HP0-Y50^{Q&As}

Architecting HP FlexNetwork Solutions

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QUESTION 1

The exhibit shows the topology for a network with 30 access layer switches (only two are shown).Every switch-to-switch link is a Gigabit link. Every area network (VLAN) interface runs. Open Shortest Path First (OSPF) and has the IP address shown in the exhibit. The other interface settings are defaults.
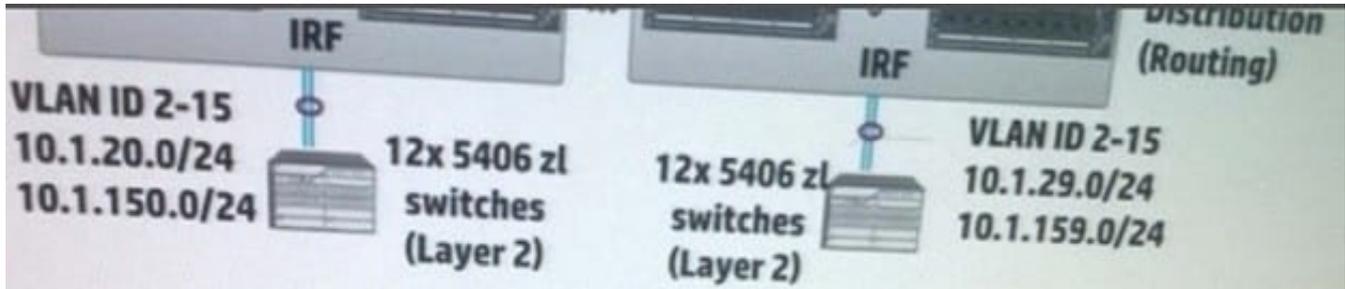
The access layer switches support several more VLANs not shown in the exhibit and also run Multiple Spanning Tree protocol (MSTP) loops. What is one recommendation for enhancing convergence time and resiliency for this solution?

A. Place all of the switch-to-switch links in the same VLAN.

B. Lower the cost of the VLAN interfaces to reflect the high speed of the links.

C. Add a BPDU filter to the VLAN interfaces shown in the exhibit.

D. Raise the OSPF times on the VLAN interfaces.

Correct Answer: D

QUESTION 2

Customer has a virtualized data center Microsoft Hyper-V Windows Server 2012. The customer has provided this information about the Ms:

Each host has a network (Hyper-V virtual switch) that supports VM productions traffic and owns two server 10G NICs.

Each host has a network (Hyper-V virtual switch) that supports management traffic to the parent partition and owns two server Gigabit NICs. Each rack, the network architect plans to deploy two HP 5920 Series switches, acting as an

Intelligent Resilient Framework (IRF) switch.

Which additional information does the architect need in order to plan the connections to each host?

A. Whether the virtual switches use sFlow or Net Stream to load balance traffic over the NICs

B. Whether the virtual switches use Virtual Ethernet Port Aggregator (VEPA) VLAN tagging

C. Whether the virtual switches use generic or dynamic NIC teaming (Link Aggregation Control [(LACP)] and their hashing method

D. Whether the virtual switches support standard Spanning Tree Protocol (STP) or Cisco Per-VLAN Spanning Tree Protocol Plus (PVST+)

