Passit4sure.HP0-Y50.147.Questions

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Architecting HP FlexNetwork Solutions

I made the below modifications after passing HP0-Y50.

- Corrected answers explained by added explanations.
- Updated hotspot questions
- Eliminated duplications

anyone can use this if wants to pass.

Exam A

QUESTION 1
A network architect has collected data on link utilization. When analyzing link utilization, what is the general guideline?

A. You upgrade a link that is often used at more than 50 percent utilization
B. You upgrade a link when it reaches 100 percent utilization
C. You upgrade a link if it sometimes peaks at more than 50 percent utilization
D. You upgrade a link when it reaches 25 to 30 percent utilization

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 2
What are information technology Service Management (ITSM) framework, such as the infrastructure Technology Infrastructure Library (ITILv3) and The Open Group Architecture Framework (TOGAF)?

A. They are Internet Engineering Task Force (IETF) standards that provide evolving guidelines and best practices for IT design and management
B. They are high-level approaches that provide recommendations and best practices for IT design management
C. They are industry-wide standards that provide guidelines for enterprise design and management
D. They are Internet Engineering Task Force (IETF) standards that define proper network design

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: http://en.wikipedia.org/wiki/Information_Technology_Infrastructure_Library

QUESTION 3
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 4
A network architect is planning an update of the server access layer in a data center. Currently, the access layer switches have 10G links to distribution layer switches. In the new solution, HP 5930 Switches act as top of rack (ToR) switches with 40G links to core switches.

Which factor must the network architect consider when designing solution?

A. Whether the data center cabling provides enough fiber strands to the racks to support the 40G links
B. Whether the new switches 40G transceivers are on the chassis front or back, the transceivers must be on the same side as servers air outtakes
C. Whether the servers connecting to the new switches use Ethernet Virtual Bridging (EVB)/Virtual Ethernet Port Aggregate (VEPA), which is not compatible with 40G
D. Whether the servers connecting to the new switches have NICs that support Converged Enhanced Ethernet (CEE)
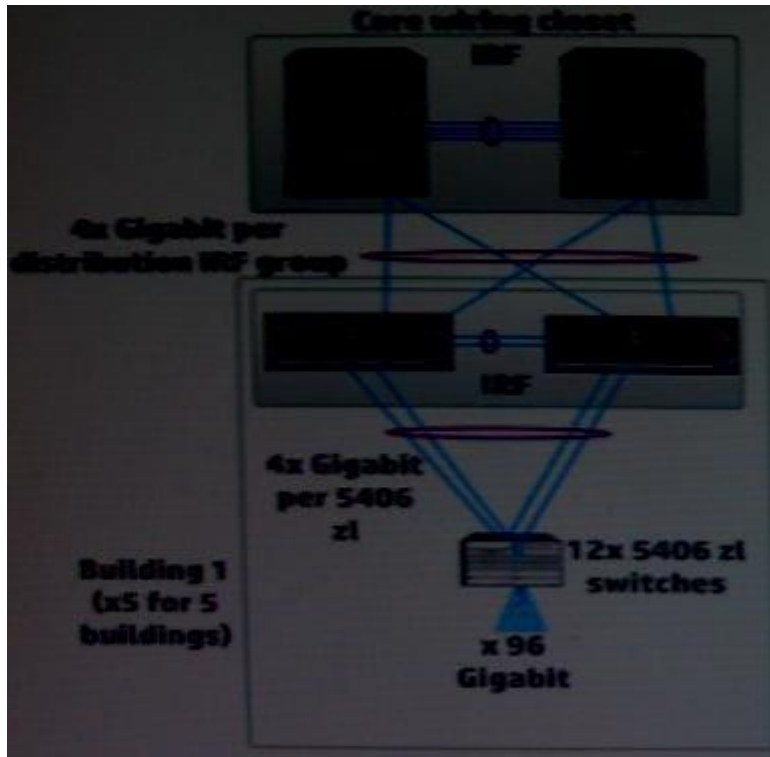
Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 5
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 has 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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 6
A customer requires high availability, so the network architect is planning two area border (ABRs) for each non-backbone area in the Open Shortest Path First (OSPF) solution. What ensures a loop-free routing environment that meets the customer needs?

A. All ABRs have at least one interface in area 0, and that interface has an IP address that is outside of the range of any summaries for area 0
B. Each ABR in an area advertises the same summary routes for the area, and each ABR has a null route that matches those summaries
C. Only one ABR advertise a summary route for each area. For areas with multiple ABRs, each area can include two summaries ranges, and each ABR is configured with one of those ranges
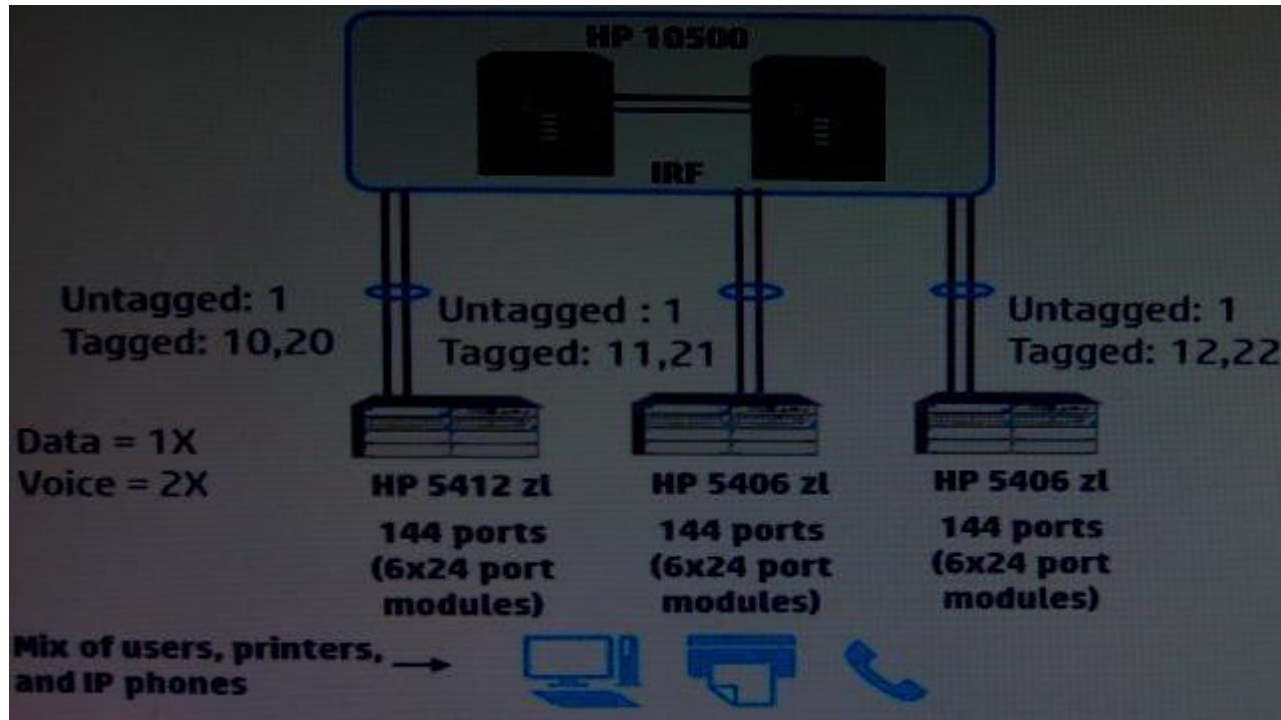D. All ABRs in an area apply consistent path costs for their summary routes

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 7
Refer to the exhibit.

HP 10500

IRF

Untagged: 1
Tagged: 10,20

Untagged : 1
Tagged: 11,21

Untagged: 1
Tagged: 12,22

Data = 1X
Voice = 2X

HP 5412 zl
144 ports
(6x24 port modules)

HP 5406 zl
144 ports
(6x24 port modules)

HP 5406 zl
144 ports
(6x24 port modules)

Mix of users, printers, and IP phones →

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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 8
A company is upgrading a data center network solution in phases. The first phase involves updating the top of rack (ToR) switches in one rack. Other

switches will be updated in their phases.

What is one benefit of this approach?

A. It allows the through testing of the solution in real-world circumstances
B. It ensures that the network can be updated without any scheduled downtime
C. It removes the need to conduct connectivity and failover tests during the implementation
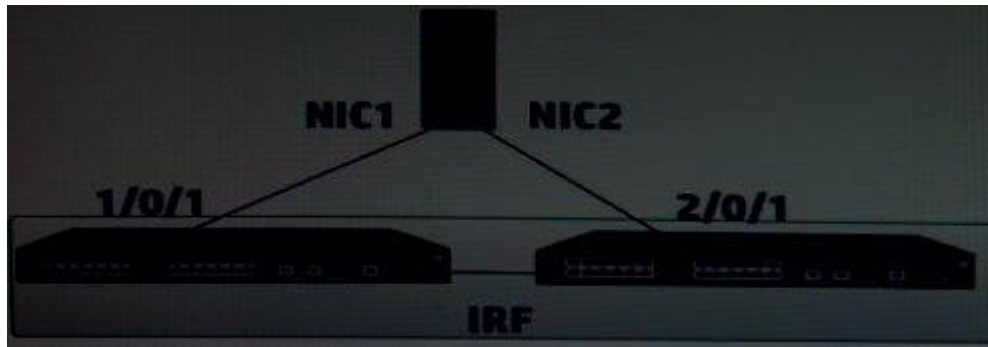D. It removes the need for working with customer change management processes

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 9
Refer to the exhibit.

The exhibit shows how two NICs on a physical server connect to two HP 5820 switches. The server supports eight virtual machines (VMs) with VMware version 5.1. The VMware standard virtual switch is bound to NIC and NIC2. This switch implements source MAC load balancing for the NIC team.

What is the proper configuration for ports 1/0/1 and 2/0/1?

A. Place the ports in a bridge aggregation group that does not use LACP
B. Place the ports in a bridge aggregation group that uses LACP
C. Enable LACP on the individual ports
D. Do not place the ports in a bridge aggregation group
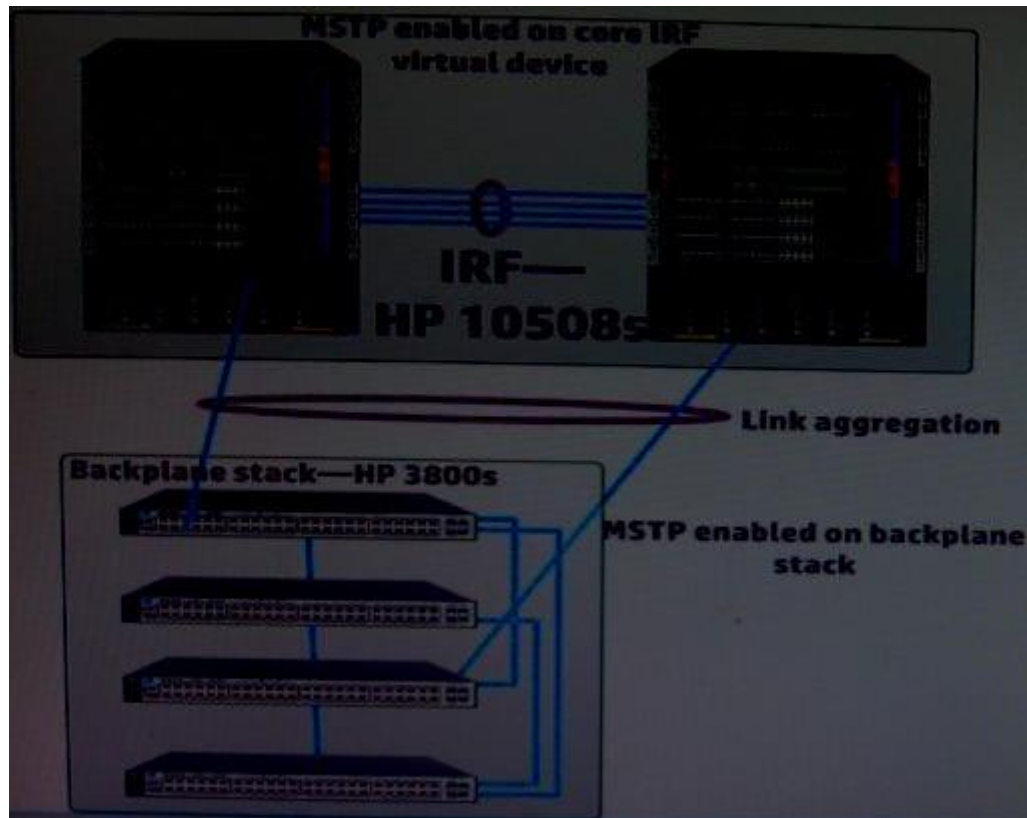
Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 10
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 11
A network architect is explaining the differences between deploying two switches in an HP Intelligent Resiliency Framework (IRF) virtual switch and deploying two switches that implement standard Virtual Routing Redundancy Protocol (VRRP). Which statement correctly describes an advantage of IRF?

