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HPE Campus Access Switching Expert Written Exam Sample Questions (Q10-Q15):

NEW QUESTION # 10

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

Answer: A

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

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

NEW QUESTION # 11

What is the best practice for using Dynamic Segmentation?

- A. Use a combination of role-based access and overlay technologies to create a layered security approach.
- B. Use Dynamic Segmentation only on devices that are connected to the network via Wi-Fi.
- C. Use UBT to create isolated networks for specific types of devices.
- D. Use LUR to assign roles to devices based on their location and DUR to assign roles to devices based on their user identity.

Answer: A

Explanation:

The question asks for the best practice for using Dynamic Segmentation.

* Dynamic Segmentation Overview:It's an architecture that provides unified policy and segmentation for wired and wireless clients by combining role-based access control, traffic tunneling (like UBT), and overlay technologies (like VXLAN/GRE). Policies are enforced centrally, typically at an Aruba Gateway.

* Analysis of Options:

- * A: UBT is a component, but Dynamic Segmentation encompasses more than just creating isolated networks with UBT.
- * B: Correctly describes the core principle: using a combination of role-based access (for defining who gets what policy) and overlay technologies (for transporting traffic to the policy enforcement point and providing segmentation). This creates a layered security approach.
- * C: Incorrect. A key benefit is unified policy across both wired and wireless access.
- * D: LUR and DUR are role types, but how they are assigned isn't the fundamental description of Dynamic Segmentation itself.

* Conclusion:Option B accurately captures the essence of Dynamic Segmentation as a best practice approach, integrating role-based policies with overlay networking for secure, unified access control.

References:Aruba Dynamic Segmentation Solution Guides, Whitepapers, and Configuration Examples. This relates to "Security" (10%), "Authentication/Authorization" (9%), and "Connectivity" (9%).

NEW QUESTION # 12

The client would like to automate the process of troubleshooting issues to have better visibility. Which solution would you recommend for your client?

- A. HPE Aruba Networking Switch Multi-Edit Software
- B. AIOps integrated into HPE Aruba Networking Central
- C. HPE Aruba Networking F3bric Compose
- D. Automate processes with scripting like Python.

Answer: B

Explanation:

The client wants to automate troubleshooting processes and gain better visibility into their network. We need to identify the recommended Aruba solution.

* Analysis of Options:

- * A. HPE Aruba Networking Fabric Composer: A tool primarily for data center fabric provisioning and management, not general campus troubleshooting automation.
- * B. HPE Aruba Networking Switch Multi-Edit Software: Likely refers to configuration management features (e.g., in Central or NetEdit) for applying changes to multiple switches, not primarily focused on automated troubleshooting or visibility.

* C. Automate processes with scripting like Python: AOS-CX supports on-box scripting (NAE) and REST APIs, enabling custom automation for monitoring and troubleshooting. While powerful, it requires development effort.

* D. AIOps integrated into HPE Aruba Networking Central: Aruba Central's AIOps capabilities are specifically designed to enhance visibility and automate aspects of troubleshooting. It uses AI

/ML to analyze network data, detect anomalies, provide insights into potential issues, correlate events, and offer prescriptive recommendations, directly addressing the client's need for better visibility and automated assistance with troubleshooting.

* Conclusion: While custom scripting (C) allows automation, Aruba Central AIOps (D) is the platform- integrated solution specifically marketed and designed by HPE Aruba Networking to provide enhanced visibility and automated insights for troubleshooting campus networks. It is the most direct and recommended solution among the options for achieving these goals within the Aruba ecosystem.

References: Aruba Central documentation (AIOps features), AOS-CX NAE and REST API documentation.

This relates to 'Troubleshooting' (10%) and 'Performance Optimization' (6%) objectives.

NEW QUESTION # 13

Which tables are synchronized between a pair of CX 8325 switches in a VSX cluster? (Select two.)

- A. IP Routing
- B. Spanning-TreeProtocol (STP)
- C. BGP Neighbors
- D. Link Layer Discovery Protocol (LLDP)
- E. MAC address

Answer: A,E

Explanation:

The question asks which tables are synchronized between a pair of CX 8325 switches in a Virtual Switching Extension (VSX) cluster. VSX is a high-availability solution that synchronizes specific tables to ensure consistent operation across both switches.

* Analysis of Options:

* A. BGP Neighbors: BGP neighbor tables are not synchronized in VSX; each switch maintains its own BGP sessions.

* B. MAC address: Correct. VSX synchronizes the MAC address table to ensure consistent Layer 2 forwarding across both switches.

* C. Spanning-Tree Protocol (STP): STP states are not synchronized; each switch runs its own STP instance, though they coordinate to avoid loops.

* D. IP Routing: Correct. VSX synchronizes the IP routing table to ensure consistent Layer 3 forwarding.

* E. Link Layer Discovery Protocol (LLDP): LLDP information is not synchronized; each switch maintains its own neighbor information.

* Why B and D are Correct: In a VSX cluster, the MAC address table and IP routing table are synchronized to ensure seamless Layer 2 and Layer 3 operations. This synchronization allows both switches to share a common view of the network, enabling features like active-active forwarding and hitless failover. The vsx-sync feature in AOS-CX ensures these tables are kept consistent across the VSX pair.

