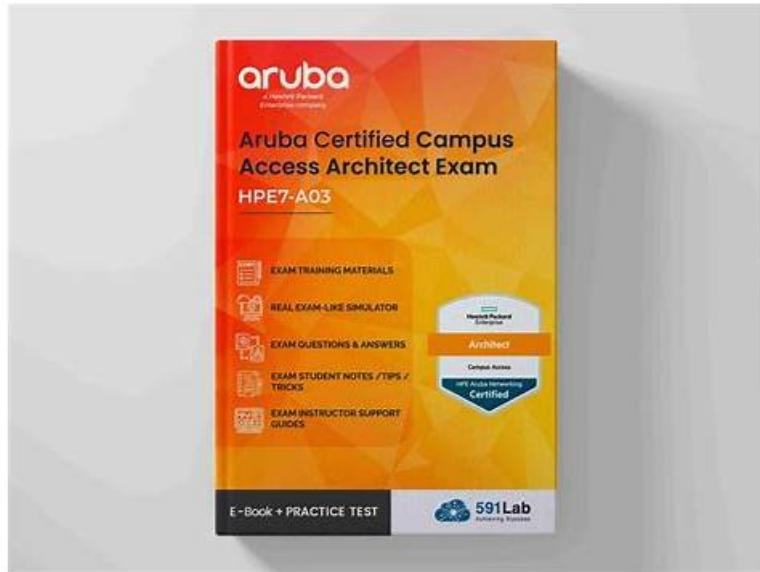


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HP HPE7-A03 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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">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.

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HP Aruba Certified Campus Access Architect Exam Sample Questions (Q12-

Q17):

NEW QUESTION # 12

XYZ Regional Hospital is an integrated healthcare system of hospitals, neighborhood health centers, and small doctor offices. XYZ Regional Hospital has recently merged with 4x neighborhood health centers and 125 doctor branch offices. The wireless, wired access, and AAA solutions are outdated and need to be replaced.

XYZ Regional Hospital is looking to future-proof and improve efficiency across all sites by enhancing wired and wireless access and migrating to a centralized and unified wired/wireless and policy management that can provide uninterrupted availability of all systems.

Locations:

- XYZ Regional Hospital is located in New York City
- Dila Health Center is located in City A
- Mount Health Center is located in City B
- Rock Health Center is located in City C

- Branch clinics are located at different locations across the United States Requirements:

- Provide, via management software, one single pane of glass to manage wired and wireless LANs, and VPNs across campus, branch, and remote via web/cloud architecture providing near real-time insight, troubleshooting tools, and Service Level performance reporting.

- Seamless integration across wired, wireless, WAN, SD-Branch, IoT
- Provide secure wireless access to all the employees of the Regional Hospital and partners, as well as provide wireless Internet access to medical citizens when they visit our facilities.

- All-access points must support the following features and specifications: 802.11.ax (Wi-Fi 6E Certified)

- Security options including WP2/WPA3, 802.1X with Radius secure authentication

- Identify and authenticate every wireless and wired device

- End-to-end role-based security

- Seamless mobility across the hospital for medical teams, patients, and visitors

- Cuts Wi-Fi deployment times from days to hours and enables Zero-Touch deployments across the site

- Establishes a resilient, future-ready network infrastructure with the intelligence, scalability, and intuitive toolsets to meet emerging needs

- Fully redundant branch solution with dynamic path selection to the hospital The hospital CIO is interested in reviewing the phase 1 approach and framework that will be used to achieve the goals of the network refresh project.

What is the phase 1 task?

- A. The team will define and document a path for the current to future support model, including any staffing, skills, and professional development that is recommended.
- B. Meet with ITS Network/Telecom and support staff following the knowledge transfer sessions to educate the ITS team on campus, data center, and network security options
- C. Review the potential design options and further scope deployment efforts, phased implementation approaches, enablement options, and operational expertise requirements.
- **D. Kickoff the project to identify the team members involved, review the deliverables, expectations, timeframes, and begin the discovery/data collection.**

Answer: D

Explanation:

Phase 1 of a network refresh project begins with the project kickoff, which includes defining team participation, reviewing objectives, deliverables, and timelines, and starting the discovery and data collection needed to drive the design process.

