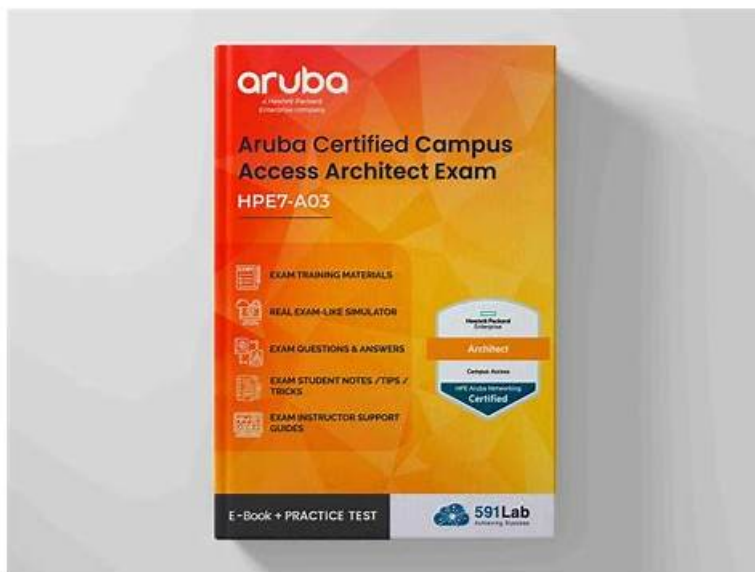


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HP HPE7-A03 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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"> Discover Requirements: This topic defines the goals and identifies the current environment and the objectives. Lastly, it also focuses on collecting information.
Topic 4	<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.

HP Aruba Certified Campus Access Architect Exam Sample Questions (Q89-Q94):

NEW QUESTION # 89

What are the considerations when using existing MMF and upgrading to equipment capable of 10 GbE speeds? (Select two)

- A. length of MMF fiber
- B. type of MMF fiber
- C. redundant fiber tube into cabinet
- D. type of fiber connector
- E. single fiber tube into cabinet

Answer: A,B

Explanation:

When upgrading existing Multimode Fiber (MMF) infrastructure to accommodate equipment capable of 10 GbE speeds, two primary considerations are the length of the MMF fiber (Option A) and the type of MMF fiber (Option C). The length of the fiber impacts the signal quality and bandwidth capacity, with longer lengths potentially requiring signal conditioning or different types of fiber to support higher speeds. The type of MMF fiber, such as OM1, OM2, OM3, or OM4, significantly affects its bandwidth capabilities and distance limitations at 10 GbE speeds. OM3 and OM4 fibers are designed to support 10 GbE transmissions over longer distances compared to OM1 and OM2, making them more suitable for upgrades to higher speeds.

Understanding these factors is crucial to ensure the existing fiber infrastructure can support the desired network performance without extensive modifications or replacements.

NEW QUESTION # 90

What documents should be included in the solution proposal? (Place the correct items into the list at the right.)

Order is not important. Not all options will be used)

POSSIBLE OPTIONS		CORRECT OPTIONS
architect's notes from meetings	<input type="checkbox"/>	<input type="checkbox"/>
as-built rack drawings	<input type="checkbox"/>	<input type="checkbox"/>
assumptions documented in design	<input type="checkbox"/>	<input type="checkbox"/>
bill of materials	<input type="checkbox"/>	<input type="checkbox"/>
data sheets of equipment proposed	<input type="checkbox"/>	<input type="checkbox"/>
proposed topology diagram	<input type="checkbox"/>	<input type="checkbox"/>
quote	<input type="checkbox"/>	<input type="checkbox"/>

Answer:

Explanation:

POSSIBLE OPTIONS		CORRECT OPTIONS
architect's notes from meetings	<input type="checkbox"/>	<input type="checkbox"/>
as-built rack drawings	<input type="checkbox"/>	<input type="checkbox"/>
assumptions documented in design	<input type="checkbox"/>	<input type="checkbox"/>
bill of materials	<input type="checkbox"/>	<input type="checkbox"/>
data sheets of equipment proposed	<input type="checkbox"/>	<input type="checkbox"/>
proposed topology diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
quote	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Explanation:

For the solution proposal, the documents that should typically be included are:

- * Architect's notes from meetings
- * As-built rack drawings
- * Assumptions documented in design
- * Bill of materials
- * Data sheets of equipment proposed
- * Proposed topology diagram
- * Quote

NEW QUESTION # 91

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

Answer: A

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 # 92

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.

