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Architecting HP FlexNetwork Solutions

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QUESTION 1

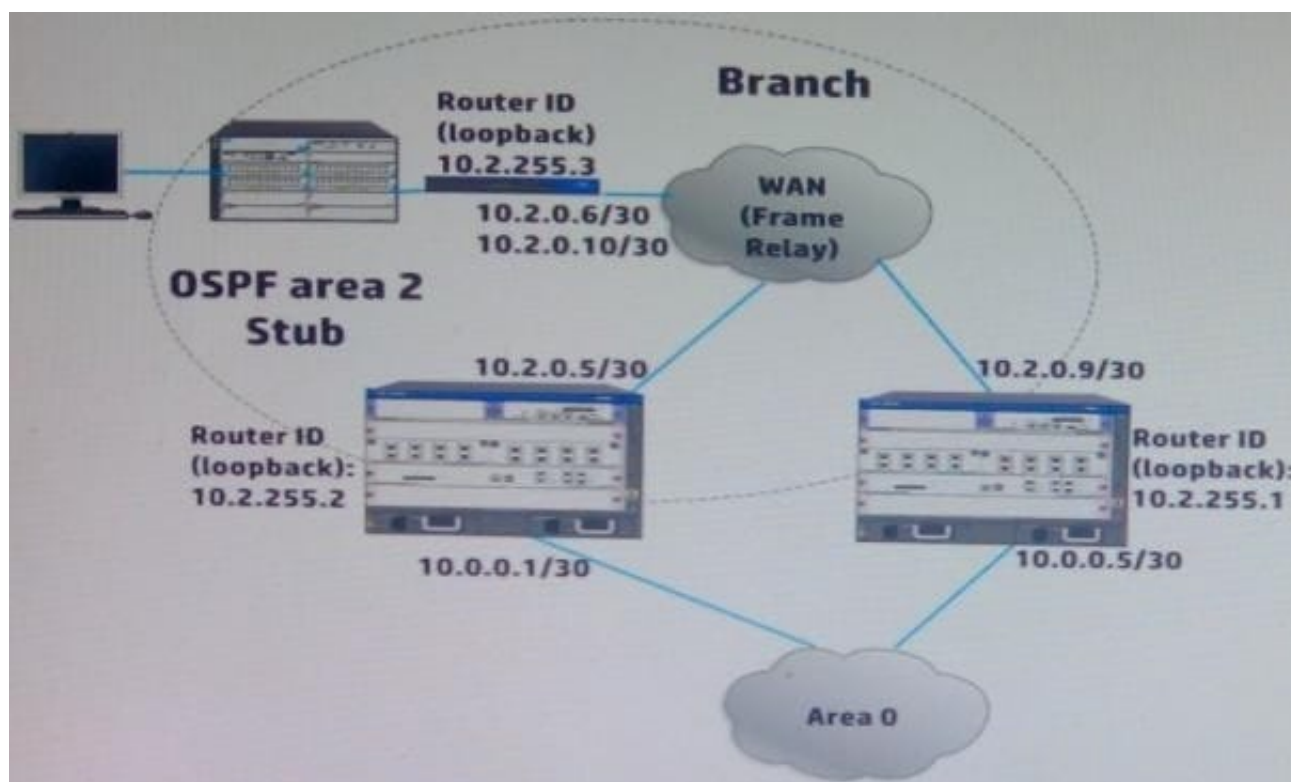
Which data center characteristics should specifically make the architect consider switches that support Shortest Path Bridging (SPB) or Transparent Interconnection of Lots of Links (TRILL)?

- A. The customer requires redundancy and resiliency for the two data center routing switches
- B. The customer requires high-speed routing between front-end servers and database servers in different subnets
- C. The virtualized data center supports several thousand virtual machines (VMs) with a two-tier networking infrastructure topology
- D. The data center requires many redundant links and must scale the tens of thousands of virtual (VMs)

Correct Answer: A

QUESTION 2

Refer to the exhibit.