A. IRF failover occurs in 3 to 4 seconds, whereas VRPF failover occurs in 10 or more seconds
B. Unlike VRRP, which requires as least two addresses to be listed. Dynamic Host Configuration Protocol (DHCP) scopes list a single IP address for the default gateway
C. The IRF virtual switch runs a separate routing in each member, which enhances the redundancy and reliability of the overall solution
D. Multiple IRF members can actively route traffic for the same subnet and use the same IP address and routing control plane
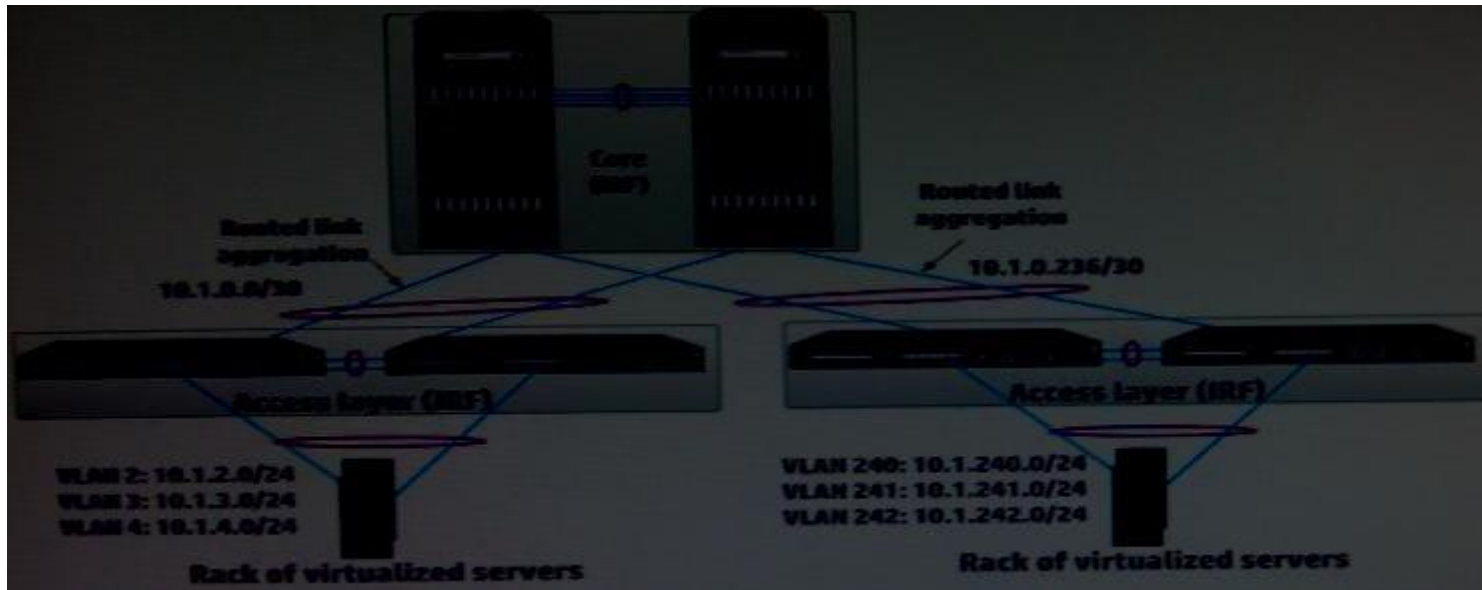
Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 12
Refer to the exhibit.

The exhibit shows a proposed design for a data center network infrastructure. The exhibit shows two racks for simplicity. The data center will actually include more racks.

The customer has these key requirements:
The customer can scale any application and easily install new hardware that supports that application
The network supports vMotion for live migration of virtual machine (VMs)

How should the network architect change the proposed design to meet the customer requirements?

A. Replace the rack servers with blade enclosures
B. Add more links between the servers and the access layer
C. Remove routing from the access layer and extend VLANs to multiple racks
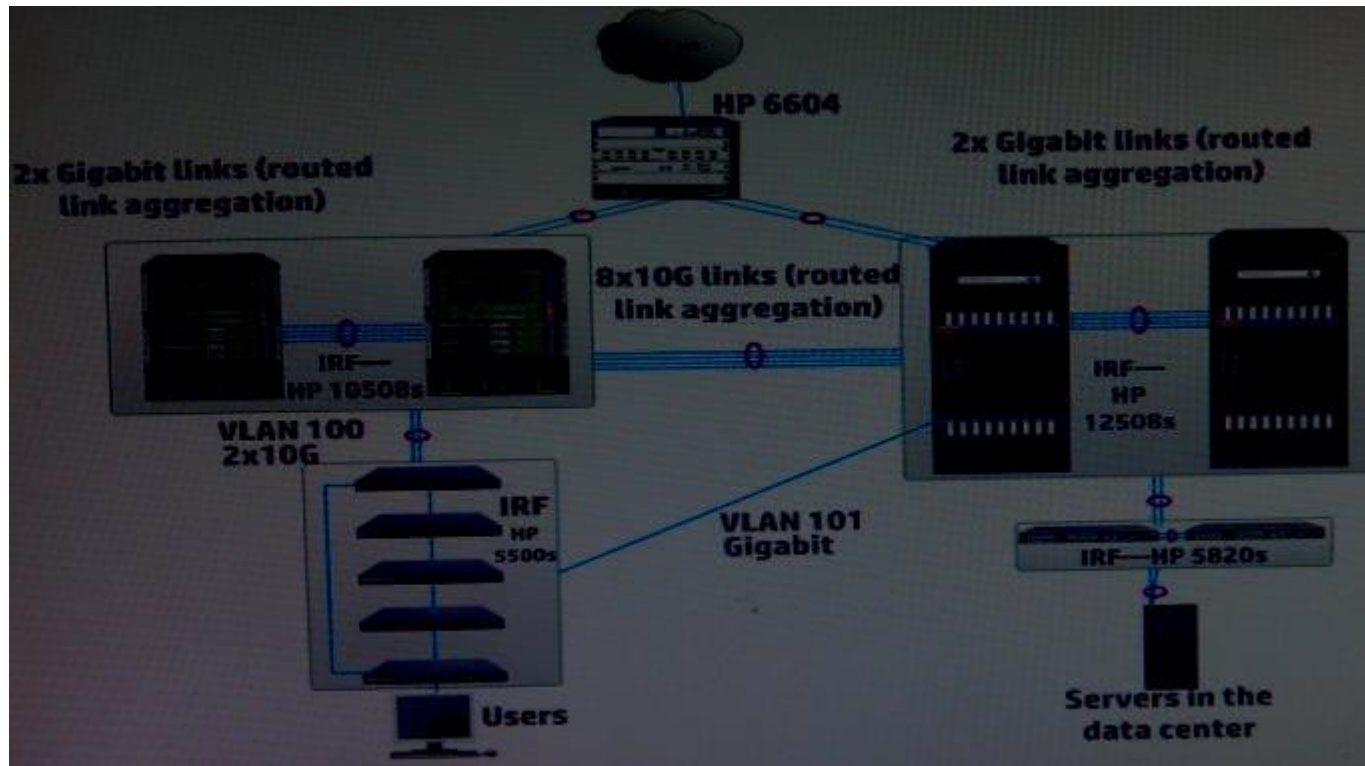D. Add a distribution layer between the access layer and the core

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 13

Refer to the exhibit.

The exhibit shows the topology for an enterprise LAN with an on-site data center. The intelligent Resilient Framework (IRF) group of HP 5500 Series switches supports a group of computers that require very high availability to the data center. Therefore, the customer has requested a backup gigabit fiber link implement Open Shortest Path First (OSPF) in a single area.

Which tasks should the network architect complete to ensure that the HP 5500 IRF group selects the correct path to the data center during normal operation?

A. Change the reference bandwidth on the VLAN 100 interfaces to 20000
B. Set the cost on the VLAN 100 interfaces to 2 Set the cost for the VLAN 101 interfaces to 80
C. Change the reference bandwidth on the VLAN 101 interfaces to 1000
D. Change the VLAN 101 interfaces as silent interfaces
E. Change the reference bandwidth to 80000 on all routing devices

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 14
A customer has Voice IP (VoIP) phones that support Link Layer Discovery Protocol Media Endpoint Discovery (LLDP-MED). The phase need to receive their VLAN ID using this protocol. The network architect is proposing HP 5500-48G-PoE+EI switches. Each user computer connects to the phone, which then connects to the Ethernet jack. LLDP is enabled on the switch. Each Edge port is trunk port that permits VLAN 10 (the user VLAN) and VLAN 20 (the voice VLAN).

Which other setting recommended on the edge port?

A. The voice VLAN is enabled
B. The PVID is set to VLAN 20
C. LLDP Cisco Discovery Protocol (CDP) compliance enabled
D. The LLDP voice VLAN ID is set to 20

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 15
A customer wants a simple solution for deploying virtual services at a branch. Which devices support modules running a VMware ESXi hypervisor? (Select two)

A. HP 2920 Switch Series
B. HP MSR30 Router Series
C. HP 5400 zl Switch Series
D. HP 7500 Switch Series
E. HP VSR1000 Virtual Services Routers

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 16
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 17
A network architect is planning an intelligent Resilient Framework (IRF) group. What should the network architect implement to protect against a split IRF group?

A. Distributed Trunking (DT)
B. Virtual Router Redundancy Protocol (VRRP)
C. Multi-Active Detections (MAD)
D. Rapid Ring Protection Protocol (RRPP)

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference:
http://h20566.www2.hp.com/portal/site/hpsc/template.BINARYPORTLET/public/kb/docDisplay /resource.process/?
javax.portlet.begCacheTok=com.vignette.cachetoken&javax.portlet.endCacheTok=com.vignette.
cachetoken&javax.portlet.rid_ba847bafb2a2d782fcbb0710b053ce01=docDisplayResURL&java
x.portlet.rst_ba847bafb2a2d782fcbb0710b053ce01=wsrp-resourceState%3DdocId %253Demr_na-c03187005-4%257CdocLocale
%253D&javax.portlet.tpst=ba847bafb2a2d782fcbb0710b053ce01_ws_BI&ac.admitted=140916 3882217.876444892.199480143 (page 8)

QUESTION 18
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 19
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 20
A network architect is planning a complete access layer and core upgrade for customer's campus LAN. The campus has four large buildings, each requiring between 1000 and 3000 edge ports. Which factor will play a primary role in determining whether the network architect needs to plan a two-tier or three-tier topology for the campus LAN?

