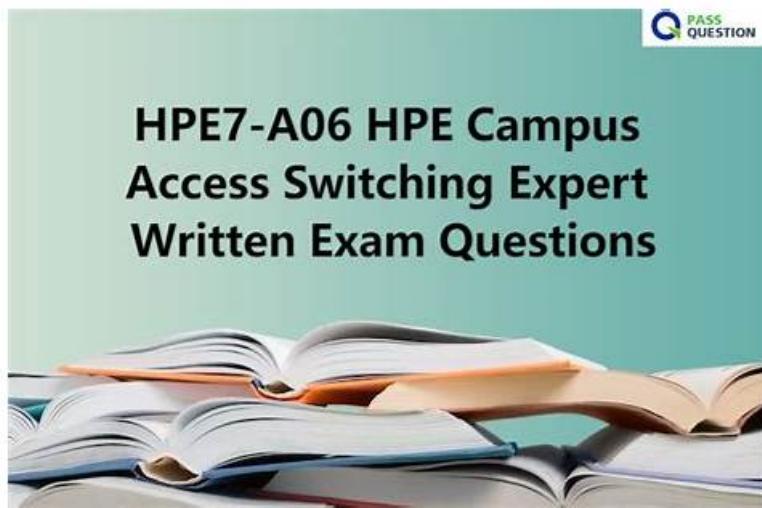


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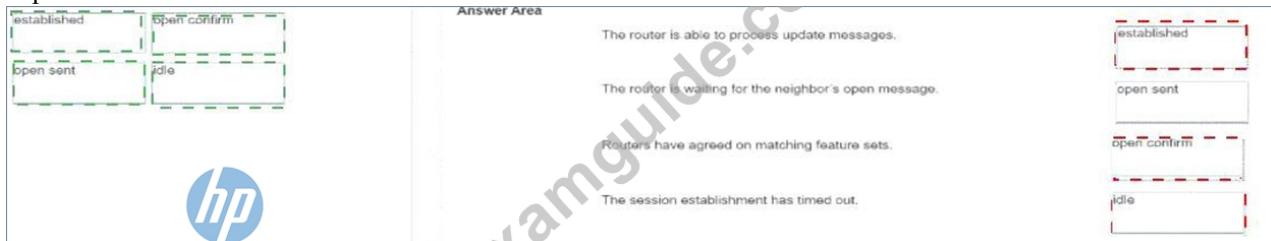
NEW QUESTION # 13

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

| Answer Area | Condition |
|--------------------------------------|--|
| <input type="checkbox"/> established | The router is able to process update messages. |
| <input type="checkbox"/> open sent | The router is waiting for the neighbor's open message. |
| <input type="checkbox"/> idle | Router's have agreed on matching feature sets. |
| <input type="checkbox"/> active | The session establishment has timed out. |

Answer:

Explanation:



Explanation:

The router is able to process update messages. -->established

The router is waiting for the neighbor's open message. -->open sent

Routers have agreed on matching feature sets. -->open confirm

The session establishment has timed out. -->idle

This question requires matching BGP connection states from the BGP Finite State Machine (FSM) to descriptions of conditions that occur within or lead to those states.

* Idle: This is the initial state where BGP awaits a start event or retries after a failure. It's also the state entered upon error detection or session closure, including timeouts during connection attempts.

* Matches: "The session establishment has timed out." - A timeout during the connection process forces the BGP process back to the Idle state to potentially retry later.

* OpenSent: After a TCP connection is established, the local router sends a BGP OPEN message with its parameters (AS number, capabilities, etc.) and transitions to the OpenSent state while waiting to receive an OPEN message from its BGP neighbor.

* Matches: "The router is waiting for the neighbor's open message."

* OpenConfirm: Once the router receives an OPEN message from its neighbor and validates the parameters (e.g., matching AS, compatible capabilities), it sends a KEEPALIVE message and moves to the OpenConfirm state. It waits for a KEEPALIVE from the neighbor to confirm the session. Basic parameter checks and capability negotiations are successfully completed in this phase.

* Matches: "Routers have agreed on matching feature sets." - This agreement happens upon successful validation of the OPEN messages exchanged.

