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HP HPE7-A06 Campus Access Switching Expert

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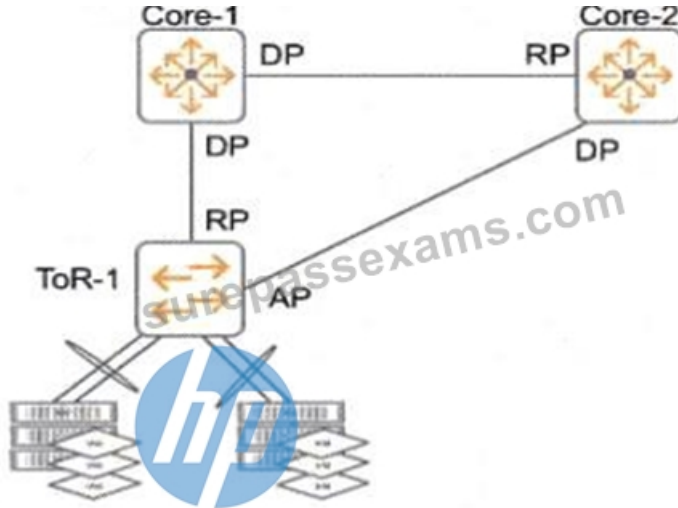
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HPE Campus Access Switching Expert Written Exam Sample Questions (Q68-Q73):

NEW QUESTION # 68

Exhibit.



Acme Corp has VM workload running from ToR-1, and has noticed performance degradation. They suspect ToR-1 uplinks are periodically overutilized. List valid reasons why ToR-1 uplinks are being overutilized based on the diagram. (Select two.)

- A. Core-1 and Core-2 are not running the same firmware
- B. ToR-1 uplinks and downlinks are both running spanning-tree port-type admin-network.
- C. Core-2 has been incorrectly configured as the root bridge
- D. The VLAN to instance mapping is not the same on all switches.
- E. The customer has used the default MSTP region configuration

Answer: D,E

Explanation:

The question involves Acme Corp experiencing performance degradation due to overutilized uplinks from ToR-1 to Core-1 and Core-2, with a diagram (not provided) indicating a potential MSTP (Multiple Spanning Tree Protocol) issue. The task is to identify valid reasons for uplink overutilization.

* Analysis of Options:

* Option A: Incorrect. Incorrect root bridge configuration (e.g., Core-2 as root) may cause suboptimal paths but is not directly linked to uplink overutilization without further context.

* Option B: Correct. Inconsistent VLAN-to-instance mappings across switches can cause MSTP to block unexpected ports, funneling traffic through fewer uplinks and causing overutilization.

* Option C: Incorrect. Firmware mismatches may cause compatibility issues but are unlikely to directly cause uplink overutilization.

* Option D: Correct. Using the default MSTP region configuration (e.g., default region name and revision) across switches can lead to all switches forming a single MSTP region, potentially causing suboptimal topology and uplink overuse.

* Option E: Incorrect. Running MSTP with admin-network port-type on uplinks and downlinks is not a standard cause of overutilization; it's a specific port role.

* Why B and D are Correct: MSTP relies on consistent region configurations (region name, revision number, VLAN-to-instance mappings) to create efficient topologies. If VLAN-to-instance mappings differ (Option B), switches treat each other as separate regions, leading to blocked ports and traffic concentration on fewer uplinks, causing overutilization. Similarly, using the default MSTP region configuration (Option D) without customizing the region name or revision can result in all switches forming a single region with suboptimal spanning tree instances, potentially overloading specific uplinks. Both issues disrupt MSTP's ability to balance traffic across redundant paths, aligning with HPE Aruba Networking's MSTP troubleshooting scenarios.

* Relevance to Certification Objectives:

* Network Resiliency and Virtualization (8%): Troubleshooting MSTP for redundancy and fault tolerance.

* Switching (19%): Diagnosing Layer 2 issues, including MSTP misconfigurations.

* Performance Optimization (6%): Remediating uplink utilization issues.

References:

HPE Aruba Networking AOS-CX Configuration Guide: MSTP Configuration, detailing region and VLAN mapping.

NEW QUESTION # 69

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

- A. The router will use both paths equally by means of ECMP
- 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 prefer the E1 path.**

Answer: D

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-A06Study Guide: Covers OSPF external route selection and path preference.

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

NEW QUESTION # 70

A customer wants to deploy IoT security devices that are PoE-powered. Due to its criticality, it is required that those devices remain active even during a switch software upgrade. What is a valid solution to meet customer requirements?

- **A. power-over-ethernet always-on**
- B. a VSX pair of switches for redundancy
- C. power-over-ethernet priority
- D. power-over-ethernet net quick-poe

Answer: A

Explanation:

The question involves a customer deploying PoE-powered IoT security devices (e.g., door locks) that must remain active during an AOS-CX switch software upgrade. The task is to identify a valid solution.

* Analysis of Options:

* Option A: Incorrect. A VSX pair provides redundancy but does not guarantee PoE continuity during a single switch's upgrade.