A. The number of fiber links between each building and the building where the core switches reside
B. Whether the customer requires a wireless solution
C. The high number of edge ports that the solution requires
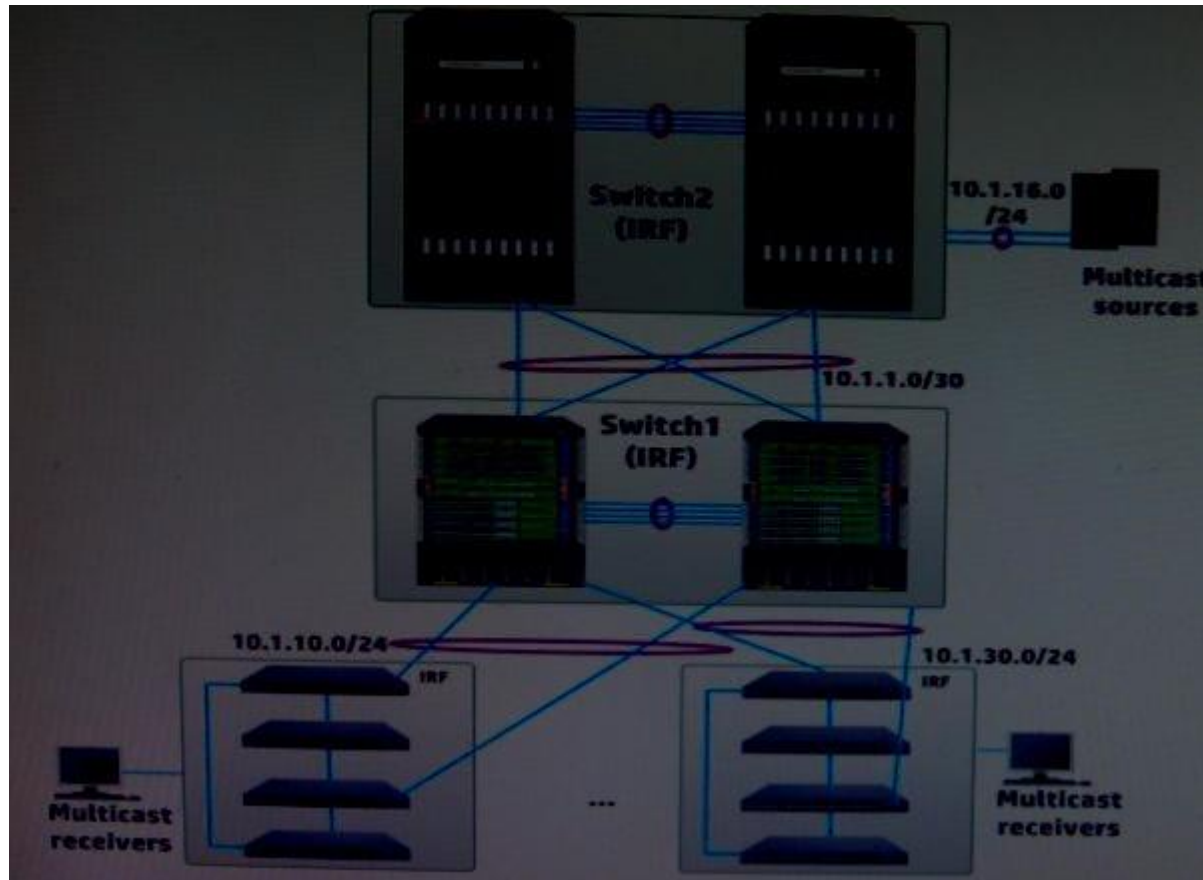D. Whether the customer can afford core switches that support intelligent Resilient Framework (IRF)

Correct Answer: C

Section: (none)
Explanation

Explanation/Reference:

QUESTION 21
Refer to the exhibit.

All connections between switches are 10 Gbps. Switch is an Intelligent Resilient Framework (IRF) group with two member. Switch2 is an IRF group with two members. Switch1 and Switch2 route all traffic.

A network architect is designing a solution for a finance company. One of the primary applications is a multicast application that delivers stock

information to IP video screens across the site. The network architect is seeking a multicast solution that meets these needs:
Simple configuration that the customer's IT staff can manage and troubleshoot No single point of failure for the multicast traffic What is the best solution for this environment and these needs?

A. Protocol Independent Multicast (PIM) Dense Mode (DM).

B. Protocol Independent Multicast (PIM) Sparse Mode (SM) with switch 1 and switch 2 configured as candidate Rendezvous Points (C-RPs), and switch1 and Switch2 also configured as Bootstrap Router (BSRs).

C. Protocol Independent Multicast (PIM) Dense Mode (DM) with Switch1 and Switch2 set as the DM Master Router. Switch1 has a higher MR priority for an address associated with the multicast application.

D. Protocol independent Multicast (PIM) Sparse Mode (SM) with switch1 and Switch2 set as the static Rendezvous Points (RPs). Switch1 has a higher RP priority for an address associated with the multicast application.
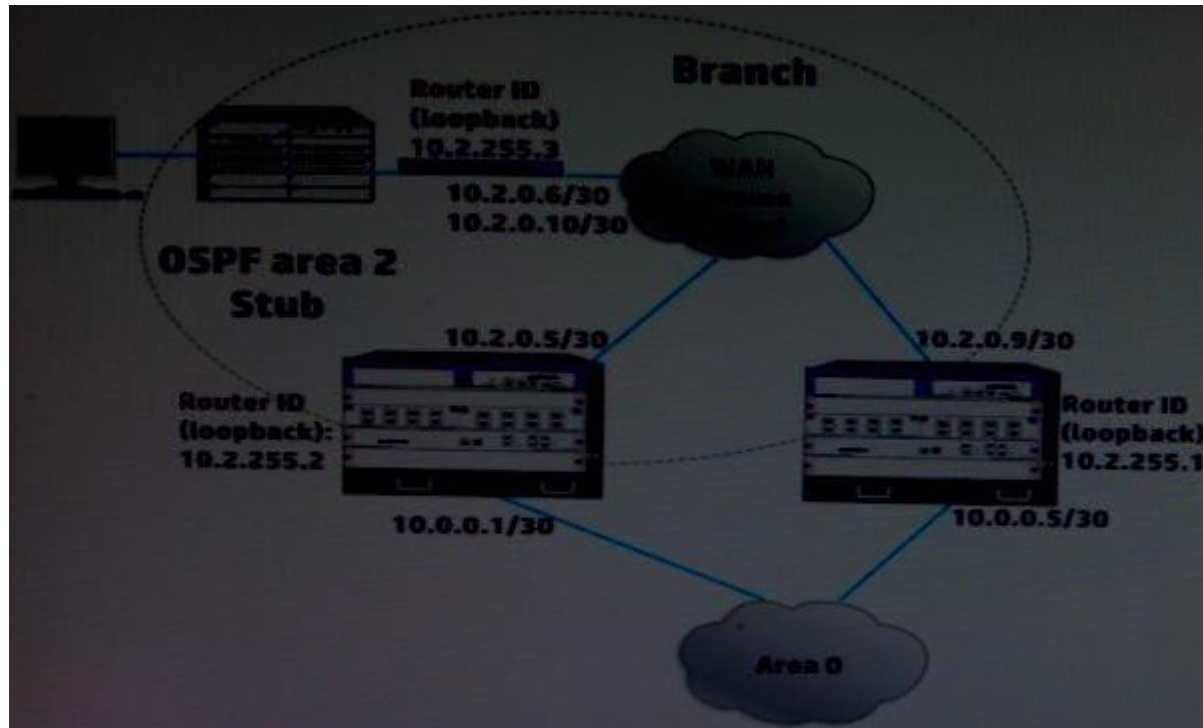
Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 22
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: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 23
A customer is deploying a mobility solution. The IT staff is not experienced in troubleshooting issues with interference and radio frequency (RF) design, and the customer is worried that the wireless connections will not be stable or will not perform well.

Which feature of HP unified Wired-WLAN solutions addresses this customer concern?

A. Hot access controller (AC) backup
B. Wi-Fi Clear Connect integrated intrusion prevention system (IPS)
C. Remote-AP capabilities for branch offices
D. Wi-Fi Clear Connect radio resource management (RRM)

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference: http://www8.hp.com/h20195/v2/GetPDF.aspx/c04148608.pdf (page 1, wi-fi clear connect)

QUESTION 24
A network architect is working with a customer to implement a new network design. The network architect has learned that the company has a legacy application hosted on a number of legacy servers. The legacy application must remain intact and after the new network implementation. As the company plans to continue using it indefinitely. With which stakeholder should the network architect discuss the technical detail of the legacy system and any challenges or specifics about maintaining interoperability?

A. Chief Executive officer (CEO)
B. Network Architect or Planning Engineer
C. Chief Information Officer (CIO) or Voice President (VP)/ Director of IT
D. Chief Financial Officer (CFO) or Voice President (VP)/ Director of Finance

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 25

A customer is seeking an upgrade for their campus LAN network. Currently, the customer has access layer switches that support 18.10/100/1000 Mbps ports and one Gigabit uplink. The customer wants better performance in the upgrade but also wants to minimize costs.

The network architect has used the Network Traffic Analyzer (NTA) for Intelligent Management Center (IMC) to collect information about the access layer uplinks. These are the results:
For switches on Floor1, the peak utilization is 650 Mbps on a Gigabit uplink. On most days, the utilization peaks at about 400 Mbps. Peaks usually occur briefly. For switches on Floo2, the peak utilization is 800 Mbps on a Gigabit Uplink. During active periods, the utilization often remain near 800.

What is most appropriate plan for oversubscription in the new access layer? (For this question, think only about oversubscription and not customer needs for redundancy)

A. 48 1 on floor 1 and 24 1 on floor 2
B. 24.1 on floor 1 and 4.1 on floor 2
C. 48 1 in all locations
D. 24 1 in all locations

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 26
A customer requires high availability for wireless services at branches. The customer also wants to centralize management and traffic distribution as much as possible. What should the architect suggest?

A. Controlling branch APs with one or more HP 7500/10500 20G Wired-WLAN at the main office and enabling remote-AP features
B. Controlling branch APs with a cluster of HP 830 Unified Wired-WLAN switches, one of which is deployed at the main office and one of which is deployed at the branch
C. Deploying the APs without a controller but managing them with HP Intelligent Management Center (IMC) Wireless Services Manager (WSM)
D. Controlling Branch APs with two HP 830 Unified Wired-WLAN switches, which are deployed at the main office

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 27

An employer takes the company laptops offsite and connects it to an insecure network. A hacker is able to deploy a malware application to the laptop. The employer takes the laptop back to the office, where the malware uses the credentials of the employee to eavesdrop and to implement denial of service (DoS) attacks.

Which security solution would help prevent this type of attack?

A. MAC lockdown
B. A dynamic VPN (DVPN)
C. Port-based security with 802.1X
D. Endpoint integrity

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference: http://www.hp.com/rnd/pdfs/IDM_plus_EI_Technical_Overview.pdf (page 2, endpoint integrity defined)

QUESTION 28
A network architect is designing a redundancy solution for a customer and has learned that there is a single link between two critical network components. During the past 4000 hours of operation, the link has failed twice. The customer estimates that each failure has taken two hours to resolve.

Given this information, what is the availability that this link currently provides?

A. Less than 99.99%
B. 99.9%
C. 99.99%
D. 99.999%

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 29
An architect is planning an HP Wired-WLAN solution for an office with approximately 4000 users who will use the wireless network rather heavily and also need to roam seamlessly. The solution will have 256 MSM 460 access points (APs). What is one reason for using two Hp Wired-WLAN controllers for this solution?

