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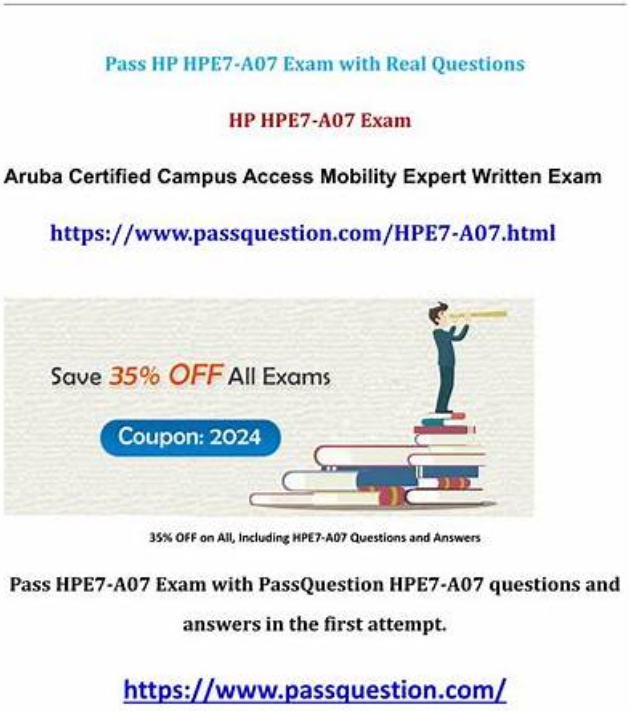

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HP HPE7-A07 Exam Syllabus Topics:

Topic	Details
Topic 1	• Network Resiliency and Virtualization: This section of the Aruba Certified Campus Access Mobility Expert Written exam assesses the expertise of a senior HP RF network engineer in designing and troubleshooting mechanisms for resiliency, redundancy, and fault tolerance. It is crucial for maintaining uninterrupted network services.

Topic 2	• Network Stack: This topic of the HP HPE7-A07 exam evaluates the ability of a senior HP RF network engineer to analyze and troubleshoot network solutions based on customer issues. Mastery of this ensures effective problem resolution in complex network environments.
Topic 3	• Authentication • Authorization: Senior HP RF network engineers are tested on their skills in designing and troubleshooting AAA configurations, including ClearPass integration. This ensures that network access is securely managed according to the customer's requirements.
Topic 4	• Connectivity: The topic covers developing configurations, applying advanced networking technologies, and identifying design flaws. It tests the skills of a senior HP RF network engineer in creating reliable, high-performing networks tailored to specific customer needs.
Topic 5	• Troubleshooting: This topic of the HP HPE7-A07 Exam assesses skills of a senior HP RF network engineer in troubleshooting. It also assesses the ability to remediate issues in campus networks. It is vital for ensuring network reliability and minimizing downtime in critical environments.
Topic 6	• Security: This topic evaluates the ability of a senior HP RF network engineer to design and troubleshoot security implementations, focusing on wireless SSID with EAP-TLS and GBP. It ensures the network is secure from unauthorized access and threats.
Topic 7	• WLAN: This HP HPE7-A07 exam topic tests the ability of a senior RF network engineer to design and troubleshoot RF attributes and wireless functions. It also includes building and troubleshooting wireless configurations, critical for optimizing WLAN performance in enterprise environments.
Topic 8	• Performance Optimization: The Aruba Certified Campus Access Mobility Expert Written exam focuses on analyzing and remediating performance issues within a network. It measures the ability of a senior RF network engineer to fine-tune network operations for maximum efficiency and speed.
Topic 9	• Switching: Senior HP RF network engineers must demonstrate proficiency in implementing and troubleshooting Layer 2 • 3 switching, including broadcast domains and interconnection technologies. This ensures seamless and efficient data flow across network segments.

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HP Aruba Certified Campus Access Mobility Expert Written Exam Sample Questions (Q17-Q22):

NEW QUESTION # 17

A university runs its own TV station in the city. The IT department deploys a multimedia server so the TV productions can be sent out to the entire campus over the IP network using multicast-based communications.
In order to improve the bandwidth consumption, PIM Sparse Mode and IGMP Snooping features are enabled.
When wireless users join the multicast groups, all users connected to the same WLAN experience poor network performance. However, wired users are not affected in this way. While troubleshooting, the network administrator saves the packet captures shown in the exhibit and concludes that all users, even those not joining the multicast group, receive the same multicast flow at slow speeds.
Which features should the network administrator enable to fix the problem?