The branch routers have E1 lines into the Frame Relay Service provider network. The exhibit shows just one branch, but the network actually has 30 branches. The HP 6600 Series routers, which are the area border routers (ABRs), have E2

lines into the Frame Relay network.

The routers in the exhibit Open Shortest Path First (OSPF). The enable OSPF on network follows:



In area 2, OSPF is enabled on network 10.2.0.0/16 In area 0, OSPF is enabled on network 10.0.0.0/16

The customer requires resilience at the WAN core. Which design change best supports that requirement?

- A. Add additional links from the HP 6600 Series routers to the WAN
- B. On each branch router, add a floating static route to one of the ABRs in case the OSPF solution fails
- C. Add a Gigabit link between the HP 6600 Series router with a network in area 0 and area 2.
- D. At each branch, add a redundant link between the switch and the router

Correct Answer: B

QUESTION 3

A company experienced a denial of service attack when an infected employee device connected to the network. Which secret devices and prevents them from accessing the network?

- A. Authentication solution
- B. Data security solution
- C. Network Based Anomaly Detection (NBAD)
- D. Endpoint integrity solution

Correct Answer: D

QUESTION 4

Organizations can deploy off-the-shelf, virtualized applications on some HP infrastructure devices Which devices support this capability? (Select two)

- A. HP MSR3000 Routers
- B. HP HSR6800 Routers
- C. HP 7500 Switches
- D. Hp 11900 Switches
- E. HP 5400 z\ Switches

Correct Answer: AE

QUESTION 5

What correctly describes one trend that is changing how network architects must design the data center network infrastructure?



- A. Applications are drawing on more and more locally stored data, which causes customers to favor blade servers and blade enclosures
- B. Applications are considering on single, highly available mainframes, driving the need for 10G connections to the server edge
- C. Applications are increasingly virtualized, which requires architects to implement routing at the access layer to segment each rack into its own VLAN
- D. Applications are scaling out across multiple servers, increasing communications between servers distributed across the data center

Correct Answer: D

QUESTION 6

A network is planning the products that interconnect a main site campus LAN, branches, and data center (located at a different site from campus). Which customer requirement would causes the network architect to choose HP enterprise-class modular routers as opposed as deep-buffer switches for this solution?

- A. The need for WAN connections that use T3/E3/J3
- B. The need or a fully redundant solution with two devices working as a team
- C. The need for thousand of routes in the routing table
- D. The need for high-speed routing

Correct Answer: A

QUESTION 7

A network architect has created a quality of service (QoS) for an HP 5900 Series switch that uses four traffic classes. Class of Service (CoS) 5 for voice traffic. CoS 4 for Video traffic. And CoS 0 for everything else. The switch ports implement strict priority (SP) queuing.

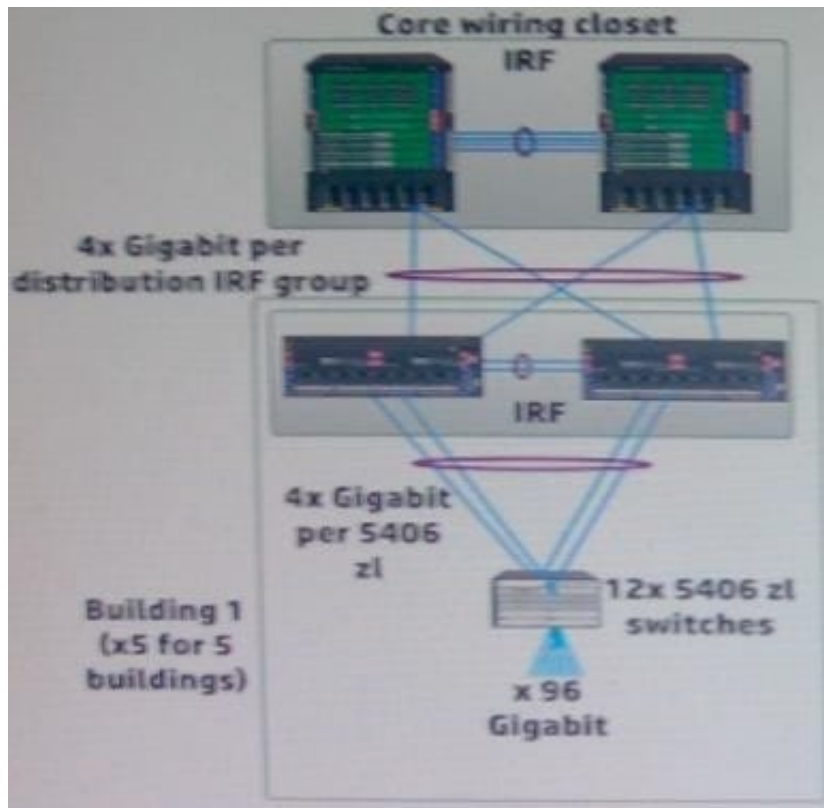
What would be an advantage of enabling weighted fair queuing (WFQ) instead of SP?

