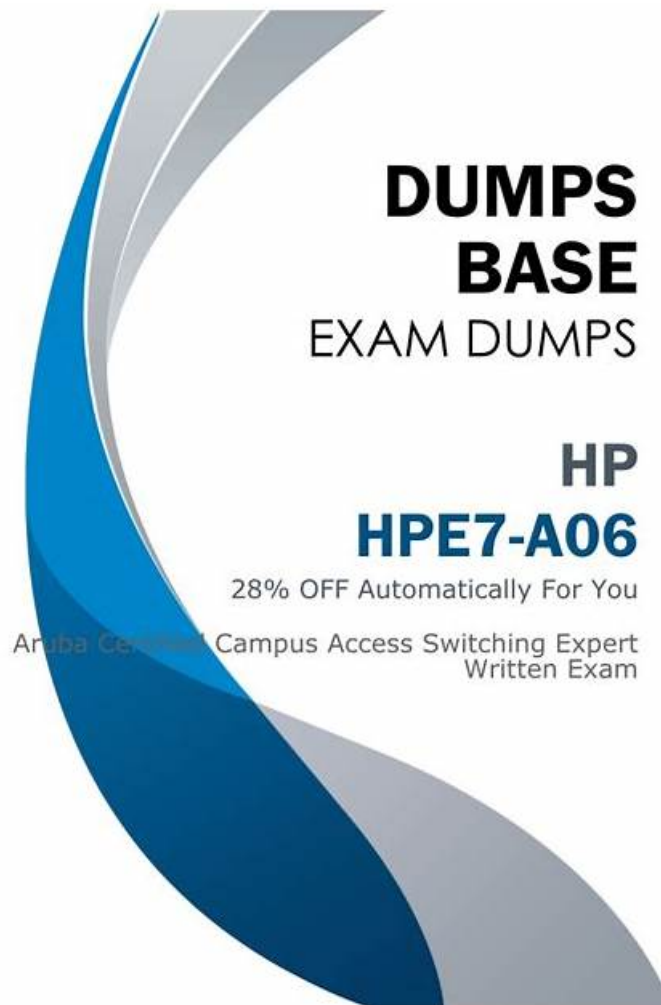


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HPE Campus Access Switching Expert Written Exam Sample Questions (Q55-Q60):

NEW QUESTION # 55

Match the customer requirement with the relevant commands.

Aggregate links across multiple switches.	Establish redundant links between the aggregation and core layers.	interface vxlan 1 no shutdown source ip 10.1.0.4	
Extend layer 2 across multiple sites.	Identify individual layer 2 segments in an overlay.	router ospf 1 maximum-paths 2	
		vni 11 vtep-peer 10.1.0.5 vlan 11	
		vsx role primary inter-switch-link lag 256 keepalive peer 192.168.0.1 source	

Answer:

Explanation:

Aggregate links across multiple switches.	Establish redundant links between the aggregation and core layers.	interface vxlan 1 no shutdown source ip 10.1.0.4	Extend layer 2 across multiple sites.
Extend layer 2 across multiple sites.	Identify individual layer 2 segments in an overlay.	router ospf 1 maximum-paths 2	Establish redundant links between the aggregation and core layers.
		vni 11 vtep-peer 10.1.0.5 vlan 11	Identify individual layer 2 segments in an overlay.
		vsx role primary inter-switch-link lag 256 keepalive peer 192.168.0.1 source	Aggregate links across multiple switches.

Explanation:

* Aggregate links across multiple switches -->

vsx

role primary

inter-switch-link lag 256

keepalive peer 192.168.0.1 source 192.168.0.0 vrf KA

(Snippet 4)

* Establish redundant links between the aggregation and core layers --> router ospf 1 maximum-paths 2 (Snippet 2)

* Extend layer 2 across multiple sites -->

interface vxlan 1

no shutdown

source ip 10.1.0.4

(Snippet 1)

* Identify individual layer 2 segments in an overlay -->

vni 11

vtep-peer 10.1.0.5

vlan 11

(Snippet 3)

Comprehensive Detailed Explanation along with All References available from related to the HPE Campus Access Switching Expert certification objectives at end of each question below:

* Aggregate links across multiple switches: This requirement describes Multi-Chassis Link Aggregation (MC-LAG), where a device forms a LAG to two separate upstream switches that act as a logical pair. In AOS-CX, VSX (Virtual Switching Extension) enables this functionality. Snippet 4 shows commands related to setting up VSX (vsx, role primary, inter-switch-link, keepalive), which is the foundation for MC-LAG.

