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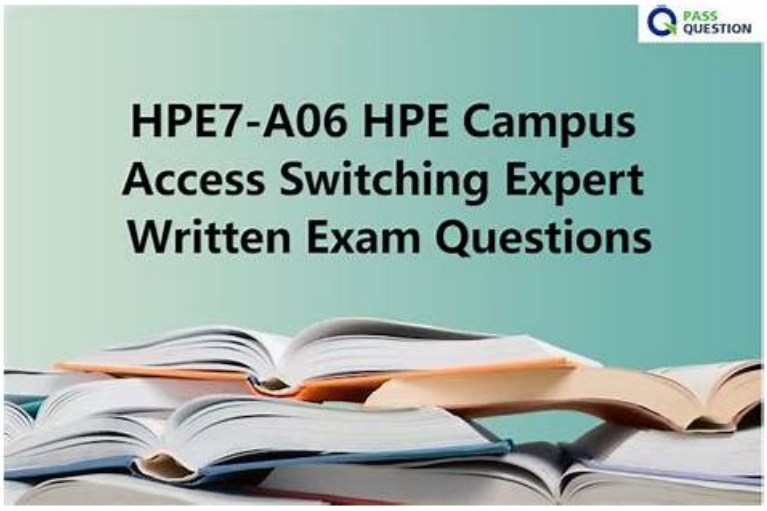

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HPE Campus Access Switching Expert Written Exam Sample Questions (Q23-Q28):

NEW QUESTION # 23
Ever since a recent firewall change at your WAN/Internet edge, the 8GP state in your VSX pair has not returned to Established. What should you check to restore BGP functionality at the site?

- A. Restart the routing service so thatBGP auto-discovers its neighbors.
- B. Restart NAT service for the BGP interface.
- C. Confirm that BGP Peer AS has not changed.
- D. Confirm that appropriate TCP ports are still allowed.

Answer: D

Explanation:
The BGP state on a VSX pair is stuck (not 'Established') after a recent firewall change at the WAN/Internet edge, where the BGP peering likely occurs.
* BGP and Firewalls:BGP establishes sessions usingTCP port 179. Firewalls located between BGP peers must explicitly permit TCP port 179 traffic bidirectionally for the peering to establish and maintain. Firewall changes are a frequent cause of broken BGP sessions.
* Troubleshooting Steps After Firewall Change:The most logical first step is to verify that the firewall change did not inadvertently block TCP port 179 between the configured BGP neighbor IP addresses.
* Analysis of Options:
* A: Restarting routing service is disruptive and not the first step.
* B: Confirming that appropriate TCP ports (specifically 179) are still allowed through the firewall directly addresses the most probable cause related to the firewall change event.
* C: Restarting NAT service is likely irrelevant unless NAT is incorrectly configured for BGP peers.
* D: Confirming the peer AS is a basic configuration check but less likely related to thefirewall changeevent than port blocking.
* Conclusion:Given the problem occurred immediately following a firewall change, verifying that the firewall still permits TCP port 179 between the BGP peers is the most direct and likely troubleshooting step.
References:BGP protocol specifications (RFC 4271), Firewall management principles, Network troubleshooting methodology. This relates to "Routing" (16%), "Security" (10%), and "Troubleshooting" (10%) objectives.

NEW QUESTION # 24
Which issue may becausing the new door locks on the APs to notwork?

- A. AT power to the AP is too much.
- B. BT power to the AP is too much.
- C. AT power to the AP is notenough.
- D. AF power to the AP is not enough.

Answer: D

Explanation:
New PoE-powered door locks, connected via the PoE passthrough port on Aruba APs, are not working. We need to find the likely cause related to PoE power.
* PoE Passthrough:An AP feature where the AP, powered by PoE from a switch, provides PoE power out to another device connected to one of its Ethernet ports.
* Power Budget:The AP must receive enough power from the switch via its PoE input (e.g., 802.3af, 802.3at, 802.3bt) to power itselfandmeet the power demand of the downstream device (the door lock).
* PoE Standards Power (Approx. Available to Device):
* 802.3af (PoE): ~13 Watts
* 802.3at (PoE+): ~25.5 Watts
* 802.3bt (PoE++): 51W (Type 3) or 71W (Type 4)
* Analysis:Modern APs (especially Wi-Fi 6/6E) can consume significant power themselves (>15W or >25W under load). Standard 802.3af PoE (supplying only ~13W) is often insufficient to power both a modern AP and a downstream PoE device like a door lock. The AP will power up, but won't enable PoE output if its input power budget is insufficient.
* Analysis of Options:
* A, B: Too much power (AT/BT) isn't the issue; devices only draw what they need.
* C: AF power (~13W) received by the AP is very likelynot enoughto power both the AP and the door lock.
* D: AT power (~25.5W)mightbe insufficient if the combined load of the AP and lock exceeds this, but AF being insufficient (C) is a more common limitation.
* Conclusion:Insufficient input power to the AP is the most common reason for PoE passthrough failure. 802.3af (PoE) power is often inadequate.
References:IEEE 802.3 PoE standards (af/at/bt), Aruba Access Point datasheets (PoE requirements, passthrough capabilities/budgets). This relates to "WLAN" (9%) and "Connectivity" (9%) objectives.