- A. When congestion occurs, the port will randomly drop traffic in the CoS 3 and CoS 0 queues, preventing TCP synchronization that increase congestion
- B. The architect can ensure that voice traffic is always forwarded before bandwidth intensive video traffic
- C. The architect can guarantee specific bandwidth to each class but prevent video and SAP applications from starving out other applications entirely
- D. When congestion occurs, the port will buffer traffic in lower priority queues rather than drop it immediately as it does with SP queuing

Correct Answer: C

**QUESTION 8**

Refer to the exhibit.



A network architect has designed the topology shown in the exhibit. The Gigabit links between distribution layer and the core uses OM3 grade multi-mode fiber between 100m and 150m long.

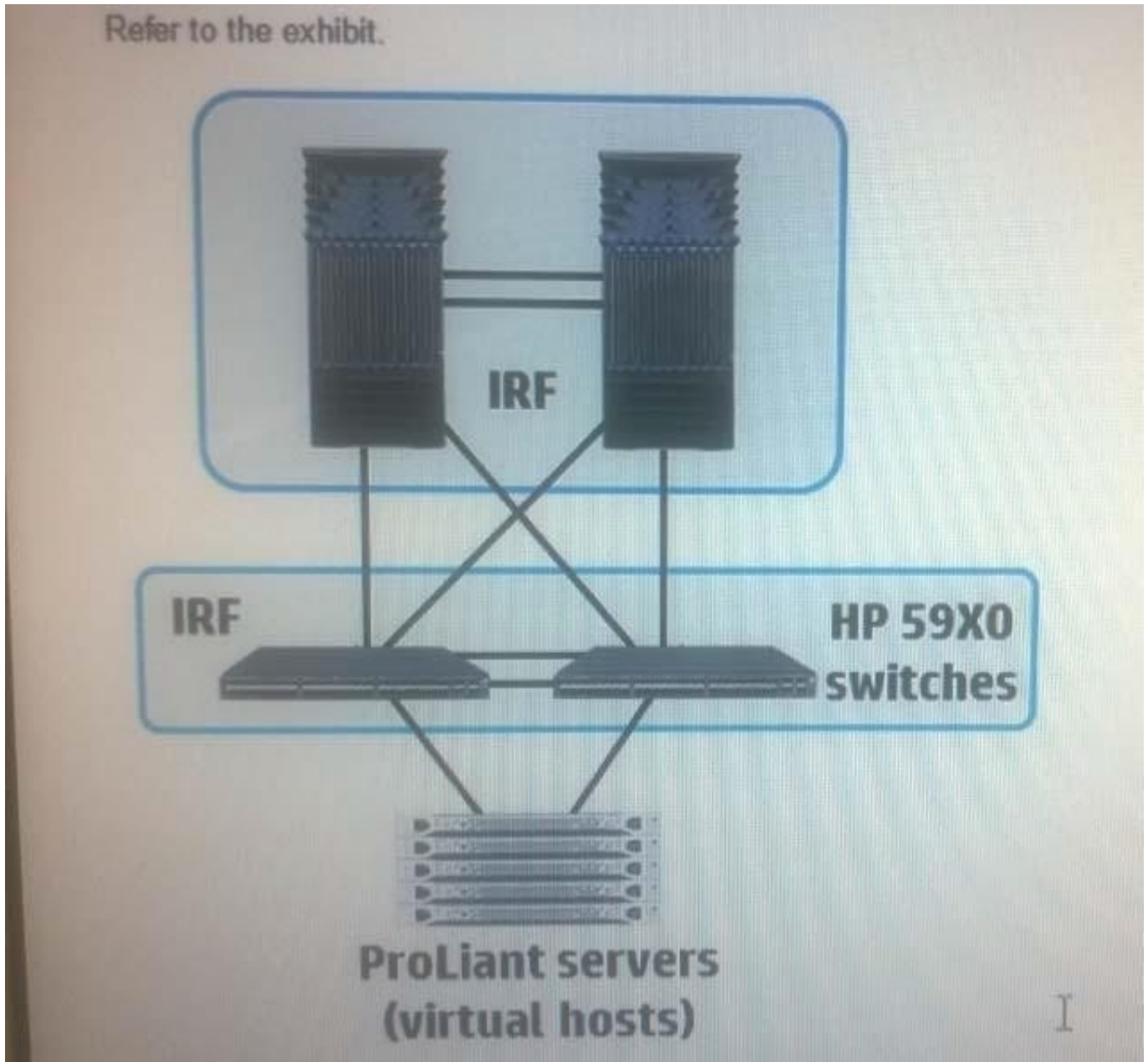
The solution is for an enterprise customer whose employees use mostly HTTP-based applications and have medium utilization needs.