References: AOS-CX VSX Guide. Relates to "Network Resiliency and virtualization" (8%), "Switching" (19%).

Establish redundant links between the aggregation and core layers: This often involves Layer 3 routing protocols utilizing multiple paths. Snippet 2 (router ospf 1, maximum-paths 2) configures OSPF to use up to two Equal Cost Multi-Paths (ECMP). If

redundant links between aggregation and core result in equal OSPF costs, this command enables load sharing and redundancy at Layer 3.

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

Extend layer 2 across multiple sites:VXLAN (Virtual Extensible LAN) is the standard overlay technology for extending Layer 2 segments over an underlying Layer 3 network, enabling L2 adjacency across different physical locations (sites, racks, pods). Snippet 1 shows the basic configuration of a VXLAN tunnel interface (interface vxlan 1, source ip), which is the core component for VXLAN tunneling.

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

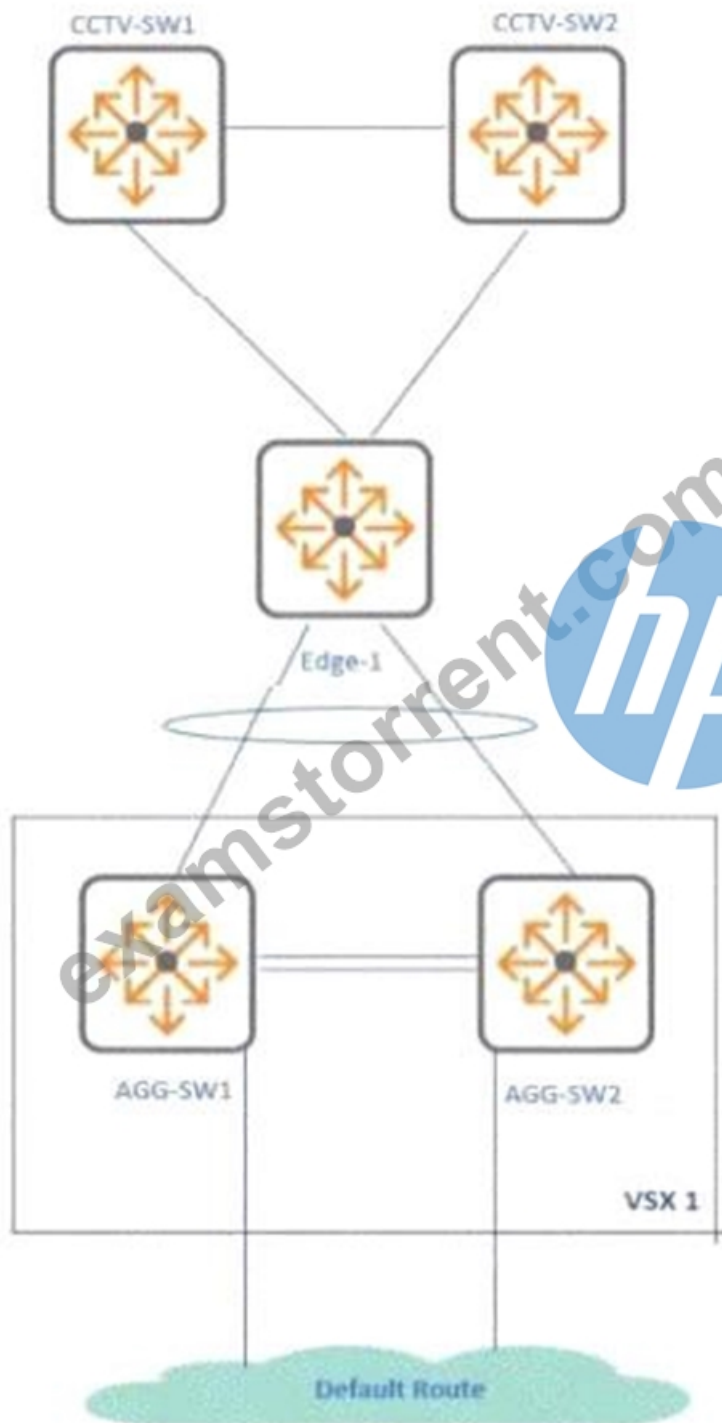
Identify individual layer 2 segments in an overlay:Within a VXLAN overlay, each separate Layer 2 broadcast domain (typically corresponding to a VLAN) is identified by a unique VXLAN Network Identifier (VNI). This VNI tags the encapsulated traffic. Snippet 3 shows the configuration associating VNI 11 with the local VLAN 11 (vni 11, vlan 11). The vtep-peer command is relevant when using EVPN as the control plane.

