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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">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"> 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.

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HP Aruba Certified Campus Access Architect Exam Sample Questions (Q48-Q53):

NEW QUESTION # 48

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 IDF's 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 (930 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 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 Internet connection is guaranteed.

Based on best practices, what should you recommend as the most cost-effective switch model for the cabins?

- A. HPE Aruba Networking 6100 24G Class4 PoE 4SFP+
- B. HPE Aruba Networking 6200F 12G Class4 PoE 2G/2SFP+
- C. HPE Aruba Networking 6000 12G Class4 PoE 2G/2SFP
- D. HPE Aruba Networking 6100 12G Class4 PoE 2SFP+

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

* Key Cabin Requirements:

* Each cabin requires a single small form-factor access switch.

* Must support 10 GbE uplink toward the distribution switch.

- * Must provide PoE to power in-room devices or APs.
- * Must be cost-effective - the CIO does not want wasted ports.
- * Aruba CX 6100 Series Fit:
- * The Aruba CX 6100 series is designed for cost-sensitive edge deployments where simplicity and PoE are required.
- * The 12-port variant (6100 12G Class4 PoE 2SFP+) provides:
- * Exactly the right number of access ports for cabin needs.
- * 10 GbE uplinks through its SFP+ ports.
- * Class 4 PoE support for powering access points or IoT devices.
- * Fanless design options, important for quiet in-room installations.
- * This ensures no wasted ports, aligning with the CIO's requirement to minimize unused capacity.
- * Why not the other options?
- * A (6200F 12G PoE 2SFP+): The 6200F is higher cost and aimed at larger campus edge deployments with richer feature sets, making it less cost-effective for single-cabin use.
- * B (6100 24G PoE 4SFP+): Provides 24 access ports, which would be overprovisioned (wasted ports) in cabins where only 1-2 devices need connectivity.
- * D (6000 12G PoE 2SFP): The 6000 series is more limited in features, and does not support 10 GbE uplinks, which are required by the CIO for increased traffic handling.
- * Aruba Design Guide Reference:
- * Aruba ESP Campus Access Design recommends CX 6100 switches for cost-optimized edge/cabin scenarios.
- * 10 GbE uplink requirement and PoE needs align directly with the CX 6100 12-port model with 2x SFP+ uplinks.
- * This model provides the most cost-effective, right-sized, and standards-compliant option for cabin switches.

Final Justification:

The correct and most cost-effective model for the cabins is the Aruba CX 6100 12G Class4 PoE 2SFP+, which provides PoE, supports 10 GbE uplinks, avoids wasted ports, and matches Aruba best practices for cabin access switches.

NEW QUESTION # 49

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 has decided that more critical switch stacks supporting Contact Center resources will need to support greater than 600W of CL4 PoE and have redundant power supplies. These stacks will have approximately six members.

What would be the most economical choice Aruba switch series to meet these requirements?

- A. Aruba CX6300F
- B. Aruba CX 6400
- C. Aruba CX6200M
- D. Aruba CX 6100

Answer: A

Explanation:

The Aruba CX 6300F Switch Series is well-suited for environments requiring high PoE power and redundancy in power supplies, especially for critical applications like supporting contact center resources. This series offers robust PoE capabilities, often exceeding 600W of Class 4 PoE power, making it ideal for powering multiple high-powered devices. Additionally, the Aruba CX 6300F supports stack configurations and redundant power supplies, ensuring high availability and reliability for critical network infrastructures. Its economical pricing, combined with high performance and reliability, makes it the most cost-effective choice for the client's requirements.

NEW QUESTION # 50

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 sqm) 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 Cat5, 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 IDF's located on floors one and two. The HOF 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.

Which two projects does the customer have in the planning state? (Select two)

- A. new POS system
- B. VoIP upgrade
- C. kiosks/display station
- D. Inventory Control System

Answer: B,D

Explanation:

ACME Retail is in the planning stages of upgrading their current PBX system to a VoIP system, as indicated by their intention to move away from the existing PBX system later in the year. This upgrade is part of their overall network infrastructure overhaul to incorporate modern best practices. Additionally, the company is facing challenges with their current inventory control system, particularly with Zebra barcode scanners having signal issues throughout the stores, making monthly inventory processes difficult. Improving the inventory control system to achieve almost real-time inventory for their online service is a critical aspect of their growth and cost-cutting strategy, hence it's in the planning stage as well.

