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HPE Campus Access Switching Expert Written Exam Sample Questions (Q46-Q51):

NEW QUESTION # 46

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

State	Condition
established	The router is able to process update messages.
open confirm	The router is waiting for the neighbor's open message.
open sent	Routers have agreed on matching feature sets.
idle	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.

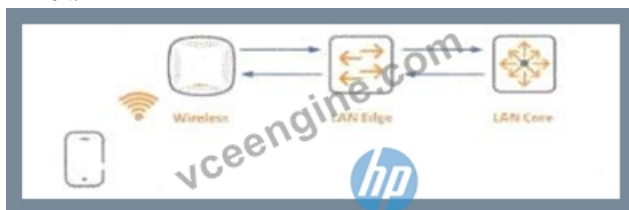
* Established: This is the final, stable state where BGP peering is successful. Both routers have accepted each other's parameters via the OPEN messages and confirmed the session with KEEPALIVES. In this state, the routers can exchange UPDATE messages containing routing information.

* 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 # 47

Exhibit.



An end-to-end QoS design needs to be Implemented for wired and wireless. What is needed on the LAN side to maintain the correct DSCP tags?

- A. to trust at DSCP-marked packets in the QoS interior ports
- B. to create a WMM to DSCP mapping on the WLAN side
- C. to create a custom DSCP mapping as WLAN DSCP values are different
- D. to create a WMM to DSCP mapping on the LAN Edge

Answer: A

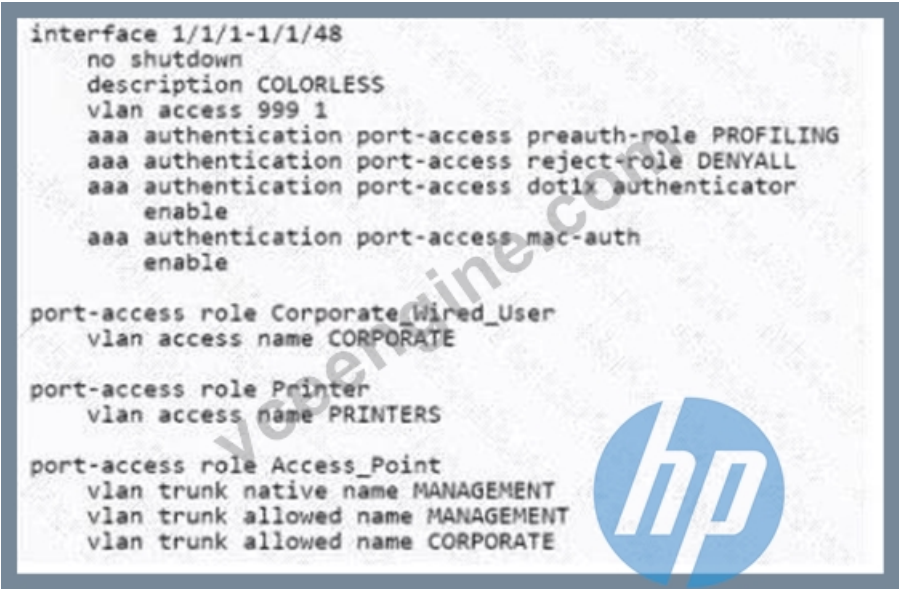
NEW QUESTION # 48

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

Answer: B

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 (1/1/1-1/1/48) 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

/1/1-1/1/48), 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:

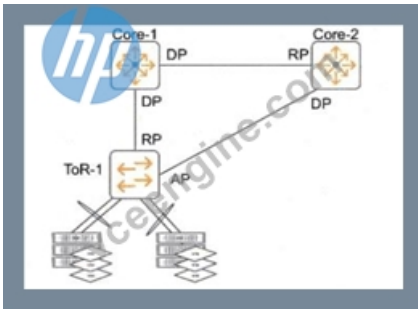
HPE Aruba Networking AOS-CX Configuration Guide: Port Access Authentication, detailing client-limit configuration.

HPE7-A06 Study Guide: Covers ClearPass integration and AP authentication troubleshooting.

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

NEW QUESTION # 49

Refer to the exhibit.



Acme Corp has VM workload running downstream of ToR-1 and has noticed performance degradation. They suspect ToR-1 uplinks are periodically overutilized. A partner has suggested you migrate your legacy 1U Core-1 and Core-2 to the CX 6400 series.

Which aspects of this platform would solve the customer's problem, while focusing on implementing HPE Aruba Networking best practices? (Select two.)

- A. The proposed new core's VSF capability allows multiple active forwarding pathways from ToR-1 based while eliminating the need for STP.
- B. MC-LAG permits Core-1 and Core-2 to present the edge 602.3ad device as a common system ID"
- C. The proposed solutions backplane stacking permits the directly connected ESXi hosts to load balance using active LACP.
- D. The CX 6400 series supports multiple active forwarding pathways from ToR-1 based on multi-region design.

Answer: A,B

Explanation:

The question involves a customer experiencing performance degradation due to periodic overutilization of ToR-1 uplinks to legacy Core-1 and Core-2 switches. The proposed solution is to migrate to CX 6400 series switches, and the task is to identify which aspects of the CX 6400 platform address the issue while adhering to HPE Aruba Networking best practices.

* Analysis of Options:

* Option A: Incorrect. The CX 6400 does not support "multi-region design" as a feature for active forwarding pathways.

* Option B: Correct. Virtual Switching Framework (VSF) on the CX 6400 allows multiple active forwarding pathways by creating a single logical switch from multiple physical switches, eliminating the need for STP in the core and reducing uplink congestion.

* Option C: Incorrect. Backplane stacking does not directly enable ESXi hosts to load balance using active LACP; this is unrelated to uplink utilization.

* Option D: Correct. Multi-Chassis Link Aggregation (MC-LAG) allows Core-1 and Core-2 to form a single logical 802.3ad (LACP) device, enabling active-active uplinks from ToR-1 and load balancing traffic to prevent overutilization.

* Why B and D are Correct: The performance degradation is caused by uplink overutilization, likely due to STP blocking redundant paths or inefficient load balancing. The CX 6400's VSF capability combines multiple switches into a single logical device, allowing all uplinks from ToR-1 to be active without relying on STP, which often blocks redundant paths. MC-LAG further enhances this by presenting Core-1 and Core-2 as a single LACP system, enabling ToR-1 to use all uplinks actively via LACP load balancing. These features align with HPE Aruba Networking best practices for high-availability and performance in campus core deployments.

* Relevance to Certification Objectives:

* Network Resiliency and Virtualization (8%): Designing and troubleshooting VSF and MC-LAG for resiliency and redundancy.

* Performance Optimization (6%): Analyzing and remediating uplink utilization issues.

* Connectivity (9%): Applying advanced networking architectures like VSF and MC-LAG.

References:

HPE Aruba Networking AOS-CX Configuration Guide: VSF and MC-LAG Configuration, detailing active forwarding and load balancing.

HPE7-A06 Study Guide: Covers core switch resiliency and performance optimization.

HPE Aruba Networking Technical Documentation: CX 6400 Series Deployment Best Practices.

NEW QUESTION # 50

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.

• B.

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

• C.

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

• D.

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

Answer: B

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 # 51

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