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HPE Campus Access Switching Expert Written Exam Sample Questions (Q113-Q118):

NEW QUESTION # 113

You want to use OSPF to advertise a only .16 summary route for the SVIs below to a neighbor in the same area (area 0). Which configuration will achieve this?

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

Answer: C

Explanation:

The goal is to configure OSPF on a router so that it advertises only a 10.1.0.0/16 summary route for the specific SVIs (VLAN 11, 12, 13, assumed to be within the 10.1.x.x range) to its OSPF neighbors within the same area (Area 0).

* OSPF Intra-Area Behavior: A fundamental principle of OSPF (link-state protocols) is that all routers within the same area must have an identical Link State Database (LSDB) for that area. This means all routers learn about all the specific networks (Type-1 Router LSAs, Type-2 Network LSAs) within their area. OSPFv2 does not support summarizing routes in a way that hides specific network LSAs from other routers within the same area. Summarization occurs only at area boundaries (by ABRs using Type-3 Summary LSAs via the area range command) or for external routes redistributed into OSPF (by ASBRs using Type-5 External LSAs via the summary-address command).

* Analysis of Options:

* A) area 0 range 10.1.0.0/16: This command is used on an Area Border Router (ABR) to summarize routes originating from Area 0 when advertising them into another area (e.g., the backbone). It does not affect LSA flooding within Area 0. It also includes redistribute connected, which is unrelated here.

* B) summary-address 10.1.0.0/16: This command is used on an Autonomous System Boundary Router (ASBR) to summarize external routes being redistributed into OSPF. It is not used for summarizing internal OSPF routes like SVIs defined within an OSPF area.

* C) & D) summary-address 10.1.0.0/16: Same issue as B; incorrect command for summarizing internal OSPF routes.

* E) area 0 range 10.1.0.0/16: Similar to A, this uses the area range command. It correctly shows the SVIs configured for OSPF Area 0 first. However, like A, this command performs inter-area summarization on an ABR and does not suppress the specific LSAs within Area 0.

* Conclusion: The question asks for something that OSPFv2 cannot do: advertise only a summary route within the same area while suppressing specifics. Therefore, none of the configurations will achieve the exact stated outcome. However, if the question is flawed and intends to ask which configuration uses the correct command structure for summarizing internal OSPF routes (even if only effective between areas), then the area range command is the relevant one. Both A and E use this command. Option E is slightly better structured as it shows the interfaces being added to OSPF Area 0 first. Assuming this is the intended direction despite the impossibility of the specific request, E is the most plausible choice among the given options.

References: RFC 2328 (OSPFv2), OSPF Configuration Guides for AOS-CX (explaining area range for ABRs and summary-address for ASBRs). This relates to the "Routing" (16%) objective.

NEW QUESTION # 114

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 agg1 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 forwarded over the ISL without the risk of dropped packets.
- **C. Traffic is unaffected and a 50ms failover time is expected for agg-sw2 to start traffic forwarding.**
- D. Traffic is dropped and vsx-sync will disable SVI10 on agg-sw2 automatically.

Answer: C

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 # 115

A customer wants to tunnel tagged traffic from the VoIP phones to a central location. Which UBT mode should you configure?

- A. multi VLAN
- B. tunnel tagged
- C. local VLAN
- D. VLAN extend

Answer: A

Explanation:

In HPE Aruba Networking, UBT (User-Based Tunneling) supports different modes. When you need to tunnel tagged traffic (such as voice VLAN from IP phones) to a central location, you use multi VLAN mode, which allows multiple VLANs (e.g., data + voice) to be tunneled while preserving their VLAN tags. This is the correct mode for VoIP phone deployments requiring central tunneling.

NEW QUESTION # 116

Match the network technology to the customer requirement.

□

Answer:

Explanation:

□

* Establish redundant links between the aggregation and core layers: When using Layer 3 routing between network layers (like Aggregation and Core), ECMP (Equal Cost Multi-Path) allows the routing protocol (e.g., OSPF, BGP) to utilize multiple links simultaneously if they have the same routing cost. This provides both redundancy (if one link fails, traffic uses the others) and load sharing across the links.

References: AOS-CX IP Routing Guide (OSPF, BGP, ECMP). Relates to "Routing" (16%), "Network Resiliency and virtualization" (8%).

Extend layer 2 across multiple sites: VXLAN (Virtual Extensible LAN) is the overlay technology specifically designed for this purpose. It encapsulates Layer 2 Ethernet frames within UDP packets, allowing them to be tunneled across an underlying Layer 3 network infrastructure, effectively stretching Layer 2 domains (VLANs) between physically separate locations.

References: AOS-CX VXLAN Guide. Relates to "Switching" (19%), "Connectivity" (9%).

Identify individual layer 2 segments in an overlay: Inside the VXLAN header, the VNI (VXLAN Network Identifier) serves as the segment identifier. Each unique Layer 2 segment (like a specific VLAN being extended) is mapped to a unique 24-bit VNI, allowing the overlay network to differentiate between traffic belonging to different L2 domains, even when tunneled between the same VTEPs (VXLAN Tunnel Endpoints).

References: AOS-CX VXLAN Guide, RFC 7348 (VXLAN). Relates to "Switching" (19%), "Connectivity" (9%).

Minimize configuration steps to establish tunnels between sites: While VXLAN provides the data plane encapsulation, EVPN (Ethernet VPN) acts as the modern control plane for VXLAN overlays. Using MP-BGP extensions, EVPN dynamically discovers VTEPs and advertises MAC address and IP reachability information. This significantly reduces configuration complexity compared to older static VXLAN or flood-and-learn methods, as VTEP peer relationships and endpoint learning are automated by the control plane, thus minimizing manual steps to establish connectivity.

References: AOS-CX EVPN Guide. Relates to "Routing" (16%), "Switching" (19%), "Connectivity" (9%).

NEW QUESTION # 117

Drag and Drop Question

Match the network technology to the customer requirement.

□

Answer:

Explanation:

□

NEW QUESTION # 118

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