* Option B: Incorrect. quick-poe reduces PoE startup time but does not ensure power during upgrades.

* Option C: Correct. power-over-ethernet always-on ensures PoE remains active during software upgrades, meeting the requirement.

* Option D: Incorrect. PoE priority adjusts power allocation but does not guarantee continuity during upgrades.

* Why Option C is Correct: The power-over-ethernet always-on feature on AOS-CX switches ensures that PoE power delivery continues uninterrupted during software upgrades or reboots, critical for devices like IoT security door locks that require constant

power. This feature prevents power cycling on PoE ports, maintaining device operation. For example, enabling it on relevant ports (e.g., interface 1/1/1 power-over-ethernet always-on) ensures compliance with the customer's requirement, as per HPE Aruba Networking's PoE high-availability guidelines.

* Relevance to Certification Objectives:

* Connectivity (9%): Configuring PoE for critical device deployment.

* Network Resiliency and Virtualization (8%): Ensuring device uptime during maintenance.

* Troubleshooting (10%): Resolving PoE continuity issues.

References:

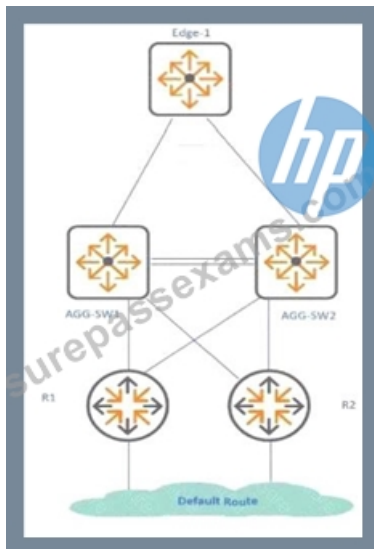
HPE Aruba Networking AOS-CX Configuration Guide: PoE Always-On Feature.

HPE7-A06 Study Guide: Covers PoE configuration for high-availability devices.

HPE Aruba Networking Technical Documentation: PoE Best Practices for IoT.

NEW QUESTION # 71

Exhibit.



In the given example AGG-SW1 and AGG-SW2 use CX 8325 in VSX and Edge-1 with CX 6200F. You want to achieve an optimal path for uplink and ISL traffic for the VSX and upstream routers R1 and R2.

What is the HPE Aruba Networking recommended solution for the SVIs on the VSX switches connected to R1 and R2?

- A. Configure the VSX SVI using the active-gateway.
- B. Configure the VSX SVI using the unicast IP.
- C. Configure the VSX SVI using the VRRP virtual-ip.
- **D. Configure the VSX SVI using the active-forwarding.**

Answer: D

Explanation:

The scenario involves a VSX pair (AGG-SW1/SW2) connected upstream to routers R1/R2. The goal is to configure the SVIs on the VSX switches facing these upstream routers optimally to avoid suboptimal L3 paths and unnecessary traffic over the VSX Inter-Switch Link (ISL).

* VSX L3 Interface Options:

* Active Gateway: Primarily designed for downstream SVIs to provide a redundant default gateway to clients/access switches. Not typically used for upstream routed interfaces.

* Active Forwarding: Specifically designed for upstream routed interfaces (physical or SVIs) on a VSX pair. It allows both VSX members to actively route traffic arriving on that interface locally, without needing to forward L3 traffic across the ISL. This ensures optimal routing and utilizes both members effectively.

* Unicast IP (Standard IP): Without specific VSX features, standard routing applies. This could lead to suboptimal paths if, for example, return traffic prefers one VSX switch, but the optimal path requires crossing the ISL.

* VRRP: Can be run between VSX members but adds complexity and is generally superseded by Active Gateway (downstream) or Active Forwarding (upstream) in VSX designs.

* Analysis of Options:

* A. Configure active-forwarding: This enables local L3 forwarding on both VSX members for the upstream SVI, preventing unnecessary ISL traversal for routed traffic. This is the recommended best practice.

* B. Configure unicast IP: Standard configuration, potentially leading to suboptimal paths/ISL usage.

* C. Configure VRRP virtual-ip: Not the recommended approach for upstream links in VSX.
 * D. Configure active-gateway: Incorrect, Active Gateway is for downstream SVIs.
 * Conclusion: Using active-forwarding on the SVIs facing the upstream routers (R1/R2) is the HPE Aruba Networking recommended solution to ensure optimal routing and minimize L3 traffic across the ISL.
 References: AOS-CX VSX Guide (Active Forwarding feature description and use cases). This relates to "Network Resiliency and virtualization" (8%) and "Routing" (16%) objectives.

NEW QUESTION # 72

An engineer finds that a specific HPE switch interface has high error rates. Which two parameters are most likely causing this issue?

- A. VLAN misconfiguration
- B. LACP mode
- C. Port speed
- D. Duplex mismatch

Answer: C,D

NEW QUESTION # 73

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You have examined your database design and queries and have done HPE7-A06 all the tuning you can, Instead, there are guidelines for refactoring to Composed Method, some of which include the following.

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