



Vendor: HP

Exam Code: HPE7-A12

Exam Name: HPE Network Data Center Professional

Architect

Version: DEMO

QUESTION 1

You are designing a CX data center network for a customer who has indicated that they must integrate the switches in their automation workflows. Which capability enables your customer to fulfill their objectives?

- A. REST API with JSON
- B. gRPC
- C. XML API
- D. NETCONF

Answer: A

Explanation:

Aruba CX switches support automation through a REST API using JSON, which enables integration with external automation/orchestration workflows.

QUESTION 2

Drag and Drop Question

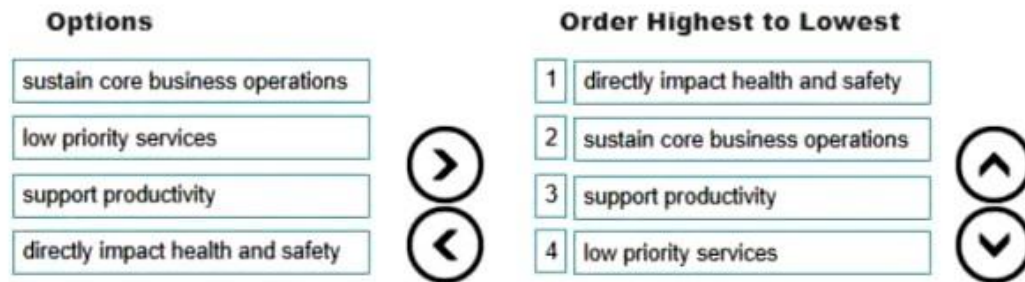
Order the severity levels (highest impact on top) into the righthand box.

Answer Area

Options		Order Highest to Lowest	
sustain core business operations		1	
low priority services	➤	2	⬆
support productivity		3	
directly impact health and safety	⬅	4	⬇

Answer:

Answer Area



Explanation:

Health and safety have the highest business impact, followed by services required for core operations, then productivity-supporting services, and finally low-priority services.

QUESTION 3

Waratah Hospital, based in Australia, is planning to move many data center services to new facility. (The remaining legacy data center will not be part of this project.) Waratah Hospital hired an external consultant to assist with the new data center network design.

Based on the requirements for the data center network infrastructure, the external consultant has created a high-level design. The below summarizes the content of the design document.

Requirements and information:

- Six racks in the data center room (single row).
- Redundant Top of Rack leaf switches with back-to-front cooling in each rack, providing 10/25 Gbps connectivity to servers, storage, and other devices.
- Four 100 GbE uplinks per leaf switch.
- The customer requested to install all switch ports facing the back of the rack racks (hot aisle.)
- OOB management for servers, storage, and network has to be provided through an external switch with back-to-front cooling. This switch has to be included in the solution. One OOB switch provides connectivity for two racks.
- Core equipment for the OOB network is being reused.
- Middle-of-row spine switches.
- The data center should connect to the hospital building with links that provide 400 Gbps.
- Internet access is provided through an existing firewall cluster with two firewalls, each firewall in one data room. The second firewall is operating in standby mode, VRRP is utilized on the firewalls for failover. The data center network should connect to these firewalls with links that total 100 Gbps.
- The external link is a dark fiber direct link based on single-mode fiber (OS2). The distance to the main hospital 1.5 KM. The links will terminate on two core switches in the hospital.

The customer also requires:

- 99.999% uptime for this life-critical environment.
- Planned and unplanned downtime has to be minimized.
- Software upgrades are only allowed once per year with close to zero downtime.
- All life-critical resources are accessed locally, and all resources exist within the hospital campus.

- Waratah Hospital requires a highly secure environment for the data center. Encrypted wire speed connectivity between the data room and the hospital is a must-have because the link between the buildings crosses a public road.
- Waratah Hospital has a mix of virtualized (vSphere) servers. Nutanix storage, bare metal servers, backup servers and other devices.

In the past, the hospital has had a security breach that resulted in data loss, network downtime, and identity theft.

Refer to the scenario. Given the requirement for integration with ServiceNow, which CX feature provides automatic ticket creation in ServiceNow based on network events?

- A. NAE
- B. SOAP
- C. probe
- D. REST API

Answer: A

Explanation:

Network Analytics Engine can react to network events and support automated workflows such as ServiceNow ticket creation.

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What are valid assumptions that can be made for this scenario when creating the network design documentation? (Choose two.)

- A. Sufficient virtualization resources for the deployment of software will be available.
- B. The customer's staff can implement the project.
- C. The customer's budget for the project will be met.
- D. Sufficient cabling between data centers will be available.
- E. Hardware delivery will meet project timelines.

Answer: AD

Explanation:

It is valid to document assumptions that sufficient virtualization resources will exist for required software and that sufficient inter-site cabling will be available for the design.

QUESTION 5

You delivered an L3 spine and leaf topology to a customer several years ago. The solution consisted of two CX 8325-32C switches at the spine and 20 CX 8325-48Y8C leaf switches. The leaf switches operate as 10 VSX pairs. The customer would now like to double the forwarding capacity of the topology. What should you recommend?