NEW QUESTION # 51

What is one use case for designing a 2-tier campus LAM instead of using a 3-tier?

- A. Cross-campus traffic has grown beyond the capacity of a single collapsed core
- B. The campus has small buildings with only a few wiring closets.
- C. Access aggregation points are not scaling to meet traffic demands.
- D. The network has grown beyond a few building aggregation points

Answer: B

Explanation:

A 2-tier campus LAN architecture, consisting of the core and access layers, is typically suitable for smaller campuses or networks with limited numbers of wiring closets. This simplified architecture eliminates the need for a dedicated aggregation layer, which is more common in larger, more complex network environments (the 3-tier architecture). In a small campus setting with only a few wiring closets, a 2-tier design can provide sufficient performance and scalability, reducing complexity and potentially lowering costs. This architecture allows for direct connectivity between the access layer, where end devices connect to the network, and the core layer, which routes traffic to and from the campus network. The use of a 2-tier architecture in such scenarios is driven by the network's size and the simplicity of its requirements, making it an efficient and effective choice.

NEW QUESTION # 52

XYZ Regional Hospital is an integrated healthcare system of Hospitals, neighborhood health centers, and small doctor offices. XYZ Regional Hospital has recently merged with 1x 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, S0-8branch. IoT

* Provide secure wireless access to all the employees of (he 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: 802.11ax (Wi-Fi 6E Certified)
- Security options Including 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 XYZ Regional Hospital is looking for an NAC solution to address its security challenges-Requirements:

- fully redundant NAC solution for management and authentication
- wireless and wired authentication for the main hospital will be handled locally
- wireless and wired authentication for the health centers will be handled locally
- wireless and wired authentication for the clinics will be authenticated against the main hospital NAC
- staff users/devices should be able to visit any site and have the same experience
- support 35k devices

Locations:

- XYZ Regional Hospital is located in City 1 - 15k devices
 - Dila Health center is located in City 2 - 8k devices
 - Mount Health Center is located in City 3 - 5k devices
 - Rock Health Center is located in City 4 - 4k devices
 - 125 branch clinics are located at different locations across the US - 2k devices
- Which solution meets the customer's requirements?

• A.

- 1x 3010 as a Publisher for the main DC
- 1x 3010 as a Standby Publisher for the DR
- 2x 3010 as Subscribers for the Main Hospital
- 2x C1000 as Subscribers for the Dila Health Center
- 2x VMs as Subscribers for the Mount Health Center
- 2x C2020 as Subscribers for the Rock Health Center
- 15k + 10k Access licenses

• B.

- 1x C3010 as a Publisher for the main DC
- 1x C3010 as a Standby Publisher for the DR
- 2x C3010 as Subscribers for the Main Hospital
- 2x C1000 as Subscribers for the Dila Health Center
- 2x VMs as Subscribers for the Mount Health Center
- 2x VMs as Subscribers for the Rock Health Center
- 35k Access licenses

• C.

- 1x 3010 as a Publisher for the main DC
- 1x C2020 as a Standby Publisher for the DR
- 2x C2020 as Subscribers for the Main Hospital
- 2x C1000 as Subscribers for the Dila Health Center
- 2x C1000 as Subscribers for the Mount Health Center
- 2x VMs as Subscribers for the Rock Health Center
- 15k + 10k Access licenses

• D.

Answer: C

Explanation:

Option B in the provided selections outlines a configuration that includes an Aruba ClearPass Policy Manager as a Publisher for the main DC and as a Standby Publisher for the DR, with subscriber servers allocated to the main hospital and health centers. This setup is likely to match the requirement for a fully redundant NAC solution, with local handling of authentication for the main hospital and health centers, and centralized authentication for the clinics. The inclusion of VMs (Virtual Machines) as subscribers for health centers suggests scalability and flexibility for future expansion. The provision of 35k access licenses aligns with the support for 35k devices across all locations.

NEW QUESTION # 53

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