* Relevance to Certification Objectives:

* Network Resiliency and Virtualization (8%): Involves designing and troubleshooting VSX for resiliency and redundancy.

* Switching (19%): Includes implementing and troubleshooting Layer 2 technologies like MAC address tables.

* Routing (16%): Covers IP routing table synchronization in VSX environments.

References:

HPE Aruba Networking AOS-CX Configuration Guide: VSX Configuration, detailing table synchronization.

HPE7-A06 Study Guide: Covers VSX architecture and synchronization mechanisms.

HPE Aruba Networking Technical Documentation: VSX Overview, explaining MAC and routing table synchronization.

VSX (Virtual Switching Extension) synchronizes state information between the two switches in a cluster to enable active-active forwarding and provide a single logical view to downstream devices.

Analysis of Options:

A: BGP Neighbors: BGP sessions are typically established independently by each VSX member. While configurations can be synced, the dynamic state/neighbor table itself is not a core VSX synchronization item.

B: MAC address: The MAC address table is synchronized between VSX members. This is crucial for Layer 2 forwarding consistency and allowing either switch to forward traffic destined for a known MAC address learned via the VSX pair.

C: Spanning-Tree Protocol (STP): STP runs independently on each physical switch. VSX uses technologies like MC-LAG to provide loop-free active-active paths downstream, reducing reliance on STP blocking, but the STP state itself isn't synchronized via the ISL.

D: IP Routing: While the full IP routing table (RIB) is built independently on each switch via routing protocols, VSX Active Gateway synchronizes necessary Layer 3 information (like virtual gateway IP and MAC, and potentially ARP entries) to ensure consistent

first-hop routing and failover. Some sources might broadly categorize ARP synchronization under L3/IP routing context in VSX. Given that the ARP table (essential for L3 forwarding consistency) is synchronized, and it's not listed separately, "IP Routing" might encompass this synchronization aspect.

E: Link Layer Discovery Protocol (LLDP): LLDP information relates to physically connected neighbors of each switch and is not synchronized across the VSX ISL.

Conclusion: The MAC address table (B) is definitively synchronized. The ARP table is also synchronized, which is fundamental for Layer 3 forwarding consistency provided by Active Gateway. As ARP is not explicitly listed, and "IP Routing" (D) is, D is the most likely second answer intended to cover the necessary L3 state synchronization (primarily ARP and Active Gateway state) performed by VSX.

References: AOS-CX VSX Guide (specifically sections on State Synchronization, ISL, Active Gateway), VSX Fundamentals documentation. This relates to "Network Resiliency and virtualization" (8%) and "Switching" (19%) objectives.

NEW QUESTION # 14

the administrator of a large company noticed that there are some problems with UCC sessions on a wired network. Some employees complain about dropped calls and poor quality. The administrator wants to monitor jitter on AOS-CX switches with IP SLA, but notices results spiking to 100%. What should the administrator check first to correct monitoring to run as desired?

- A. source IP and source port combination
- B. **memory and processor usage**
- C. CoPP settings
- D. number of NAE agents

Answer: B

Explanation:

The administrator observes IP SLA jitter monitoring results spiking to 100% when monitoring UCC sessions.

This indicates either extremely severe network jitter or, more likely, a problem with the IP SLA operation or measurement itself on the AOS-CX switch.

* IP SLA & Jitter: IP SLA measures jitter by analyzing the inter-packet delay variation of probe packets.

Accurate measurements depend on the switch generating and processing these probes consistently.

* Factors Affecting IP SLA Accuracy:

* Switch Resource Contention: If the switch's CPU or memory is heavily utilized, the operating system might not schedule the IP SLA process promptly. This can lead to inconsistent generation or processing of probe packets, causing highly inaccurate measurements, including extreme jitter values like 100%.

* Control Plane Policing (CoPP): IP SLA packets are control plane traffic. If CoPP policies are too restrictive, they might drop or delay IP SLA probes, skewing results.

* Network Path Issues: Actual severe jitter on the network path would also cause high readings, but 100% spikes often suggest measurement error first.

* Troubleshooting Steps: When encountering unexpectedly high or erratic IP SLA results, the first step is often to rule out issues with the monitoring device itself.

* Analysis of Options:

* A. **memory and processor usage**: Checking the switch's resource utilization is crucial. High CPU /memory load can directly impact the timing accuracy of IP SLA operations.

* B. source IP and source port combination: Unlikely to cause 100% jitter spikes unless fundamentally misconfigured causing probe failure.

* C. number of NAE agents: NAE agents consume resources, but checking overall CPU/memory (A) is more direct.

* D. CoPP settings: A valid concern, as CoPP affects control plane traffic. However, checking overall system load (A) is typically a primary check before delving into specific policies like CoPP.

* Conclusion: High memory and processor usage (Option A) on the switch running the IP SLA operation is a common cause for inaccurate timing and resulting erroneous jitter measurements. This should be checked first to ensure the monitoring platform itself is functioning correctly.

References: AOS-CX IP SLA Guide, AOS-CX Management and Configuration Guide (Monitoring CPU /Memory, CoPP). This relates to "Performance Optimization" (6%) and "Troubleshooting" (10%).

NEW QUESTION # 15

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