NEW QUESTION # 13

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 single-mode fiber (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), type used is OS1. Each cabin is connected by a single OM2 pair to the IDF, maximum length 60 m(200

ft). Each technical room is connected by a single OM2 pair to the IDF, with lengths 100-150 m (320-500 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 10 GbE 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 the Internet connection is guaranteed.

A 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. For their POS (Point of Sale) systems, they need a low-latency network connection between the POS system and the PCS server in the data center on the ship. Also, the CSO wants to enhance the WLAN security as well by tunneling all user traffic.

What solution fits the customer's requirements?

- A. Standardize on 6300 switches for the edge, 8320 for the RR, 8360 for the stub/border, 9240 for the WLAN Gateway, and utilize HPE Aruba Networking Central NetConductor.
- B. Standardize on 6300 switches for the edge, 8325 for the RR, 8360 for the stub/border, 9240 for the WLAN Gateway, and utilize HPE Aruba Networking Central NetConductor.
- C. Standardize on 6300 switches for the edge, 8320 for the RR, 8360 for the stub/border, and utilize HPE Aruba Networking Central NetConductor.
- D. Standardize on 6200 switches for the edge, 8325 for the RR, 8360 for the stub/border, and utilize HPE Aruba Networking Central NetConductor.
- E. Standardize on 6300 switches for the edge, 3320 for the RR, 8320 for the stub/border, 9240 for the WLAN Gateway, and utilize HPE Aruba Networking Central NetConductor.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Aruba's ESP Campus Access Design and NetConductor Architecture guides outline the validated roles of devices in dynamic segmentation deployments.

* Access Layer (Edge): Aruba CX 6300The CX 6300 provides 10 Gb uplinks to distribution, advanced features like VXLAN and EVPN, and support for role-based access control at the edge. It is the recommended choice for modern edge deployments in an ESP fabric.

* Route Reflector (RR): Aruba CX 8325The CX 8325 is optimized for routing and control-plane operations. As a route reflector, it scales overlay BGP sessions and distributes policies/roles through the fabric. It is explicitly referenced as the ideal RR platform in Aruba ESP campus validated designs.

* Stub/Border: Aruba CX 8360The CX 8360 family provides advanced aggregation and fabric services.

It supports VXLAN, EVPN, and border routing functions, making it the right choice for stub/border persona in ESP designs.

* WLAN Gateway: Aruba 9240The Aruba 9200/9240 series gateways provide role-based policy enforcement for tunneled WLAN traffic. They terminate GRE/IPsec tunnels from APs, enforce user policies, and forward into the fabric. This is critical to meet the requirement of tunneling all WLAN user traffic for enhanced security.

* Dynamic Segmentation with NetConductorAruba Central NetConductor enables centralized definition and orchestration of user roles and segmentation policies. Roles are automatically enforced across the fabric using VXLAN with Group-Based Policy (GBP). This supports both centralized tunneling (for WLAN traffic) and distributed segmentation (for wired POS traffic requiring low latency).

* Requirement Mapping:

* Low-latency POS traffic # Distributed role enforcement within the fabric via 8360/8325.

* Secure WLAN traffic # User traffic tunneled to the 9240 gateway for role-based enforcement.

* 10 Gb uplinks and redundancy # Provided by 6300 edge switches with dual power options in technical rooms.

* ESP architecture # NetConductor automates overlay, segmentation, and role orchestration.

Other options are eliminated because:

* A uses 3320 for RR, which lacks overlay fabric scalability.

* B uses 8320 for RR (possible, but Aruba recommends 8325 for RR roles in NetConductor designs).

