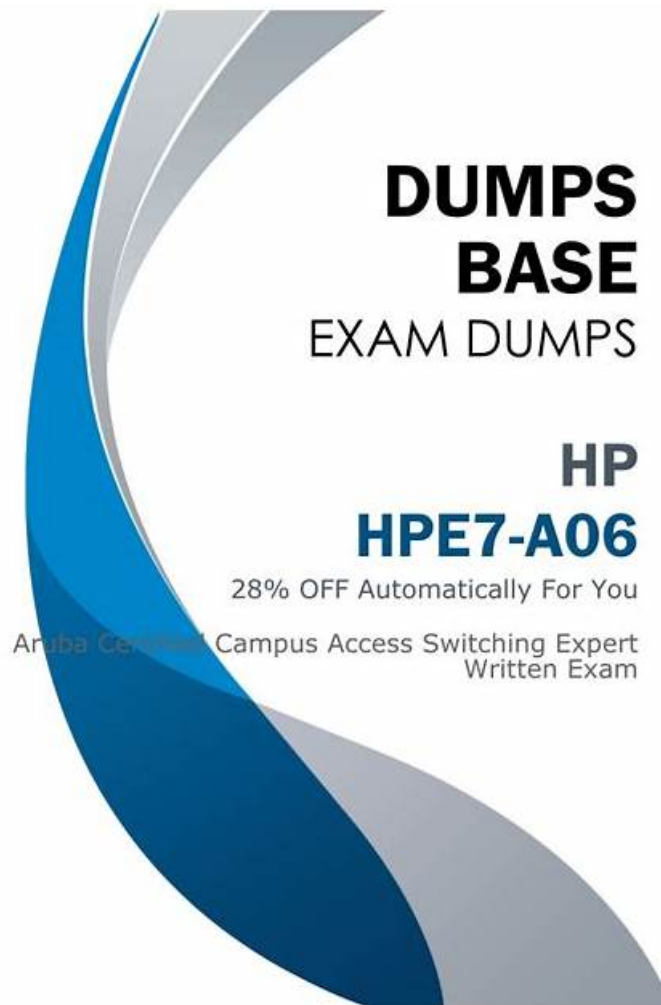


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HPE Campus Access Switching Expert Written Exam Sample Questions (Q21-Q26):

NEW QUESTION # 21

Refer to the exhibit.



```
sw-aggl(config)# show vsx status
VSX Operational State
-----
ISL channel           : In-Sync
ISL mgmt channel      : operational
Config Sync Status    : sw_image_version_mismatch_error
NAE                   : sw_image_version_mismatch_error
HTTPS Server          : sw_image_version_mismatch_error

Attribute              Local              Peer
-----
ISL link               lag256             lag256
ISL version            2                  2
System MAC             02:00:00:00:00:01  02:00:00:00:00:01
Platform              8325               8325
Software Version       GL.10.09.0010      GL.10.11.1021
Device Role            primary             secondary
```

Based on the screenshot, what is required to bring the secondary switch MCLAO interfacesonline"?

- A. Use the same ServiceOS version as on the primary.
- **B. Use the same CX OS version as on the primary.**
- C. Update the MAE agents on the secondary.
- D. Use vsx-software-upgrade on the secondary.

Answer: B

Explanation:

The exhibit shows the output of show vsx status on sw-aggl. Key information includes:

- * Config Sync Status : sw_image_version_mismatch_error
- * NAE : sw_image_version_mismatch_error
- * HTTPS Server : sw_image_version_mismatch_error
- * Primary Software Version: GL.10.09.0010
- * Secondary Software Version: GL.10.11.1021

These errors clearly indicate that the primary and secondary VSX switches are running different AOS-CX software versions. For VSX to operate correctly, including configuration synchronization and enabling features like MC-LAG interfaces, both switches in the pair must run the exact same software version.

* Analysis of Options:

- * A: vsx-software-upgrade is used for upgrades but doesn't resolve the current mismatch requirement.
- * B: NAE errors are a symptom of the underlying version mismatch.
- * C: Using the same CX OS version on both primary and secondary switches is the fundamental requirement to clear the mismatch errors and achieve a stable VSX operational state.
- * D: While ServiceOS is part of the system, the primary requirement and error message relate to the main AOS-CX software version.

References: AOS-CX VSX Guide (Chapter on VSX Requirements, Troubleshooting, Software Updates). This relates to "Network Resiliency and virtualization" (8%) and "Troubleshooting" (10%) objectives.