A. Each Wired-WLAN controller can only support 128 APs
B. The customer needs fast roaming, which requires a mobility solution between two controllers
C. Each Wired-WLAN controller can only support 2000 users
D. The controller can be licensed and configured to provide redundancy for each other

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 30
When would a network architect recommend an HP HSR6800 Router for a campus LAN? (Select two)

A. The HP HSR6800 Router provides routing features at a more attractive price point than a routing switch
B. The company wants to implement a Dynamic Virtual Private Network (DVPN)
C. The HP HSR6800 Router Supports Border Gateway Protocol (BGP), which is unavailable on routing switches
D. The company needs a routing device that supports extremely large tables
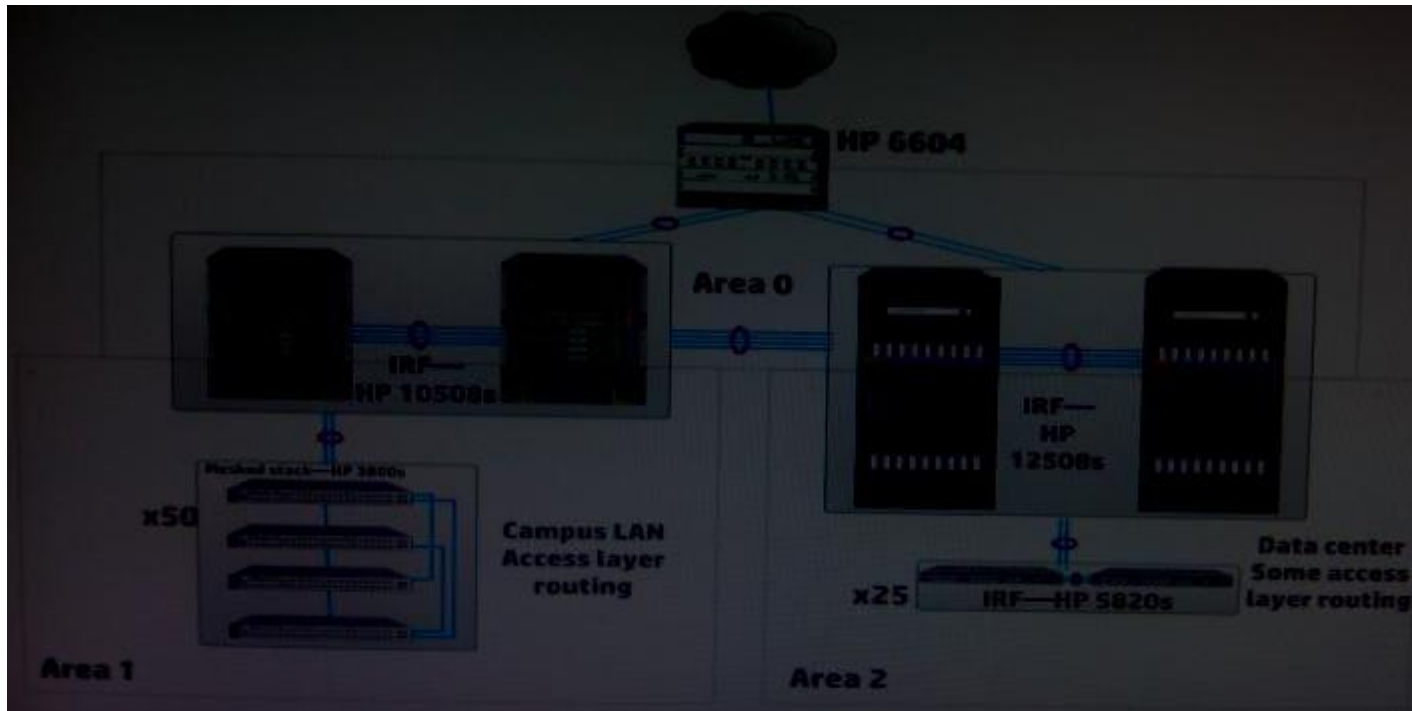E. The company requires a large number of 10G connections

Correct Answer: DE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 31
Refer to the exhibit.

A network architect is proposing an HP 6600 series router at the core of this enterprise customer network. The router runs Border Gateway Protocol (BGP) and announces the customer networks to the internet service provider (ISP). The router also runs Open Shortest Path First (OSPF) to communicate with the rest of the customer network.

What is an appropriate method for the HP 6604 router to advertise routes to the internet to the other routing switches?

A. The route should redistribute BGP routes OSPF. Areas 1 and 2 should be configured as stub areas to filter out the external routes
B. The router should advertise BGP routes into OSPF but filter out all routes except the private network that belongs to the customer
C. The router should redistribute BGP routes into OSPF. The Area Border Routes (ABRs) should summarize those routes for advertisement in areas 1 and 2
D. The router should advertise a default route as an Autonomous System Router (ASBR) summary to the other routing devices in area 0

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 32
A network architect is choosing fabric module for an HP 10500 Series Switch. Which factors affect the choice?

A. The environment in which the switch will be installed and the direction of the airflow
B. The number of IPv4 and IPv6 routes that the switch must support in its routing table
C. The type of I/O modules and whether full bandwidth must be supported on all ports at the same time
D. The type of management modules and whether these modules operate in hot-standby mode
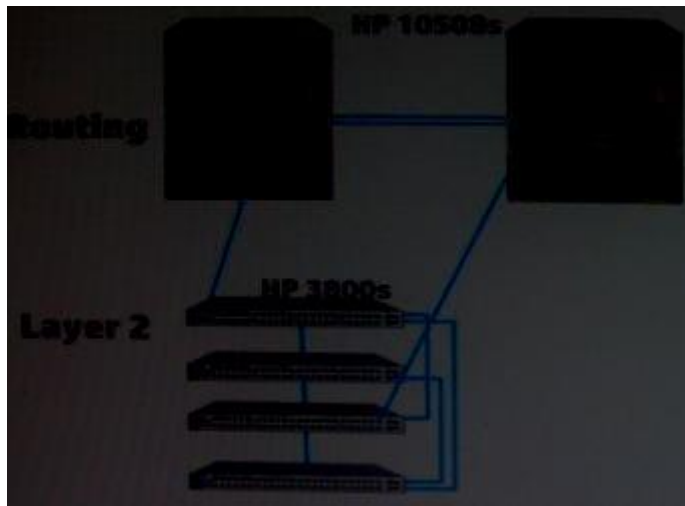
Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 33
Refer to the exhibit.

A network architect has planned redundant links as shown in the exhibit. What should the network architect do to ensure that the redundant link design is truly resilient?

A. Implement the features such as link aggregation, backplane stacking, and intelligent Resilient Framework (IRF)

B. Add another link between the Layer 2 switches and the core so that up to the two links can fail
C. Implement a feature such as bidirectional forwarding detection (BFO) on each redundant link
D. Make sure that each HP 10508 switch is configured as a root in one Multiple Spanning Tree Protocol (MSTP) instance

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 34
A network architect is compiling information about the total cost ownership (TCO) for a proposal. Which factors play a role in TCO?

A. Cost of remediation due to a future security breach
B. Cost of regulatory fines associated with non-compliance
C. Cost of upgrading modules for the proposal
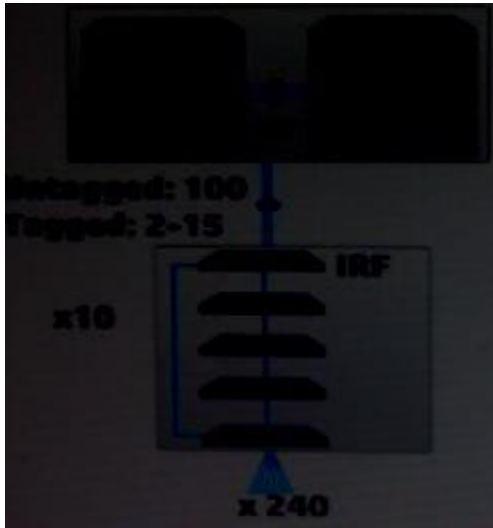D. Cost of powering the solution

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 35
Refer to the exhibit.

A network architect is designing the logical topology for a campus LAN networking solution. The customer requires support for 2400 edge ports, which is provided by 10 intelligent Resilient Framework (IRF) groups at the access layer. This customer does not have a wireless network nor anticipants adding one in the next two years. However, the customer does want to authenticate users with 802.1X and use the network RADIUS server to divide users from different groups into different VLANs. The customer has three user groups, each of which includes between 600 and 900 users.

Additionally, the customer understands that the RADIUS server will require several policies but wants to keep these policies as simple and easy to maintain as possible.

How can the network architect ensure that the solution meets the customer needs and also follows best practice?

A. Assign a /23 subnet to each VLAN so that the VLAN can accommodate the required number of users, even if users connect multiple devices
B. Plan a different VLAN ID and subnet address for each user group on each access layer IRF group. Either core or access layer routing will work for this solution
C. Use access layer routing. Assign a different subnet to VLAN2 on one access layer IRF group then the VLAN2 on the another access layer group
D. Plan a solution for designing dissolvable agents to the endpoints so that they can complete 802.1X authentication seamlessly

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 36

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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 37
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 38
A customer has a virtualized data center that uses Microsoft Hyper-V Windows Server 2012. The customer has provided this information about the hosts for the VMs:
Each host has a network (Hyper-V virtual switch) that supports VM production traffic and own 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

In 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 connection to each host?

A. Whether the virtual switches use Virtual Ethernet Port Aggregate (VEPA) VLAN tagging
B. Whether the virtual switches use sFlow or NetStream to load balance traffic over the server NICs
C. Whether the virtual switches support standard Spanning Tree Protocol (STP) or Cisco Per- VLAN Spanning Tree Protocol Plus (PVST+)
D. Whether the virtual switches use generic or dynamic NIC teaming (Link Aggregation Control Protocol [LACP]) and their hashing method

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 39
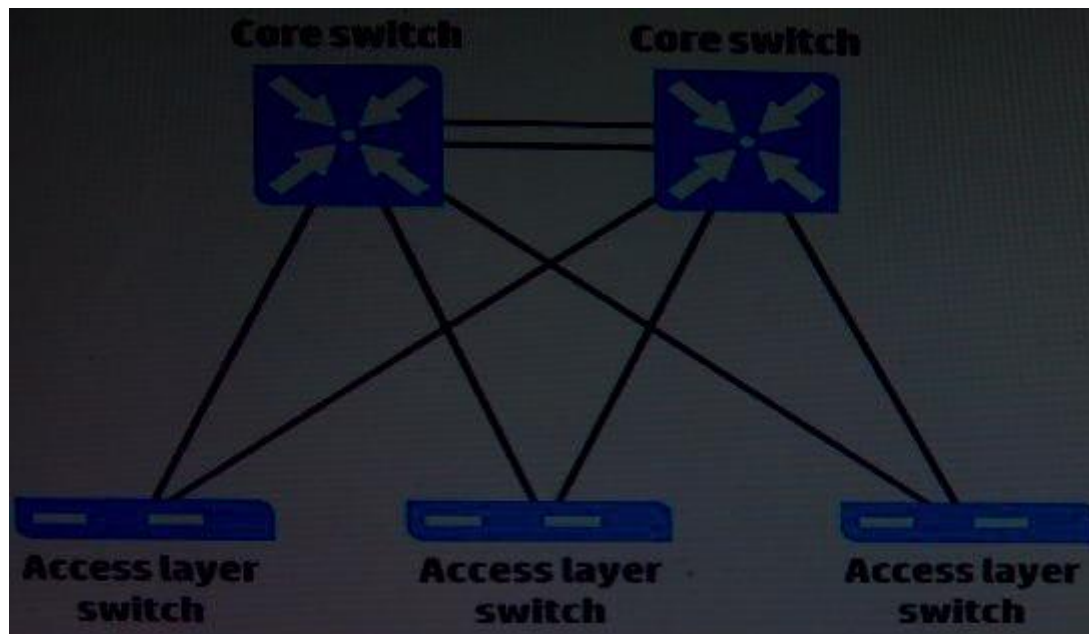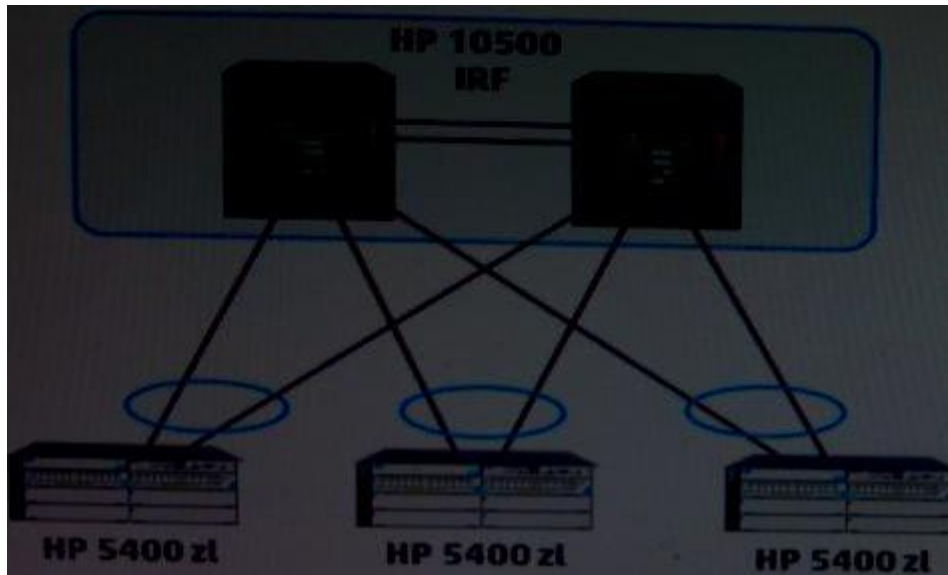Refer to the exhibits.