What should the network architect do to resolve a potential issue?

- A. Add more bandwidth between each pair of distribution layer switches
- B. Add more links between each modular switch at the access layer and its distribution layer switch
- C. Replace the modular switches at the access layer with switches that support stacked meshing
- D. Remove the distribution layer since it is not needed in this environment

Correct Answer: C

QUESTION 9



When does this design benefit a virtualized data center?

- A. The access layer and core switches use several layers of redundancy protocols, including Multiple Spanning Tree Protocol (MSTP) at Layer 2, Virtual Router Redundancy Protocol (VRRP) at Layer 3, and Intelligent Resilient Framework (IRF) at Layer 4.
- B. The access layer and core switches can connect on link aggregation groups. VLANs can extend across these aggregations, but they are more stable and highly-available than redundant Layer 2 links that use spanning tree.
- C. The access layer switches can integrate their Intelligent Resilient Framework (IRF) capabilities with those on the core switches to create a single CLOS fabric.
- D. The core switches can implement Virtual Ethernet Port Aggregator (VEPA) to extend tunnels for virtualized traffic across the data center backbone.

Correct Answer: B



QUESTION 10

What is the preferred time for completing racking and labeling of equipment for a new implementation?

- A. After the scheduled outage has begun and initial tests have indicated success
- B. Before the scheduled outage
- C. At any time between the beginning of the scheduled outage and the point of no return
- D. At the beginning of the scheduled outage

Correct Answer: B

QUESTION 11

HOTSPOT

A network is choosing transceivers for switch-to-switch fiber links. Which factor affects the architect's choice?