This configuration directly maps an L2 segment (VLAN 11) to its identifier (VNI 11) within the overlay.

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

NEW QUESTION # 56

Exhibit.



VSX cluster is already configured. Your task is to validate a correct configuration for the Edge-1 switch that is connected to a CCTV provider that will install its switching infrastructure. The CCTV switches do not support STP.

What needs to be configured on the Edge-1 switch ports connecting to CCTV-SW1 and CCTV-SW2 to prevent loop problems with the existing setup with automatic recovery features?

- A. configure spanning-tree and TCN-guard timeout for CCTV switch ports
- B. configure spanning-tree with udd for CCTV switch ports
- C. configure spanning-tree with bpdu-guard timeout values for CCTV switch ports
- D. configure lag with lacp fallback for CCTV switch ports

Answer: C

Explanation:

The requirement is to prevent loops on Edge-1 switch ports connected to third-party CCTV switches that do not support STP. The solution must also include an automatic recovery feature if a port gets disabled.

* Loop Prevention without STP: When connecting to non-STP devices, standard STP loop prevention (like BPDU Guard) might not work if the connected device doesn't send BPDUs. AOS-CX offers a feature called loop-protect which sends probes to detect loops in non-STP environments.

* Automatic Recovery: Features that disable ports (like BPDU Guard or Loop Protect) often have a timeout or auto-recovery option (port-disable-timer for Loop Protect) allowing the port to automatically re-enable after a configured period.

* Analysis of Options:

* A: LACP fallback applies to LAGs, not general loop prevention.

* B: TCN-guard is an STP feature, irrelevant here.

* C: Suggests spanning-tree with bpdu-guard timeout. BPDU Guard detects loops by listening for BPDUs, which these CCTV switches don't send. However, the timeout feature does provide the required automatic recovery mechanism if the port were disabled by BPDU Guard.

* D: UDLD detects unidirectional links, not typically bridging loops caused by topology.

* Re-evaluation: The ideal AOS-CX feature is loop-protect with port-disable-timer. Since this isn't explicitly an option, we must evaluate the given choices. Option C is the only one that mentions a mechanism (bpdu-guard timeout) providing automatic recovery from a disabled state. While BPDU Guard isn't the right detection mechanism here, it's the closest fit regarding the auto-recovery requirement. It's possible the question implicitly assumes some stray BPDUs might trigger it or that it's the intended "best fit" answer despite the detection mechanism mismatch.

* Conclusion: Given the options, Option C is the most plausible because it includes the timeout feature associated with bpdu-guard, fulfilling the automatic recovery requirement, even though BPDU guard itself is not the ideal detection method for loops involving non-STP devices.

References: AOS-CX Spanning Tree Protocol Guide (BPDU Guard, Timeout), AOS-CX Interface Configuration Guide (loop-protect feature). This relates to "Switching" (19%) and "Network Resiliency and virtualization" (8%) objectives.

NEW QUESTION # 57

You see the output unknown the first time you in the command, but the next time you see the following information displayed.

```
Cable Impedance
Status (Ohms) Description
-----
good 85-115 No cable faults found
open >115 Open circuit detected
intra-short <85 Short-circuit within the same wire pair
inter-short <85 Short-circuit with another wire pair
high-imp >115 Cable impedance was higher than expected
low-imp <85 Cable impedance was lower than expected
unknown --Cable test was inconclusive
```

What are some things you could look at in the switch to troubleshoot the issue? (Select two.)

