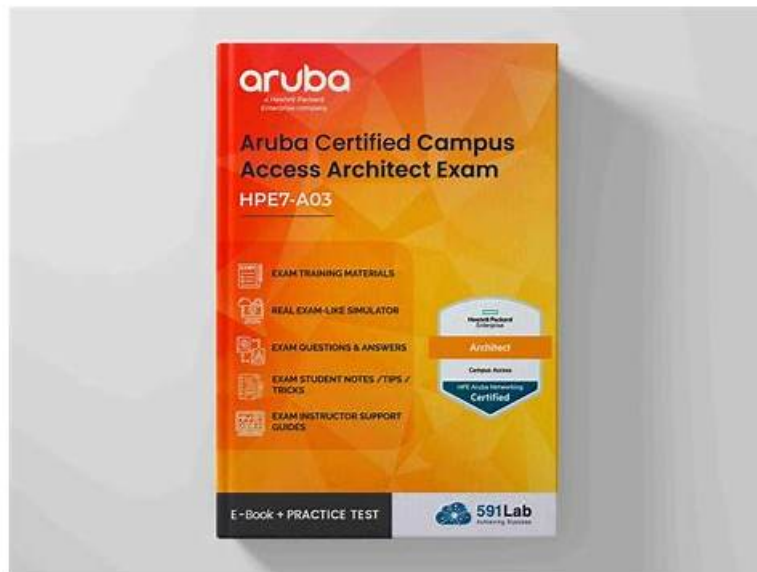


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HP HPE7-A03 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Analyze Requirements: It focuses on determining possible high-level solutions. The topic also discusses mapping the needs into technical solutions and evaluating the proposed solution against project objectives and dependencies. Moreover, it also focuses on documenting assumptions.
Topic 2	<ul style="list-style-type: none">Propose the Solution: The focal point of this topic is creating the design documentation and the final design. Moreover, the topic also focuses on presenting the solution.
Topic 3	<ul style="list-style-type: none">Architect the Solution: It measures your knowledge about identifying the solution options, designing high-level topologies, selecting the correct products, and determining the suitable overlay and underlay design. Additionally, the topic discusses how to verify that the design meets the original requirements.
Topic 4	<ul style="list-style-type: none">Discover Requirements: This topic defines the goals and identifies the current environment and the objectives. Lastly, it also focuses on collecting information.

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HP Aruba Certified Campus Access Architect Exam Sample Questions (Q93-Q98):

NEW QUESTION # 93

Which is true with regard to device capabilities?

- A. Aruba's best practice is to use whatever the AP model supports as a maximum.
- B. Wi-Fi 6E supports 6 GHz for both indoor and outdoor deployments since it was ratified in April of 2020.
- **C. Aruba recommends 30-50 devices per radio for a generic office deployment.**
- D. You should determine if devices support 2.4 GHz or 5 GHz. No consideration is yet required for 6 GHz as it has yet to be ratified.

Answer: C

Explanation:

Aruba's recommendation for device density in a generic office environment is based on achieving optimal performance and user experience. The suggestion to support 30-50 devices per radio takes into account the typical bandwidth requirements, application usage, and performance expectations in an office setting. This range is designed to ensure that the wireless network can adequately support the number of devices without significant degradation in service quality. It balances the need for connectivity with the practical limits of wireless technology, ensuring that each device maintains a reliable connection and adequate throughput. This recommendation is part of Aruba's best practices for network design and deployment, aimed at providing efficient and effective wireless coverage in office environments.

NEW QUESTION # 94

It has been identified that the client's existing network is having to retransmit packets due to possible hardware or configuration issues. A review of hardware configuration and transport reliability will need to be assessed prior to completing the new design. What should this phenomenon be classified as?

- **A. Loss**
- B. Delay
- C. Jitter

Answer: A

Explanation:

The phenomenon where packets have to be retransmitted due to possible hardware or configuration issues is classified as "Loss," depicted in Option A. Packet loss occurs when one or more packets of data traveling across a network fail to reach their destination, which can be caused by errors in data transmission, typically resulting from network congestion, hardware failure, or configuration errors. When packet loss occurs, protocols like TCP ensure that the data is retransmitted so that the integrity of the communication is maintained. In a network design, ensuring the reliability of hardware and proper configuration is critical to minimize packet loss.

NEW QUESTION # 95

What possible issue with the core switch selection do you see in regards to the customers' requirements?

- **A. The core switch will have a lot of unused ports.**
- B. The core switch will not have enough ports for VSX links.
- C. The core switch will not support the 25GbE downlinks to the distribution switches.
- D. The core switch will not support the 10GbE downlinks to the cabins and technical rooms.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

* Customer Requirement Recap (cruise line scenario):

* Each ship has two core switches in the MDF.

- * Each core connects to up to 10 distribution switches in IDFs.
- * Uplinks between core and distribution are 25 GbE SMF links.
- * Cabins/technical rooms connect to distribution switches via 10 GbE uplinks.
- * Only 8 uplinks per core switch are required to meet the design.
- * Issue Identified:
 - * The selected core switch platform provides dozens of 25/40/100 GbE ports, far exceeding what is needed for this environment.
 - * With only 8 ports in use per core, that leaves ~40 unused ports.
 - * This creates a cost inefficiency - the customer is paying for hardware capacity that will remain idle.
- * Why the Correct Answer is B:
 - * The main "issue" is not about lack of capability (uplinks and VSX are supported).
 - * The issue is about overprovisioning - the core switch selection results in a large number of unused ports, which is against the CIO's requirement to limit unused capacity and avoid waste.
- * Why Not the Other Options:
 - * A. Core will not support 25 GbE downlinks # Incorrect. The selected core switches do support 25 GbE uplinks.
 - * C. Not enough ports for VSX links # Incorrect. Core switches only require a few ports for VSX interconnect, which is easily supported.
 - * D. Core will not support 10 GbE downlinks to cabins # Incorrect. Core switches don't connect directly to cabins; those connections terminate at the distribution layer.

