administrators group or a custom role with appropriate permissions). Check user details (show user <name>) and role permissions (show user roles).

\* Analysis of Options:

\* A. HTTPS settings: Essential for API communication. Check if enabled.

\* B. SSH settings: Irrelevant to REST API.

\* C. SNMP settings: Irrelevant to REST API.

\* D. REST API settings: Check if enabled (show rest-interface), but it's usually enabled by default.

Less likely than A or E to be the initial problem.

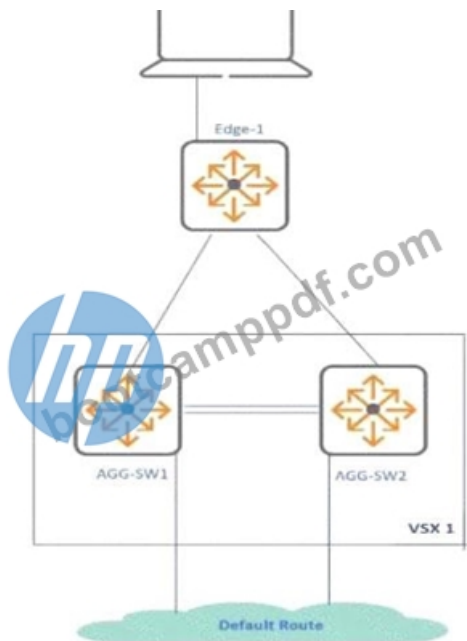
\* E. local-user settings: Crucial for both authentication (correct credentials used?) and authorization (does the user have modification privileges?).

\* Conclusion: When a REST API modification fails, the most critical initial checks involve ensuring the API endpoint is accessible (HTTPS Server enabled - A) and that the user account being used for the API call has the necessary permissions (local-user settings, specifically privileges/roles - E).

References: AOS-CX REST API Guide, AOS-CX Security Guide (User Accounts, Roles, HTTPS Server configuration). This relates to "Security" (10%) and "Authentication/Authorization" (9%).

**NEW QUESTION # 30**

Exhibit.



After an initial setup of CX 8325 VSX configuration, the active gateway is set up for SVI 10. For testing purposes, SVI 10 on sw-aggi is shut down while traffic from the client connected to Edge-1 is initiated towards the default route.

What is the expected behavior while performing this test?

- A. Traffic is potentially dropped between the client and the destination.
- B. Traffic is dropped and vsx-sync will disable SVI10 on agg-sw2 automatically.
- C. Traffic is forwarded over the ISL without the risk of dropped packets.
- D. Traffic Is unaffected and a 50ms failover time is expected for agg-sw2 to start traffic forwarding.

**Answer: D**

Explanation:

The question involves a VSX configuration with CX 8325 switches (agg-sw1 and agg-sw2) where SVI 10's active-gateway is set up. For testing, SVI 10 on agg-sw1 is shutdown, and traffic from a client connected to Edge-1 is initiated toward the default route. The task is to determine the expected behavior.

\* Analysis of Options:

\* Option A: Incorrect. Traffic is not dropped, as VSX ensures redundancy via the active-gateway on agg-sw2.

\* Option B: Incorrect. Traffic does not traverse the ISL unnecessarily; agg-sw2 takes over directly.

\* Option C: Correct. Traffic continues unaffected, with a 50ms failover time for agg-sw2 to assume forwarding responsibilities for SVI 10.

\* Option D: Incorrect. Traffic is not dropped, and vsx-sync does not disable SVI 10 on agg-sw2; it ensures consistency.

\* Why Option C is Correct: In a VSX cluster with active-gateway, both switches (agg-sw1 and agg-sw2) share a virtual IP and vMAC for SVI 10, allowing either to respond to ARP requests and forward traffic. Shutting down SVI 10 on agg-sw1 triggers agg-sw2 to take over Layer 3 forwarding, leveraging the active-gateway configuration. VSX's fast failover mechanism ensures a typical failover time of approximately 50ms, making the transition seamless for clients on Edge-1. The vsx-sync feature ensures SVI configurations remain consistent, preventing traffic disruption. This behavior aligns with HPE Aruba Networking's VSX high-availability design.

\* Relevance to Certification Objectives:

\* Network Resiliency and Virtualization (8%): Designing and troubleshooting VSX for high availability.

\* Routing (16%): Ensuring seamless Layer 3 forwarding in VSX environments.

\* Troubleshooting (10%): Diagnosing failover behavior in campus networks.

References:

HPE Aruba Networking AOS-CX Configuration Guide: VSX Active-Gateway and Failover.

HPE7-A06 Study Guide: Covers VSX high-availability and failover times.

HPE Aruba Networking Technical Documentation: VSX Best Practices for Layer 3 Redundancy.

## NEW QUESTION # 31

What is the best practice for using Dynamic Segmentation?

- A. Use Dynamic Segmentation only on devices that are connected to the network via Wi-Fi.

- B. Use UBT to create isolated networks for specific types of devices.
- C. Use LUR to assign roles to devices based on their location and DUR to assign roles to devices based on their user identity.
- D. Use a combination of role-based access and overlay technologies to create a layered security approach.

**Answer: D**

Explanation:

The question asks for the best practice for using Dynamic Segmentation.

\* Dynamic Segmentation Overview: It's an architecture that provides unified policy and segmentation for wired and wireless clients by combining role-based access control, traffic tunneling (like UBT), and overlay technologies (like VXLAN/GRE). Policies are enforced centrally, typically at an Aruba Gateway.

\* Analysis of Options:

\* A: UBT is a component, but Dynamic Segmentation encompasses more than just creating isolated networks with UBT.

\* B: Correctly describes the core principle: using a combination of role-based access (for defining who gets what policy) and overlay technologies (for transporting traffic to the policy enforcement point and providing segmentation). This creates a layered security approach.

\* C: Incorrect. A key benefit is unified policy across both wired and wireless access.

\* D: LUR and DUR are role types, but how they are assigned isn't the fundamental description of Dynamic Segmentation itself.

\* Conclusion: Option B accurately captures the essence of Dynamic Segmentation as a best practice approach, integrating role-based policies with overlay networking for secure, unified access control.

References: Aruba Dynamic Segmentation Solution Guides, Whitepapers, and Configuration Examples. This relates to "Security" (10%), "Authentication/Authorization" (9%), and "Connectivity" (9%).

## NEW QUESTION # 32

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