NEW QUESTION # 22

Refer to the exhibit.

```

interface lag 11 multi-chassis
description 9004-1
no shutdown
no routing
vlan trunk native 1
vlan trunk allowed all
lACP mode active

interface lag 12 multi-chassis
description 9004-2
no shutdown
no routing
vlan trunk native 1
vlan trunk allowed all
lACP mode active

```

A gateway cluster needs to be connected to the VSX-enabled switches where MC-LAG is configured. What is a possible constraint?

- A. LACP is not supported during the initial provisioning and needs to be turned off.
- B. The command `lACP fallback` is missing on the interface lag level.
- C. LLDP needs to be enabled to detect LACP-configured interfaces.
- D. `lACP mode active` needs to be configured on the gateways when using `static-activate` mode.

Answer: A

Explanation:

The question asks about a possible constraint when connecting an Aruba Gateway Cluster to upstream VSX switches using an MC-LAG.

* Scenario: Gateway Cluster acts as a single logical device forming an LACP LAG. The VSX switches are configured with MC-LAG, allowing the gateway cluster to bundle links across the two physical VSX switches.

* LACP & Initial Provisioning: LACP requires negotiation (exchange of LACP PDUs) between both ends of the link bundle to activate the LAG. During initial gateway provisioning (ZTP, OTP), the gateway might be in a minimal state without its full configuration, including LACP parameters. If the VSX switch ports are configured strictly for LACP active mode, the LAG might not form until the gateway is fully provisioned and running LACP. This lack of connectivity during provisioning is a constraint.

* Analysis of Options:

* A: `lACP mode active` is standard, but the issue is during provisioning, not runtime mode choice.

"static-activate" is unrelated.

* B: The absence of `lACP fallback` could be the constraint. Fallback allows connectivity if LACP doesn't establish, which is useful during provisioning.

* C: LLDP is not required for LACP.

* D: Correctly identifies the constraint: Standard LACP required by the switch might not be supported or active on the gateway during its initial provisioning phase, potentially hindering the setup process. Workarounds like disabling LACP or enabling LACP fallback on the switch ports during this phase are often necessary.

* Conclusion: LACP incompatibility during the initial provisioning phase of the gateway cluster is a common constraint when connecting to switches requiring LACP for the LAG.

References: Aruba Gateway Installation Guides, AOS-CX MC-LAG Configuration Guide, LACP Standard (IEEE 802.3ad). This relates to "Connectivity" (9%) and "Network Resiliency and virtualization" (8%).

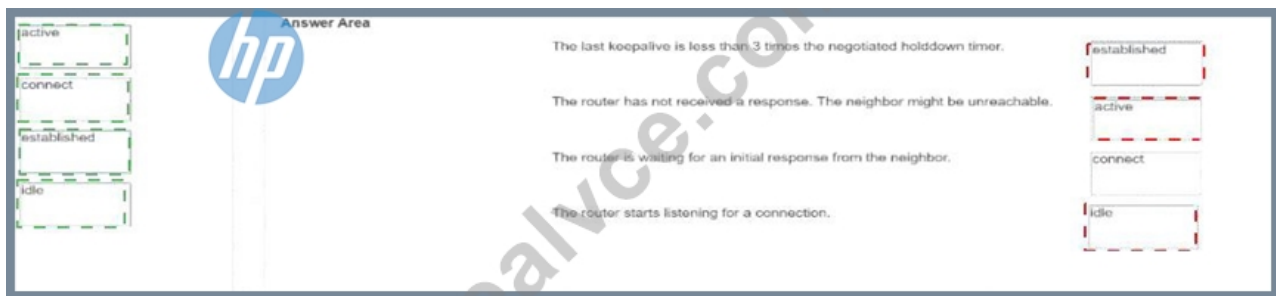
NEW QUESTION # 23

Match the BGP connection states to the conditions that could have caused that state.

State	Condition
active	The last keepalive is less than 3 times the negotiated holddown timer.
connect	The router has not received a response. The neighbor might be unreachable.
established	The router is waiting for an initial response from the neighbor.
idle	The router starts listening for a connection.

Answer:

Explanation:



Explanation:

The last keepalive is less than 3 times the negotiated holddown timer. -->established The router has not received a response. The neighbor might be unreachable. -->active The router is waiting for an initial response from the neighbor. -->connect The router starts listening for a connection. -->idle This question requires matching specific BGP connection states from the BGP Finite State Machine (FSM) to descriptions of the router's activity or condition in those states.

* Idle: This is the starting state. The BGP process is administratively up but is not actively trying to connect. It refuses all incoming BGP connection attempts but listens for a start event (like configuration or operator initiation) or potentially listens for incoming connections if configured for passive peering.

