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HP Aruba Certified Campus Access Architect Exam Sample Questions (Q29-Q34):

NEW QUESTION # 29

You are going with a 3-tier design and need to calculate the oversubscription ratio on the Access, Distribution, Core, and ToR Layer. What is a suitable oversubscription ratio for each layer?

Answer Area

2:1 4:1 24:1

Access

Aggregation

Core

ToR

Answer:

Explanation:

20:1 4:1 2:1 24:1

Access

Aggregation

Core

ToR

Explanation:

Access - 20:1 Aggregation - 4:1 Core - 2:1

ToR - Not typically applicable in a 3-tier design; however, if ToR were used, it could be 24:1 or better depending on the specific design and requirements.

NEW QUESTION # 30

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 they would like to manage two wiring closets as a single stack with a total of 10 switches and a minimum transport speed of 25Gbps over OM4 MM fiber. They would also like to keep the stacking cabling cost to a minimum.

Which stacking components would be required to meet the customer's requirements in the most cost-effective way if the closets were 190 m (620 ft) apart? (Select two.)

- A. SFP56 transceivers
- B. 50GDAC cables
- C. 25GDAC cables
- D. SFP28 transceivers

Answer: A,D

Explanation:

To meet the customer's requirement of managing two wiring closets as a single stack with a minimum transport speed of 25Gbps over OM4 MM fiber, especially when the closets are 190m apart, the most cost-effective solution would involve using SFP transceivers. SFP28 transceivers can support speeds up to 25Gbps, aligning with the customer's minimum speed requirement. For higher speeds or future-proofing, SFP56 transceivers, which can support speeds up to 50Gbps, could also be considered. Both types are compatible with OM4 multimode fiber, which is capable of supporting these high speeds over the distance specified. DAC (Direct Attach Cable) solutions like options A and C would not be feasible due to the 190m distance between the closets, as DAC cables are typically used for much shorter distances.

NEW QUESTION # 31

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. ClearPass
- C. Airwave
- D. Mobility Gateway

Answer: A,B

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 # 32

When is a Mode Conditioning Patch Cable required?

- A. A10GBase-LX Transceiver is operated with 62.5/125 cables up to 2 km
- B. A1000Base-SX Transceiver is operated with 62.5/125 cables up to 500 m
- C. A1000Base-LX Transceiver is operated with 62.5/125 cables up to 500 m
- D. A10GBase-IR Transceiver is operated with 62.5/125 cables up to 500 m

Answer: C

Explanation:

Mode Conditioning Patch Cables (MCPs) are used in situations where long wavelength laser transceivers, such as the 1000Base-LX, are deployed over multimode fiber types like the 62.5/125 μm . The 1000Base-LX transceivers are designed primarily for use with single-mode fiber, but they can operate over multimode fiber using an MCP. The MCP is necessary because the core size of multimode fiber (62.5/125 μm) is significantly larger than that of single-mode fiber, which can lead to modal dispersion when a single-mode laser signal enters the multimode fiber. This dispersion can degrade the signal quality over longer distances. The MCP

mitigates this issue by aligning the single-mode laser output from the transceiver to a specific launch point in the multimode fiber, thus minimizing dispersion and allowing for effective data transmission over distances up to 500 meters.

NEW QUESTION # 33

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, and utilize HPE Aruba Networking Central NetConductor.
- B. 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.
- C. 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.
- D. Standardize on 6200 switches for the edge, 8325 for the RR, 8360 for the stub/border, and utilize HPE Aruba Networking Central NetConductor.
- E. 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.

Answer: C

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 NetConductor Aruba 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 # 34

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