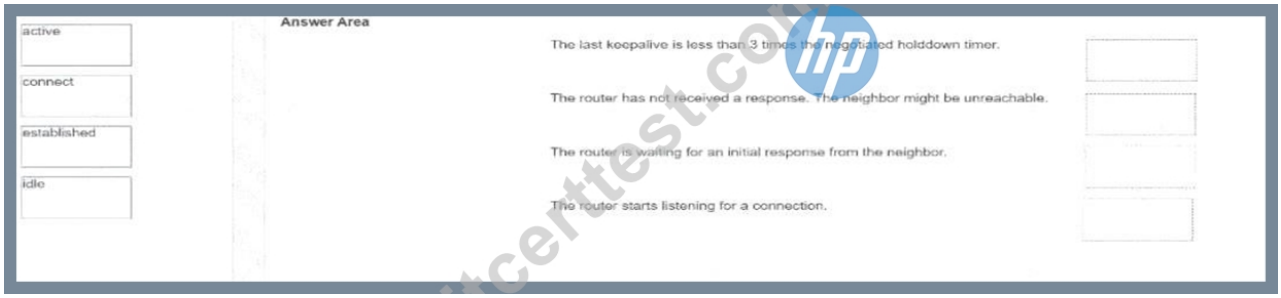
NEW QUESTION # 25
You are configuring an SSID thatisusing 802.IX as a security mechanism. Whatis the reason tor using WPA3- Ertorpnse (CCM-128) when deploying Wi-Fi 6 networks?

- A. WPA3-Entorprise(CCM-128) is also called WPA3-Entorpnso 192-bit mode. lt is WPA3 only and enforces specific EAP certificate ciphers.
- B. WPA3-Enterprise(CCM-128) is also called WPA3-Eniarpnse Compatibility Mode. It will allow WPA2 clients to connect.
- C. WPA3-Enterprise(CCM-128) is also called WPA3-EnterpriseOnly Mode. There is no support tor WPA2 clients.
- D. WPA3-Enterprise (CCM-128) is also called WPA3-Ente'prise Transition Mode. It will allow WPA2 clients to conned.

Answer: D

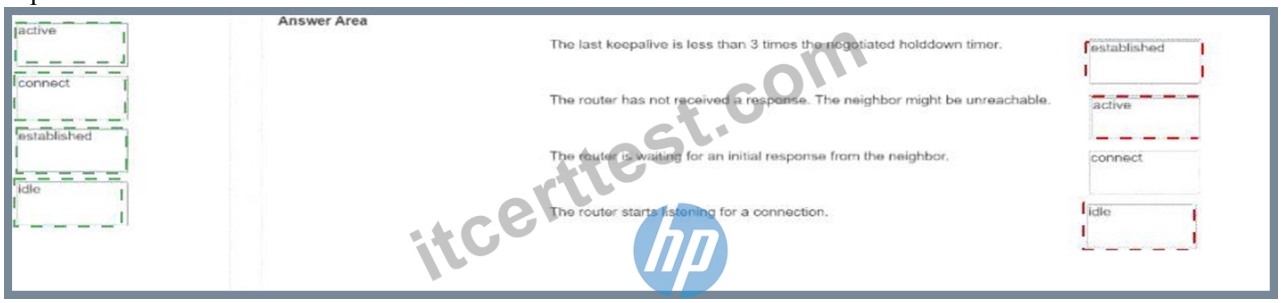
Explanation:
The question asks for the reason for using WPA3-Enterprise (CCM-128) when deploying Wi-Fi 6 networks.
* WPA3-Enterprise Modes:
* CCM-128:Uses AES-CCMP-128 (same cipher as WPA2). Its main purpose is to provide a transition path from WPA2 to WPA3. It allows both WPA3-capable and WPA2-only clients to connect to the same SSID. It enforces Protected Management Frames (PMF, 802.11w) when possible(required for WPA3, optional for WPA2). It's often called "Transition Mode" or "Compatibility Mode".
* GCMP-256:Uses stronger AES-GCMP-256. It operates in "WPA3-Only Mode" and doesnot allow WPA2 clients.
* Wi-Fi 6 (802.11ax) & WPA3:Wi-Fi 6 certification requires support for WPA3.
* Analysis of Options:
* A: Incorrectly calls CCM-128 "192-bit mode" and "WPA3 only".
* B: Correctly calls CCM-128 "Transition Mode" and states it allows WPA2 clients.
* C: Correctly calls CCM-128 "Compatibility Mode" and states it allows WPA2 clients.
"Compatibility Mode" and "Transition Mode" are used interchangeably for this WPA3 mode.
* D: Incorrectly calls CCM-128 "Only Mode" and states no WPA2 support.
* Conclusion:Both Option B and Option C accurately describe WPA3-Enterprise (CCM-128). It is designed as a transition/compatibility mode to allow environments to adopt WPA3 features (like mandatory PMF for capable clients) while still supporting legacy WPA2 clients on the same network during the migration period. Selecting either B or C would be functionally correct based on common terminology.
References:Wi-Fi Alliance WPA3 specifications, Aruba WPA3 deployment guides, 802.11ax standard information. This relates to the "WLAN" (9%) and "Security" (10%) objectives.