Correct Answer: C

QUESTION 3

Refer to the exhibit.
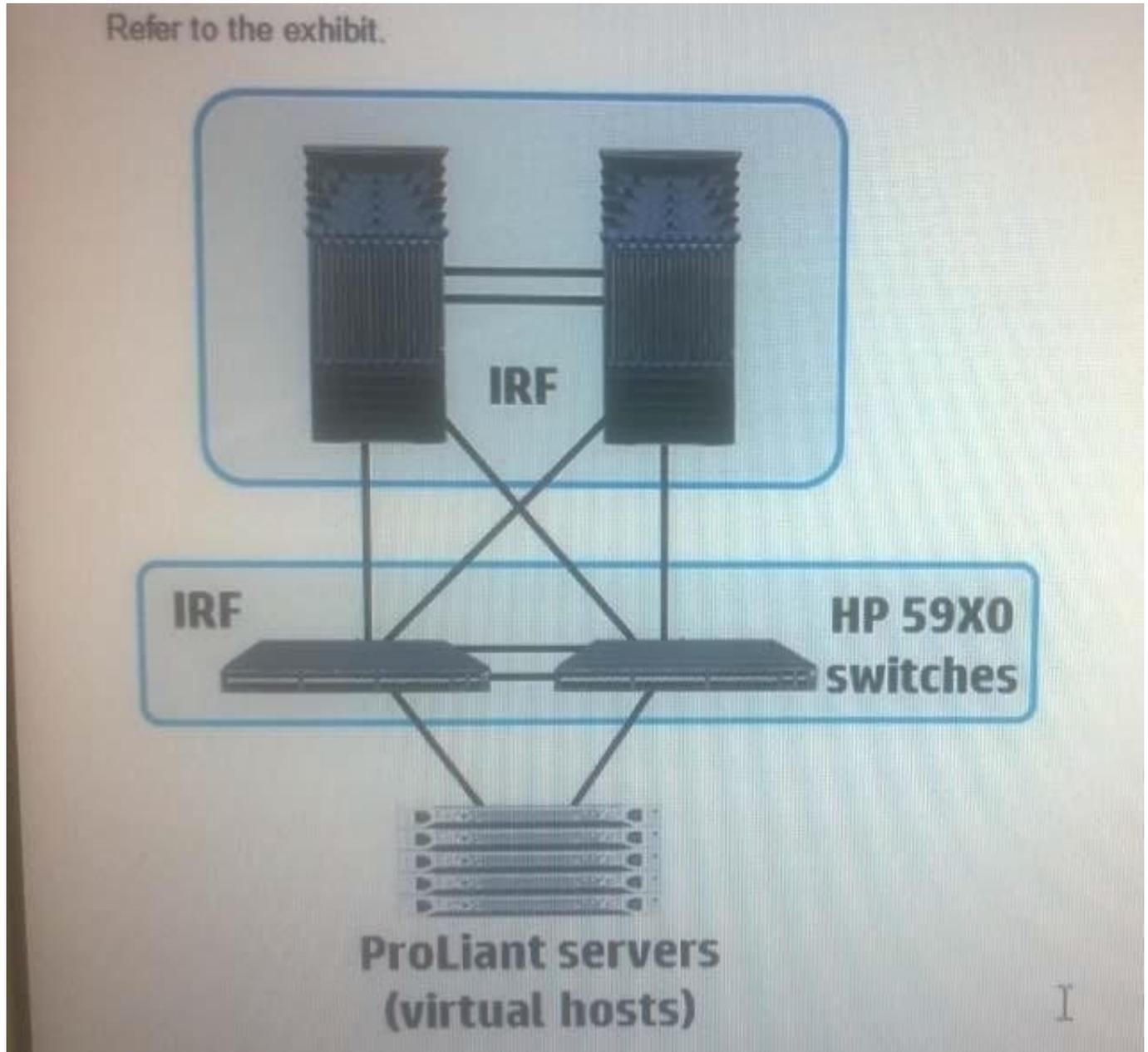
When does this design benefit a virtualized data center?

