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HP Aruba Certified Campus Access Architect Exam Sample Questions (Q37-Q42):

NEW QUESTION # 37

You hired a junior engineer to assist you with a large-scale network infrastructure project. The engineer has never worked on such a complex project 'ants to better understand the role that each role that each stakeholder will play in the project.

March the stakeholder title to the responsibilities that would most likely apply to their role.

	Answer Area	
CISO		responsible for supporting, troubleshooting, and monitoring the wired/wireless infrastructure
Network Design/Architecture		responsible for investigating IDS/IPS incidents and managing firewalls
Network Operations		responsible for establishing security policy and selecting security controls for the infrastructure.
Security Operations		responsible for authoring the low-level design, and creating the configuration to meet the technical requirements.

Answer:

Explanation:

	Answer Area	
Network Operations		responsible for supporting, troubleshooting, and monitoring the wired/wireless infrastructure
Security Operations		responsible for investigating IDS/IPS incidents and managing firewalls
CISO		responsible for establishing security policy and selecting security controls for the infrastructure.
Network Design/Architecture		responsible for authoring the low-level design, and creating the configuration to meet the technical requirements.

* CISO: responsible for establishing security policy and selecting security controls for the infrastructure.

* Network Design/Architecture: responsible for authoring the low-level design, and creating the configuration to meet the technical requirements.

* Network Operations: responsible for supporting, troubleshooting, and monitoring the wired/wireless infrastructure.

* Security Operations: responsible for investigating IDS/IPS incidents and managing firewalls.

NEW QUESTION # 38

You are delivering a replacement collapsed core network proposal to the customer where the core switches will have the switched virtual interlaces (SVI) configured. The customer is not sure that a VSX pair of switches will Be able to act as I tie spanning tree root in their environment.

Which options are true about spanning tie and VSX that will help assure the customer that a VSX pair of switches are appropriate for a collapsed core? (Select two.)

- A. Both VSX switches are configured with the system MAC and then create unique STP bridge-IDs to identify "operational primary" and "operational secondary" for proper STP functioning
- B. When LAG interfaces are configured on a VSX pair of switches, both switches are "operational primary" and ensure active-active LAG operation equally.
- C. The primary vsx switch ts the spanning tree root and the default behavior is the links on the secondary vsx switch are blocked with sub-millisecond failover assured by vsx active-gateway.
- D. The ISL between VSX switches is never part of STP domain and doesn't send or receive BPDUs on this link and this ensures the "operational primary" and "operational secondary" switches are deterministic to other dual-attached switches.
- E. Aruba VSX switches support either multiple spanning tree (MSTP) or rapid per VLAN spanning tree (RPVST).

Answer: D,E

Explanation:

According to Aruba Campus Access documents and learning resources, Aruba VSX (Virtual Switching Extension) technology is designed to provide advanced high availability and redundancy features for campus networks. Specifically, answer D is correct because Aruba VSX supports both Multiple Spanning Tree Protocol (MSTP) and Rapid Per VLAN Spanning Tree (RPVST), ensuring efficient tree structures for VLANs and rapid convergence in case of topology changes. Answer E is also true as the Inter-

Switch Link (ISL) used for the VSX pair is not part of the Spanning Tree Protocol (STP) domain, meaning it does not send or receive Bridge Protocol Data Units (BPDUs). This design prevents the ISL from influencing STP calculations, ensuring that the operational roles of the primary and secondary switches in the VSX pair are clear and predictable to the rest of the network. This separation helps maintain deterministic behavior and failover capabilities in the network, aligning with the goals of a collapsed core network design.

NEW QUESTION # 39

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 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 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.

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

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

Answer: A

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 # 40

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), 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 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 connection between the POS system and the POS server in the onboard data center.

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 Aruba Central NetConductor.
- B. Standardize on 6300 switches for the edge, 8320 for the RR, 8360 for the stub/border, and utilize Aruba Central NetConductor.
- C. Standardize on 6300 switches for the edge, 8325 for the RR, 8360 for the stub/border, and utilize Aruba Central NetConductor.
- D. Standardize on 6200 switches for the edge, 8325 for the RR, 8360 for the stub/border, and utilize Aruba Central NetConductor.
- E. Standardize on 6300 switches for the edge, 8325 for the RR, 8360 for the stub/border, 9240 for the WLAN Gateway, and utilize Aruba Central NetConductor.

Answer: E

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

* Requirements Recap:

* Dynamic segmentation # Needed for role-based access across wired/wireless.

* Overlay fabric (EVPN-VXLAN) # For scalable and secure segmentation.

* Low-latency POS connectivity # Needs local enforcement and efficient routing inside the fabric.

* Secure tunneling for WLAN traffic # Requires WLAN Gateway functionality.

* Limit unused ports # Use right-sized edge switches.

* Role of Devices:

* Edge: Aruba CX 6300

* Best practice for access edge with 10 Gb uplinks, PoE, and ESP fabric compatibility.

* Route Reflector (RR): Aruba CX 8325

* Optimized for control-plane scaling in EVPN fabrics, better fit than the 8320 for RR role.

* Stub/Border: Aruba CX 8360

* Acts as aggregation and border node in ESP campus fabric.

* WLAN Gateway: Aruba 9240

* Terminates wireless tunnels, enforces role-based policies, integrates with ClearPass and NetConductor.

* Aruba Central NetConductor

- * Provides cloud-based orchestration, dynamic segmentation, and policy automation across fabric.
- * Why Option A is Correct:
- * Includes 6300 at edge, 8325 for RR, 8360 for stub/border, 9240 for WLAN Gateway, and NetConductor.
- * Fully supports dynamic segmentation, fabric overlay, and WLAN tunneling while meeting latency and security requirements.
- * Why Not the Others:
- * B (8320 as RR): 8320 is less capable for modern RR roles compared to 8325.
- * C (6200 edge): 6200 cannot provide 10 Gb uplinks required by cabins/technical rooms.
- * D (8320 RR, no WLAN gateway): Missing WLAN gateway, so cannot support tunneled WLAN traffic.
- * E (no WLAN gateway): Also lacks WLAN gateway; requirement not met.

NEW QUESTION # 41

What are the advantages of using a vSX-pair instead of two discrete switches to connect servers, storage, firewalls, and other workloads?

- A. Both members in a VSX-pair can be upgraded without any downtime for the workload.
- B. VMWare-Most can be connected with or without using LACP. regardless of their license.
- C. The setup is much easier since both switches are sharing the same configuration.
- D. You can save half the number of licenses needed for AFC.

Answer: A

Explanation:

One of the key advantages of using a Virtual Switching Extension (VSX) pair instead of two discrete switches for connecting servers, storage, firewalls, and other workloads is that both members in a VSX pair can be upgraded without any downtime for the workload (Option C). VSX technology provides advanced high availability features that allow for non-disruptive software upgrades, meaning that one switch in the VSX pair can be upgraded while the other continues to handle network traffic, thereby maintaining continuous operation of the connected workloads. This seamless failover capability ensures that there is no interruption to the critical services running on the network, making VSX an ideal solution for environments where uptime is paramount.

NEW QUESTION # 42

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