Exhibit 1

Exhibit 2

A customer has a existing solution, which is shown in Exhibit 1. (The solution actually includes more access layer switches than shown) in the existing solution, each access layer switch routes traffic.

A network architect is proposing the HP FlexCampus solution shown in exhibit 2 in this proposed solution, the core intelligent Resilient Framework (IRF) virtual switch routes traffic, but the access layer switches do not.

The customer likes that in the existing solution STP does not block either access layer uplink. The customer also likes that the existing solution does not require Virtual Router Redundancy Protocol (VRRP).

What should the architect tell the customer about the benefits of the proposed solution?

A. Although the IRF core must implement VRRP, STP does not block either access layer uplink, letting failover occur more quickly
B. STP does not block either access layer uplink, and routing redundancy is provided without VRRP
C. Although the IRF core must implement VRRP, VRRP is easier to set up than a dynamic routing protocol on all the switches
D. STP will block one uplink on each access layer switch, but IRF enables failover to occur much more quickly

Correct Answer: D
Section: (none)
Explanation

...

Explanation/Reference:

QUESTION 40
A service must be available 24x7. It also requires 99.999% availability. How much total downtime can the service tolerate in one year?

A. About 5 seconds
B. About 5 minutes
C. About 50 minutes
D. About 5 hours

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: http://docs.oracle.com/cd/E19636-01/819-2326/aavch/index.html

QUESTION 41
A company recently experienced a data breach when an unauthorized user accessed the network. Which questions should the network architect ask to identify an affective access solution to prevent unauthorized access in the future? (Select two)

A. Do users have legacy device that do not support 802.1X?
B. Does the company have the resources required to train users on remediation services?
C. Does the company's firewall support access control lists (ACL)?
D. Does the company have an existing RADIUS server?
E. Do user's devices support Secure Shell (SSH)?

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 42
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: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 43
Organizations can deploy off-the-shelf, virtualized application 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 zl Switches

Correct Answer: AE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 44
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 services and STP root guard be important 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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 45

Which exhibit shows the better Open Shortest Path First (OSPF) area scheme and for which reason?

A. Exhibit 1 because it allows the application of access control lists (ACLs) between users and the data center
B. Exhibit 1 because the campus and data are separate areas
C. Exhibit 2 because every area has similar numbers of routers
D. Exhibit 1 because every area has fewer than 50 routers
E. Exhibit 2 because every area has fewer than 35 routers

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 46
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 47
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 48
A network architect is designing a solution for a customer who wants better security on edge ports. Recently, an unauthorized individual was able to connect a snooping device to an open port (in other words, to a switch port that is active but not connected to a customer device). The customer wants to prevent this from happening again. However, the customer wants to avoid implementing 802.1X on ports because the IT staff is not prepared to deploy and manage such a solution.

What is the simplest way to minimize the risk of another unauthorized connection without adding a lot of management overhead?

A. Place opens ports in a VLAN that is not carried on uplinks.

B. Implement MAC lockdown (as opposed to MAC authentication) on all open ports.

C. Apply MAC authentication to the open ports and allow only known MAC addresses

D. Apply dynamic port access control lists (ACLs) to open ports.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 49
A hospital CIO tells the network architect that the current network solution is not performing well. The hospital has access layer switches that support 4810/100/1000 Mbps ports and one Gigabit uplink. The hospital is seeking an upgrade to provide better performance and redundancy.

The CIO cannot provide network architect more detailed information about traffic patterns and utilization but does not want the network architect to install intelligent Management Center (IMC) and analyze the traffic.
The CIO does indicate that these applications are important:
Voice over IP (VoIP)
Scheduling and billing application
Patient data logging
Medical imaging

The network architect needs to plan an appropriate oversubscription ratio for access layer uplinks.

What is one piece of information that the architect should collect for this task?

A. How much bandwidth the medical imaging applications require

B. Whether the VoIP traffic must be forwarded at layer 2 or whether it can be routed

C. Whether the billing applications and patient data require encryption

D. Which 802.1p value the VoIP applications use to mark their traffic

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 50
Which benefit does In-Service Software Upgrades (ISSU) provide?

A. Schedules and performs switch upgrades through HP Intelligent Management Center (IMC)
B. Upgrades members of an IRF virtual switch one at a time to avoid services disruption
C. Upgrades members of the IRF virtual switch simultaneously to ensure all members use the same software version
D. Automatically checks for software updates on the HP Websites, downloads the new software, and upgrades the switches

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 51
A network architect is designing as a Multiple Spanning Tree Protocol (MSTP) solution for a network. The network architect plans to create 10 VLANs. The network architect also wants to ensure that the best paths are selected when interoperating with other spanning tree regional.

Which guideline aids in ensuring best paths between regions?

A. Place five VLANs in one MSTP instance and five in the other instance.
B. Set up the correct priority on the switch that you want to be root in instance 0.
C. Calculate the traffic load for each VLAN and then distribute them accordingly between each MSTP instance.
D. Use the appropriate cost settings for links as specified in the IEEE 802.1t standard.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 52
A network architect is planning the top of the Rack (ToR) switches for a data center solution. The customer has a hot aisle/cool aisle configuration.

Which characteristic of the switch relates to this plan?

A. The great dissipation (as measured in Watts)
B. The voltage as related to maximum power consumption
C. The number of power supplies by the switch, including redundant ones
D. The location of the air intake and output and whether the airflow is reversible

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 53
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
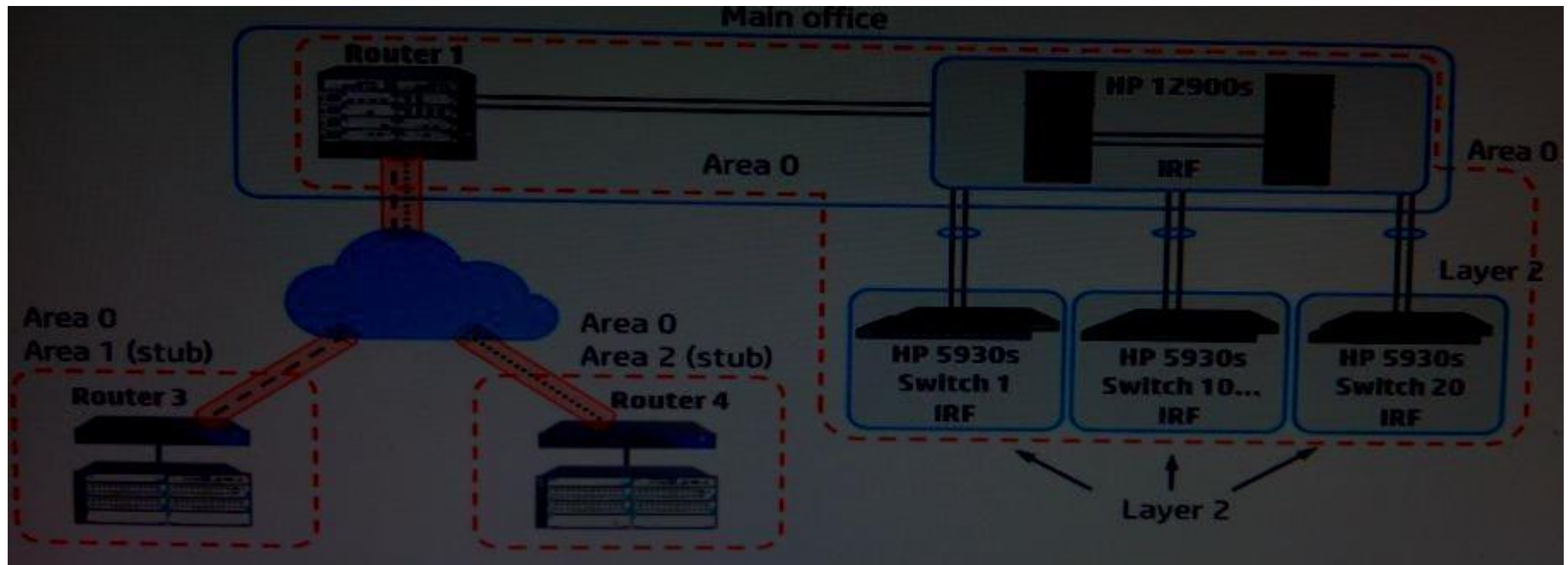E. Need to support delay-sensitive applications

Correct Answer: BE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 54
Refer to the exhibit.

The exhibit is a plan for Open Shortest Path First (OSPF) areas. What should the network architect do to improve the OSPF network design?

A. Add a redundant link in area 0 between each branch router and the data center core Intelligent Resilient Framework (IRF)
B. Change area 1 and area 2 to not so stubby areas (NSSAs) or normal areas
C. Move the boundary between area 1 and area 0 to Router 1 make the same change to area 2
D. Implement routing on the 5930 switches. Make Switch 10 an area border router (ABR) between area 0 and a new area

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 55
Which description best characterizes current trends in deploying services for an enterprise solution?

A. Companies are transforming their campus LAN and data counters into one large Layer 2 network.
B. Companies are connecting multiple suites together but distributing services to each site to increase resiliency and responsiveness

C. Companies are moving services out of the private cloud into more responsive pods that are distributed throughout the campus LAN

D. Companies are centralizing services in a consolidated data center or even a highly scalable private cloud

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 56
Refer to the exhibit.

The exhibit shows a network with HP 3500 yl Series switches at the access layer and HP 8206 zl switches at the core. The customer with this solution has logged several support calls, which were eventually tracked down to spanning tree issues. How can a network architect adjust the solution to prevent the issue in the failure?

A. Implement BPDU filters on the switch-to-switch links and loop protection edge ports

B. Connect three or four 3500 y1 switches together in a group. Establish a distributed trunk between two switches in each group and the core switches

C. Implement BPDU guard and broadcast suppression on all the switch-to-switch links

D. Configure distributed Trunking on the two 8200 zl switches at the core. Create a distributed trunk between the core switches and each 3500 yl switch

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 57
A network architect is planning a guest solution for a group of ports in a conference room. Guests should have access to the Internet only. The company wants a simple solution and prefers not to burden visitors with login requests.

Which solution would best meet the company's requirements for a gust network?