- A. Add two more 100GbE links between each leaf switch and spine switch
- B. Upgrading the existing links to 200 GbE
- C. Adding one more spine switch that connects to each leaf switch with two 100 GbE links
- D. Adding two more spine switches that connect to each leaf switches with 100 GbE links

Answer: D

Explanation:

The current design has 2 spine switches, with each leaf connecting to each spine. Adding 2 more spines doubles the number of ECMP spine paths and therefore doubles the leaf-to-spine forwarding capacity, while staying within CX 8325-32C port limits.

QUESTION 6

What is the best practice for using VSX at the Core of a two-tier design?

- A. You should implement VSX at the core when the access layer operates at layer 2 only.
- B. You should never implement VSX at the core of a two-tier design.
- C. You should implement VSX at the core when the access switches implement EVPN VXLAN.
- D. You should implement VSX at the core when the access is layer 3 only with OSPF routed traffic forwarding between core and access.

Answer: A

Explanation:

In a two-tier L2 access design, VSX at the core provides redundant active-active connectivity and default gateway resiliency for access switches. For L3-only or EVPN-VXLAN access designs, routed spine/core behavior is preferred instead.

QUESTION 7

You are planning a CX-based data center network that applies east-west firewall policies, managed by AMD Pensando Policy and Services Manager (PSM). Which network should be used to communicate with PSM?

- A. In the cloud with access to one VRF in which all managed switches have an interface
- B. In the network underlay
- C. In the cloud with access to any overlay VRF to which policies will be applied
- D. In the OOBM network

Answer: D

Explanation:

PSM is a management/control system for CX 10000 distributed services, so switch-to-PSM communication should use the out-of-band management network, separate from the data underlay and overlay traffic.

QUESTION 8

You have designed an L3 spine and leaf topology for a customer's data center which is highly virtualized with VMware vSphere. This customer already uses HPE Aruba Networking mobility and switching solutions in the campus. You are recommending CX 8325 and CX 9300 switches and Fabric Composer. The customer asks you to justify the cost of the Fabric Composer licenses. What should you explain?

- A. This solution enables the customer to monitor the data center and campus solutions from the same cloud console, eliminating travel costs.
- B. This solution's deep integration with vSphere saves IT time and eliminates costly errors with features like automatic VLAN provisioning.
- C. This solution's integration with ITSMs such as ServiceNow helps customers troubleshoot more quickly.
- D. This solution uses agentic AI to run the network automatically, reducing IT operational costs.

Answer: B

Explanation:

Fabric Composer provides VMware vSphere integration and automation for data center fabric operations, including simplifying/automating VLAN and network provisioning.

QUESTION 9

You are presenting the proposed solution to the customer. The customer required micro-segmentation to be implemented so you designed the network to use the Aruba CX 10000 DSS. The customer has questions about the implementation of PVLAN. What is a true statement about PVLAN that will help the customer understand the fundamentals of micro-segmentation?

- A. The Primary VLAN in a PVLAN configuration does not support having endpoints connected because the local proxy ARP configuration on the SVI excludes the Primary VLAN and only functions for the secondary VLANs/
- B. The Community VLAN in a PVLAN configuration is generally not recommended for endpoints

- because they can communicate freely with all endpoints on the secondary VLANs.
- C. The Isolated VLAN in a PVLAN configuration is generally not recommended for endpoints because they can communicate freely with all endpoints on the secondary VLANs.
 - D. The Primary VLAN in a PVLAN configuration is generally not recommended for endpoints because they can communicate freely with all endpoints on the secondary VLANs.

Answer: D

Explanation:

In PVLAN design, regular endpoints should be placed in secondary VLANs, such as isolated or community VLANs. The primary VLAN is typically for promiscuous/default-gateway connectivity and can bypass the intended endpoint isolation.

QUESTION 10

You are designing an L3 spine and leaf topology that uses CX switches. Those switches implement EVPN VXLAN with a distributed gateway model. You are helping implementers to assemble a list of required loopback interface IDs and IP blocks. What information do you need from the customer to complete this list?

- A. For each overlay VRF whether the customer requires L2 multicast forwarding
- B. Whether the customer prefers a single-AS or dual-AS design for the VXLAN control plane
- C. For each overlay VRF, whether it will have DHCP servers to which relay is required
- D. Whether the customer prefers OSPF or BGP as a routing protocol

Answer: C

Explanation:

The choice of single-AS versus dual-AS affects the BGP control-plane configuration and AS numbering, not principally the required loopback inventory. Distributed-gateway designs can require dedicated per-VRF loopback addressing for services such as DHCP relay and unique source addressing. HPE also recommends planning an IP block for the loopbacks assigned to each overlay VRF.

QUESTION 11

You are modernizing a customer's legacy three-tier architecture with an L3 spine and leaf topology. The CX switches in the topology will provide the overlay. The customer data center uses six VRFs. The customer has asked for service leaf switches to connect to two clustered firewalls, which route and filter traffic between the VRFs. How should the service leaf switches connect to the firewalls?

- A. On four ROPs (two per switch), each ROP being attached to the six data center VRFs
- B. On two VSX LAGs, which are in the default VRF
- C. On two VSX LAGs, each of which carries one VLAN per VRF
- D. On four ROPs (two per switch), each ROP being in the default VRF

Answer: C

Explanation:

Create one multi-chassis LAG to each firewall. Each LAG operates as a Layer 2 trunk carrying a separate transit VLAN for every VRF. HPE's validated border-leaf configuration uses two MC-LAGs—one to each firewall—with the external VRF VLANs permitted on both.

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