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HP HPE7-A07 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Routing: 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.
Topic 2	<ul style="list-style-type: none">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	<ul style="list-style-type: none"> 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 4	<ul style="list-style-type: none"> 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 5	<ul style="list-style-type: none"> 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 6	<ul style="list-style-type: none"> 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.
Topic 7	<ul style="list-style-type: none"> 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 8	<ul style="list-style-type: none"> 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 9	<ul style="list-style-type: none"> 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.

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HP Aruba Certified Campus Access Mobility Expert Written Exam Sample Questions (Q91-Q96):

NEW QUESTION # 91

An engineer has applied the above configuration to R1 and R2. However, the router's OSPF adjacency never progresses past the "EXSTART/DR" state.

```
R2(config)# show ip ospf neighbors
VRF : default          Process : 1
=====
Total Number of Neighbors : 1
Neighbor ID  Priority  State      Ibf Address      Interface
10.255.1.0    1        EXSTART/DR  10.255.1.0      1/1/1
```

Which configuration action on either router will allow R1 and R2 to progress past the "EXSTART/DR" state?

- A. Change the IP address and mask applied to interface 1/1/1
- B. Change R1 and R2 to a network type of point-to-point
- C. Ensure the OSPF process is not configured with passive-interface default
- D. Remove the layer 3 MTU configuration

Answer: D

Explanation:

In Aruba AOS-CX, OSPF neighbors that reach EXSTART/EXCHANGE but fail to advance typically indicate a database description (DD) negotiation issue, most commonly caused by an MTU mismatch on the link. The OSPF header carries the interface MTU; if the values do not match, the peer rejects DD packets and the adjacency remains stuck at EXSTART (often shown as EXSTART/DR or EXSTART/BDR).

Aruba's OSPF guidance states:

- * "If neighbors remain in EXSTART/EXCHANGE, verify that the Layer-3 MTU matches on both ends of the adjacency. An MTU mismatch causes DD packets to be rejected and prevents the adjacency from reaching FULL."
- * Recommended corrective action is to align or remove custom L3 MTU settings on the participating interfaces (or use the mtu-ignore feature where appropriate).

In this scenario, removing the custom Layer-3 MTU configuration so both sides use the same default MTU allows DD packet negotiation to succeed and the adjacency to progress to FULL.

NEW QUESTION # 92

Exhibit.



An engineer has applied the above configuration to R1 and R2. However, the routers' OSPF adjacency never progresses past the "EXSTART-DR" state, as shown below.

R2(config)# show ip ospf neighbor				
VRF : default Process : 1				
Total Number of Neighbors : 1				
Neighbor ID	Priority	State	Link Address	Interface
10.255.1.0	1	EXSTART/DR	10.255.1.0	1/1/1

Which configuration action on either router will allow R1 and R2 to progress past the "EXSTART/DR" state?

- A. Change R1 and R2 to a network type of point-to-point.
- B. Remove the layer 3 MTU configuration.
- C. Ensure the OSPF process is not configured with passive-interface default.
- D. Change the IP address and mask applied to interface 1/1/1.

Answer: A

Explanation:

In OSPF, the "EXSTART/DR" state indicates that the routers are trying to establish an adjacency but are unable to progress. This can happen if the OSPF network type is incorrectly configured for the type of connection between the routers. Given that R1 and R2 are connected via a point-to-point link (as suggested by the /31 subnet), setting the network type to point-to-point on both routers will remove the need for DR/BDR election, which is unnecessary on a point-to-point link, and allow OSPF to progress past the "EXSTART" state and form a full adjacency.

NEW QUESTION # 93

A network administrator wants to configure an 802.1X supplicant for a wireless network that includes the following:

- * AES encryption
- * EAP-MSCHAPv2-based user and machine authentication
- * Validation of server certificate in Microsoft Windows 10

The network administrator creates a WLAN profile and selects the Change connection settings option. Then the network administrator changes the security type to Microsoft: Protected EAP (PEAP) and enables user and machine authentication under Additional Settings.