A. Place the ports in a black-hole VLAN that is not carried on Switch-to-Switch links. Apply a dynamic VLAN for guests who pass web authentication to a server that allows MAC registration
B. Place the guest ports that is allowed access only to the internet. Optionally configure port isolation.
C. Apply MAC lockdown to the guest ports. Configure switches to place unknown MAC addresses in a VLAN with access only to the internet
D. Apply web authentication to the guest ports. Use the built-in guest accounts for HP switches to authenticate the users
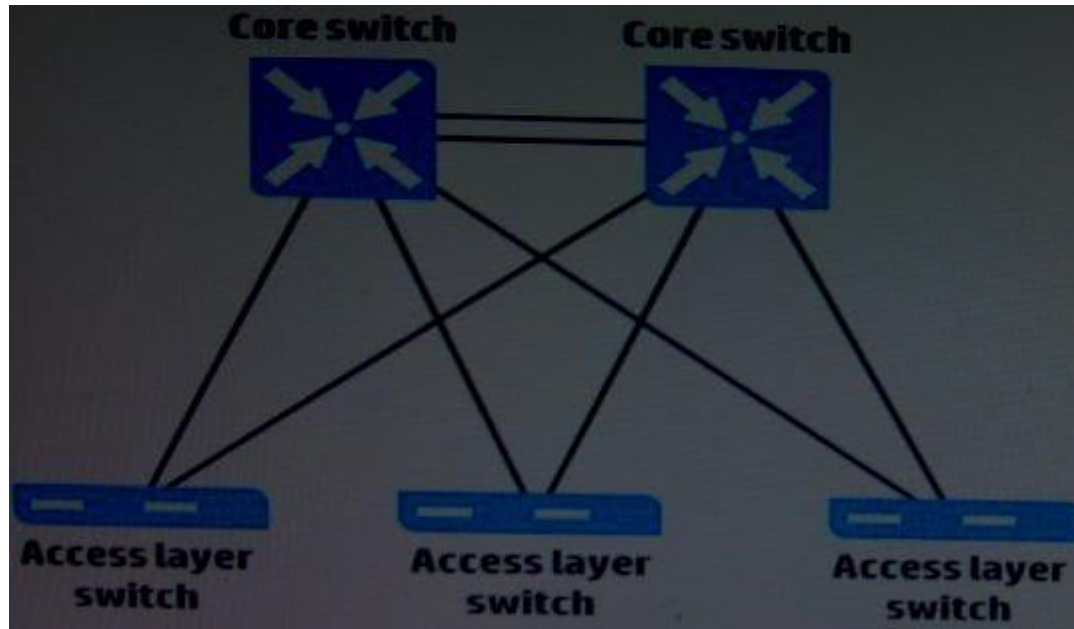
Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 58
Refer to the exhibit.

A customer has the solution in the exhibit, which includes more access layer switches than are shown. Members of the customer network team mention they are considering access layer routing for a new solution to eliminate Spanning Tree Protocol (STP) and Virtual Router Redundancy protocol (VRRP). However they are concerned about meaning the routing solution. The network architect proposes a solution that eliminates STP and VRRP without requiring routing at the access layer, although the solution can use access layer routing.

Which solution fits that description?

A. Two HP 10500 Series, using intelligent Resilient Framework (IRF) at the core, HP S400 zl Series switches at the access layer
B. Two HP 10500 Series switches, using Hot Standby Router Protocol (HSRP), at the core. HP 2600 Series switch at the access layer
C. Two HP 8200 zl Series switches, using distributed Trunking, at the core. HP 5400 zl Series switches at the access layer
D. Two HP zl Series switches, using backplane stacking, at the core. HP 5400 zl Series switches, using the backbone stacking at the access layer
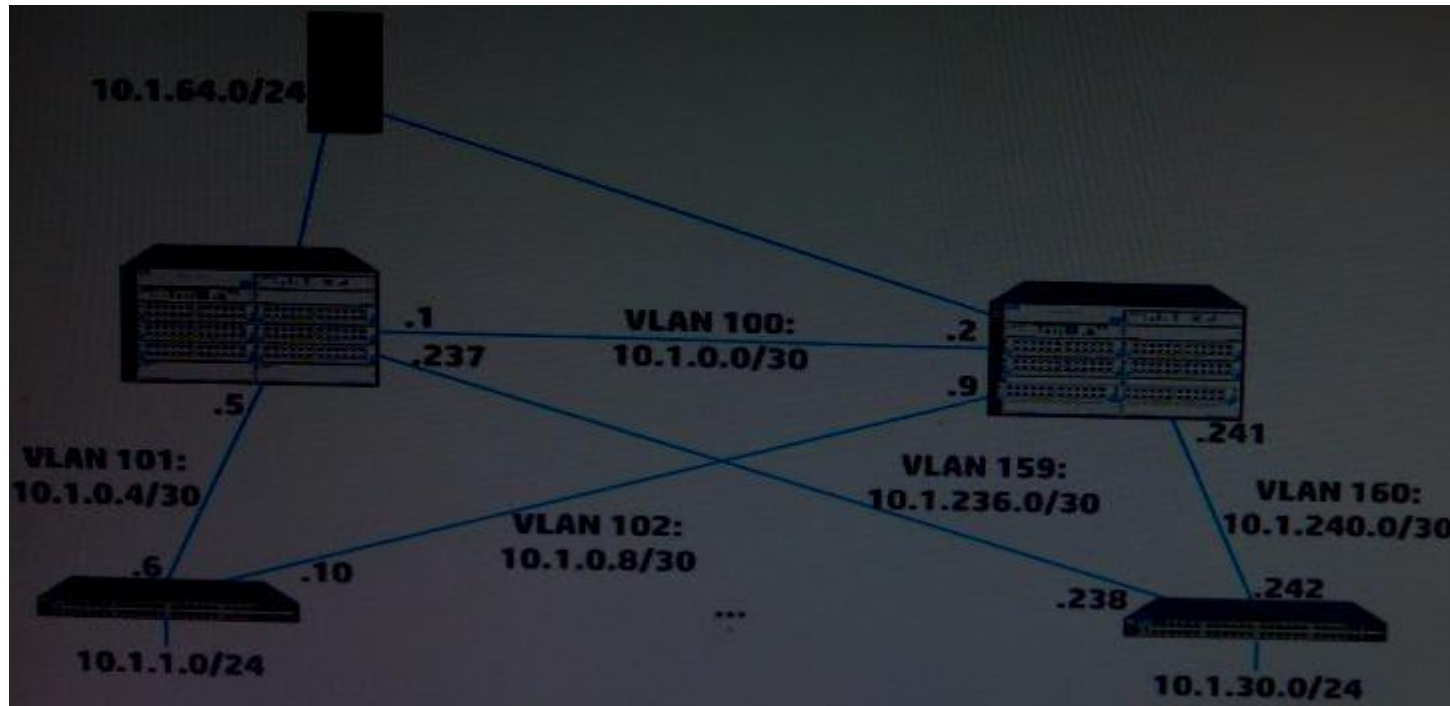
Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 59

Refer to the exhibit.

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 virtual local area network (VLAN) interface runs Open Shortest Path First (OSPF) and has the IP address shows in the exhibit. The interface settings are at the defaults.

The access layer switches support more VLANs not shown in the exhibit and also run Multiple Spanning Tree Protocol (MSTP) as a protection against loops.

What is one recommendation for enhancing convergence time and resiliency for this solution?

A. Add a BPDU filter to the VLAN interfaces shown in the exhibit
B. Lower the cost of the VLAN interfaces to reflect the high speed of the links
C. Place all the switch-to-switch links in the same VLAN
D. Raise the OSPF timers on the VLAN interfaces

Correct Answer: A
Section: (none)

Explanation

Explanation/Reference:

QUESTION 60
A network architect is designing a solution with HP products. A customer has the following requirements for controlling the management access for administrators:
Administrators are assigned privileges when they log in based on their identity Security policies related to password complexity and password rotation, like the company's Windows domain policies, are enforced for administrator credentials The company can easily revoke the access of administrator how have the company method
Administrator have a backdoor into the management interface in case network connectivity fails in any way

Which option meets the company's requirements?

A. Authentication to a RADIUS server with local authentication as a secondary method
B. Authentication with a password that meets the complexity requirements and is stored locally on each device
C. Authentication to local user accounts with TACACS+ authenticates as a secondary method
D. Authentication to a TACACS+ server

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 61
A network architect has planned several validation tests and user acceptance tests (UATs) for a new HP solution. In order to ensure meaningful results, what is one step that the network should complete before implementing the new solution?

A. Talk with key authentication to determine valid maintenance windows for the UATs
B. Plan how long it will take to rollback the new solution of the tests indicate poor results
C. Schedule a point of no return, after which results will not be accepted
D. Run the same tests on the existing network solution

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 62
A network architect is choosing core switches for an enterprise data center. One potential model has CLOS hardware architecture, and the other model has a cross-bar architecture. Which customer requirement would cause the network architect to select switches with CLOS architecture?

A. The customer has a multi-tenant data center, which needs to use Virtual Routing and Forwarding (VRF) to segment the network
B. The customer needs a highly-available core, which is best delivered with Intelligent Resilient Framework (IRF)
C. The customer has relatively small data center and does not have the budget to invest in high performance
D. The customer is planning to scale bandwidth up to 40G/100G in the next several years

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 63
A customer has a virtualized data center with hosts that are managed by VMware vCenter. The network architect has proposed the HP Virtual Application Networks (VAN) Connection Manager (CM) and Resource Automation Manager (RAM) modules for HP Intelligent Management Center (IMC). The architect also proposed the HP 5900v switches and the proper server access layer products.

Which technology must the access layer switches that connect to the virtualized servers support?

A. Transparent Interconnection of Lots of Links (TRILL)
B. Intelligent Resilient Framework (IRF)
C. Ethernet Virtual Bridging (EVB)/Virtual Ethernet Port Aggregator (VEPA)
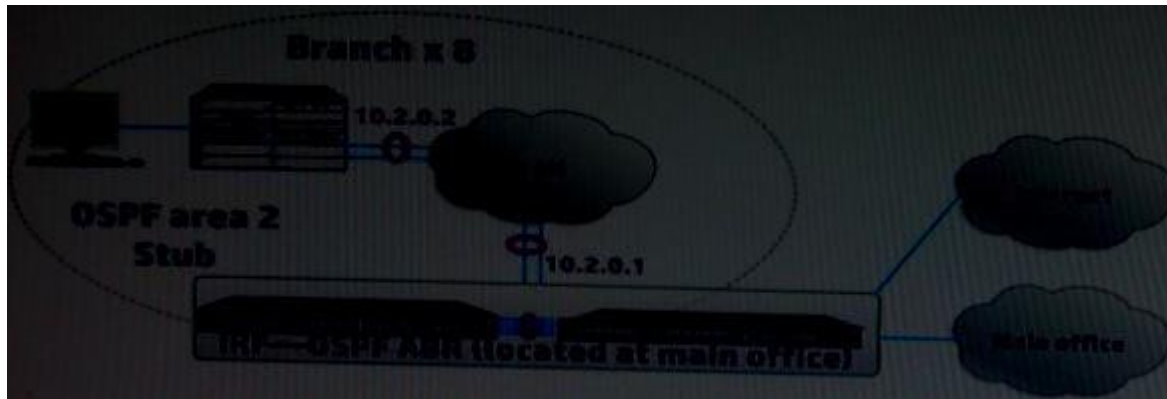D. Fiber Channel over Ethernet (FCoE)

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 64
Refer to the exhibit.

The customer requirements include resilience for branch communications. If anyone link fails, a branch can still reach the main office servers. In addition either one of the 5920 switches at the core of the WAN should be able to fail with branches still maintaining their connections.

What should the network architect include in the design to meet this requirement?

A. A connection directly to an ISP to each branch router, which also requires the OSPF area to become a not so stubby area (NSSA)
B. Virtual Router Redundancy Protocol (VRRP) enabled and configured in the switches in the 5920 IRF group
C. Graceful restart on the 5920 IRF group in standard IETF mode
D. A floating static route on the branch switches to the 5920 IRF group in case the OSPF solution fails

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 65
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: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 66
A data center has a traditional three-tier network design with routing at the distribution layer. The customer is vitalizing 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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 67
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 68

What is offered through the Network Strategy and Planning Services?

A. Trouble shooting best practices
B. Aligned strategy and initiative roadmap services
C. Network Functions Virtualization Readiness Workshop
D. Cloud Networking Return on Investment

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 69
Which Flex Fabric product extends HP switch features to virtual hosts and extends HP VAN Connection Manager Benefit to virtualized environments'?

A. HP Virtual Connect Manager
B. HP 5900v Virtual Switch
C. HP MSR 2000 router
D. HP Virtual Cloud Networks

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: http://h17007.www1.hp.com/docs/interop/2013/4AA4-6494ENW.pdf

QUESTION 70
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 71
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 72
An implementation plan should include an agreed-on time for the final rollback decision. What should this decision be scheduled?

