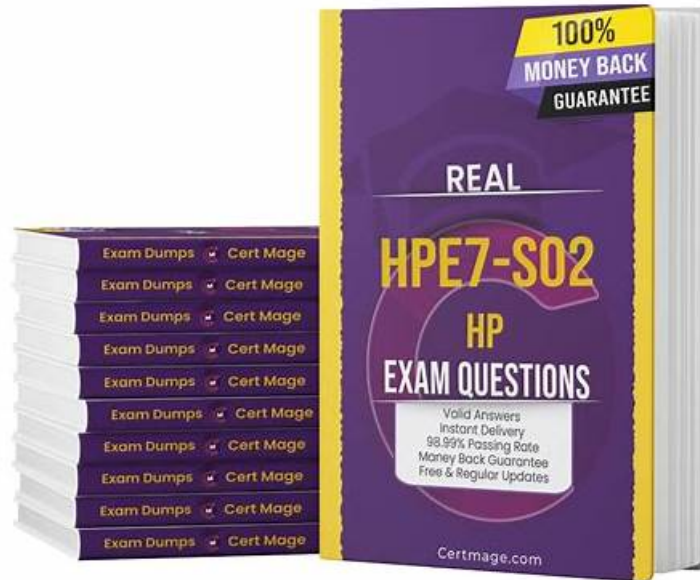


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## HP HPE7-A07 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>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.</li> </ul>

Topic 4	<ul style="list-style-type: none"> <li>• <b>Troubleshooting:</b> 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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• <b>Security:</b> 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.</li> </ul>
Topic 6	<ul style="list-style-type: none"> <li>• <b>Routing:</b> This Aruba Certified Campus Access Mobility Expert Written exam section measures the ability to design and troubleshoot routing topologies and functions, ensuring that data efficiently navigates through complex networks, a key skill for HP solutions architects.</li> </ul>
Topic 7	<ul style="list-style-type: none"> <li>• <b>Authentication</b></li> <li>• <b>Authorization:</b> 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.</li> </ul>

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## HP Aruba Certified Campus Access Mobility Expert Written Exam Sample Questions (Q53-Q58):

### NEW QUESTION # 53

Exhibit.

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

**Answer: B**

Explanation:

Dynamic Multicast Optimization (DMO) and Multicast Transmission Optimization are features that can help address issues with multicast traffic in wireless environments. DMO optimizes the way multicast traffic is transmitted over the air by converting multicast streams into unicast streams to the clients that need them.

This reduces unnecessary traffic for clients that have not subscribed to the multicast group and can improve overall network performance. Multicast Transmission Optimization adjusts the transmission rate of multicast frames to ensure they are sent at optimal speeds, addressing the issue of multicast flow being received at slow speeds by all users.

#### NEW QUESTION # 54

An AOS 10 multi-site deployment has sites with AP-only bridged SSIDs and other sites with APs and gateways operating tunneled SSIDs. Client session state sync errors exist between secure lab environments and public-facing areas at several sites.

What is causing the issues?

- A. The DTLS connections are down between APs in the lab and APs in public areas
- B. The sites with issues are the AP-only deployments because the connection to HPE Aruba Networking Central is interrupted
- C. The affected clients are associated with an SSID with 11r and 11k disabled.
- **D. The sites with issues are the overlay AP with gateway sites because the connection to HPE Aruba Networking central is interrupted**

**Answer: D**

Explanation:

In a multi-site deployment with a mix of bridged and tunneled SSIDs, if there are session sync errors between different areas, it could be due to connectivity issues with the central management platform, which in the case of Aruba, is likely HPE Aruba Networking Central. This interruption could cause inconsistencies in session states across the network.

#### NEW QUESTION # 55

A customer is evaluating device profiles on a CX 6300 switch. The test device has the following attribute:

□ \* MAC address=81:cd:93:13:ab:31

The test device needs to be assigned the "iot-prod" role, in addition the "iot-default" role must be applied for any other device connected to interface 1/1/1. This is a lab environment with no configuration of any external authentication server for the test. Given the configuration example, what is required to meet this testing requirement?

