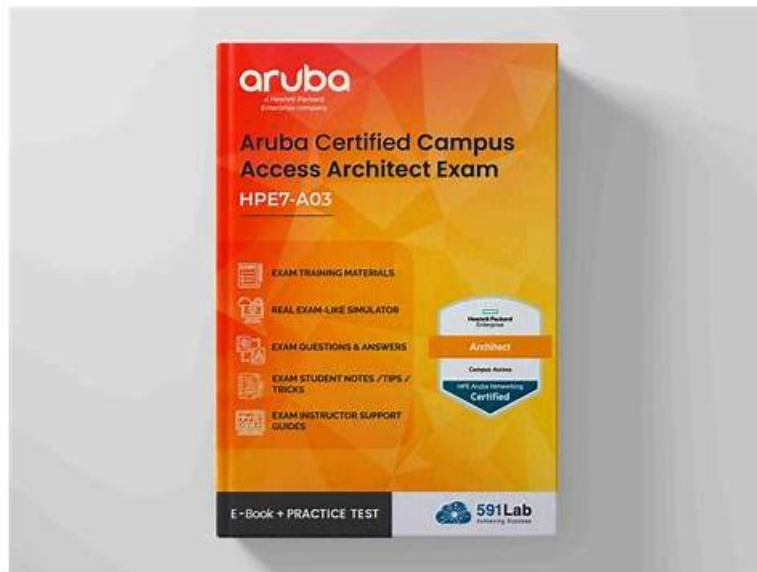


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## Free PDF HPE7-A03 - Professional Aruba Certified Campus Access Architect Exam Latest Exam Materials

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## HP Aruba Certified Campus Access Architect Exam Sample Questions (Q40-Q45):

### NEW QUESTION # 40

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 (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 # 41

What are the advantages of using a vSX-pair instead of two discrete switches to connect servers, storage, firewalls, and other workloads?

- A. VMWare-Most can be connected with or without using LACP. regardless of their license.
- B. You can save half the number of licenses needed for AFC.
- C. The setup is much easier since both switches are sharing the same configuration.
- **D. Both members in a VSX-pair can be upgraded without any downtime for the workload.**

**Answer: D**

Explanation:

One of the key advantages of using a Virtual Switching Extension (VSX) pair instead of two discrete switches for connecting servers, storage, firewalls, and other workloads is that both members in a VSX pair can be upgraded without any downtime for the workload (Option C). VSX technology provides advanced high availability features that allow for non-disruptive software upgrades, meaning that one switch in the VSX pair can be upgraded while the other continues to handle network traffic, thereby maintaining continuous operation of the connected workloads. This seamless failover capability ensures that there is no interruption to the critical services running on the network, making VSX an ideal solution for environments where uptime is paramount.

### NEW QUESTION # 42

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	
as-built rack drawings	
assumptions documented in design	
bill of materials	
data sheets of equipment proposed	
proposed topology diagram	
quote	

**Answer:**

Explanation:

POSSIBLE OPTIONS	CORRECT OPTIONS
architect's notes from meetings	architect's notes from meetings
as-built rack drawings	as-built rack drawings
assumptions documented in design	assumptions documented in design
bill of materials	bill of materials
data sheets of equipment proposed	data sheets of equipment proposed
proposed topology diagram	proposed topology diagram
quote	quote

Explanation:

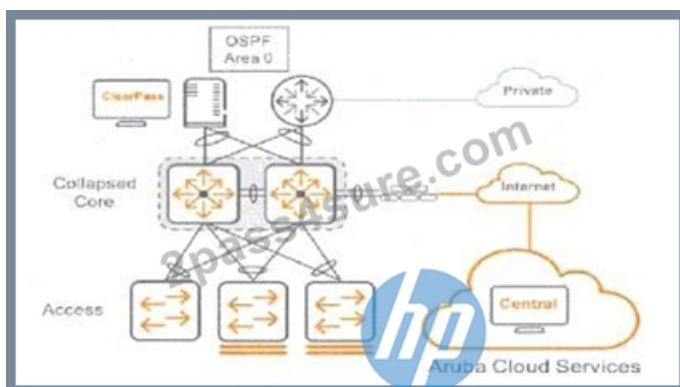
For the solution proposal, the documents that should typically be included are:

- \* 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 # 43

'Don't Buy at Us' is a US-based retail company that is expanding into Europe. They are expanding into EMEA with a regional headquarters called HQ2 inside The Netherlands.

Their US-based headquarters HQ1 was refreshed last year based on the Aruba ESP architecture. You have treated the design for HQ2 based on the same design as HQ1. a two-tier architecture. The high level is shown below.