Hot Area:

The need for redundancy	<div><div></div><div>affects</div><div>does not affect</div></div>
The type of fiber between switches	<div><div></div><div>affects</div><div>does not affect</div></div>
The number of available strands	<div><div></div><div>affects</div><div>does not affect</div></div>
The desired speed for the link	<div><div></div><div>affects</div><div>does not affect</div></div>

Correct Answer:



The need for redundancy

	▼
affects	
does not affect	

The type of fiber between switches

	▼
affects	
does not affect	

The number of available strands

	▼
affects	
does not affect	

The desired speed for the link

	▼
affects	
does not affect	

QUESTION 12

A customer plans to connect 40 Voice over IP (VoIP) phones and 8 security cameras to a switch:

The VoIP phones are Class 2 PoE devices and require a maximum of 45W (draw a maximum of 5w)

The security cameras are Class 4 PoE+ devices and require a maximum of 17W (draw a maximum of 20 W)

The network architect is proposing an HP 5500-48G-PoE switch, which supports PoE and PoE+ and has a PoE power budget of 370W

The customer and architect agree on the class form of power allocation

What else does the solution require?

- A. A management module that is PoE+ capable
- B. A redundant power supply for the switch that enhances the PoE/PoE+ budget
- C. A power converter that enables the switch to provide PoE and PoE+ power at the same time
- D. A 208-220V input power service

Correct Answer: A

**QUESTION 13**

Which two requirements of a modern data center make Spanning Tree Protocol (STP) and other traditional loop elimination protocols for that environment?

- A. Requirement to implement routing clustering virtual machines
- B. Need to consolidate traffic on a single path thorough the network
- C. Greater reliance on direct attached storage
- D. Need for faster convergence times
- E. Need to support delay-sensitive applications

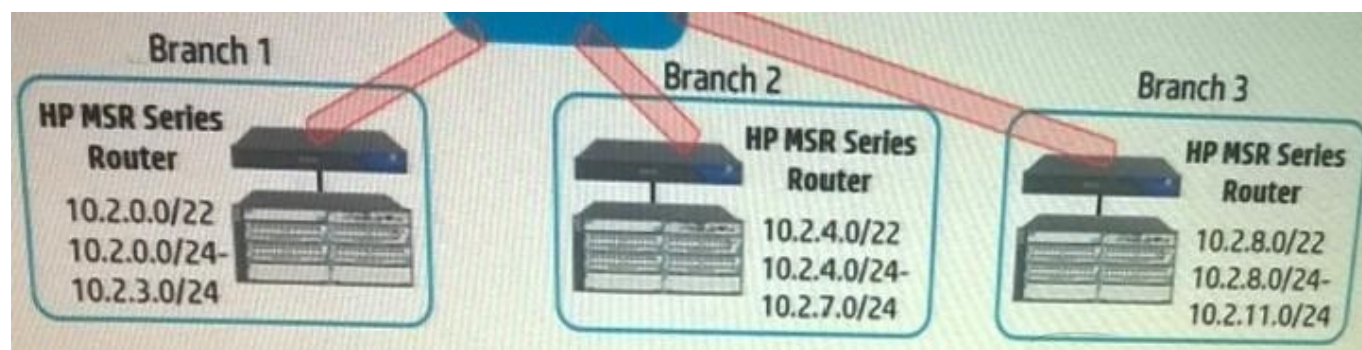
Correct Answer: BE

QUESTION 14

A customer has a policy of using open standard protocols to maintain the flexibility to use multiple vendors. Which protocols are open standard (three.)

- A. PVST+
- B. MSTP
- C. CDP
- D. OSPF
- E. IGRP
- F. LLDP

Correct Answer: BDF

QUESTION 15

A company has several branch offices, each of which has four VLANs: one for employees, one for guests, one for network infrastructure local services. At each office, a VLAN has a maximum of 200 endpoints. Each branch office represents one Open Shortest path First (OSP) architect has created the plan shown in the exhibit for IP addressing.



What is a potential disadvantage of this design?

- A. The subnets are large enough to accommodate fewer endpoints. But not large enough to accommodate 200 endpoints
- B. It makes it more complicated for the company to add subnets to branches in the future.
- C. The scheme uses private network addressing space, which is not permitted for use with OSPF.
- D. The address blocks do not provide enough IP addresses for the devices currently at each branch.

Correct Answer: B

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