* D omits the WLAN Gateway, which is required to tunnel WLAN traffic.

* E uses 6200 at the edge, which does not provide the required 10 Gb uplink capability.

Therefore, Option C is the only design that fully satisfies the cruise line's requirements while aligning with Aruba's ESP Campus validated architectures.

Reference Extracts (Aruba Official Study & Design Guides):

- * Aruba ESP Campus Design Guide: device personas (edge, RR, stub/border, gateway) and NetConductor integration.
- * Aruba NetConductor Technical Overview: VXLAN-GBP, dynamic segmentation, and centralized role enforcement.
- * Aruba Dynamic Segmentation Solution Overview: tunneling of WLAN traffic, role-based security across wired and wireless.
- * Aruba CX Switch Series Data Sheets: CX 6300 (edge with 10 Gb uplinks), CX 8325 (RR), CX 8360 (border/stub), Aruba 9240 (WLAN gateway).

NEW QUESTION # 14

A large multinational financial institution has contracted you to design a new full-stack wired and wireless network for their new 6-story regional office building. The bottom two floors of this facility will be retail space for a large banking branch. The upper floors will be carpeted office space for corporate users, each floor being approximately 100,000 sq ft (9290 sq m). Data centers are all offsite and will be out of scope for this project. The customer is underserved by its existing L2-based network infrastructure and would like to take advantage of modern best practices in the new design. The network should be fully resilient and fault-tolerant, with dynamic segmentation at the edge.

The retail space will include public guest Wi-Fi access. Retail associates will have corporate tablets for customer service, and there will be a mix of wired and wireless devices throughout the retail floors. The corporate users will primarily use wireless for connectivity, but several wired clients, printers, and hard VoIP phones will be in use.

The customer is also planning on renovating the corporate office space in order to take advantage of 'smart office' technology. These improvements will drive blue-dot wayfinding, presence analytics, and other location-based services.

The client would like to include Blue Dot wayfinding for their carpeted office space. The retail floors are not currently in scope. What would be needed to ensure proper licensing of the solution?

- A. Qty 4 Meridian Map subscriptions
Qty 4 Meridian Blue Dot subscriptions
- B. Qty 4 Meridian Blue Dot subscriptions
- C. Qty 1 Meridian Tracking subscription
Qty 1 Meridian Blue Dot subscription
- D. **Qty 1 Meridian Blue Dot subscription**

Answer: D

Explanation:

For implementing Blue Dot wayfinding in the carpeted office space of the multinational financial institution, a Meridian Blue Dot subscription is essential. Meridian's Blue Dot wayfinding technology allows for real-time indoor navigation, which can enhance the experience of employees and visitors by providing turn-by-turn directions within the office space. Given that the requirement is specifically for the carpeted office space and not for the retail floors, a single Meridian Blue Dot subscription would be the starting point to enable this functionality. This subscription would cover the deployment of the Blue Dot technology across the specified office floors, allowing for the integration of this feature into the institution's app or digital platform for indoor navigation. Additional subscriptions, such as Meridian Map subscriptions, might be required for more extensive mapping needs, but based on the provided options and the specific request for Blue Dot functionality, a single Blue Dot subscription would be the most direct answer.

NEW QUESTION # 15

Which is true with regard to device capabilities?

- A. Wi-Fi 6E supports 6 GHz for both indoor and outdoor deployments since it was ratified in April of 2020.
- B. **HPE Aruba Networking recommends 40-50 devices per radio for a generic office deployment.**
- C. HPE Aruba Networking's best practice is to use whatever the AP model supports as a maximum.
- 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: B

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 # 16

Which design factor helps optimize performance in a multi-site SD-WAN deployment?

- A. Reducing the number of access points per site
 - B. Avoiding the use of traffic segmentation
 - C. Using static routes for all traffic
 - D. Implementing dynamic path selection

Answer: D

NEW QUESTION # 17

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