Aruba Design Guide Reference:

- * Aruba ESP Campus Design Principles: Switch sizing should consider right-sizing the port count to avoid excessive unused capacity.
- * Aruba Validated Solution Guides: Core switches should be selected for performance, scalability, and efficiency - not overspec'd beyond realistic need.

Final Justification:

The issue with the customer's core switch selection is not about functionality, but about efficiency. Only 8 uplinks per core are needed, leaving ~40 ports unused - which contradicts the CIO's goal of minimizing unused ports.

NEW QUESTION # 96

You and the customer decide that DUR should be used for centralized policy management. The plan also includes dynamic VNBT-based distributed Dynamic Segmentation. Which switch model should be used?

- A. 6200F/M
- B. 0
- C. 1
- **D. 6300F/M**

Answer: D

Explanation:

To support a combination of Downloadable User Roles (DUR) and VNBT-based (Virtual Network Based Tunneling) distributed Dynamic Segmentation, the hardware must support specific advanced Layer 3 and VXLAN capabilities at the access layer.

* Distributed Dynamic Segmentation: This architecture requires switches to act as VXLAN Tunnel End Points (VTEPs) to encapsulate traffic into VXLAN tunnels based on the assigned User Role.

* 6300F/M Capability: The AOS-CX 6300 series is the primary access layer switch designed for this role. It provides the necessary hardware support for VXLAN and GBPs (Group Based Policies) required for distributed Dynamic Segmentation.

* DUR Support: Like other AOS-CX switches, the 6300 series integrates fully with Aruba ClearPass to download user roles dynamically upon authentication, ensuring centralized policy management.

* Comparison:

* 6200F/M: This is a "Value" access switch. While it supports DUR, it lacks the hardware capability for VXLAN/VTEP, meaning it cannot support VNBT-based distributed Dynamic Segmentation.

* 8360 / 8100: These are core/aggregation switches. While they support VXLAN, they are not typically the point of ingress for user authentication and DUR-based access control in a campus design.

NEW QUESTION # 97

A global cruise line company needs to refresh its current fleet. They will refresh the 'insides' of the ship to be cost-effective and increase their sustainability. They will replace the complete WLAN/LAN hardware of the ship. In this refresh, the company will not refresh its current security requirements. The CIO also wants to limit the number of unused ports in the switches. Future expansion

will always mean a refresh of hardware. They start with the smallest ship with a maximum of 800 guests.

Each ship has a LAN infrastructure consisting of two core switches, up to 10 redundant distribution switches, and up to 500 access switches (400 cabins, 100 technical rooms). The Core switches are located in the MDF of the ship and the distribution switches are located in the IDFs of the ship. Each cabin and technical room gets one single access switch.

The cabling structure of the ship will not be refreshed. Each IDF is connected to the MDF by SMF, of which two pairs are available for the interconnect between the core and distribution. The length of SM fiber between MDF and IDF is less than 300 meters (980 ft) and the type used is OS1. Each cabin is connected by a single OM2 pair to the IDF, the maximum length is 60 meters (200 ft). Each technical room is connected by a single OM2 pair to the IDF, with lengths between 100 and 150 meters (320 and 500 ft).

For each cabin/technical room the customer is looking to replace their current fan-less 2530/2540 without changing the requirements, except they need to upgrade the uplink to distribution switch to 10GbE to handle the increased network traffic, and the technical rooms need redundant power.

The WLAN infrastructure will be 1:1 refreshed without new cabling or new AP locations. Their WLAN infrastructure is based on the 200/300 series indoor and outdoor APs running InstantOS (less than 300 APs), the customer has no change in WLAN requirements.

The cruise line company will replace its current internet connection before the LAN/WLAN refresh. The new Internet connection will provide a 99.8% uptime, which is needed to ensure the paid guest Wi-Fi is always operational. With this new Internet connection, the CIO of the cruise line wants to base the design on the ESP architecture from Aruba because internet connection is guaranteed.

Based on the best practices, what should be recommended as the most cost-effective switch model for the technical rooms?

- A. HPE Aruba Networking 6200M 36G 12SR5 Class6 PoE 4SFP+
- B. HPE Aruba Networking 6300M 24p HPE Smart Rate 1G/2.5G/5G/10G Class6 PoE and 2p 50G and 2p 25G
- C. HPE Aruba Networking 6300M 12p Class8 PoE and 36p Class6 PoE HPE Smart Rate 1G/2.5G/5G and 2p 50G and 2p 10G
- **D. HPE Aruba Networking 6200M 24G Class4 PoE 4SFP+**

Answer: D

Explanation:

Port Count: The 6200M 24G switch provides enough Gigabit Ethernet ports to accommodate the technical rooms. Since each technical room is connected to a single access switch, this model strikes a balance between adequate port density and minimizing unused ports.

Power over Ethernet (PoE): Class 4 PoE capabilities are sufficient for powering devices typically used in technical rooms, such as network devices and potentially cameras or phones, without the need for excessive power delivery.

10GbE Uplinks: The switch has 4 SFP+ ports for uplinks, which can be utilized to connect to the distribution layer with 10GbE, meeting the requirement for increased network traffic handling.

Cost-Effectiveness: The 6200M series is designed for mid-sized environments, making it a more economical choice compared to higher-end models that may offer features beyond what is needed for the technical rooms.

NEW QUESTION # 98

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