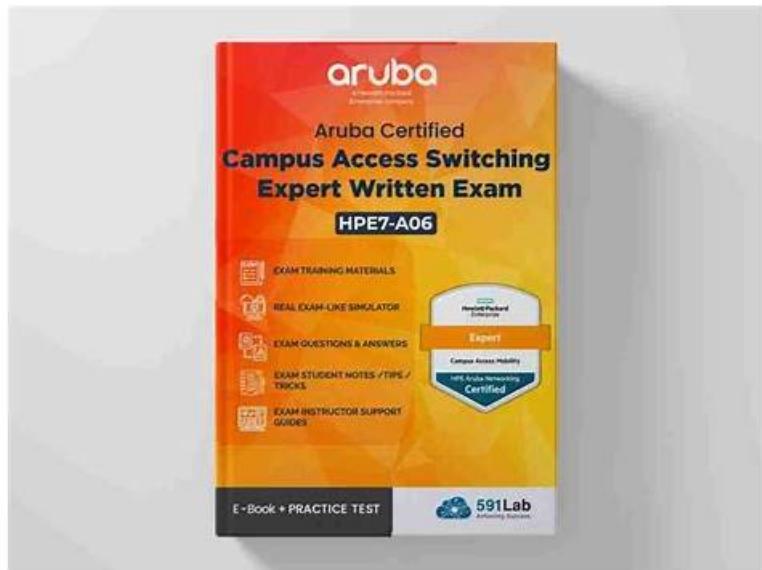


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HPE Campus Access Switching Expert Written Exam Sample Questions (Q87-Q92):

NEW QUESTION # 87

With the configuration of two CX 8325 switches in the VSX cluster, how would you prepare a link-aggregation for a 7000 gateway for a zero-touch provision to support protocol-based port redundancy?

- A.
- B.
- C.
- D.

Answer: C

Explanation:

The goal is to configure a Link Aggregation Group (LAG) on a VSX cluster (pair of CX 8325 switches) that connects to an Aruba 7000 series gateway undergoing Zero Touch Provisioning (ZTP). The LAG needs to support "protocol-based port redundancy" (LACP) and allow connectivity during ZTP.

* VSX Requirement: Since the LAG connects to two separate physical switches operating as a VSX pair, the LAG must be configured as a Multi-Chassis LAG (MC-LAG) on the switches. This allows the gateway to form a single LAG across both upstream devices. The command `multi-chassis` under the interface `lag <id>` context enables this.

* Protocol Redundancy Requirement: "Protocol-based port redundancy" indicates that Link Aggregation Control Protocol (LACP) should be used to dynamically negotiate and manage the LAG bundle between the switches and the gateway. The command `lacp mode active` enables LACP in active negotiation mode.

* ZTP Requirement: During ZTP, the gateway might not have its full configuration, including LACP settings, enabled immediately. To ensure the gateway can establish basic IP connectivity for ZTP (e.g., reach Activate/Central via DHCP/DNS), the switch ports should allow traffic even if LACP negotiation hasn't completed. The `lacp fallback` feature enables this, allowing individual LAG member ports to become active if LACP PDUs are not received from the peer.

* Analyzing the Options:

* A) Configures `lacp mode active` and `lacp fallback` but lacks the `multi-chassis` command required for VSX.

* B) Correctly configures the LAG as multi-chassis, enables `lacp mode active`, and enables `lacp fallback`. This meets all requirements.

* C) Configures multi-chassis but uses potentially older or less standard syntax `lacp enable` and `lacp fail-over` instead of `lacp mode active` and `lacp fallback`.

* D) Lacks the `multi-chassis` command and uses potentially older/less standard syntax.

* Conclusion: Option B provides the complete and correct configuration using standard AOS-CX syntax to create an MC-LAG on the VSX pair with LACP enabled for redundancy and LACP fallback enabled to support gateway connectivity during ZTP.

References: AOS-CX VSX Guide (MC-LAG configuration), AOS-CX Link Aggregation Guide (LACP, LACP Fallback commands and usage), ArubaGateway ZTP documentation. This relates to "Network Resiliency and virtualization" (8%), "Switching" (19%), and "Connectivity" (9%) objectives.

NEW QUESTION # 88

You are configuring an HPE Aruba Networking Gateway Cluster with AOS-10. What is true about 802.1X functionality in combination with gateways? (Choose two.)

- A. The UDG remains fixed on L2-connected gateways but not on L3-connected gateways.
- B. The gateways act as RADIUS Proxy only in Tunneled and Bridged Mode.
- C. **Users on L3-connected gateways need to perform a full authentication after re-associated on the AP.**
- D. **The gateways are used as a RADIUS proxy, while the AP is the authenticator.**
- E. Regardless of using gateways, the CoA message is always sent to the APs.

Answer: C,D

Explanation:

In L3-connected gateway designs, a full 802.1X authentication is required after AP re-association because session state is not preserved across gateway re-association.

In AOS-10, the AP is the authenticator, but the gateway functions as the RADIUS proxy, forwarding requests to the RADIUS server. This ensures centralized control and policy enforcement.

NEW QUESTION # 89

Refer to the exhibit.

Based on the screenshot, what is required to bring the secondary switch MCLAO interfaces online?

- A. **Use the same CX OS version as on the primary.**
- B. Update the MAE agents on the secondary.
- C. Use `vsx-software-upgradeado` on the secondary.
- D. Use the same ServiceOS version as on the primary.