A. After the cutover to the new solution and the first set of validation tests and just before the user acceptance tests (UATs)
B. after the first steps of the rollback plan have been implemented, about ten minutes before the end of the maintenance window
C. just before the point of no return, which is calculated by subtracting the rollback time from the end of the maintenance window
D. ten minutes before the end of the maintenance window or one hour into the implementation, whichever occur first

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 73
Which description best characterizes current trends in deploying services for an enterprise?

A. Companies are connecting multiple sites together but distributing services to each site to increase resiliency and responsiveness.
B. Companies are moving services out of the private cloud into more responsive pods that are distributed throughout the campus LAN.

C. Companies are transforming their campus LAN and data centers into one large Layer 2 network
D. Companies are centralizing services in a consolidated data center or even a highly scalable private cloud

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 74
What best characterizes the current trend in branch office IT and networking solutions?

A. Assignment of designated IT staff to branch offices
B. Consolidation of traditional resources within the data center
C. Increased reliance on wireless services to fill the bandwidth deficiency provided by traditional WAN links
D. Moving away from Ethernet-based WAN links toward dedicatedT1/E1/J1 lines

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 75
Data center includes services within the same VLAN and subnet that communicate with each other multicast application. Variable Internet Group Management Protocol (IGMP) on this VLAN on data center switches?

A. To enforce security boundaries between servers assigned to different multicast groups
B. To eliminate multicast traffic on server ports that have not requested the multicasts
C. To ensure that different applications do not use overlapping multicasts addresses
D. To enable the servers to hear each other's multicast transmission

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 76
Work architect planning the implementation of a solution. For each role, choose whether or not the architect should notify these people and involve them in plan.

Hot Area:

Administration responsible for a application affected by the implementation

| Involve |
| Do not involve |

Employees who run application affected by the implementation

| Involve |
| Do not involve |

Compliance teams responsible for ensuring the customer's network solution meets regulatory standards

| Involve |
| Do not involve |

Correct Answer:

Administration responsible for a application affected by the implementation

| Involve |
| Do not involve |

Employees who run application affected by the implementation

| Involve |
| Do not involve |

Compliance teams responsible for ensuring the customer's network solution meets regulatory standards
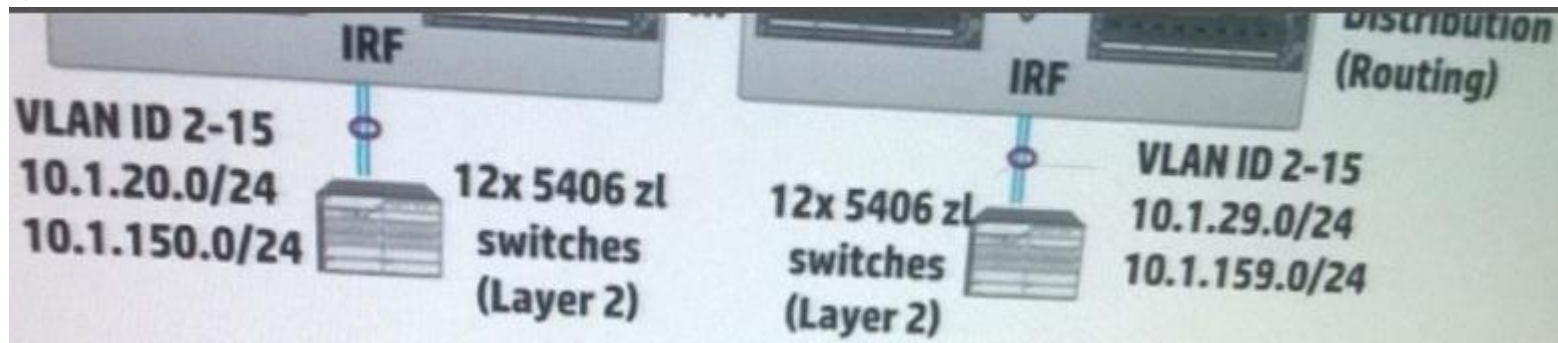
| Involve |
| Do not involve |

Section: (none)
Explanation

Explanation/Reference:

QUESTION 77

The network architect is designing an Open Shortest Path First (OSPF) solution and plans to run OSPF on each of the VLAN in switches.

Based on the practices, which interface or interfaces should the network architect plan the features on?

Hot Area:

Silent interface

VLANs 2-15
VLAN 100
ALL VLANs

Bi-directional Forwarding Detection (BFD)

VLANs 2-15
VLAN 100
ALL VLANs

Correct Answer:

Silent interface

VLANs 2-15
VLAN 100
ALL VLANs

Bi-directional Forwarding Detection (BFD)

VLANs 2-15
VLAN 100
ALL VLANs

Section: (none)
Explanation

Explanation/Reference:

QUESTION 78
Watch the modules for HP Intelligent Management Center (IMC) to the profile of the customer who needs that solution.

Hot Area:

HP User Access Manager, HP Wireless Services Manager (VSM), and HP Endpoint Admission Defense (EAD)

[dropdown ▼]

The customer network administrator struggle to keep up with network provisioning requests from server administrator

The customer network administrator want to understand the root causes of congestion

The customer wants to Bring Your Own Device BYOD) solution

HP Network Traffic Analyzer (NTA) and HP User Behavior Auditor (UBA)

[dropdown ▼]

The customer network administrator struggle to keep up with network provisioning requests from server administrator

The customer network administrator want to understand the root causes of congestion

The customer wants to Bring Your Own Device BYOD) solution

HP Virtual Application Networks (VANs) Connection Manager (CM) and Resource Automation Manager (RAM)

[dropdown ▼]

The customer network administrator struggle to keep up with network provisioning requests from server administrator

The customer network administrator want to understand the root causes of congestion

The customer wants to Bring Your Own Device BYOD) solution

Correct Answer:

Correct Answer:

Correct Answer:

HP User Access Manager, HP Wireless Services Manager (VSM), and HP Endpoint Admission Defense (EAD)

The customer network administrator struggle to keep up with network provisioning requests from server administrator
The customer network administrator want to understand the root causes of congestion
The customer wants to Bring Your Own Device BYOD) solution

HP Network Traffic Analyzer (NTA) and HP User Behavior Auditor (UBA)

The customer network administrator struggle to keep up with network provisioning requests from server administrator
The customer network administrator want to understand the root causes of congestion
The customer wants to Bring Your Own Device BYOD) solution

HP Virtual Application Networks (VANs) Connection Manager (CM) and Resource Automation Manager (RAM)

The customer network administrator struggle to keep up with network provisioning requests from server administrator
The customer network administrator want to understand the root causes of congestion
The customer wants to Bring Your Own Device BYOD) solution

Explanation/Reference:

QUESTION 79
HP data center access layer can use top of rack (ToR) switches or End of Row (EoR)/ Middle of Row (MoR) switches. Select the design with advantage.

Hot Area:

Lower latency for a higher volume of server-to-server communications

∨
TOR
EOR

Here manageable cabling and potentially lower cost 10G-to-the server

∨
TOR
EOR

Outer isolation of traffic and issues

∨
TOR
EOR

Correct Answer:

Lower latency for a higher volume of server-to-server communications

▼
TOR
EOR

Here manageable cabling and potentially lower cost 10G-to-the server

▼
TOR
EOR

Outer isolation of traffic and issues

▼
TOR
EOR

Section: (none)
Explanation

Explanation/Reference:

QUESTION 80
A network architect is choosing transceivers for switches-to-switches fiber links. Which factors affect the architect's choice?

Hot Area:

The need to support LACP over aggregated links

Does not affectes
Affectes

The length of the cable (distance between switches)

Does not affectes
Affectes

The transceiver form factor and desired port density

Does not affectes
Affectes

Correct Answer:

The need to support LACP over aggregated links

Does not affectes
Affectes

The length of the cable (distance between switches)

Does not affectes
Affectes

The transceiver form factor and desired port density

Does not affectes
Affectes

Section: (none)
Explanation

Explanation/Reference:

QUESTION 81
Which STP protection feature does HP recommended against rogue switches?

A. Root Protection should be enabled on access layer switches.
B. BPDU Protection should be enabled on edge ports and uplink ports.
C. Root Protection should be enabled on access and aggregation layer switches.
D. BPDU Protection should be enabled on edge ports.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:
We want to enable BPDU protection on any edge ports, or ports that are connected to end user devices (PCs, printers, etc.) -- any device that should not be sending out STP BPDU's. Without BPDU protection, a malicious (or ignorant) user could plug a switch into our network and alter the spanning tree topology.

QUESTION 82
The HP Virtual Connect (VC) product is found within which HP FlexNetworkArchitecture component?

A. FlexBranch
B. FlexFabric
C. FlexManagement
D. FlexCampus

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: http://h20195.www2.hp.com/V2/GetPDF.aspx%2F4AA4-8174ENW.pdf

QUESTION 83
A network administrator has a network of HP ProVisionswitches with operator and manager passwords configured. The network administrator uses the copy config startup- configtftp<IP_address><filename> pc command on each switch to save allthe switch configuration to a TFTP server. The network administrator copies the configuration from one HP ProVision3800 switch to an identical HP ProVision 3800 switch. The new switch no longer prompts for an operator or manager passwords.

What is the cause of this problem?

A. The passwords must the saved by using a separate TFTP transfer with the copy passwords tftp<IP_address><filename> pc command.
B. The passwords cannot be restored they contain special characters misunderstood by the TFTP server.
C. The passwords cannot be restored by default, to the startup-config file on the switch when executing the write memory command.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 84

Which credential is required to validate SNMP v2cwrite requests?

A. MD5 authkey
B. AAA authentication
C. Scheme
D. Community string

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 85
Refer to the exhibit.

Exhibit: Network topology
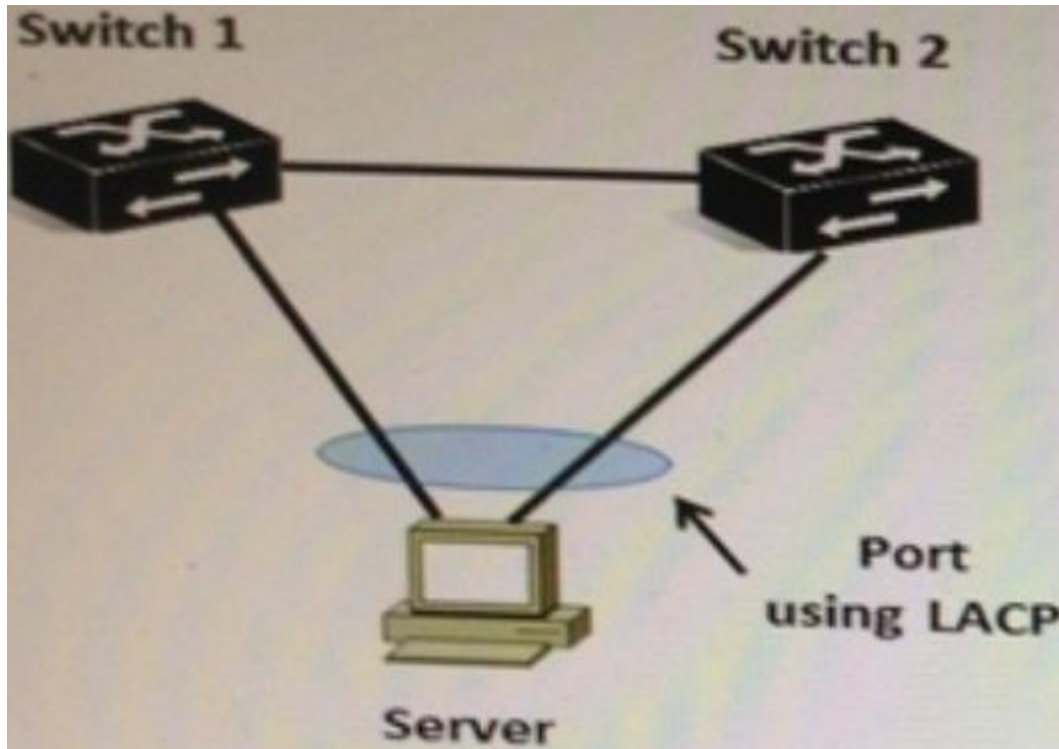
The server shown in the exhibit is configured for dynamic LACP. There is only one link between Switch 1 and Switch 2. Which HP switching solution should the network administrator implement?