What must the network administrator do next to accomplish the task? (Select two)

- A. EAP-TLS-based user and machine authentication
- B. Change default RC4 encryption for AES
- C. **Enable user authentication**
- D. **Enable server certificate validation**

Answer: C,D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract of HPE Aruba Networking Switching:

When configuring an 802.1X supplicant in Microsoft Windows for EAP-PEAP (Protected EAP) using EAP-MSCHAPv2, both user and machine credentials can be used for authentication. The network administrator has already enabled user and machine authentication under Additional Settings, but to meet the stated requirements (AES encryption and server certificate validation), two critical steps remain:

* Enable server certificate validationThis ensures the client validates the identity of the RADIUS server (such as Aruba ClearPass or another authentication server) to prevent man-in-the-middle attacks.

It satisfies the requirement for "validation of server certificate in Windows 10".

Exact Extract:

"For EAP-PEAP with EAP-MSCHAPv2, select 'Validate server certificate' to ensure the client trusts the authentication server's identity. The server certificate must be signed by a CA trusted by the client."

* Enable user authenticationWhile both user and machine authentication are possible, user authentication must be explicitly enabled so that credentials (domain or local user) are sent after machine authentication completes. This enables the full EAP-MSCHAPv2-based user and machine authentication process.

Exact Extract:

"In EAP-PEAP properties, ensure 'Enable user authentication' is selected to authenticate both the workstation and logged-on user credentials when using EAP-MSCHAPv2." Additionally, Windows 10 uses AES encryption automatically when WPA2/WPA3-Enterprise is configured, fulfilling requirement (1). RC4 encryption is not applicable because AES is the default cipher for WPA2 Enterprise networks.

Why the Other Options Are Incorrect:

* C. EAP-TLS-based user and machine authentication: The question specifies EAP-MSCHAPv2, not EAP-TLS. EAP-TLS uses digital certificates for mutual authentication, while PEAP with EAP-MSCHAPv2 uses username and password-based credentials. "EAP-TLS is certificate-based; PEAP-MSCHAPv2 uses password-based authentication."

* D. Change default RC4 encryption for AES: RC4 is used in older WPA or TKIP security types. When using WPA2-Enterprise, AES is automatically selected and cannot be manually overridden.

"WPA2-Enterprise (802.1X) uses AES-CCMP encryption; RC4/TKIP is not applicable to modern configurations." References of HPE Aruba Networking Switching Documents or Study Guide:

* Aruba Secure Connectivity and Authentication Guide (AOS-10) - "Configuring Windows 802.1X Supplicant for PEAP-MSCHAPv2."

* Microsoft Windows 10 Enterprise Network Configuration Guide - "PEAP with EAP-MSCHAPv2 Setup and Server Certificate Validation."

* Aruba ClearPass Deployment Guide - "Certificate Validation and EAP Methods Overview."

* Aruba WLAN Security and AAA Configuration Guide - "EAP Frameworks and Supported Encryption Methods."

NEW QUESTION # 94

A customer wan a gateway connected to a device on gigabitethernet 0/0/3 configures an Asset ID TLV on the device for inventory management.

Exhibit.

```
#show lldp statistics interface gigabitethernet 0/0/3
LLDP Statistics
-----
Interface Received Unknown TLVs Malformed Transmitted
-----
GE0/0/3 138418 2 0 0

#show lldp neighbor interface gigabitethernet 0/0/3 detail
Interface: gigabitethernet 0/0/3, Number of neighbors: 1
-----
Chassis id: d8:c7:c8:ce:0d:63, Management address: 10.255.2.10
Interface description: eth0, ID: d8:c7:c8:ce:0d:63, MTU: 1522
Device MAC: d8:c7:c8:ce:0d:63
Time to live: 120, Expires in: 103 Secs
```

The customer mentions me Asset ID is not shown What is causing the issue?

- A. MTU size is too small.
- B. LLDP-MED needs to be enabled.
- **C. Unknown TLVs cannot be displayed.**
- D. LLDP TX is not enabled.