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 Procotol (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
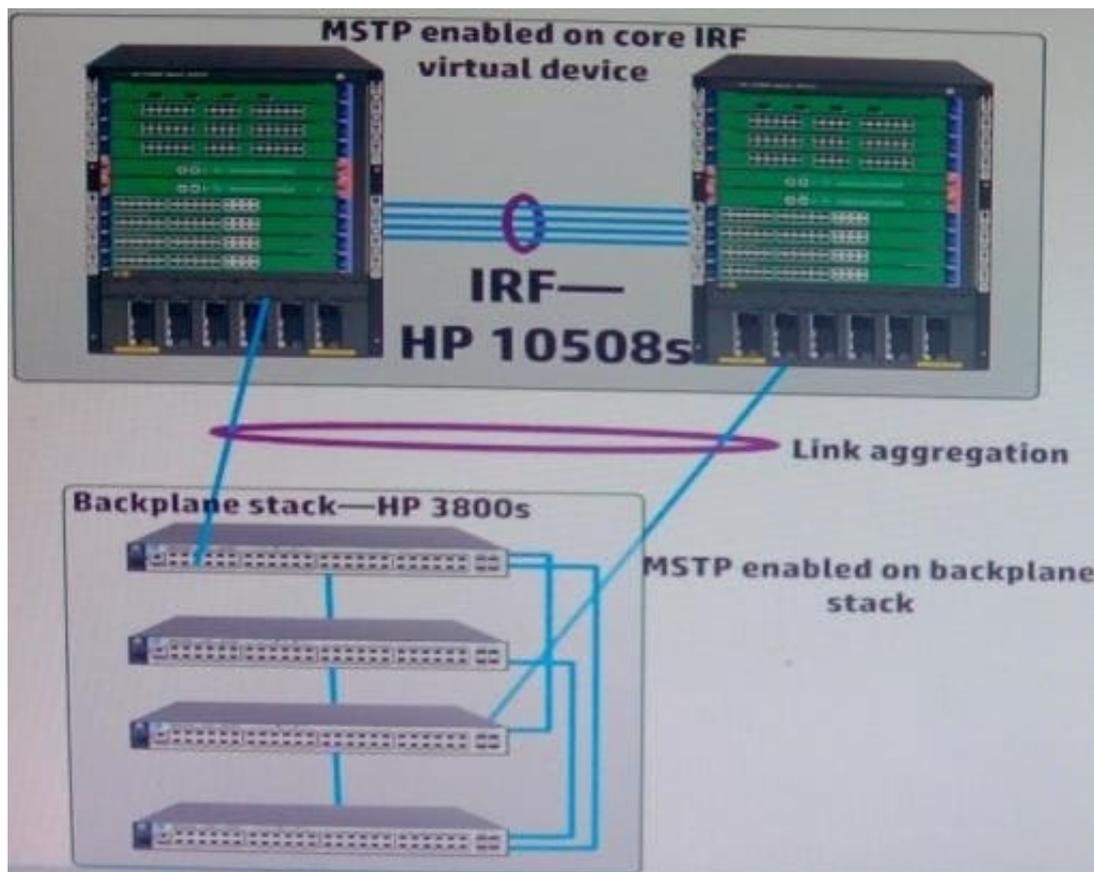
switches to create a single CLOS fabric.

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 4

Refer to the exhibit.

A network architect is proposing this solution to a customer. The customer network manager has a preference for Cisco VLAN Spanning Tree Plus (PVST+) because this protocol provides for fast convergence when a link fails and also provides per-VLAN load- sharing over links.

How would the network architect explain why the solution fits these requirements?

A. The MSTP component of the solution fulfills the same needs as PVST+ MSTP simply balances traffic per instance rather than per-VLAN

B. The redundant links between the switches are protected by MSTP and the built-in loop guard on HP-3800 switches. MSTP provides load-sharing and loop guard provides resiliency

C. The solution as shown provides the same load-sharing benefits as PVST+. To achieve the same resiliency benefits, the architect can add smart link to the meshed stack

D. The link aggregation between tiers provide even better resiliency and load-sharing than PVST+ while MSTP protects against accidental loops

Correct Answer: D

QUESTION 5

Which task does the HP Software-Defined Networking (SDN) Developer Support Description service help a customer perform?