- A. Enter the command "port-access device-profile mode block-until-profile-applied" globally.
- **B. Enter the command "port-access fallback-role iot-default globally**
- C. Enter the command "port-access device-profile mode block-until-profile-applied" for interface 1/1/1.
- D. Enter the command "port-access onboarding-method precedence" to set device profiles with a lower precedence.

**Answer: B**

Explanation:

The fallback role is used as a default role in the absence of a specified role or when an authentication server is not available. Given the scenario, where the test device with MAC address 81:cd:93:13:ab:31 needs to be assigned to "iot-prod" and other devices to "iot-default", and considering there is no external authentication server configured for the test, the appropriate action would be to set a global fallback role that applies to all devices connecting to the network. This ensures that any device that does not match the specific device profile will inherit the "iot-default" role. Since the configuration for a specific MAC address (81:cd:93:xx:xx:xx) to associate with the "iot-prod" role is already in place, setting the fallback role globally accommodates the requirement for other devices.

#### NEW QUESTION # 56

A customer is installing CX 6300 switches, mobility gateways, and AP-635s.

The customer's VoIP system uses both wired and wireless handsets.

The handsets are configured to mark voice traffic using a DSCP value of 46.

The wireless handsets connect to a bridged SSID using WPA3-SAE.

What will allow the switch to honor the QoS mark set by the handset?

- A. Activate UCC for the HPE Aruba Networking Central Group managing the APs
- **B. Enable QoS trust DSCP**
- C. Enable WMM on the voice SSID
- D. Configure Voice Wi-Fi Multimedia Share for DSCP 46 on the voice SSID

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation (Verified Extract from HPE Aruba Networking Switching Documentation) In Aruba AOS-CX switching environments, Quality of Service (QoS) allows the switch to prioritize certain types of traffic such as voice,

video, or real-time applications.

When a connected endpoint (such as a VoIP phone or wireless handset) marks packets with DSCP = 46 (Expedited Forwarding for voice), the switch must trust these markings to maintain end-to-end traffic prioritization.

Key Concept: Trust Boundary

By default, Aruba switches do not trust incoming DSCP or 802.1p markings from end devices for security reasons.

To allow the switch to accept and act on these values, the QoS trust DSCP feature must be explicitly enabled on the relevant interface or globally.

Official Aruba AOS-CX Extract:

"The qos trust dscp command enables the switch port to honor the Differentiated Services Code Point (DSCP) markings received from connected devices. When trusted, packets maintain their QoS priority as they traverse the switch fabric." When wireless handsets connect to a bridged SSID, their traffic is bridged locally at the access switch - meaning the switch sees the traffic directly from the AP. If the handset marks the packet with DSCP 46, enabling QoS trust DSCP ensures that the switch preserves that marking and applies the appropriate voice priority queue treatment.

This configuration ensures end-to-end QoS consistency between the wireless AP, mobility gateway, and wired switch.

Option Analysis:

\* A. Incorrect - "Voice Wi-Fi Multimedia Share" is not a valid Aruba configuration feature; WMM shares QoS mapping but not DSCP trust.

\* B. Incorrect - UCC (Unified Communications and Collaboration) enhances call visibility and diagnostics, not DSCP trust or QoS marking.

\* C. # Correct - Enables the switch to trust and honor DSCP markings (such as DSCP 46) received from endpoints or bridged SSIDs.

\* D. Incorrect - WMM (Wi-Fi Multimedia) is required for prioritization over wireless links, but since this is a bridged SSID, the DSCP markings must be honored at the switch, not just the AP.