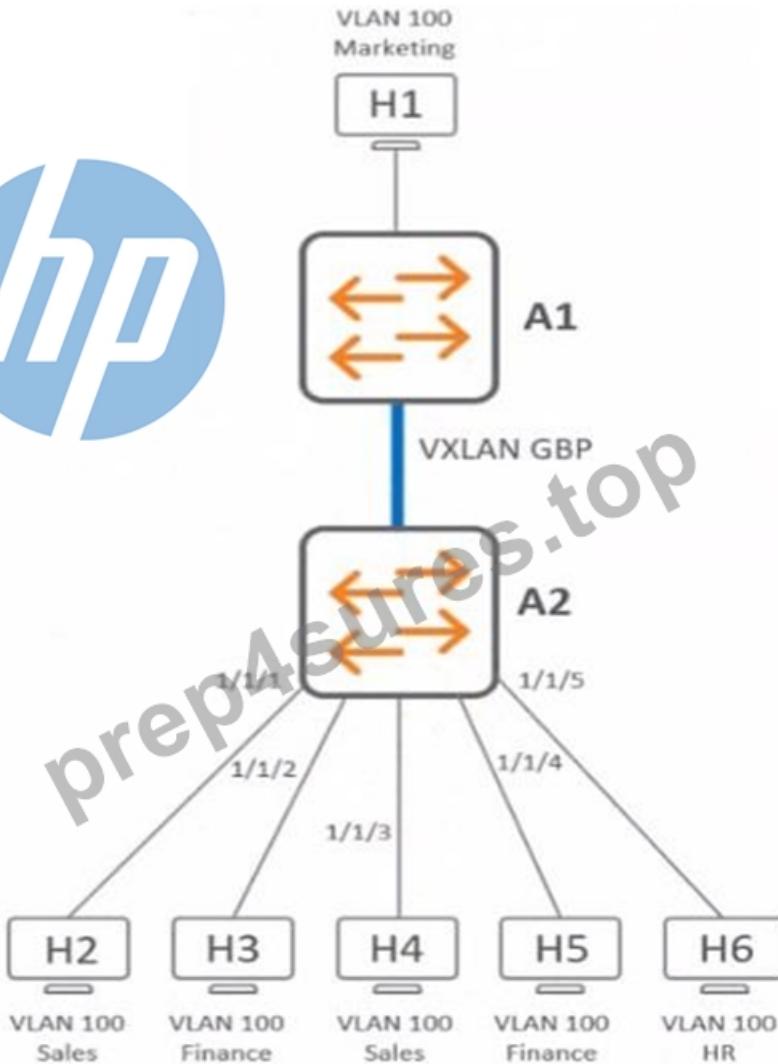
Answer: C

Explanation:

The issue is that unknown TLVs (Type Length Values) cannot be displayed. LLDP (Link Layer Discovery Protocol) is used to share device information with network neighbors, but if a TLV is not recognized by the LLDP implementation on the gateway, it won't be displayed or processed. Hence, the Asset ID TLV set on the device for inventory management is not showing up because it is unrecognized or unsupported by the gateway's LLDP.

NEW QUESTION # 95

Exhibit.



Source	Destination	Action
Marketing	HR	Deny
Marketing	Sales	Permit
Marketing	Finance	Deny

What is the expected behavior for ARP traffic sent from H1?

- A. A2 will send the ARP traffic out of ports 1/1/1-1/1/4.
- B. A2 will drop the ARP traffic.
- C. A2 will send the ARP traffic out of ports 1/1/1 and 1/1/3.
- D. A2 will flood the ARP traffic out of all interfaces.**

Answer: D

Explanation:

In a VXLAN environment, unknown unicast traffic, such as ARP requests from H1, which does not have a specific destination MAC address learned by the switch A2, will be flooded out of all interfaces. This flooding behavior is necessary because A2 needs to ensure that the ARP request reaches its intended destination, which might be on any of the interfaces. It's a part of the standard behavior of switches to handle ARP traffic when the destination hardware address is unknown.

NEW QUESTION # 96

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