A. Replace existing virtual switches with HP-supported software-based switches.

B. Create, test, and troubleshoot SDN applications

C. Determine whether the company\\'s network infrastructure is ready for SDN.

D. Develop a migration plan to an SDN environment.

Correct Answer: A

QUESTION 6

Network architect is recommending that a customer move from a three-tier campus LAN topology to a two-tier topology that routes traffic distribution layer provides firewall services and STP root guard. As a best practice, where should firewall servicesand STP root guard beimportant topology?

A. These security features should be implemented at both the network access layer and the core.

B. These security features should be implemented at the core.

C. These security features should be implemented at the network access layer.

D. Firewall services features should be implemented at the core, and STP root guard be implemented at the access layer

Correct Answer: C

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 an 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

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 9

What is a common management problem in modern networks?

A. Many vendors do not provide management tools for their devices, preventing configuration automation

B. Management tools do not provide proper encryption and authentication options.

C. Many technologies and solutions require their own management interfaces, resulting in too much complexity.

D. Administrators spend so much time planning for the future that they cannot react to current problems.

Correct Answer: D

QUESTION 10

HOTSPOT

An architect needs to plan a solution that meets customer authentication requirements. Match each authentication method to the appropriate description.

Hot Area:

Allows companies to authenticate legacy devices that do not support a supplicant

> MAC Auth
> 802.1X
> Web-Auth

Require users to authenticate to the network by using a browser

> MAC Auth
> 802.1X
> Web-Auth

Requires users to authenticate to the network by using a supplicant

> MAC Auth
> 802.1X
> Web-Auth

Correct Answer:

Allows companies to authenticate legacy devices that do not support a supplicant

> **MAC Auth**
> 802.1X
> Web-Auth

Require users to authenticate to the network by using a browser

> MAC Auth
> 802.1X
> **Web-Auth**

Requires users to authenticate to the network by using a supplicant

> MAC Auth
> **802.1X**
> Web-Auth

QUESTION 11

If a network architect is planning a secure device management policy, why would administrators need to generate SSH keys on network infrastructure devices?

A. To authenticate managers with a more secure method than passwords

B. To encrypt management traffic and also authenticate managers with asymmetric

C. To authenticate managers and assign them privileges according to their identity

D. To encrypt management traffic related to the CLI

Correct Answer: D

QUESTION 12

A data center has a traditional three-tier network design with routing at the distribution layer. The customer is virtualizing its servers and adding technologies such as live migration of virtual machines (VMs). How well does the architecture (topology) meet the needs of the customer\\'s changing environment?

A. This topology is not ideal in supporting the low-latency Layer 2 communications that this environment requires

B. This topology is ideal because it enforces consolidation of virtualized server domains

C. This topology is not ideal because it enforces consolidation of virtualized server domains

D. This topology is not ideal for supporting the Secure Virtualization Framework (SVF) required to protect the virtual servers

Correct Answer: A

QUESTION 13

A network architect has designed a two-tier topology for the campus LAN and is planning to implement routing at the core. Which requirement might cause the network architect to consider implementing routing at the access layer?

A. Employees in different VLANs need to use collaboration applications to share high- resolution graphic files

B. The solution must support an isolated VLAN for wired guest devices

C. Employees need to be placed in dynamic VLANs, assigned by a RADIUS server in identity, so that network managers can manage the solution more easily