Answer: A

Explanation:

The exhibit shows the output of `show vsx status` on `sw-aggl1`. Key information includes:

- * Config Sync Status : sw_image_version_mismatch_error
- * NAE : sw_image_version_mismatch_error
- * HTTPS Server : sw_image_version_mismatch_error
- * Primary Software Version: GL.10.09.0010
- * Secondary Software Version: GL.10.11.1021

These errors clearly indicate that the primary and secondary VSX switches are running different AOS-CX software versions. For VSX to operate correctly, including configuration synchronization and enabling features like MC-LAG interfaces, both switches must run the exact same software version.

* Analysis of Options:

- * A: vsx-software-upgrade is used for upgrades but doesn't resolve the current mismatch requirement.
- * B: NAE errors are a symptom of the underlying version mismatch.
- * C: Using the same CX OS version on both primary and secondary switches is the fundamental requirement to clear the mismatch errors and achieve a stable VSX operational state.
- * D: While ServiceOS is part of the system, the primary requirement and error message relate to the main AOS-CX software version.

References: AOS-CX VSX Guide (Chapter on VSX Requirements, Troubleshooting, Software Updates). This relates to "Network Resiliency and virtualization" (8%) and "Troubleshooting" (10%) objectives.

NEW QUESTION # 90

An OSPF router has learned a path to an external network via both an E1 and an E2 advertisement, both routes having the same path cost. Which path will the router prefer?

- A. The router will prefer the E1 path.
- B. The router will prefer the E2 path.
- C. Both routes will be suppressed until the path conflict has been resolved.
- D. The router will use both paths equally by means of ECMP

Answer: A

Explanation:

The question involves an OSPF router receiving both an E1 (External Type 1) and an E2 (External Type 2) advertisement for an external network with the same path cost. The task is to determine which path the router will prefer.

* Analysis of Options:

- * Option A (ECMP): Equal-Cost Multi-Path (ECMP) is used when multiple paths have the same total cost, but E1 and E2 routes have different metric calculations, so ECMP does not apply here.
- * Option B (Prefer E2): Incorrect, as E2 routes are preferred only when E1 routes are not present or have a higher total cost.
- * Option C (Suppressed): OSPF does not suppress routes due to path conflicts; it selects the best path based on metrics.
- * Option D (Prefer E1): Correct. OSPF prefers E1 routes over E2 routes because E1 routes include the internal cost to the ASBR (Autonomous System Boundary Router) plus the external cost, providing a more accurate total cost.
- * Why Option D is Correct: In OSPF, external routes are advertised as E1 or E2. E1 routes include both the external cost (advertised by the ASBR) and the internal cost to reach the ASBR, making them more precise for path selection. E2 routes only consider the external cost and are the default for redistributed routes unless explicitly configured as E1. When an OSPF router receives both E1 and E2 routes with the same external cost, it prefers the E1 route because it accounts for the total path cost, including internal network topology. This is per OSPF standards (RFC 2328).
- * Relevance to Certification Objectives:
- * Routing (16%): Involves designing and troubleshooting OSPF routing topologies, including external route types (E1 vs. E2).
- * Troubleshooting (10%): Includes analyzing OSPF path selection to resolve routing issues.

References:

HPE Aruba Networking AOS-CX Configuration Guide: OSPF Configuration, detailing E1 and E2 route types.

HPE7-A06 Study Guide: Covers OSPF external route selection and path preference.

RFC 2328: OSPF Version 2, explaining E1 and E2 route metrics and preference.

NEW QUESTION # 91

Exhibit:

The customer has VSX clusters in two locations interconnected over an MC-LAG interface.

If active-gateway configuration uses the same virtual IP address and vMAC on each of the VSX nodes, what must you take into consideration?

- A. Outbound traffic will be load-balanced over all VSX members for each session.
- B. Each ARP request will result in four responses.
- **C. The configuration would end up in an async setup.**
- D. Transit traffic will increase over the VSX interconnect MC-LAG.

Answer: C

Explanation:

The scenario describes two separate VSX clusters interconnected via MC-LAG, where both clusters are configured to use the exact same virtual IP address and virtual MAC address for their respective Active Gateway SVIs.

* Active Gateway Scope & Conflict: Active Gateway provides a highly available default gateway within a single VSX cluster (L2 domain). The vIP/vMAC combination should be unique within its L2 broadcast domain.

* Interconnecting Clusters with Same vIP/vMAC: When two VSX clusters using the identical Active Gateway vIP/vMAC are interconnected at Layer 2 (even via MC-LAG), this creates a situation where the same active L2 (vMAC) and L3 (vIP) address exists in multiple places within the extended broadcast domain.

* Consequences: This leads to MAC address conflicts and L3 ambiguity. ARP resolution becomes unreliable, potentially causing ARP tables to flap on connected devices. Traffic forwarding becomes unpredictable, as packets destined for the vIP/vMAC might be delivered to the "wrong" cluster. This unstable and unpredictable state is sometimes referred to as an asymmetric or "async" setup.

* Analysis of Options:

* A: ISL traffic might change, but it's a symptom, not the root problem.

* B: Multiple ARP replies would occur, contributing to the confusion.

* C: The configuration results in an "async setup," accurately describing the unstable state caused by duplicate active L2/L3 addresses across the interconnected L2 domain.

* D: Load-balancing happens within a cluster; this setup causes conflict, not predictable load balancing across clusters.

* Conclusion: Reusing the same Active Gateway vIP and vMAC across interconnected VSX clusters is not a valid design and leads to an unstable, asymmetric ("async") environment due to address duplication within the extended L2 domain. Option C best describes this problematic outcome.

References: Aruba VSX Design and Best Practices Guides (Active Gateway uniqueness, Interconnecting VSX clusters). This relates to "Network Resiliency and virtualization" (8%), "Routing" (16%), and

"Troubleshooting" (10%) objectives.

NEW QUESTION # 92

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