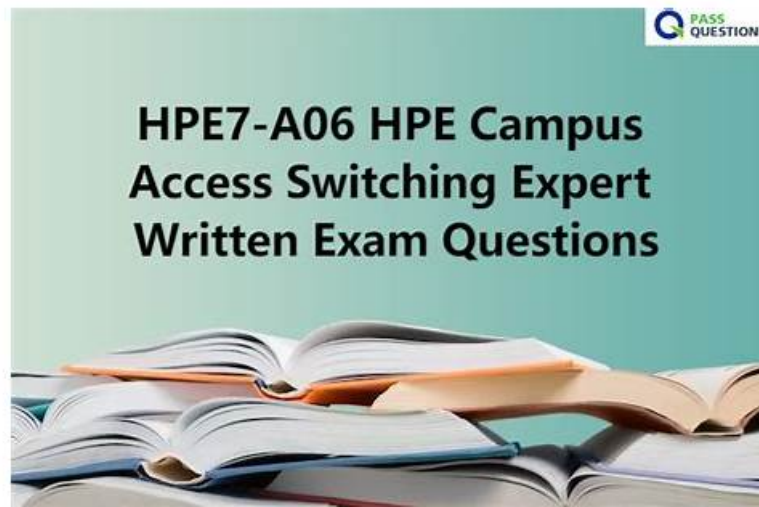


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HPE Campus Access Switching Expert Written Exam Sample Questions (Q38-Q43):

NEW QUESTION # 38

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

Answer: B

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 bpdu-guard) 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-A06Study Guide: Covers STP troubleshooting and protection mechanisms.

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

NEW QUESTION # 39

A customer has a requirement for VLAN 151 to be an isolated VLAN. A colleague has copied and pasted a partial configuration, but you do not achieve the desired outcome. This is the code that was added:

What should be added to the configuration before this code to achieve the desired result?

• A.

```
vlan 15
primary-vlan isolated 151
vsx-sync
```

• B.

```
vlan 15
isolated-vlan primary
vsx-sync
```

• C.

```
vlan 15
private-vlan primary
vsx-sync
```

• D.

```
vlan 15
private-vlan isolated 151
vsx-sync
```

Answer: C

Explanation:

The customer requires VLAN 151 to be configured as an isolated Private VLAN. A partial configuration was added, but the desired outcome wasn't achieved. We need to determine which configuration snippet should be added before the (unspecified) partial configuration to correctly set up the Private VLAN structure.

* Private VLAN Configuration Fundamentals:

* A Primary VLAN must be defined. This VLAN carries traffic between promiscuous ports and ports in associated secondary VLANs.

* Secondary VLANs (either isolated or community) are associated with the primary VLAN.

* Ports are then mapped to either the primary VLAN (promiscuous ports, typically router/firewall connections) or a secondary VLAN (host ports). Isolated ports within the same isolated VLAN cannot communicate with each other.

* Analyzing the Options (Assuming VLAN 15 is the intended Primary):

* A)

```
vlan 15
```

```
private-vlan primary
```

```
vsx-sync
```

This correctly defines VLAN 15 as the Primary Private VLAN. The vsx-sync command ensures this configuration is synchronized

across a VSX pair (relevant if applicable). This is the necessary prerequisite before defining VLAN 151 as an isolated secondary VLAN and associating it with VLAN 15.

* B)isolated-vlan primary is incorrect syntax. The command is private-vlan primary.

* C)primary-vlan isolated 151 is incorrect syntax for defining either the primary or secondary VLAN type/association within the primary VLAN context.

* D)private-vlan isolated 151 within the vlan 15 context is incorrect syntax. The private-vlan isolated command belongs under the configuration of the secondary VLAN (VLAN 151 in this case).

* Conclusion:Before configuring VLAN 151 as private-vlan isolated and associating it, the primary VLAN must be defined. Option A correctly shows the command (private-vlan primary) under the intended primary VLAN's configuration (vlan 15) to establish it as the primary VLAN.

References:AOS-CX Security Guide (Private VLAN configuration steps and commands). This relates to the "Switching" (19%) and "Security" (10%) objectives.

NEW QUESTION # 40

Two CX 8325 switches are configured as a cluster using VSX for the core role and two CX 6300M in VSF for the aggregation role. When a minor software upgrade is issued on the switches, what is the method to achieve a hitless upgrade with the aggregation switches?

- A. VSF update-software initiates the software Upgrade first on the secondary switch, followed by the primary.
- B. ISSU update-software initiates the upgrade first on the primary switch, followed by the secondary.
- C. ISSU update-software initiates the upgrade first on the secondary switch, followed by the primary.
- D. VSF update-software initiates the software upgrade first on the primary switch, followed by the secondary.

Answer: A

Explanation:

The question involves a minor software upgrade on a VSF (Virtual Switching Framework) stack of CX 6300M switches in the aggregation role, with CX 8325 switches in a VSX cluster as the core. The task is to identify the method for a hitless upgrade on the aggregation switches.

* Analysis of Options:

* Option A:Correct. VSF upgrades start with the secondary switch, followed by the primary, to ensure continuous operation without traffic disruption.

* Option B:Incorrect. In-Service Software Upgrade (ISSU) is used for VSX, not VSF, and follows a different process.

* Option C:Incorrect. Upgrading the primary switch first in VSF risks disrupting control plane operations.

