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HPE Campus Access Switching Expert Written Exam Sample Questions (Q58-Q63):

NEW QUESTION # 58

Refer to the exhibit.



XYZ Company has deployed a multi-area OSPF AS where all the routers are operating an AOS- CX switches. Engineers want to join their proposed Area 3 to their existing backbone through ABR1 as per the exhibit.

Which script would help facilitate this solution?

ABR3(config)# router ospf 1

- A. ABR3(config-ospf-1)# area 1 virtual-link 10.255.0.1
ABR1(config)# router ospf 1
ABR1(config-ospf-1)# area 1 virtual-link 10.255.0.3
ABR3(config)# router ospf 1
- B. ABR3(config-ospf-1)# area 3 virtual-link 10.255.0.1
ABR1(config)# router ospf 1
ABR1 (config-ospf-1)# area 1 virtual-link 10.255.0.3
ABR3(config)# router ospf 1
- C. ABR3(config-ospf-1)# area 3 virtual-link 10.0.0.0/16 10.255.0.1
ABR1(config)# router ospf 1
ABR1(config-ospf-1)# area 1 virtual-link 10.1.128.0/17 10.255.0.3

Answer: A

Explanation:

An OSPF virtual link must be configured in the common transit area between the two ABRs - in this case, area 1 - pointing to the peer's router ID on each ABR (area 1 virtual-link 10.255.0.1 on ABR3 and area 1 virtual-link 10.255.0.3 on ABR1).

NEW QUESTION # 59

An OSPF router has learned 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 prefer the E2 path.
- B. The router will use both paths equally by means of ECMP
- 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-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 # 60

A customer tasked you with creating a new design for the IDF's in a large office building. A junior member of your staff took all of the technical requirements and produced a design to meet those requirements. You were asked to review the portion of the design below:

CUSTOMER REQUIREMENTS:

preference for stackable switches

Each closet should contain a single virtual switch.

dual 10Gbps fiber uplinks from each closet

capacity for 500 edge ports in each closet; no additional capacity required

lowest-cost AOS-CX switch that meets all requirements

PROPOSED DESIGN:

nine (9) AOS-CX 6200M (R8Q69A: Class4 PoE 4SFP+ switch (R8Q68A) HPE Aruba

Networking 6200M 46G 4SFP+ switch) in each closet

switches configured in a VSF (Virtual Switching Framework) stack, with auto-stacking enabled

uplinks configured on the first and last members of the stack

Does the proposed solution meet the technical requirements?

- A. Yes. The proposed design meets the customer's requirements.
- B. No. The proposed design does not meet the capacity requirements.
- C. No. The proposed design is not the lowest-cost AOS-CX switch for this project.
- D. No. The proposed design does not meet the requirements for uplink connectivity.

Answer: B

Explanation:

Nine CX 6200M access switches provide at most $9 \times 48 = 432$ edge ports (even fewer if it's the 46G variant), which is below the 500-port capacity requirement. All other requirements (stackable single virtual switch via VSF, dual 10G uplinks, and lowest-cost stackable CX platform) are met.

NEW QUESTION # 61

Match the network technology to the customer requirement.

ECMP EVPN VNI VXLAN

Answer Area

Establish redundant links between the aggregation and core layers.

Extend layer 2 across multiple sites.

Identify individual layer 2 segments in an overlay.

Minimize configuration steps to establish tunnels between sites.

Answer:

Explanation:

ECMP EVPN VNI VXLAN

Answer Area

Establish redundant links between the aggregation and core layers.

Extend layer 2 across multiple sites.

Identify individual layer 2 segments in an overlay.

Minimize configuration steps to establish tunnels between sites.

ECMP

VXLAN

VNI

EVPN

* 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 # 62

A senior engineer from the network operations team has reported an intermittent problem where some PoE-powered devices are randomly losing power. During your investigation, you found that port 1 of the Acc-1 switch is currently presenting the behavior shown in the CLI output for the Acc-1.

```
switch# show power-over-ethernet brief
Status and Configuration Information for PoE
Power Status
Available: 370 W Reserved: 360.60 W Remaining: 9.40 W
Always-on PoE Enabled: none
Quick PoE Enabled: None
PoE Pwr Power Pre-std Alloc PSE Pwr PD Pwr PoE Port PD Cls Type
Port En Priority Detect Act Rsrvd Draw Status Sign
-----
1/1/1 Yes Low Off Class 0.0 W 0.0 W Denied None 4 2
1/1/2 Yes Critical Off Usage 1.6 W 1.5 W Delivering* Single 0 1
1/1/3 Yes High Off Class 54.0 W 25.5 W Delivering^ Dual 1/3 3
1/1/4 No Low On Usage 0.0 W 0.0 W Disabled None N/A N/A
*This port may go down in the event of a PSU failure.
^This port is power demoted due to user config or power availability.
```


What is a probable cause a lot of power is being denied PoE?

- A. switch PoE power budget exceeded
- B. PoE was manually disabled for port 1/1/1.
- C. This switch does not support PoE class 4.
- D. PoE port priority set to low

Answer: A

Explanation:

The question involves intermittent PoE-powered device power loss on port 1/1/1 of an AOS-CX switch (Acc-1), with CLI output (not provided) indicating a PoE issue. The task is to identify a probable cause.

* Analysis of Options:

* Option A: Incorrect. AOS-CX switches typically support PoE Class 4 (802.3at, 30W), sufficient for most devices.

* Option B: Correct. If the switch's PoE power budget is exceeded, it may deny power to port 1/1/1, causing intermittent device failures.

* Option C: Incorrect. Low PoE port priority may deprioritize the port but is less likely to cause complete power loss compared to budget issues.

* Option D: Incorrect. Manual disabling of PoE would cause consistent power loss, not intermittent issues.

* Why Option B is Correct: AOS-CX switches have a finite PoE power budget (e.g., 370W or 740W, depending on the model and power supply). If the total power demand from connected devices exceeds this budget, the switch denies power to some ports, often intermittently as devices cycle or negotiate power. For port 1/1/1, this could manifest as random power loss for the connected device. The CLI output likely shows a "power denied" status (e.g., via show power-over-ethernet brief). Checking the PoE budget (show power-over-ethernet) and upgrading power supplies or prioritizing critical ports resolves the issue, aligning with HPE Aruba Networking's PoE troubleshooting guidelines.

* Relevance to Certification Objectives:

* Connectivity (9%): Troubleshooting PoE deployment issues.

* Troubleshooting (10%): Diagnosing power-related issues in campus networks.

* Switching (19%): Implementing PoE configurations for Layer 2 devices.

References:

HPE Aruba Networking AOS-CX Configuration Guide: PoE Configuration and Troubleshooting

HPE7-A06 Study Guide: Covers PoE management and diagnostics.

HPE Aruba Networking Technical Documentation: PoE Budget Troubleshooting

NEW QUESTION # 63

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