NEW QUESTION # 26
Match the BGP connection states to the conditions that could have caused that state.



Answer:

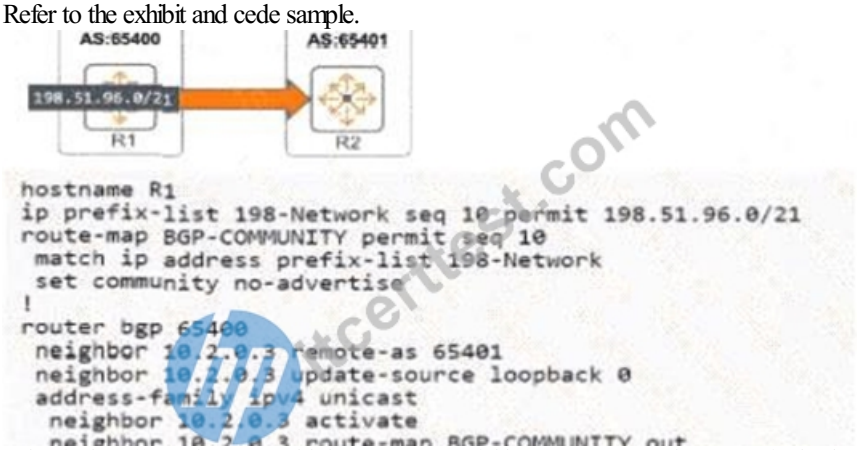
Explanation:



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 hasnotexpired 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 # 27
Refer to the exhibit and cede sample.



What is the effect when you add thestatement "neighbor 10.2.0.3 send-community both" to the ipv4 address family? (Select two.)

- A. It causes R1to negotiate for the ability to import and export all type-1 and lype-2 communities with R2.
- B. It will cause existing BGP peering between R1and R2 to flap.
- C. It causes R1 to negotiate the ability to send and receive standard and extended communities with R2.
- D. The feature will be enabled without consequence to the R1established session with R2.
- E. Itcauses R1to allow the exchange ofcommunities with NLRI records in both inbound and outbound direction

Answer: B,C

Explanation:
The question asks for the effects of adding the command neighbor 10.2.0.3 send-community both to the BGP configuration under the IPv4 address family context for neighbor R2 (10.2.0.3) on router R1.
* send-community both:This command instructs R1 to send both standard (RFC 1997) and extended (RFC 4360) BGP community attributes to neighbor R2. By default, communities are not sent.
* BGP Capability Negotiation:Adding or changing features like community advertisement modifies the BGP capabilities exchanged between neighbors during session establishment. Any change to these capabilities requires the BGP session to be reset (flap) so that the peers can renegotiate using the new capabilities.
* Analysis of Options (Select Two):
* A: Correct (partially). It enables R1 tosendstandard and extended communities. The ability to receivedepends on the peer and local config. The capability isnegotiatedupon session reset.
* B: Incorrect. Changing capabilities requires the session to flap; it's not without consequence.

* C: Incorrect. It primarily enablesoutboundsending from R1. Inbound acceptance is implicit if the neighbor is activated.
* D: Correct. Modifying BGP neighbor capabilities, such as enabling send-community, necessitates a BGP session reset (flap) for the change to take effect.
* E: Incorrect terminology ("import/export", "type-1/type-2 communities").
* Conclusion:The command enables R1 to send communities (A describes the purpose/capability), and adding this command to an existing session will cause the session to flap for renegotiation (D describes the immediate consequence).
References:RFC 1997, RFC 4360, AOS-CX BGP Configuration Guide (communities, neighbor configuration). This relates to the "Routing" (16%) objective.

NEW QUESTION # 28
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