# Final Verified answer: C

# Reference Sources (HPE Aruba Official Materials):

\* Aruba AOS-CX Quality of Service (QoS) Configuration Guide

\* ArubaOS 10 WLAN and Mobility Configuration Guide - QoS and WMM for Voice SSIDs

\* Aruba Certified Switching Professional (ACSP) Study Guide - QoS Trust and Traffic Classification

## NEW QUESTION # 57

Refer to the exhibit.

To which devices has AP-1 established tunnels?

- A. A pair of gateways within a cluster
- B. A pair of standalone gateways
- C. A pair of switches running VXLAN
- D. A single gateway within a cluster

**Answer: A**

Explanation:

The command shown in the exhibit is:

Access-1# show ubt state

This command displays the User-Based Tunneling (UBT) status on an Aruba CX switch. UBT allows wired access devices (like CX 6300/6400) to extend tunneled connectivity to Aruba gateways, using GRE tunnels for user traffic.

The output contains the following sections:

1. Local Conductor Server (LCS) State

Primary : 172.16.200.252 ready\_for\_bootstrap operational\_primary

Secondary : 172.16.200.253 ready\_for\_bootstrap operational\_secondary

This confirms that two gateways (IP 172.16.200.252 and 172.16.200.253) form an LCS pair in an Aruba gateway cluster.

Exact extract:

"The Local Conductor Servers (LCS) represent the pair of Aruba Gateways that control and terminate UBT tunnels. One operates as the primary (active) and the other as the secondary (standby). These gateways must be configured as a cluster pair."

2. Switch Anchor Controller (SAC) State

Active : 172.16.200.252 20:4c:03:81:e7:ca registered

Standby : 172.16.200.253 20:4c:03:b2:12:0a registered

Both gateways are registered as active and standby switch anchor controllers. This is a clear indication that the switch (Access-1) has successfully established tunnels to both gateways within the cluster.

Exact extract:

"The Switch Anchor Controller (SAC) section lists both cluster members to which the switch forms GRE tunnels. The switch

maintains active and standby tunnels for redundancy."

### 3. User Anchor Controller (UAC) State

Each connected user is mapped to a User Anchor Controller (UAC) - one of the two gateways - depending on cluster load balancing:

User Anchor Controller (UAC): 172.16.200.252

User Anchor Controller (UAC): 172.16.200.253

Each user session is anchored on a specific gateway within the cluster. The presence of two different UAC IPs confirms that users are being distributed across both gateways - a behavior that occurs only in a clustered gateway configuration.

Exact extract:

"In a clustered gateway deployment, each user session is dynamically anchored to one of the gateways. The UAC field shows which gateway currently handles each user session." Conclusion:

From the output:

\* Two gateways are shown as primary and secondary LCS.

\* Both are registered as SACs (tunnel endpoints).

\* Users are distributed across both gateways as UACs.

This confirms that Access-1 (the CX switch) has established GRE tunnels to a pair of gateways within a cluster.

Hence, the correct answer is A. A pair of gateways within a cluster.

Why the Other Options Are Incorrect:

\* B. A pair of switches running VXLAN:UBT tunnels are GRE-based and terminate on Aruba Gateways, not VXLAN-enabled switches.

"User-Based Tunneling uses GRE tunnels to Aruba Gateways; VXLAN is not used for UBT."

\* C. A single gateway within a cluster: The output explicitly shows two controllers (active and standby) registered - not a single one.

\* D. A pair of standalone gateways: The LCS state shows primary/secondary operational roles, which exist only in a cluster, not standalone gateways.

References of HPE Aruba Networking Switching Documents or Study Guide:

\* ArubaOS-CX Access Security and UBT Configuration Guide - "Understanding User-Based Tunneling (UBT), LCS, SAC, and UAC roles."

\* Aruba Gateway Clustering and Redundancy Guide - "Cluster operation and role distribution for UBT."

\* Aruba Campus Wired and Wireless Integration Guide - "How CX switches form UBT tunnels to clustered Aruba gateways."

\* Aruba Zero Trust Access Design Guide - "High availability with UBT across gateway clusters."

## NEW QUESTION # 58

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