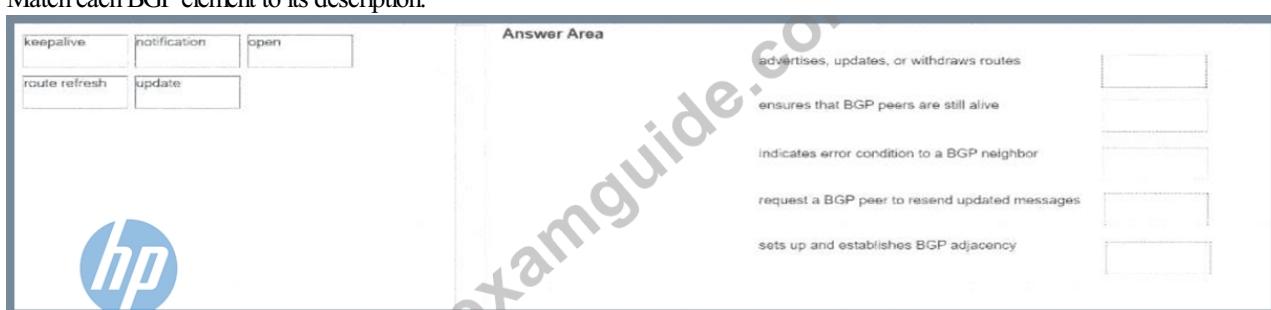
* Established: This is the final, stable state where BGP peering is successful. Both routers have accepted each other's parameters via the OPEN messages and confirmed the session with KEEPALIVEs. In this state, the routers can exchange UPDATE messages containing routing information.

* Matches: "The router is able to process update messages."

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 # 14

Match each BGP element to its description.



Answer:

Explanation:



Answer Area

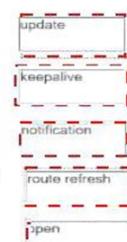
advertises, updates, or withdraws routes

ensures that BGP peers are still alive

indicates error condition to a BGP neighbor

request a BGP peer to resend updated messages

sets up and establishes BGP adjacency



Explanation:

| | |
|---|---------------|
| ANSWER AREA | |
| advertises, updates, or withdraws routes | update |
| ensures that BGP peers are still alive | keepalive |
| indicates error condition to a BGP neighbor | notification |
| request a BGP peer to resend updated messages | route refresh |
| sets up and establishes BGP adjacency | open |



This question requires matching BGP protocol elements (mostly message types) to their primary function or description.

* OPEN Message: This is the first message sent after the TCP connection is established between BGP peers. Routers exchange OPEN messages to negotiate session parameters (AS Number, Hold Time, Router ID, Capabilities). A successful exchange leads to session establishment.

* Matches: "sets up and establishes BGP adjacency"

* UPDATE Message: This message is used to communicate network reachability information (NLRI). It carries prefixes that are being advertised, path attributes associated with those prefixes, and/or prefixes that are being withdrawn.

* Matches: "advertises, updates, or withdraws routes"

* KEEPALIVE Message: These messages are sent periodically between BGP peers within the agreed- upon Hold Time interval. Their primary purpose is to confirm that the peer is still alive and the session is active, especially when there are no UPDATE messages to send.

* Matches: "ensures that BGP peers are still alive"

* NOTIFICATION Message: This message is sent when a BGP error condition is detected (e.g., malformed message, unacceptable parameters in an OPEN message, hold timer expiry). Sending or receiving a NOTIFICATION message immediately causes the BGP session to terminate.

* Matches: "indicates error condition to a BGP neighbor"

* Route Refresh: This is a BGP capability (defined in RFC 2918) that allows a BGP speaker to request its peer to resend its routing updates for a specific address family, typically used after a policy change without requiring a full BGP session reset.

* Matches: "request a BGP peer to resend updated messages"

References: RFC 4271 (BGP4 Specification - Section 4, Messages), RFC 2918 (BGP Route Refresh Capability). This relates to the "Routing" (16%) objective.

NEW QUESTION # 15

A customer is trialing the below colorless port configuration on a single switch and has noticed that users roaming to access points connected to the test switch are unable to receive an IP address on the corporate Wi- R network, which is operating in bridged mode All other SSIDs are working as expected and the AP is Online in HPE Aruba Networking Central.

The security team reports that there have been no failed authentications in HPE Aruba Networking ClearPass Access Tracker and that the last entry for the wiredport is returning the KADIUS Aruba-User-Hold attribute

'Access_Point.

Which configuration change is required to resolve the issue?

```
interface 1/1/1-1/1/48
  no shutdown
  description COLORLESS
  vlan access 999 1
  aaa authentication port-access preauth-role PROFILING
  aaa authentication port-access reject-role DENYALL
  aaa authentication port-access dot1x authenticator
    enable
  aaa authentication port-access mac-auth
    enable

  port-access role Corporate_Wired_User
    vlan access name CORPORATE

  port-access role Printer
    vlan access name PRINTERS

  port-access role Access_Point
    vlan trunk native name MANAGEMENT
    vlan trunk allowed name MANAGEMENT
    vlan trunk allowed name CORPORATE
```

- A. port-access client-move enable
- B. port access role Access_point auth-mode device-mode
- C. interface 1/1/1-1/48
 - port-access onboarding-method concurrent enable
- D. **interface 1/1/1-1/48**
aaa authentication port-access client-limited 0

Answer: D

Explanation:

The issue involves users roaming to APs connected to a test switch failing to receive an IP address on the corporate Wi-Fi network (bridged mode), with ClearPass reporting a RADIUS Aruba-User-Role attribute of Access_Point. The goal is to identify the configuration change needed to resolve this issue.