D. The customer has an HP Unified Wired-WLAN solution, and wireless users need to roam seamlessly across the site

Correct Answer: A

QUESTION 14

Refer to the exhibit.
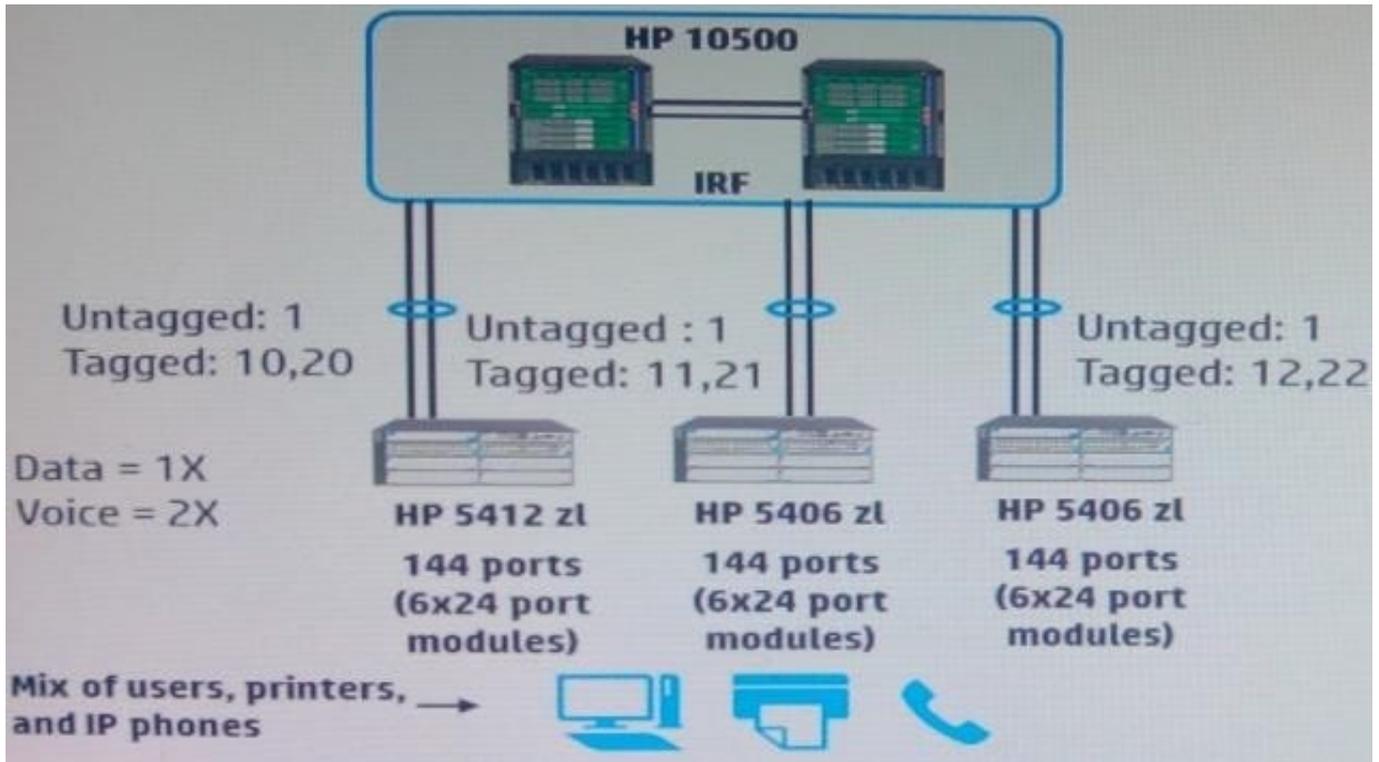
The network architect is planning network addresses for the VLANs shown. The company is using the private 10.0.0.0/8 space. Which guidelines should the network architect follow?

A. Use a/22 subnet for each VLAN to ensure enough IP addresses for each large modular switch

B. Implement the port isolation feature and apply several /30 subnets to each VLAN

C. Use a/25 subnet for each VLAN to conserve the limited IP addressing space

D. Use a /24 subnet for each VLAN for simplicity and scalability

Correct Answer: D

QUESTION 15

An architect is planning an HP Wired-WLAN solution for a customer with Voice over WLAN (VoWLAN) devices, which support 5 GHz and 2.4 GHz, and the laptops. What is a potential advantage of dual-radio 802.1n APs for this environment?

A. They can load balance a single phone\\'s traffic between the two radios

B. The can use 802.1n band steering to shift only the laptops to the 2.4 Ghz radio

C. They can support a single VLAN for phones and laptops, but use load balancing to move all phones to one radio

D. They can support a voice WLAN on one RADIO and an employee WLAN on the other radio

Correct Answer: D