* Matches: "The router starts listening for a connection." (This describes the passive aspect of the Idle state before active attempts begin).

* Connect: In this state, BGP is actively trying to establish a TCP connection with the peer. It has initiated the TCP three-way handshake and is waiting for it to complete, or it is waiting for a remote peer to initiate the TCP connection.

* Matches: "The router is waiting for an initial response from the neighbor." (Specifically, waiting for the TCP handshake to complete).

* Active: If the TCP connection attempt in the Connect state fails (e.g., timeout), the router transitions to the Active state. In this state, it will periodically retry establishing the TCP connection while also listening for an incoming connection from the peer. This state indicates repeated failures to establish TCP connectivity.

* Matches: "The router has not received a response. The neighbor might be unreachable." (This reflects the condition in the Active state where connection attempts fail, suggesting the neighbor is unreachable at the TCP level).

* Established: This is the final, operational state where the TCP connection is up, BGP session parameters have been successfully negotiated via OPEN messages, and KEEPALIVE messages are being exchanged. Routing information (UPDATES) can be exchanged. The condition described implies the session is healthy and timers are being maintained.

* Matches: "The last keepalive is less than 3 times the negotiated holddown timer." (While phrased slightly unusually, this indicates the holddown timer has not expired because keepalives are being received within the expected window (Holddown Timer = ~3 * Keepalive Interval). This confirms the session is alive, which is true in the Established state).

References: RFC 4271 (BGP4 Specification - Section 8, Finite State Machine), BGP configuration and troubleshooting guides for AOS-CX. This relates to the "Routing" (16%) and "Troubleshooting" (10%) objectives.

NEW QUESTION # 24

Which is a best practice for configuring GBP?

- A. Use downloadable user roles (DUR) to configure GBP.
- B. Configure GBP classes to have a destination role that is different from the associated user role.
- C. Configure GBP classes to have a destination role that is the same as the associated user role.
- D. Use static user roles (SUR) to configure GBP

Answer: A

Explanation:

The question asks for a best practice when configuring Group-Based Policy (GBP). GBP simplifies policy management by assigning users/devices to roles and defining policies between these roles, often leveraging dynamic assignment from an authentication server.

* GBP Concepts: Policies are typically defined based on source and destination roles. Roles can be assigned statically on the switch or dynamically via an authentication server like ClearPass.

* Analysis of Options:

* A & C: Policies define interactions between roles (source role to destination role). These roles can be the same (intra-role policy) or different (inter-role policy). Neither option represents a singular

"best practice" for all configurations.

* B: Using Static User Roles (SUR) is possible but less flexible and scalable than dynamic assignment for large or complex environments.

* D: Using Downloadable User Roles (DUR) is generally considered a best practice. DUR allows roles and associated policies (including GBP attributes like GPID) to be centrally defined on an authentication server (e.g., ClearPass) and dynamically assigned

to users/devices upon unsuccessful authentication. This provides scalability, consistency, and easier management.

* Conclusion: Leveraging Downloadable User Roles (DUR) from a central authentication server like ClearPass is a best practice for implementing scalable and manageable Group-Based Policies.

References: Aruba Dynamic Segmentation concepts, Group-Based Policy (GBP) documentation, Aruba ClearPass integration guides. This relates to "Security" (10%) and "Authentication/Authorization" (9%) objectives.

NEW QUESTION # 25

Exhibit.

agg-sw1:

```
show bgp ipv4 unicast neighbors 10.250.17.25 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 10.250.255.11
```

Network	NextHop	Metric	LocPrf
*>e 10.216.12.0/24	10.250.17.26	0	0
*>e 10.250.10.0/24	10.250.17.26	0	0
*>e 10.250.128.0/22	10.250.17.26	0	0
*>e 10.250.255.11/32	10.250.17.26	0	0
*>e 192.168.65.0/24	10.250.17.26	0	0
*>e 192.168.68.0/24	10.250.17.26	0	0
*>e 192.168.69.0/24	10.250.17.26	0	0
*>e 192.168.72.0/24	10.250.17.26	0	0

Total number of entries 8

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 10.250.128.0/22	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 use route-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 metric 200 to the route-map BGP-EXPORT.
- B. Add set as-path prepend 65345 65345 65345 65345 to the route-map BGP-EXPORT Match with local-export Ip prefix-list.
- C. Add set local-preference 200 to the route-map BGP-EXPORT
- D. Add set as-path 65345 65345 65345 65345 to the route-map BGP-EXPORT Match with local-export ip prefix-list.

Answer: B

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 # 26

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