- A. ARP broadcast conversion into unicast and Multicast Transmission Optimization
- B. UCC QoS correction and Multicast Transmission Optimization
- C. Dynamic Multicast Optimization and UCC QoS correction
- D. Dynamic Multicast Optimization and Multicast Transmission Optimization

Answer: D

Explanation:
* In WLANs, multicast frames are transmitted at the lowest basic rate, so a single multicast stream can consume significant airtime and slow the entire BSS, impacting clients that did not even join the group.
* Dynamic Multicast Optimization (DMO) converts multicast streams to per-client unicast, allowing the AP to use the highest supported unicast data rate and reliable retransmission-this prevents the low-rate multicast airtime penalty.
* Multicast Transmission Optimization (MTO) raises the transmit rate for any remaining multicast /broadcast that must still be sent as multicast, further reducing airtime.
* The captures show multicast sent as 802.11 data at a low rate; enabling DMO + MTO addresses exactly this symptom in Aruba deployments.
References: Aruba WLAN Optimization and QoS guides-sections on DMO (multicast-to-unicast conversion at highest rate) and MTO (increase multicast/broadcast TX rate).

NEW QUESTION # 18
You created a new SSID with the security settings shown in the exhibit.
Some, but not all users complain that client devices are unable to connect to this SS1D. What is the reason for this?

- A. The WPA3 Enterprise GCM-2S6 mode does not support transition mode.
- B. MAC authentication after a failed 802. ix authentication is not possible as the option "MAC Authentication Fall-Through" is disabled.
- C. WPA3 Enterprise is not backward compatible with WPA2 Enterprise.
- D. The primary servers shared key differs from the shared key configured for this server on HPE Aruba Networking Central.

Answer: B

Explanation:
If some users are unable to connect to an SSID configured with WPA3-Enterprise GCM-256, and the "MAC Authentication Fall-Through" is disabled, it means that devices which fail 802.1X authentication will not attempt MAC authentication. If these client devices are configured to use MAC authentication as a backup method, they will fail to connect, explaining the issue faced by some users.

NEW QUESTION # 19
Refer to the exhibit.
A network administrator is validating client connectivity and executes the show command shown in the exhibit. Which authentication method was used by the wireless station?

- A. 802.1X machine authentication
- B. WEBauth authentication
- C. MAC authentication
- D. 802.1X user authentication

Answer: D

Explanation:
The provided output is from the command:
(MC2) #show auth-tracebuf mac <MAC>
This command traces the authentication exchange between the access point (or mobility controller) and the RADIUS server for a specific client. The trace provides insight into the 802.1X authentication sequence and RADIUS responses.
From the exhibit:
* EAPOL (Extensible Authentication Protocol over LAN) Messages Observed:
* eap-id-req
* eap-id-resp
* eap-req

* eap-resp
* eap-success
These messages clearly indicate that an 802.1X (EAP-based) authentication took place. MAC authentication (MAB) or WebAuth would not include multiple EAP identity and response messages.
* RADIUS Messages:
* rad-req, rad-resp, rad-accept from /RADIUS1
* The presence of rad-accept indicates successful authentication.
Exact extract from ArubaOS (AOS-S/AOS 10 WLAN Authentication Guide):
"When the trace output shows EAP identity requests, EAP responses, and a RADIUS Access-Accept message, the authentication method in use is 802.1X (EAP-based user authentication). The presence of EAP-Success following the Access-Accept confirms successful 802.1X authentication."
* Follow-on WPA2 Key Exchange:
* Lines show wpa2-key1, wpa2-key2, wpa2-key3, and wpa2-key4.
* This sequence occurs after 802.1X authentication completes and is used to establish encryption keys for a WPA2 Enterprise session.
Exact extract from Aruba WLAN Troubleshooting Guide:
"After successful 802.1X authentication (EAP-Success), the controller exchanges four WPA2 keys with the station to derive the session keys used for data encryption. This confirms WPA2-Enterprise with 802.1X was used."
* No Indication of MAC or WebAuth:
* MAC authentication would show mac-auth or macauth messages instead of eap-id-req/resp.
* WebAuth involves HTTP-based redirection and is not visible in auth-tracebuf as EAP transactions.
Exact extract:
"MAC authentication shows 'macauth start' and 'macauth accept' entries, not EAPOL frames. WebAuth authentication uses a web redirect and does not appear as EAP frames in the trace buffer." Therefore, the trace confirms a WPA2-Enterprise 802.1X user authentication, where the user's credentials were validated by the RADIUS server, followed by the WPA2 key handshake.
Why the Other Options Are Incorrect:
* A. MAC authentication:Would show MAC-based request/response entries (macauth), not eap-id-req
/resp.
* C. WEBauth authentication:WebAuth occurs over HTTP/HTTPS and does not involve EAP messages; thus, no eap-id or eap-success would be seen.
* D. 802.1X machine authentication:Machine authentication occurs before user logon and is typically identified in logs by a computer account (e.g., host/computername$). Here, the username and context indicate a user-level session.
References of HPE Aruba Networking Switching Documents or Study Guide:
* ArubaOS 8/10 WLAN Authentication and Security Configuration Guide - "802.1X EAP Authentication and Trace Analysis."
* Aruba WLAN Troubleshooting Guide - "Using show auth-tracebuf to validate EAP authentication."
* Aruba Campus Wireless Design Fundamentals - "Understanding WPA2-Enterprise authentication flow (EAPOL, RADIUS, WPA2 4-Way Handshake)."
* Aruba Access Security and AAA Implementation Guide - "Distinguishing between MAC, WebAuth, and 802.1X authentication in debug outputs."