The week after the presentation of your design to the CIO of the cruise line company, the CIO calls you to discuss increasing the

security of the wired network infrastructure. Since one of their competitors had one of their cruise ships cyber hacked, the CSO of the cruise line has mandated increased security on the wired network. They have heard about dynamic segmentation and central and decentral overlay networks.

What would you advise as the most cost-efficient solution?

- A. Standardize on 6100 switches for the access layer, add a cluster of 9240 GWs, and implement central overlay networks on UBT basis.
- B. Standardize on 6000 switches for the access layer, add a cluster of 9240 GWs, and implement central overlay networks on UBT basis.
- **C. Standardize on 6300 switches for the access layer, add a cluster of 9240 GWs, and implement central overlay networks on UBT basis.**
- D. Standardize on 6200 switches for the access layer, add a cluster of 9240 GWs, and implement central overlay networks on UBT basis.

Answer: C

Explanation:

Given the need to increase the security of the wired network infrastructure while being cost-efficient, advising the cruise line company to standardize on Aruba 6300 switches for the access layer is the most appropriate solution. The Aruba 6300 Series offers advanced features suitable for such environments, including high-performance, scalability, and enhanced security capabilities. Adding a cluster of 9240 Gateways for implementing central overlay networks on a User-Based Tunneling (UBT) basis further strengthens the network's security posture. This setup supports dynamic segmentation, which allows for the enforcement of consistent policies and secure access across the network, irrespective of the user or device type. This architecture not only meets the increased security requirements set forth by the cruise line's CSO but also aligns with the company's existing infrastructure and future refresh plans, ensuring cost-efficiency and sustainability.

NEW QUESTION # 93

What is true about 1000 Base-LX single mode transceivers?

- A. 1000Base-LX needs a Mode Conditioning Patch Cable to be operated with OM5 cables up to 550 m
- B. 1000Base-LX doesn't need a Mode Conditioning Patch Cable to be operated with OM2 cables up to 550 m
- C. 1000Base-LX needs a Mode Conditioning Patch Cable to be operated with OS1 cables up to 2 Km
- **D. 1000Base-LX needs a Mode Conditioning Patch Cable to be operated with OM1 cables up to 550 m**

Answer: D

Explanation:

The 1000Base-LX standard is designed primarily for single-mode fiber (SMF) but can also operate over multi-mode fiber (MMF). However, when using a 1000Base-LX (long wavelength) transceiver with older multi-mode fiber like OM1 (\$62.5/125\$ μm), a specific technical issue called Differential Mode Delay (DMD) occurs.

* Mode Conditioning Patch (MCP) Cable: To mitigate DMD, an MCP cable must be used when connecting a 1000Base-LX transceiver to OM1 or OM2 multi-mode fiber for distances up to 550 meters. This cable offsets the laser launch into the fiber core to ensure the signal propagates correctly.

* OM1 Specifics: OM1 fiber has a smaller bandwidth-distance product compared to newer standards.

Without the MCP, the signal distortion makes the 550m distance unattainable or unreliable.

* Comparison: * OS1 (Option D): This is single-mode fiber. 1000Base-LX transceivers are native to single-mode and do not require mode conditioning cables for OS1/OS2.

* OM5 (Option A): While technically possible, MCPs are typically associated with the legacy \$62.5\$ μm (OM1) and \$50\$ μm (OM2) fiber types.

* OM2 (Option C): Standard practice dictates that OM2 also requires an MCP for 1000Base-LX at 550m to avoid DMD, making "doesn't need" incorrect.

NEW QUESTION # 94

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