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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">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 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"> • 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 (Q24-Q29):

NEW QUESTION # 24

The customer recently found out that Aruba OS-CX switches are capable of Application Recognition. What requirements should be fulfilled in order to do this? (Select two.)

- A. 6400 with Aruba CX Advanced License
- B. 6300F/M with Aruba CX Advanced License
- C. 6200F/M with Aruba CX Advanced License
- D. 8360 with Aruba CX Advanced License

Answer: A,B

Explanation:

Aruba OS-CX switches, specifically the Aruba 6400 and 6300F/M models, are designed to support advanced networking features, including Application Recognition, with the Aruba CX Advanced License. The Advanced License enables enhanced capabilities such as deeper visibility into application flows, advanced routing features, and improved network analytics.

Application Recognition allows these switches to identify and classify applications running on the network, enabling more intelligent and dynamic network policies and improving overall network performance and security. The requirement for an Aruba CX Advanced License on these specific models ensures that the necessary software features and support are available to leverage Application Recognition capabilities effectively.

NEW QUESTION # 25

Drag and Drop Question

Select the appropriate fiber optic standard for the given link speed.

□

Answer:

Explanation:

□

NEW QUESTION # 26

Identify the stakeholders when gathering information for the network design and new IDF/MDF design. (Select two.)

- A. Facility manager
- B. Network Operations manager

- C. Chief Financial Officer
- D. Help desk manager

Answer: B,D

Explanation:

When designing a network and considering new Intermediate Distribution Frame/Main Distribution Frame (IDF/MDF) deployments, it's essential to gather information from various stakeholders to ensure the design meets all operational and organizational requirements. According to Aruba Campus Access learning resources, the Help Desk Manager and Network Operations Manager are crucial stakeholders in this process.

The Help Desk Manager provides insights into common issues, user complaints, and service requests, which can influence network design decisions to improve user experience and operational efficiency. The Network Operations Manager, on the other hand, offers a technical perspective on network management, maintenance requirements, and operational challenges. Engaging with these stakeholders ensures that the network design is aligned with both user needs and technical operational standards, contributing to a more resilient, efficient, and user-friendly network infrastructure.

NEW QUESTION # 27

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 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.

Based on best practices, what should you recommend as the correct optic type for the connection between the IDF and the cabins?

- A. 10G LC BiDi 40 km 1330/1270 XCVR
- B. 10G SFP+ LC SR 300 m MMF Transceiver
- C. 10G SFP+ LC LRM 220 m MMF Transceiver
- D. 10GBASE-T SFP+ RJ-45 30 m Cat6A Transceiver

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

* Cabling Type in Use: Each cabin and technical room is connected to the IDF with a single OM2 multimode fiber pair. The maximum length to cabins is 60 meters, and to technical rooms 100-150 meters.

* Best Practice for 10 GbE over OM2: According to Aruba's Campus Access Design Guides and HPE Aruba CX switch transceiver support matrices:

* OM2 multimode fiber supports 10GBASE-SR optics up to 82 meters.

* Since the maximum run is 60 meters, 10GBASE-SR is fully supported with headroom.

* 10GBASE-LRM can reach 220 m on MMF, but is not required here because the fiber length is much shorter. SR optics are simpler, lower cost, and recommended in best practices when distances are within OM2 limits.

* 10GBASE-T RJ-45 (Cat6A) is not applicable, as the cabling is fiber, not copper.

* BiDi 40 km optics are for long-haul single-mode fiber links, not short multimode fiber runs.

* Aruba Validated Design Reference: Aruba's Validated Solution Guides for Campus Access state that for short multimode connections (OM2/OM3/OM4), the recommended transceiver type is 10GBASE-SR (SFP+ LC) as it provides the most cost-effective and reliable option within the supported reach.

* Requirement Mapping:

* Uplinks to access switches in cabins/technical rooms must be 10 GbE capable.

* The OM2 cabling length (60-150 m) is within the supported distance for 10GBASE-SR.

* Therefore, the correct and most efficient optic choice is 10G SFP+ LC SR 300 m MMF Transceiver.

Final Justification:

Option B is correct because 10GBASE-SR over OM2 supports the required distances, aligns with Aruba design best practices, and avoids unnecessary cost/complexity of LRM or BiDi optics.

Reference Extracts (Aruba Official Study & Design Guides):

* Aruba Campus Access Design Guide: recommended transceiver selection for MMF cabling.

* Aruba CX Transceiver Guide: 10GBASE-SR supports OM2 up to 82 m, OM3 up to 300 m, OM4 up to 400 m.

* Aruba Validated Solution Guide: Always select SR optics for OM2 # 82 m runs as the cost-effective standard.

NEW QUESTION # 28

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 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 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 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.

Based on the scenario, where would you look to add additional items to the BOM to aid the company goals? (Select three.)

- A. Marketing
- B. Finance Team
- C. Security Team/CISO
- D. Customer Experience Officer
- E. Sales Management
- F. Building Facilities

Answer: A,B,F

Explanation:

In addressing the company's goals and the challenges presented in the scenario, adding items to the Bill of Materials (BOM) that would involve the Building Facilities team could include infrastructure upgrades like improved cabling (moving from Cat5 to a higher category) or enhancements to support the new wireless and VoIP systems. For the Marketing team, technologies that could enable better interaction with customers, such as location-based services or analytics tools, would be beneficial. These could help in understanding customer behavior within the stores and tailoring marketing efforts accordingly. Finally, input from the Finance Team would be essential in ensuring that the solutions chosen fit within the budget constraints and offer a good return on investment, especially considering the company's desire for a solution that could last 7+ years and support their growth plans.

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