Switch BOM for this project based on Two Tier:

Collapsed Core: 2 x Aruba 8360-16Y2C in VSX (ISL 2x100GbE DAC)

Access Stack: 10 x Stack of Aruba 6200F 48G Class4 PoE 4SFP- 740W each stack has 4 members. VSF with 10GbE VSF links) 12 x 10GbE uplink per stack) During the presentation of your design to the CTO of 'Don't Buy at Us' you were informed about the updated fiber infrastructure that Don't Buy at Us' has installed in HQ2.

Fiber start	Fiber end	Fiber type	Total distance	Fiber pairs total	Fiber pairs free
IDF1	MDF	OM2	71 meter	8	2
IDF2	MDF	OS1	200 meter	12	8
IDF3	MDF	OM3	150 meter	6	4
IDF4	MDF	OM3	135 meter	10	4
IDF5	MDF	OM4	156 meter	4	2
IDF6	MDF	OS1	167 meter	24	16
IDF7	MDF	OS1	197 meter	12	10
IDF8	MDF	OM3	45 meter	4	2
IDF9	MDF	OS1	250 meter	16	14
IDF10	MDF	OM2	62 meter	8	6

The core stack is Installed in the MDF and per IOF there is one access stack installed. Based on best practice, what is the most cost-effective update to the switch BOM?

- A. 

core: 2 x Aruba 8360-16Y2C in VSX (ISL 2x100GbE DAC)  
 access stack: 10 x stack of HPE Aruba Networking 6200M 48G Class4 PoE 4SFP+ (each stack has 4 members, VSF with 10GbE VSF links) (2 x 10GbE uplink per stack)  
 optics: 12 x 10Gbit-SR + 8 x 10Gbit-LRM
- B. 

core: 2 x Aruba 8360-16Y2C in VSX (ISL 2x100GbE DAC)  
 access stack: 10 x stack of Aruba 6200F 48G Class4 PoE 4SFP+ 740W (each stack has 4 members, VSF with 10GbE VSF links) (2 x 10GbE uplink per stack)  
 optics: 12 x 10Gbit-SR + 8 x 10Gbit-LR
- C. 

core: 2 x Aruba 8360-16Y2C in VSX (ISL 2x100GbE DAC)  
 access stack: 10 x stack of Aruba 6200F 48G Class4 PoE 4SFP+ (each stack has 4 members, VSF with 10GbE VSF links) (2 x 10GbE uplink per stack)  
 optics: 12 x 10Gbit-SR + 8 x 10Gbit-LR
- D. 

core: 2 x Aruba 8360-16Y2C in VSX (ISL 2x100GbE DAC)  
 access stack: 10 x stack of Aruba 6200F 48G Class4 PoE 4SFP+ 740W (each stack has 4 members, VSF with 10GbE VSF links) (2 x 10GbE uplink per stack)  
 optics: 12 x 10Gbit-SR + 8 x 10Gbit-LR

**Answer: A**

**Explanation:**

Option B is the most cost-effective solution, as it does not include long-range optics, which are unnecessary given the distances and fiber types specified. The 10GbE-SR optics are suitable for short-range connections up to 300 meters over OM3 fiber and would cover the needs of the longest fiber run mentioned, which is 250 meters. The 10GbE-LRM optics, while capable of reaching up to 220 meters over OM2 fiber, would not be necessary as the longest OM2 run is 71 meters, which is within the range of standard 10GbE-SR optics. Thus, Option B provides the required connectivity without incurring additional costs for long-range optics that are not needed given the fiber infrastructure of HQ2.

#### NEW QUESTION # 44

ACME retail has 38 locations spread out across Ave US states and two provinces in Canada. They are looking to grow 20% over the next two years. They have an HO 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 st 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 CatS. 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 HO 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.

ACME Retail is using 4-post racks. Which rack mounting kit is better suited for this project?

- A. included Rack Mounting Kit
- B. optional Third Party 4-port Rack Mount Kit
- **C. optional Aruba Universal 4-post Rack Mount Kit**
- D. optional Aruba 2-post Rack Mount Kit

**Answer: C**

Explanation:

For a large multinational retail company like ACME Retail that uses 4-post racks in their network infrastructure, the most suitable rack mounting kit would be the optional Aruba Universal 4-post Rack Mount Kit. This kit is designed to provide a secure and stable mounting solution for networking equipment in 4-post rack systems, which are commonly used in enterprise environments for their robustness and ability to support heavier equipment. The Aruba Universal 4-post Rack Mount Kit is versatile and designed to fit a wide range of Aruba switches and networking devices, making it an ideal choice for ACME Retail's project, ensuring compatibility and ease of installation across their various locations.

## NEW QUESTION # 45

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