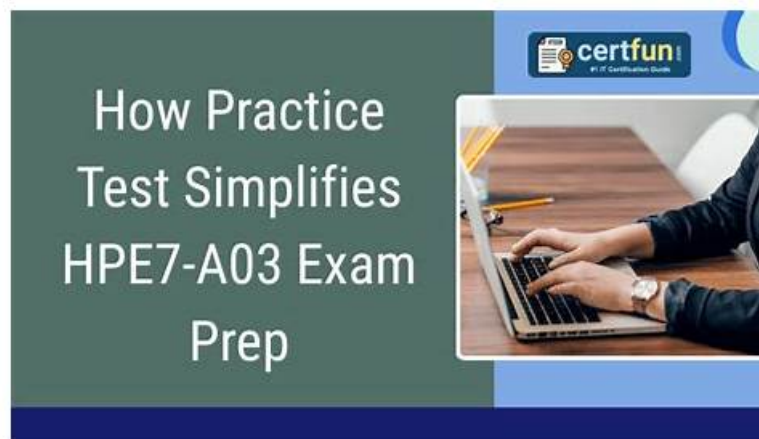


HPE7-A03認證考試的題目與答案



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HP HPE7-A03 考試大綱：

主題	簡介
主題 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.
主題 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.
主題 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.

- **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.

最新的 Aruba Certified Professional HPE7-A03 免費考試真題 (Q72-Q77):

問題 #72

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 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 10GbE 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.

The week after the presentation of your design to the CIO of the cruise line company, the CIO calls you to discuss increasing the security on 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 systems, they need a low-latency network connection between the POS system and the POS 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 Aruba 6300 switches for the edge. 8325 for the RR. 8360 for the stub/border. 9240 for the WLAN Gateway, and utilize Aruba Central NetConductor.
- B. Standardize on Aruba 6300 switches for the edge. 8320 for the RR. 8360 for the stub/border, and utilize Aruba Central NetConductor
- C. Standardize on Aruba 6200 switches for the edge. 8325 for the RR. 8360 for the stub/border, and utilize Aruba Central NetConductor
- **D. Standardize on Aruba 6300 switches for the edge. 8320 for the RR. 8360 for the stub/border. 9240 for the WLAN Gateway, and utilize Aruba Central NetConductor.**
- E. Standardize on Aruba 6300 switches for the edge. 8320 for the RR. 8320 for the stub/border. 9240 for the WLAN Gateway, and utilize Aruba Central NetConductor

答案: D

解題說明:

Considering the global cruise line company's requirement to enhance wired network security while ensuring low-latency connections for POS systems and tunneling all user traffic for WLAN security, the most fitting solution involves a combination of Aruba switches and gateway along with a network management and orchestration tool. Specifically, standardizing on Aruba 6300 switches for the edge layer caters to the need for high-performance, fan-less switches with 10GbE uplinks, matching the requirement for upgraded cabin and technical room connections. The Aruba 8320 as a Route Reflector (RR) and Aruba 8360 for the stub/border provide a robust core and distribution layer with high throughput and redundancy. The inclusion of a 9240 WLAN Gateway addresses the need for secure WLAN user traffic tunneling. Utilizing Aruba Central NetConductor enhances network management efficiency, security policy enforcement, and dynamic segmentation across the wired and wireless infrastructure, aligning with the ESP

architecture from Aruba and meeting the company's security enhancement objectives.

問題 #73

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. Aruba's best practice is to use whatever the AP model supports as a maximum.
- C. 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.
- **D. Aruba recommends 30-50 devices per radio for a generic office deployment.**

答案: D

解題說明:

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.

問題 #74

The client's existing network is experiencing trouble with voice occasionally dropping out on phone calls between office locations. It is determined that no packet loss is occurring and QoS is likely the cause.

With what phenomenon is the client currently experiencing issues?

- A. ☐
- **B. ☒**
- C. ☐

答案: B

解題說明:

The client is experiencing issues with jitter, as depicted in Option B. Jitter refers to the variation in time between packets arriving, caused by network congestion, timing drift, or route changes. In voice communications, jitter can manifest as the occasional dropping out of voice on phone calls because the variable delay can affect the steady stream of voice packets needed for a clear conversation. Even when there is no packet loss, high levels of jitter can significantly impact the quality of Voice over IP (VoIP) calls. Quality of Service (QoS) settings are essential in managing jitter, as they can prioritize voice traffic over other types of data, ensuring that voice packets are delivered consistently and in the correct order to minimize delays and prevent call quality degradation. Aruba Campus Access solutions would typically include QoS features to manage and mitigate jitter on the network.

問題 #75

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 (9,290 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 decided that wired headless devices would be authenticated using Mac Authentication and would have RADIUS attributes sent back to the NAD to assign VLAN and port access parameters to the authentication session on the switch port.

What would be critical in making this a successful deployment? {Select two.}

- A. Mobility Gateway
- **B. ClearPass**
- **C. DHCP**
- D. Airwave

答案: B,C

解題說明:

For a successful deployment of MAC Authentication with RADIUS attributes for VLAN and port access parameters, ClearPass is critical. ClearPass Policy Manager offers advanced network access control, policy management, and is capable of handling MAC Authentication effectively. It can communicate with the Network Access Devices (NADs) to apply the correct access policies based on RADIUS attributes received during the authentication process. DHCP is also crucial in this setup for dynamically assigning IP addresses to authenticated devices, ensuring that they can connect to the network with the appropriate network settings. Together, ClearPass and DHCP services form the backbone of a secure, manageable, and dynamically segmented network infrastructure, ensuring devices are authenticated and receive the correct network configuration.

問題 #76

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 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.

The IT staff at ACME retail is asking for recommendations to support Aruba deployment. Based on the limited information provided, what training should you recommend?

- A. YouTube
- B. datasheets
- **C. HPE Aruba Networking Education Services training credits**
- D. Airheads community
- E. Airwave class

答案: C

解題說明:

For ACME Retail's IT staff, who are looking to support an Aruba deployment, HPE Aruba Networking Education Services training credits would be the most beneficial recommendation. These training credits offer access to comprehensive, formal training courses on Aruba products and solutions, covering various aspects such as design, implementation, administration, and troubleshooting. The structured curriculum provided by HPE Aruba Education Services is tailored to enhance the technical skills and knowledge of IT professionals, ensuring they are well-equipped to deploy, manage, and optimize Aruba networking solutions effectively. This formal training would be more effective than informal sources like datasheets, YouTube, or community forums for building a

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