- A. diag 1/1/X transceiver all
- B. diag cable 1/1/X
- C. diag cable-diagnostic 1/1/X
- D. diag interface transceiver all
- E. diag interface 1/VX transceiver all

Answer: A,C

Explanation:

The question involves troubleshooting an issue where the command output is initially unknown, but subsequent executions show diagnostic information for an interface (1/1/X). The task is to identify appropriate diagnostic commands to troubleshoot the issue.

* Analysis of Options:

* Option A (diag interface transceiver all): Incorrect syntax; "all" is not a valid parameter.

* Option B (diag interface 1/VX transceiver all): Incorrect syntax; "1/VX" is not a valid interface format.

* Option C (diag cable-diagnostic 1/1/X): Correct. This command runs a cable diagnostic test (TDR) on interface 1/1/X to check for cable faults, such as opens or shorts.

* Option D (diag cable 1/1/X): Incorrect; "diag cable" is not a valid AOS-CX command.

* Option E (diag 1/1/X transceiver all): Correct. This command displays detailed transceiver information, including status, errors, and signal quality, useful for diagnosing interface issues.

* Why C and E are Correct: The diag cable-diagnostic 1/1/X command is used to perform TDR tests to identify cable faults, which could cause connectivity issues. The diag 1/1/X transceiver all command provides detailed transceiver diagnostics, such as power levels, errors, or hardware issues, helping pinpoint problems with the interface or connected device. These commands align with AOS-CX troubleshooting workflows for physical layer issues.

* Relevance to Certification Objectives:

* Troubleshooting (10%): Involves using diagnostic commands to troubleshoot campus network issues.

* Connectivity (9%):Includes identifying problem areas in device deployment, such as cabling or transceiver issues.

References:

HPE Aruba Networking AOS-CX Configuration Guide: Diagnostic Commands, covering cable diagnostics and transceiver diagnostics.

HPE7-A06Study Guide: Details troubleshooting tools for AOS-CX switches.

HPE Aruba Networking Technical Documentation: AOS-CX Troubleshooting, explaining diagnostic command usage.

NEW QUESTION # 58

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 # 59

When trying to add a new access switch to the network, the switch port at the aggregation switch is automatically disabled.

What needs to be done to fix this issue?

- A. Disable spanning tree bpdu-filter at the interface level.
- B. Disable spanning tree loop-guard at the interface level.
- **C. Disable spanning tree bpdu-guard at the interface level.**
- D. Disable spanning tree root-guard at the interface level.

Answer: C

Explanation:

The issue involves a new access switch's port being automatically disabled when connected to an aggregation switch, likely due to a Spanning Tree Protocol (STP) protection mechanism.

* Analysis of Options:

* Option A (Disable bpdu-filter):BPDU filtering prevents BPDUs from being sent or processed, which could cause loops, not resolve the issue.

* Option B (Disable root-guard):Root guard prevents a port from becoming the root bridge but does not cause port disablement in

this context.

* Option C (Disable loop-guard): Loop guard prevents alternate ports from becoming designated but is unrelated to port disablement.

* Option D: Correct. Disabling BPDU guard on the aggregation switch's interface prevents it from disabling the port when it receives BPDUs from the new access switch.

* Why Option D is Correct: BPDU guard is an STP feature that disables a port if it receives BPDUs, assuming an unauthorized device is connected. When a new access switch is connected, it sends BPDUs as part of normal STP operation, triggering BPDU guard on the aggregation switch and disabling the port. Disabling BPDU guard on the aggregation switch's interface (e.g., no spanning-tree bpduguard) allows the access switch to participate in STP without being disabled, resolving the issue while maintaining network stability.

* Relevance to Certification Objectives:

* Network Resiliency and Virtualization (8%): Involves troubleshooting STP mechanisms for fault tolerance.

* Troubleshooting (10%): Includes diagnosing and remediating STP-related issues in campus networks.

* Switching (19%): Covers Layer 2 technologies like STP and its protection features.

References:

HPE Aruba Networking AOS-CX Configuration Guide: Spanning Tree Configuration, detailing BPDU guard.

HPE7-A06 Study Guide: Covers STP troubleshooting and protection mechanisms.

HPE Aruba Networking Technical Documentation: STP Best Practices, explaining BPDU guard behavior.

NEW QUESTION # 60

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