NEW QUESTION # 20
A customer is reviewing HPE Aruba Networking Central's Client Insights and notices that several wireless clients are not displaying flow attributes and network activity in the profile tab. This deployment is using AOS-10 mobility gateways.
What are the possible reasons why this data is not visible in HPE Aruba Networking Central? (Select two)

- A. The wireless client VLANs on the gateways are marked as untrusted
- B. The client's SSID is configured as bridged
- C. The client's SSID is configured as mixed mode, and the clients experiencing the issue are tunneled out of the APs
- D. The wireless client VLANs on the gateways are marked as trusted
- E. The client's SSID is configured as mixed mode, and the clients experiencing the issue are bridged out of the APs

Answer: B,E

Explanation:
* Why C and D are correct (bridged traffic):
"In AOS 10 deployments that use mobility gateways, application/flow visibility and Client Insights for wireless clients are derived from gateway DPI and firewall session state. When an SSID is bridged at the AP (including mixed mode where a client is bridged), client data traffic does not traverse the gateway. Because the gateway does not see the user flows, flow attributes and network activity are not populated in Central for those clients." This applies to:

* C - SSID is bridged (all clients bypass the gateway).
* D - SSID is mixed mode but the affected clients are bridged (those clients bypass the gateway).
* Why A, B, and E are not the best answers:
"When clients are tunneled (including mixed-mode clients that are tunneled) to the gateway, the gateway's stateful firewall and DPI engine observe the sessions and export flow/app data to Central." Thus A is not a reason for missing data.
"Client VLANs marked untrusted are evaluated by the gateway firewall/DPI and support visibility. Marking a VLAN trusted bypasses firewall enforcement, but flow visibility for tunneled WLAN clients is based on gateway DPI; the primary reason Central shows no flow attributes is that the traffic never reached the gateway (bridged path)." Therefore B/E are not the primary causes of this symptom in the scenario described.
References of HPE Aruba Networking Switching documents or Study Guide:
* Aruba AOS 10 Gateway and WLAN Configuration Guides - "Tunneled vs Bridged SSIDs and impact on gateway DPI/visibility."
* Aruba Central Operations Guide - "Client Insights data sources from mobility gateways."
* Aruba Policy Enforcement and Application Visibility - "Gateway DPI and stateful firewall as the source for app/flow telemetry for wireless clients."

NEW QUESTION # 21
Your customer's employees connected to a wired network are complaining about a poor user experience. The customer has UXI sensors deployed on their premises. These sensors nave been running for multiple months.
They are testing both the wired network (using the wired Interface of each sensor) and the wireless networks.
Your customer used the UXI dashboard to find the reason for the poor user experience to find more details, the customer asked you to check the packet captures that have been downloaded from the sensors using the UXI dashboard.
From the zip file downloaded from the UXI sensors, you checked the "datagrams" .pcap file, but you were not able to find any issues How can you explain this?

- A. The UXI sensor could not upload the latest test results to the cloud, so the packet capture is outdated
- B. The default filers of the packet captures do not allow tailed tests to be captured by the sensor
- C. The "datagrams- pcap file only contains me successful tests Failed tests are contained in the "datagrams- failed" .pcap file
- D. The datagrams captured on the physical Ethernet interface are in a different .pcap file.

Answer: C

Explanation:
It is a common practice to separate successful and failed test results into different files for ease of troubleshooting. If the "datagrams.pcap" file shows no issues, it's likely because it only contains successful test data, and the failed tests that could explain the poor user experience would be in a different file, such as
"datagrams-failed.pcap."

NEW QUESTION # 22
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