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HP Aruba Certified Campus Access Architect Exam Sample Questions (Q15-Q20):

NEW QUESTION # 15

The clients 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.

Answer: A

Explanation:

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.

NEW QUESTION # 16

'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 2 ICOG0E DAC)

Access Slack: 10 x Slack 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 changes they want you to incorporate into the updated design

1. HQ2 will include the EMEA regional distribution center (EMEA-OISTR) next to the HQ2.
2. Only two pairs of OS1 are available between HQ2 and EMEA-DISTR.
3. The uplinks from all access stacks need to increase to 2 x 25GbE. the fiber in HQ2 and EMEA-DISTR is certified for 25GbE.
4. EMEA-DISTR needs at least 7 x stack of Aruba 48 ports switches (each stack has 4 members).

Which answer based on best practice is presenting the correct Switch BOM for the updated design?

- A.
- B.
- C.
- D.

Answer: C

Explanation:

Based on the requirements provided by "Don't Buy at Us," the updated design needs to accommodate 25GbE uplinks and a minimum of 7 stacks of 48-port Aruba switches for the EMEA-DISTR. Option C is the most suitable based on best practices, as it proposes:

* A core configuration consisting of two Aruba 8360-12C in VSX for the collapsed core with ISL of 2x100GbE DAC, which will provide robust core networking with high-speed interconnects, suitable for the demands of a regional distribution center and headquarters.

* Aggregation with two stacks, each with 2 Aruba 8360-12C in VSX (ISL 2x100GbE DAC), accommodating the uplink capacity requirements.

* Access stacks with a total of 17 stacks of Aruba 6300F 48-port 1GbE Class 4 PoE with 4-port SFP56 (each stack has 4 members, VSF with 50GbE VSF links, 2 x 25GbE uplinks per stack), which exceeds the minimum requirement of 7 stacks and provides the necessary uplink bandwidth.

This configuration supports the 25GbE uplink speeds, satisfies the required number of switch stacks for the EMEA distribution center, and is compatible with the existing 25GbE-certified fiber infrastructure at HQ2 and EMEA-DISTR.

NEW QUESTION # 17

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 IDFs 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.

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

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

Answer: A,B

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 bestpractices. 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 # 18

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 single-mode fiber (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), type used is OS1. Each cabin is connected by a single OM2 pair to the IDF, maximum length 60 m (200 ft). Each technical room is connected by a single OM2 pair to the IDF, with lengths 100-150 m (320-500 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.

A 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 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 (Point of Sale) systems, they need a low-latency network connection between the POS system and the PCS 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 6300 switches for the edge, 8320 for the RR, 8360 for the stub/border, 9240 for the WLAN Gateway, and utilize HPE Aruba Networking Central NetConductor.
- B. Standardize on 6300 switches for the edge, 8320 for the RR, 8360 for the stub/border, and utilize HPE Aruba Networking Central NetConductor.
- C. Standardize on 6300 switches for the edge, 3320 for the RR, 8320 for the stub/border, 9240 for the WLAN Gateway, and utilize HPE Aruba Networking Central NetConductor.
- D. **Standardize on 6300 switches for the edge, 8325 for the RR, 8360 for the stub/border, 9240 for the WLAN Gateway, and utilize HPE Aruba Networking Central NetConductor.**
- E. Standardize on 6200 switches for the edge, 8325 for the RR, 8360 for the stub/border, and utilize HPE Aruba Networking Central NetConductor.

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Aruba's ESP Campus Access Design and NetConductor Architecture guides outline the validated roles of devices in dynamic segmentation deployments.

* Access Layer (Edge): Aruba CX 6300The CX 6300 provides 10 Gb uplinks to distribution, advanced features like VXLAN and EVPN, and support for role-based access control at the edge. It is the recommended choice for modern edge deployments in an ESP fabric.

* Route Reflector (RR): Aruba CX 8325The CX 8325 is optimized for routing and control-plane operations. As a route reflector, it scales overlay BGP sessions and distributes policies/roles through the fabric. It is explicitly referenced as the ideal RR platform in Aruba ESP campus validated designs.

* Stub/Border: Aruba CX 8360The CX 8360 family provides advanced aggregation and fabric services.

