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HP HPE7-A03 Exam Syllabus Topics:

Topic	Details
Topic 1	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	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	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	Discover Requirements: This topic defines the goals and identifies the current environment and the objectives. Lastly, it also focuses on collecting information.

HP Aruba Certified Campus Access Architect Exam Sample Questions (Q47-Q52):

NEW QUESTION # 47

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

1Z5 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 The wireless, wired access, and AAA solutions are outdated and need to be replaced.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. 802.11X 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 C2020 as Subscribers for the Dila Health Center
 - 2x C2020 as Subscribers for the Mount Health Center
 - 2x C2020 as Subscribers for the Rock Health Center
- 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.
 - 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

Answer: B

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 # 48

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

Answer: A,C

Explanation:

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.

NEW QUESTION # 49

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

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

Answer: C

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 # 50

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 OM3. Each cabin is connected by a single

OM3 pair to the IDF. the maximum length is 60 meters (200 ft). Each technical room is connected by a single

OM3 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 of the wired network infrastructure. Since one of their competitors had one of their cruise ships cyber hacked, the CIO of the cruise line has mandated increased security on the wired network. They have heard about dynamic segmentation and central and decentral overlay networks.

What would you advise as the most cost-efficient solution?

- A. Standardize on Aruba 6000 switches for the access layer, add a cluster of 9240 GWs. and Implement central overlay networks on UBT basis.
- **B. Standardize on Aruba 6300 switches for the access layer, add a cluster of 9240 GWs. and Implement central overlay networks on UBT basis.**
- C. Standardize on Aruba 6200 switches for the access layer, add a cluster of 9240 GWs. and Implement central overlay networks on UBT basis.
- D. Standardize on Aruba 6100 switches for the access layer, add a cluster of 9240 GWs. and Implement central overlay networks on UBT basis.

Answer: B

Explanation:

For a global cruise line company looking to refresh its fleet with a focus on sustainability and cost-effectiveness, while not changing its current security requirements, the most suitable option would be to standardize on Aruba 6300 switches for the access layer. The Aruba 6300 switches offer advanced security features and scalability, which is crucial for the dynamic and demanding environment of a cruise ship.

Additionally, implementing a cluster of 9240 Gateways and central overlay networks based on User-Based Tunneling (UBT) will enhance the security of the wired network infrastructure. This approach aligns with the Aruba ESP (Edge Services Platform) architecture, providing a unified infrastructure that integrates security, AI-powered operations, and cloud-native agility. The central overlay networks will enable the cruise line to segment network traffic, apply consistent policies, and provide secure access across the fleet, meeting the increased security demands without compromising on performance or sustainability.

NEW QUESTION # 51

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 take to ensure redundant RADIUS resources in each of their three geographical regions (AMER, EMEA, and APAC). A large office location is available in each region with sufficient VMware resources available.

* Each region has between 4,435 and 5,859 clients, all of which will need to do either 802.1X wired or wireless authentications as well as 802.1X authentication for a single personal device on Wi-Fi.

* All of the non-personal devices will also need to validate health with a local agent.

* A total of 500 guests are expected to be connected on average with a maximum of 700 simultaneous connections making use of Guest Portal for access to the internet.

* TACACS authentication will also be configured for a total of 1200 evenly dispersed NADs.

How many OnGuard Licenses are required in this scenario?

- A. 30,000
- **B. 15,000**
- C. 20,000
- D. 10,000

Answer: B

Explanation:

In the scenario provided, each of the clients in the three geographical regions (AMER, EMEA, and APAC) will require OnGuard licensing for health validation through a local agent, covering both wired and wireless authentications as well as personal device Wi-Fi authentication. Given the client counts range between 4,435 and 5,859 in each region, and assuming the upper limit for planning purposes, we have approximately 5,859 clients per region. Multiplying by three regions gives us 17,577, which would be rounded up to the nearest available licensing tier. In this case, 15,000 licenses would not be sufficient, so the next logical tier would likely be around 20,000 licenses. However, since this exact number isn't an option, and based on the principle of providing the most accurate and cost-effective solution, the best estimate with the given options would be

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