* Option D:Incorrect. ISSU is not applicable to VSF upgrades.

* Why Option A is Correct:In a VSF stack, the update-software command initiates a rolling upgrade, starting with the secondary (standby) switch to ensure the primary (commander) continues handling traffic. Once the secondary is upgraded and rejoins the stack, the primary is upgraded, maintaining hitless operation. This process leverages VSF's ability to keep member switches active during upgrades, minimizing downtime. The CX 6300M's VSF implementation supports this hitless upgrade mechanism, as per HPE Aruba Networking documentation.

* Relevance to Certification Objectives:

* Network Resiliency and Virtualization (8%):Designing and troubleshooting VSF for high availability and hitless upgrades.

* Troubleshooting (10%):Ensuring minimal disruption during software upgrades in campus networks.

References:

HPE Aruba Networking AOS-CX Configuration Guide: VSF Software Upgrade, detailing hitless upgrade procedures.

HPE7-A06 Study Guide: Covers VSF maintenance and upgrade processes.

HPE Aruba Networking Technical Documentation: CX 6300 Series VSF Upgrade Best Practices.

NEW QUESTION # 41

A pair of CX 8325 series switches are configured in a VSX cluster. Which function is executed on both VSX members during normal operation?

- A. replies to ARP requests with the cluster vMAC
- B. periodically sends gratuitous ARP and broadcast hello packets
- C. relays DHCP requests or serves DHCP offer
- D. routes PIM and PIM-DR

Answer: A

Explanation:

The question asks which function is executed on both VSX members (CX 8325 switches) during normal operation in a VSX cluster.

* Analysis of Options:

* Option A:Correct. Both VSX switches reply to ARP requests with the cluster's virtual MAC (vMAC) for SVIs configured with active-gateway, ensuring consistent Layer 3 forwarding.

* Option B:Incorrect. PIM (Protocol Independent Multicast) and PIM-DR roles are typically handled by one switch, not both, in a VSX cluster.

* Option C:Incorrect. DHCP relay or server functions are not necessarily performed by both switches simultaneously.

* Option D:Incorrect. Gratuitous ARP and broadcast hello packets are typically sent by the primary switch or specific protocols, not both VSX members for all cases.

* Why Option A is Correct:In a VSX cluster, the active-gateway feature allows both switches to respond to ARP requests for Switched Virtual Interfaces (SVIs) using a shared virtual MAC address (vMAC). This ensures seamless Layer 3 forwarding and high availability, as clients receive consistent ARP replies regardless of which VSX switch processes the request. The vsx-sync feature ensures the vMAC is synchronized, enabling both switches to perform this function during normal operation, as per HPE Aruba Networking's VSX architecture.

* Relevance to Certification Objectives:

* Network Resiliency and Virtualization (8%):Designing and troubleshooting VSX for redundancy and active-active forwarding.

* Switching (19%):Implementing Layer 2/3 technologies, including ARP handling in VSX.

* Routing (16%):Ensuring consistent Layer 3 operations in VSX environments.

References:

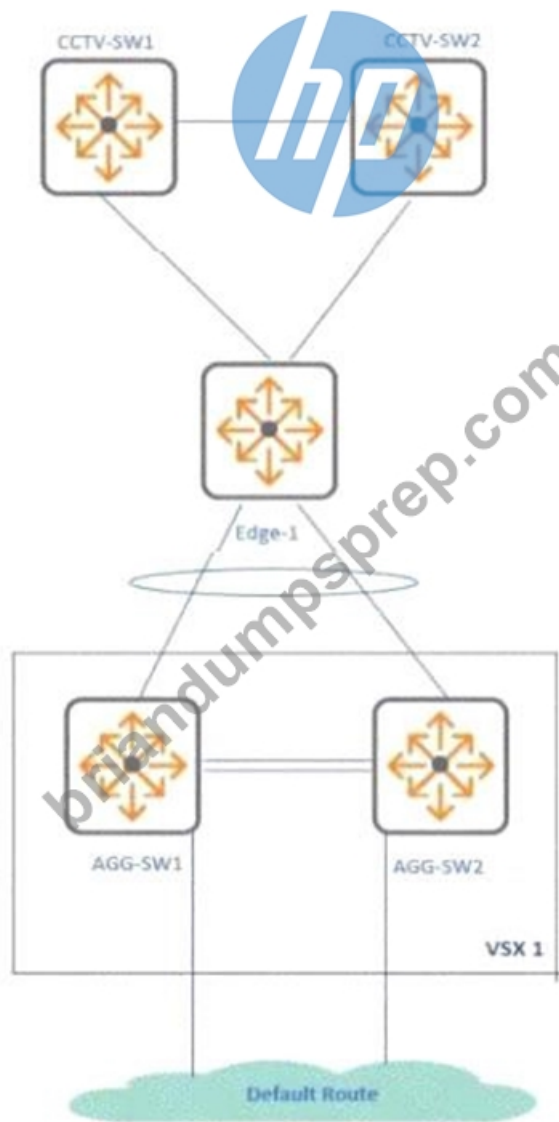
HPE Aruba Networking AOS-CX Configuration Guide: VSX Configuration, detailing active-gateway and vMAC usage.

HPE7-A06Study Guide: Covers VSX Layer 3 functions and ARP handling.

HPE Aruba Networking Technical Documentation: VSX Active-Gateway Best Practices.

NEW QUESTION # 42

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 # 43

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