It supports VXLAN, EVPN, and border routing functions, making it the right choice for stub/border persona in ESP designs.

* WLAN Gateway: Aruba 9240The Aruba 9200/9240 series gateways provide role-based policy enforcement for tunneled WLAN traffic. They terminate GRE/IPsec tunnels from APs, enforce user policies, and forward into the fabric. This is critical to meet the requirement of tunneling all WLAN user traffic for enhanced security.

* Dynamic Segmentation with NetConductorAruba Central NetConductor enables centralized definition and orchestration of user roles and segmentation policies. Roles are automatically enforced across the fabric using VXLAN with Group-Based Policy (GBP). This supports both centralized tunneling (for WLAN traffic) and distributed segmentation (for wired POS traffic requiring low latency).

* Requirement Mapping:

* Low-latency POS traffic # Distributed role enforcement within the fabric via 8360/8325.

* Secure WLAN traffic # User traffic tunneled to the 9240 gateway for role-based enforcement.

* 10 Gb uplinks and redundancy # Provided by 6300 edge switches with dual power options in technical rooms.

* ESP architecture # NetConductor automates overlay, segmentation, and role orchestration.

Other options are eliminated because:

* A uses 3320 for RR, which lacks overlay fabric scalability.

* B uses 8320 for RR (possible, but Aruba recommends 8325 for RR roles in NetConductor designs).

* D omits the WLAN Gateway, which is required to tunnel WLAN traffic.

* E uses 6200 at the edge, which does not provide the required 10 Gb uplink capability.
Therefore, Option C is the only design that fully satisfies the cruise line's requirements while aligning with Aruba's ESP Campus validated architectures.

Reference Extracts (Aruba Official Study & Design Guides):

- * Aruba ESP Campus Design Guide: device personas (edge, RR, stub/border, gateway) and NetConductor integration.
- * Aruba NetConductor Technical Overview: VXLAN-GBP, dynamic segmentation, and centralized role enforcement.
- * Aruba Dynamic Segmentation Solution Overview: tunneling of WLAN traffic, role-based security across wired and wireless.
- * Aruba CX Switch Series Data Sheets: CX 6300 (edge with 10 Gb uplinks), CX 8325 (RR), CX 8360 (border/stub), Aruba 9240 (WLAN gateway).

NEW QUESTION # 19

What is true about 1000 Base-LX single mode transceivers?

- A. 1000Base-LX needs a Mode Conditioning Patch Cable to be operated with OM5 cables up to 550 m
- B. 1000Base-LX needs a Mode Conditioning Patch Cable to be operated with OS1 cables up to 2 Km
- C. 1000Base-LX doesn't need a Mode Conditioning Patch Cable to be operated with OM2 cables up to 550 m
- D. 1000Base-LX needs a Mode Conditioning Patch Cable to be operated with OM1 cables up to 550 m

Answer: D

Explanation:

The 1000Base-LX standard is designed primarily for single-mode fiber (SMF) but can also operate over multi-mode fiber (MMF). However, when using a 1000Base-LX (long wavelength) transceiver with older multi-mode fiber like OM1 (\$62.5/125\$ \$μm m\$), a specific technical issue called Differential Mode Delay (DMD) occurs.

* Mode Conditioning Patch (MCP) Cable: To mitigate DMD, an MCP cable must be used when connecting a 1000Base-LX transceiver to OM1 or OM2 multi-mode fiber for distances up to 550 meters. This cable offsets the laser launch into the fiber core to ensure the signal propagates correctly.

* OM1 Specifics: OM1 fiber has a smaller bandwidth-distance product compared to newer standards.

Without the MCP, the signal distortion makes the 550m distance unattainable or unreliable.

* Comparison: * OS1 (Option D): This is single-mode fiber. 1000Base-LX transceivers are native to single-mode and do not require mode conditioning cables for OS1/OS2.

* OM5 (Option A): While technically possible, MCPs are typically associated with the legacy \$62.5\$ \$μm m\$ (OM1) and \$50\$ \$μm m\$ (OM2) fiber types.

* OM2 (Option C): Standard practice dictates that OM2 also requires an MCP for 1000Base-LX at 550m to avoid DMD, making "doesn't need" incorrect.

NEW QUESTION # 20

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