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HP HPE7-A06 Campus Access Switching Expert

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HPE Campus Access Switching Expert Written Exam Sample Questions (Q13-Q18):

NEW QUESTION # 13

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 loop-guard at the interface level.
- **B. Disable spanning tree bpdu-guard at the interface level.**
- C. Disable spanning tree root-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-A06 Study Guide: Covers STP troubleshooting and protection mechanisms.

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

NEW QUESTION # 14

What is the maximum number of interfaces that can be active in the same LACP link on AOS-CX access layer switches?

- A. 0
- B. 1
- **C. 2**
- D. 3

Answer: C

Explanation:

On AOS-CX switches, an LACP (802.3ad) link aggregation group can include up to 16 active member interfaces. This allows higher bandwidth aggregation and redundancy at the access layer.

NEW QUESTION # 15

Refer to the exhibit.


```

agg-sw2:
show bgp ipv4 unicast neighbors 10.250.17.29 advertised-routes
Status codes: s suppressed, d damped, h history, * valid, > best, * multipath,
i internal, e external S Stale, R Removed, a additional-paths
Origin codes: i - IGP, e - EGP, ? - incomplete

VRF : default
Local Router-ID 10.250.255.12

  Network                               NextHop                               Metric   LocPrf
*>e 10.216.12.0/24                       10.250.17.30                          0        0
*>e 10.250.10.0/24                         10.250.17.30                          0        0
*>e 10.250.120.0/22                       10.250.17.30                          0        0
*>e 10.250.255.11/32                     10.250.17.30                          0        0
*>e 192.168.65.0/24                      10.250.17.30                          0        0
*>e 192.168.68.0/24                      10.250.17.30                          0        0
*>e 192.168.69.0/24                      10.250.17.30                          0        0

```

AGG-SW1 and AGG-SW2 are configured with iBGP and eBGP to AS65000. Both agg-sw1 and agg-sw2 useroute-map BGP-EXPORT and ip-prefix list local-export in the bgp configuration.

What must be done on agg-sw1 for the adjacent router to prefer to route all exported routes by agg-sw2?

- A. Add set as-path 65345 65345 65345 65345 to the route-map BGP-EXPORT Match with local-export ip prefix-list.
- B. Add set local-preference 200 to the route-map BGP-EXPORT
- C. Add set metric 200 to the route-map BGP-EXPORT.
- **D. Add set as-path prepend 65345 65345 65345 65345 to the route-map BGP-EXPORT Match with local-export Ip prefix-list.**

Answer: D

Explanation:

The goal is to make the adjacent router prefer routes exported by AGG-SW2 over AGG-SW1 for iBGP and eBGP routes to AS65000. Both switches use a route-map BGP-EXPORT with an ip-prefix list local-export.

BGP path selection uses attributes like local preference, AS path length, and metric to determine the preferred route.

* Analysis of Options:

* Option A: Setting local-preference 200 affects iBGP route selection within the same AS but has no impact on eBGP peers (external AS65000), as local preference is not advertised externally.

* Option B: Prepending the AS path with 65345 65345 65345 65345 increases the AS path length for routes exported by AGG-SW1, making them less preferred by the adjacent router (both iBGP and eBGP peers) compared to AGG-SW2's routes, which have a shorter AS path.

* Option C: Setting metric 200 affects the MED (Multi-Exit Discriminator), which is used for eBGP route selection within the same AS but is less influential than AS path length and not applicable for iBGP.

* Option D: Incorrect syntax (set as-path without prepend) and does not achieve the desired effect.

* Why Option B is Correct: BGP route selection prioritizes the shortest AS path for both iBGP and eBGP. By prepending AS 65345 multiple times to AGG-SW1's exported routes, AGG-SW1's routes appear less attractive due to a longer AS path, causing the adjacent router to prefer AGG-SW2's routes.

This is a standard BGP traffic engineering technique.

* Relevance to Certification Objectives:

* Routing (16%): Involves designing and troubleshooting BGP routing topologies, including manipulating path attributes like AS path.

* Troubleshooting (10%): Includes remediating BGP routing issues by adjusting route-maps.

References:

HPE Aruba Networking AOS-CX Configuration Guide: BGP Configuration, covering route-maps and AS path prepending.

HPE7-A06 Study Guide: Details BGP path selection and traffic engineering.

HPE Aruba Networking Technical Documentation: BGP Route Manipulation, explaining AS path prepending for route preference.

NEW QUESTION # 17

A Python developer could not modify the VLAN database on an AOS-CX switch through the REST API.

Which settings should the developer check first? (Choose two.)

- A. local-user settings
- B. SSH settings
- **C. REST API settings**
- **D. HTTPS settings**
- E. SNMP settings

Answer: C,D

Explanation:

The REST API on AOS-CX switches requires HTTPS to be enabled and properly configured. The developer should also verify

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