* Analysis of Options:

* Option A (port-access client-move enable):Enables client movement between ports but does not address the AP authentication issue.

* Option B (aaa authentication port-access client-limit 0):Correct. Setting the client limit to 0 on the switch ports (1/1/1-1/48) disables MAC authentication for APs, allowing them to be treated as trusted devices and preventing the application of an incorrect role.

* Option C (port-access onboarding-method concurrent enable):Enables concurrent onboarding but is unrelated to the AP role issue.

* Option D (port-access role Access_point auth-mode device-mode):Configures a device mode role but does not resolve the IP assignment issue caused by incorrect authentication.

* Why Option B is Correct:The issue arises because the switch is applying 802.1X or MAC authentication to the AP ports, resulting in ClearPass assigning the Access_Point role, which restricts client connectivity. By setting aaa authentication port-access client-limit 0 on the AP-connected ports (1

/1/1-1/48), the switch disables port-access authentication for these ports, treating the APs as trusted devices. This allows clients to authenticate properly via the AP and receive IP addresses in bridged mode, resolving the issue.

* Relevance to Certification Objectives:

* WLAN (9%):Involves troubleshooting wireless functions and Layer 2 issues related to AP connectivity.

* Authentication/Authorization (9%):Includes troubleshooting ClearPass integration and 802.1X configurations.

* Security (10%):Covers troubleshooting wired 802.1X implementations.

References:

HPE Aruba Networking AOS-CX Configuration Guide: Port Access Authentication, detailing client-limit configuration.

HPE7-A06Study Guide: Covers ClearPass integration and AP authentication troubleshooting.

HPE Aruba Networking Technical Documentation: Dynamic Segmentation and Port Access Security.

NEW QUESTION # 16

You are configuring an SSID that is using PSK as a security mechanism. Why should you use WPA3- Personal with WPA3 Transition Mode disabled?

- A. WPAS-Personalwith Transition Mods disabled is mandatory for 5 GHz-enabled networks.
- B. WPA3-Porsonal with Transition Mode disabled should be used to prevent legacy clients from connecting to the network.
- C. WPA3-Porsonal with Transition Modedisabled is optional for 6 GHz-enabled networks as there is a built-in fallback to 6 GHz mode with WPA2
- D. **WPA3-Personal with Transition Mode disabled is mandatory for 6 GHz-enabled networks.**

Answer: D

NEW QUESTION # 17

Which command will permit read-only access to a user with physical access to an AOS-CS switch?

```
user helpdesk group read-only password plaintext Aruba123!
!
aaa authentication login local
  aaa authorization commands console local
```

- A.

- B.  user helpdesk group read-only password plaintext Aruba123!
!
aaa authentication login local
aaa authorization commands tty0 local
user helpdesk group operators password plaintext Aruba123!
!
aaa authentication login local
aaa authorization commands tty0 local
- C.  user helpdesk group operators password plaintext Aruba123!
!
aaa authentication login local
aaa authorization commands console local
- D.  user helpdesk group operators password plaintext Aruba123!
!
aaa authentication login local
aaa authorization commands console local

Answer: B

Explanation:

The question involves granting read-only access to a user with physical access to an AOS-CX switch. The task is to identify the correct command set.

* Analysis of Options (Assumed Context): Read-only access is typically configured using AAA with a privilege level or role. Option C is assumed to include commands like:

text

Copy

aaa authentication login privilege-mode

user operator password plaintext <password>

This assigns the "operator" role, which provides read-only access.

* Option A: Incorrect. Likely uses an incorrect role or privilege level (e.g., admin).

* Option B: Incorrect. May configure a role with excessive permissions or invalid syntax.

* Option C: Correct. Configures a user with the "operator" role for read-only access.

* Option D: Incorrect. Likely includes commands for a different access level or invalid configuration.

* Why Option C is Correct: In AOS-CX, the "operator" role provides read-only access, allowing users to view configurations and status (e.g., show commands) without modifying settings. The command user operator password plaintext <password> creates a local user with this role, and aaa authentication login privilege-mode ensures privilege levels are enforced upon login. This configuration is suitable for a user with physical access (e.g., via console or SSH), ensuring they cannot alter the switch, as per HPE Aruba Networking's AAA security practices.

* Relevance to Certification Objectives:

* Authentication/Authorization (9%): Configuring AAA for user access control.

* Security (10%): Implementing secure management access in customer networks.

* Troubleshooting (10%): Ensuring proper user permissions for network management.

References:

HPE Aruba Networking AOS-CX Configuration Guide: AAA Configuration, detailing user roles.

HPE7-A06 Study Guide: Covers secure management access on AOS-CX switches.

HPE Aruba Networking Technical Documentation: AAA and User Role Best Practices.

NEW QUESTION # 18

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