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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">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">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 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 (Q11-Q16):

NEW QUESTION # 11

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 sqm). Data centers are all off site 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 1 Meridian Blue Dot subscription
- **B. Qty 4 Meridian Map subscriptions**
- C. Qty 1 Meridian Tracking subscription
- D. Qty 1 Meridian Blue Dot subscription
- E. Qty 4 Meridian Blue Dot subscriptions

Answer: B

NEW QUESTION # 12

A customer wants to have the ability to show network usage. Which product would allow them to have this visibility?

- A. UXI
- B. Aruba OS 8.X
- C. ClearPass
- **D. Central**

Answer: D

Explanation:

Aruba Central provides a cloud-based management platform for managing and monitoring Aruba Instant APs, switches, and branch gateways. It offers a comprehensive dashboard that gives insights into network usage, health, and performance metrics. Central allows network administrators to have visibility over their entire network infrastructure from a single pane of glass, including detailed usage statistics, which can be broken down by device, application, and time. This visibility into network usage is crucial for optimizing network performance, planning capacity, and understanding user behavior. Aruba Central's analytics and reporting capabilities enable customers to track and analyze network usage, making it the appropriate product choice for customers wanting to monitor their network usage closely.

NEW QUESTION # 13

ACME Retail has 38 locations spread out across five US states and two provinces in Canada. They are looking to grow 20% over the next two years. They have a head office (HO) with a staff of 200 employees.

The organization has eight regional managers and two VPs who work from home and on the road. Stores typically have 17 employees on average per location.

The two warehouses have a remote loading system and 20 employees each to load the trucks and fulfill the online orders. The warehouse has 40-foot ceilings and large metal racks to store inventory. The main warehouse is 240,000 sq ft (#22,300 sqm), and

the Canadian warehouse is 130,000 sq ft (#12,100 sqm).

Forklifts on the loading docks are equipped with wireless tablets onboard.

A typical store is about 60,000 sq ft (#5,575 sqm), and smaller stores are planned at 25,000 sq ft (#2,320 sqm). The locations need to expand wireless access to vendors who set up displays or interactive kiosks.

The current infrastructure was installed in 2015 using wireless N technology in a coverage model. Wiring is Cat5, and fiber connections are uncertain. Inventory is placed directly on the floor when delivered.

Inventory control is handled through Zebra barcode scanners, but poor coverage and signal issues have made monthly inventory counts difficult.

The organization has a small help desk for store support and PC support for the office. The company plans to move away from the current PBX system later this year. They want to cut costs, move services to the cloud, and achieve real-time inventory control for online order fulfillment.

The network has been wired over the last 10 years, but new systems are trending wireless. They want to provide wireless access for employees, guests, vendors, and contractors. The new IT director will start next week, and the CTO has prioritized this project.

Additional context:

- * Marketing wants to interact with customers and collect more data.
- * The IT support desk needs to reduce staff by half.
- * The HO has an MDF and two IDF's (floors 1 and 2).
- * WAN circuits exist for HO.
- * Each store has a local Ethernet handoff from the cable provider in the office.
- * Budget is a concern, but the solution must last 7+ years.

Based on best practices and customer requirements, what is the correct WLAN approach?

- A. ArubaOS 8 Campus deployment
- **B. ArubaOS 10 AP and Gateway deployment**
- C. ArubaOS 10 AP-only deployment
- D. InstantOS 8 deployment

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

* Why ArubaOS 10 (AOS10):

* ArubaOS 10 is the current next-generation WLAN architecture, designed for both campus and distributed branch deployments.

* It supports cloud-native management via Aruba Central, aligning with ACME's move to the cloud.

* Provides scalability for 7+ years, meeting the long-term investment requirement.

* Supports Wi-Fi 6/6E APs, which are essential for high-density retail and warehouse environments.

* Why Gateways are Needed:

* Gateway role is critical to support:

* Tunnelled traffic for segmentation (guest, vendor, employee).

* Cloud Guest Authentication and captive portal functions for customers.

* Application visibility and role-based policy enforcement.

* Integration with SD-Branch WAN for resilience and cost control across remote stores.

* Gateways ensure the unified policy enforcement across all sites (head office, branches, warehouses, retail stores).

* Why Not the Other Options:

* B (InstantOS 8): Outdated architecture, limited to smaller standalone AP deployments, not recommended for enterprise growth or cloud-centric operations.

* C (AP-only AOS10): Provides Wi-Fi but lacks gateways, meaning no central policy enforcement, tunneling, or role-based segmentation. This would not meet ACME's requirements for guest/vendor access control, WAN resiliency, and security.

* D (ArubaOS 8 campus): Legacy controller-based solution, being phased out in favor of AOS10.

Does not align with cloud-first and future-ready requirements.

* Requirement Mapping to AOS10 AP + Gateway deployment:

* Real-time inventory & Zebra scanners # Reliable Wi-Fi 6E AP coverage with low latency.

* Cloud-based operations # Aruba Central + AOS10 integration.

* Guest, vendor, employee segmentation # Policy enforcement firewall and dynamic segmentation via gateway tunneling.

* Warehouses with high ceilings # Wi-Fi 6E APs with appropriate antenna design (AOS10 supports full AP portfolio).

* Cut IT staff in half # AI Insights and automation in Aruba Central reduce troubleshooting complexity.

* Marketing customer interaction # Cloud guest services and analytics integration with Aruba Central.

* 7+ year lifecycle # AOS10 architecture is future-proof and actively developed, unlike legacy OS8.

Final Justification:

The only solution that meets all customer requirements (cloud-based management, role-based segmentation, tunneling, guest/vendor access, real-time inventory, scalability, and 7+ years longevity) is an ArubaOS 10 AP and Gateway deployment.

NEW QUESTION # 14

ACME retail has 38 locations spread out across 48 US states and two provinces in Canada. They are looking to grow 20% over the next two years. They have an HQ with a staff of 200 employees. The organization has eight Regional Managers and two VPs who work from home and the road. Stores typically have 17 employees on average per location.

The two warehouses have a remote loading system and 20 employees each to load the trucks and fulfill the online orders. The warehouse has 40-foot ceilings and large metal racks to store inventory. The main location is 240K sq ft (22300 sq m) and the Canadian warehouse is 130K sq ft (12100 sq m). The forklifts on the loading docks are equipped with a wireless tablet on board. A typical store is reportedly about 60,000 sq ft (5575 sq m) and smaller stores are planned at 25,000 sq ft (2320 sq m). The locations need to expand the abilities to vendors that need to add setup displays or interactive kiosks in the stores. The current infrastructure was installed in 2015 and used wireless N technology in a coverage model. The wiring is Cat5e, and they are unsure of the fiber connections. The inventory is all placed on the floor when it is delivered to the local store.

Inventory control is handled through Zebra barcode scanners, and they have had a lot of issues in getting signals throughout the stores and this makes monthly inventory difficult. The organization has a small help desk to troubleshoot issues that happen at the retail locations and PC support for the office. The company is looking to upgrade away from the current PBX system later this year. With the need to grow and cut costs, they are interested in moving the data to the cloud but need to get almost real-time inventory control for the online service to function.

The network has all been wired over the last ten years, but with the new systems being all wireless, they have seen the trend to offer wireless to all the vendors for their needs but also would like to allow employees, guests, and contractors all to use it. With the new IT director starting next week, the project has been set by the CTO of the company. The marketing group has asked how they can interact with the customers and get more info, while the IT support desk needs to cut staff in half.

The office has an MDF and two IDFs located on floors one and two. The HQ is in the basement, and you have multiple WAN circuits for the HQ links. Each store has a local handoff from the cable company (ethernet) in the middle of the store in the office, so distance for the wiring is not an issue.

The customer has budget concerns but does want something that could last 7+ years.

Based on the best practices and customer requirements, what is the correct WLAN approach?

- A. Instant OS 8 deployment
- B. Aruba OS8 campus deployment
- C. Aruba OS10 AP only deployment
- D. Aruba OS10 AP and gateway deployment

Answer: A

Explanation:

For ACME Retail, which has multiple locations and a mix of environments including high-ceiling warehouses and retail spaces, an Aruba Instant OS 8 deployment is a suitable WLAN approach. Aruba Instant OS provides a controller-less architecture, which simplifies the deployment and management of the wireless network, especially across multiple sites. This approach enables ACME Retail to manage their entire wireless network from a single interface without the need for dedicated hardware controllers, reducing costs and complexity.

Instant OS also supports advanced features like Adaptive Radio Management and ClientMatch to ensure optimal performance in diverse environments, making it an effective solution for ACME's varied locations and requirements.

NEW QUESTION # 15

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

Answer: C

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 # 16

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