A. Distributed trunking on Comware Switches or ProVision switches
B. IRF on Comware switches or Provision switches
C. IRF on Comware switches or but not on ProVision switches
D. Distributed trunking on ProVision switches but not on Comware switches

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 86

When configuring MSTP, how should VLANs be separated to perform load balancing?

A. Placed into separate instances
B. Placed into separate Regions
C. Never configured with more than one VLAN per instance
D. Configured with different priority values

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 87
What is an advantage of connecting servers directly to the HP FlexFabric?

A. Multiple protocols are consolidated into one converged fabric.
B. All end user host systems are directly connected to this same fabric.
C. Physical connections can be easily moved within the fabric.
D. FCoE SANs are isolated from the servers by the fabric.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 88
Which open standard allows a switch with PoEsupport to correctly determine the power requirements of a connected device?

A. ICMP
B. AutoPower
C. LLDP-MED
D. CDP

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
The Link Layer Discovery Protocol (LLDP) is a vendor-neutral link layer protocol in the Internet Protocol Suite used by network devices for advertising their identity, capabilities, and neighbors on an IEEE 802 local area network, principally wired Ethernet.**Media Endpoint Discovery** is an enhancement of LLDP, known as **LLDP-MED**, that provides the following facilities:

- Auto-discovery of LAN policies (such as VLAN, Layer 2 Priority and Differentiated services settings) enablingplug and play networking.
- Device location discovery to allow creation of location databases and, in the case of Voice over Internet Protocol (VoIP),Enhanced 911 services.
- Extended and automated power management of Power over Ethernet (PoE) end points.

QUESTION 89
Which statement is true about wireless technologies?

A. 802.11n uses MIMO technology to improve data rates
B. 802.11g uses GIGO technology to improve security.
C. 802.11b/g use an 802.11a-compatible frequency.
D. 802.11a uses the less crowded 2.4 GHz range.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
IEEE 802.11n is an amendment to IEEE 802.11-2007 as amended by IEEE 802.11k-2008, IEEE 802.11r-2008, IEEE 802.11y-2008, and IEEE 802.11w-2009, and builds on previous 802.11 standards by adding multiple-input multiple-output (MIMO) and 40 MHz channels to the PHY (physical layer), and frame aggregation to the MAC layer.
MIMO is a technology that uses multiple antennas to coherently resolve more information than possible using a single antenna. One way it provides this is through Spatial Division Multiplexing (SDM), which spatially multiplexes multiple independent data streams, transferred simultaneously within one spectral channel of bandwidth. MIMO SDM can significantly increase data throughput as the number of resolved spatial data streams is increased.

QUESTION 90
Refer to the exhibit.

Exhibit HP Comwarecommand output.

```
<Comware> display link-aggregation verbose bridge-aggregation 2
<-output omitted->
System ID: 0x8000, 000f-e267-6c6a
```

Local:

Port	Status	Priority	Oper-key	Flag
GE1/0/3	8	32768	2	(ACDEF)
GE1/0/4	8	32768	2	(ACDEF)

Remote:

Actor	Partner	Priority	Oper-key	SystemID	Flag
GE1/0/3	32	32768	2	0x8000, 000f-r267-57ad	(ACDEF)
GE1/0/4	26	32768	2	0x8000, 000f-r267-57ad	(ACDEF)

Examine this output from the Comware command shown in the exhibit. Based on the flag of ACDEF, what is the status of the aggregated link?

A. Static LACP link aggregation is configured, and the aggregated link is operational with load sharing not being performed.
B. Static LACP link aggregation is configured, and the aggregated link is operational with load sharing being performed.
C. Static link aggregation is configured, and the aggregated link is operational with load sharing being performed.
D. Static link aggregation is configured, and the aggregated link is operational with load sharing not being performed.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 91
Which HP ProVisionswitch command defines 10.1.1.1 as a syslog server?

A. Info-center 10.1.1.1
B. Syslog 10.1.1.1
C. Logging 10.1.1.1
D. Logserver 10.1.1.1

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
The switch event log is stored in volatile memory and is lost on a reboot. It is best to configure a syslog server to handle the log on another server in non-volatile memory.
For syslog:
HP-Provision-Switch (config)# logging <IPv4 or IPv6 address>
Reference: http://h10032.www1.hp.com/ctg/Manual/c02667379.pdf

QUESTION 92
Which command can a network administrator execute on an HP Commware switch to manage configuration files?

A. Restore startup-configuration
B. Erase startup-configuration
C. Rename config
D. Erase startup-config

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
http://www.h3c.com/portal/Technical_Support___Documents/Technical_Documents/Switches/H3C_S12500_Series_Switches/Configuration/
Operation_Manual/H3C_S12500_CG-Release7128-6W710/01/201301/772595_1285_0.htm

QUESTION 93
Which type of access is considered an In-band management connection?

A. Serial connection to Console port
B. Dial-up to an auxiliary port
C. SSH from a desktop to the device
D. Telnet to an HP iLO management port

Correct Answer: C
Section: (none)
Explanation

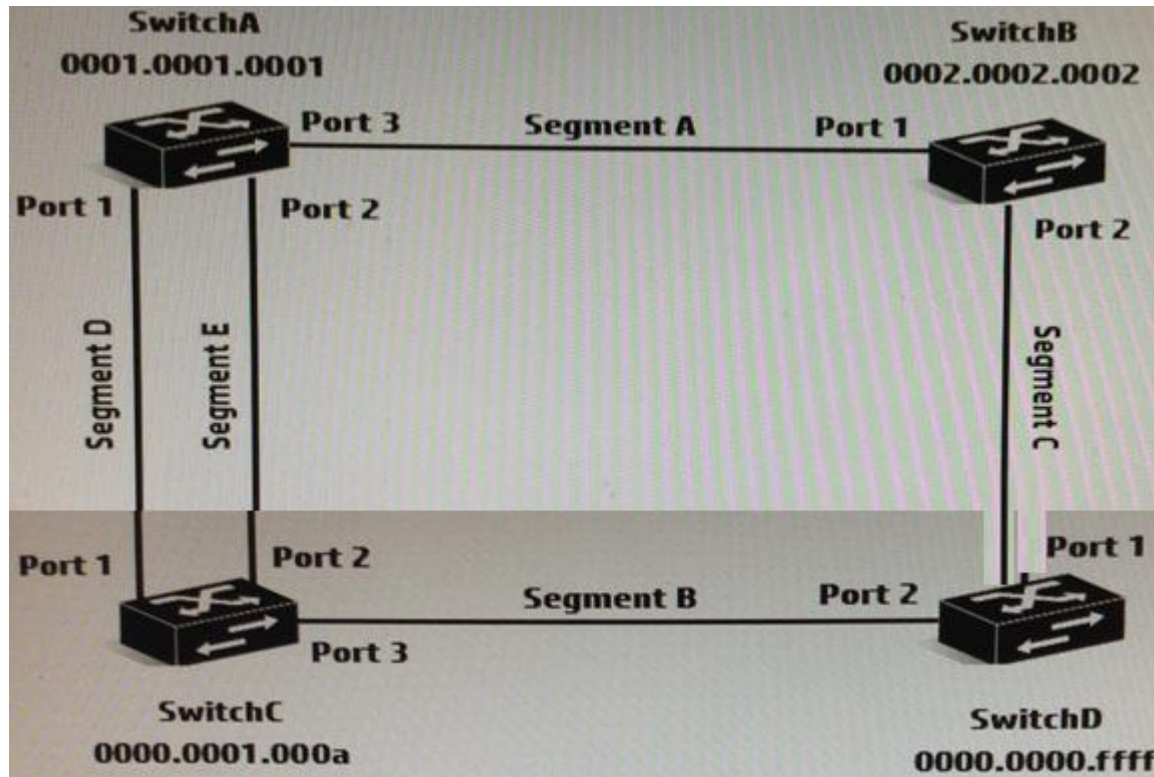**Explanation/Reference:**

QUESTION 94
Refer to the exhibit.

Exhibit: Network topology

A company has implemented a switched network based on the RSTP spanning tree protocol. Assume the following:

▪ All switches have the same priority
▪ All ports have the same cost
▪ All ports have the same priority

Based on this information, which answer is correct?

A. Port 2 on SwitchC is a designated port.

B. Port 3 on SwitchC is a designated port.

C. Port 1 on SwitchB is a discarding port.

D. Port 1 on SwitchD is a root port.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
MSTP selects the device with the lowest MAC address as the root bridge, so in this case it is SwitchD. The root bridge is the only bridge in the network that does not have a root port. All other bridges receive BPDUs on at least one port.

QUESTION 95
Which statement is true about BPDU-Protection on HP Comware switches?

A. BPDU-Protection is enabled on the root switches globally and will detect rogue switches on downlink ports.

B. BPDU-Protection is enabled on the root switches, downlink ports and will detect rogue switches on those ports.

C. BPDU-Protection is enabled globally and will detect rogue switches on edge ports.

D. BPDU-Protection is enabled per port and will detect rogue switches on those ports.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 96
A customer is implementing an access layer solution with four HP Comware switches in an IRF topology. The customer expects to add two additional switches of the same model. What must the customer do when adding the new switches?

A. Implement a daisy chain topology to provide better resilience.

B. Enable spanning tree prevent Layer 2 loops for the newly added switches

C. Create a second IRF domain for the two new switches.

D. Verify that the switch model supports at least six switches in an IRF topology.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 97
Which methods can a network administrator use to upgrade the operating system of an HP ProVision switch? (Select two)

A. SCP
B. SFTP
C. SNMP
D. USB
E. FTP

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 98
In software-defined (SDN), what connects the Application layer to the physical device or Infrastructure layer?

A. HP IMC VLAN Manager
B. HP Enterprise Service
C. HP SDN Controller
D. HP Sentinel Security

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference: http://h17007.www1.hp.com/docs/van/vanfactsheet_4AA4-0792ENW.pdf

QUESTION 99
What is the maximum number of Watts that the IEEE 802.1af standard supports?

A. 11.2
B. 15.4
C. 17.7

D. 25.5

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 100
What is a valid parameter that a network administrator can use when creating a Comwarestatic route?

A. hop-count
B. precedence
C. preference
D. distance

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 101
All OSPF routers from adjacencies with other OSPF routers in each broadcast domain. What is the correct sequence of states when forming an adjacency with any OSPF router in the broadcast domain?

Hot Area:

Step 1 [▼]

| Domain Static |
| Two-way state |
| Exchange state |

Step 2 [▼]

| Domain Static |
| Two-way state |
| Exchange state |

Step 3 [▼]

| Domain Static |
| Two-way state |
| Exchange state |

Correct Answer:

Step 1 [▼]
| Domain Static |
| Two-way state |
| Exchange state |

Step 2 [▼]
| Domain Static |
| Two-way state |
| Exchange state |

Step 3 [▼]
| Domain Static |
| Two-way state |
| Exchange state |

Section: (none)
Explanation

Explanation/Reference:

QUESTION 102
What does an IP host learn from an ARP reply?

A. An IP address
B. The local subnet
C. A MAC address
D. A Netbios name

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 103
Which HP device or port type can modify, read, and respond to 802.1Q VLAN tags?

A. ProVision loopback ports
B. Comware tagged ports
C. Comware trunk ports
D. Provision untagged ports

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 104
A customer is implementing a network using HP ProVision switches. Which default setting applies to the ProVisionswitches?

A. SSH is enabled
B. All Ports are disabled
C. Routing is enabled
D. A static IP address is assigned to VLAN 1
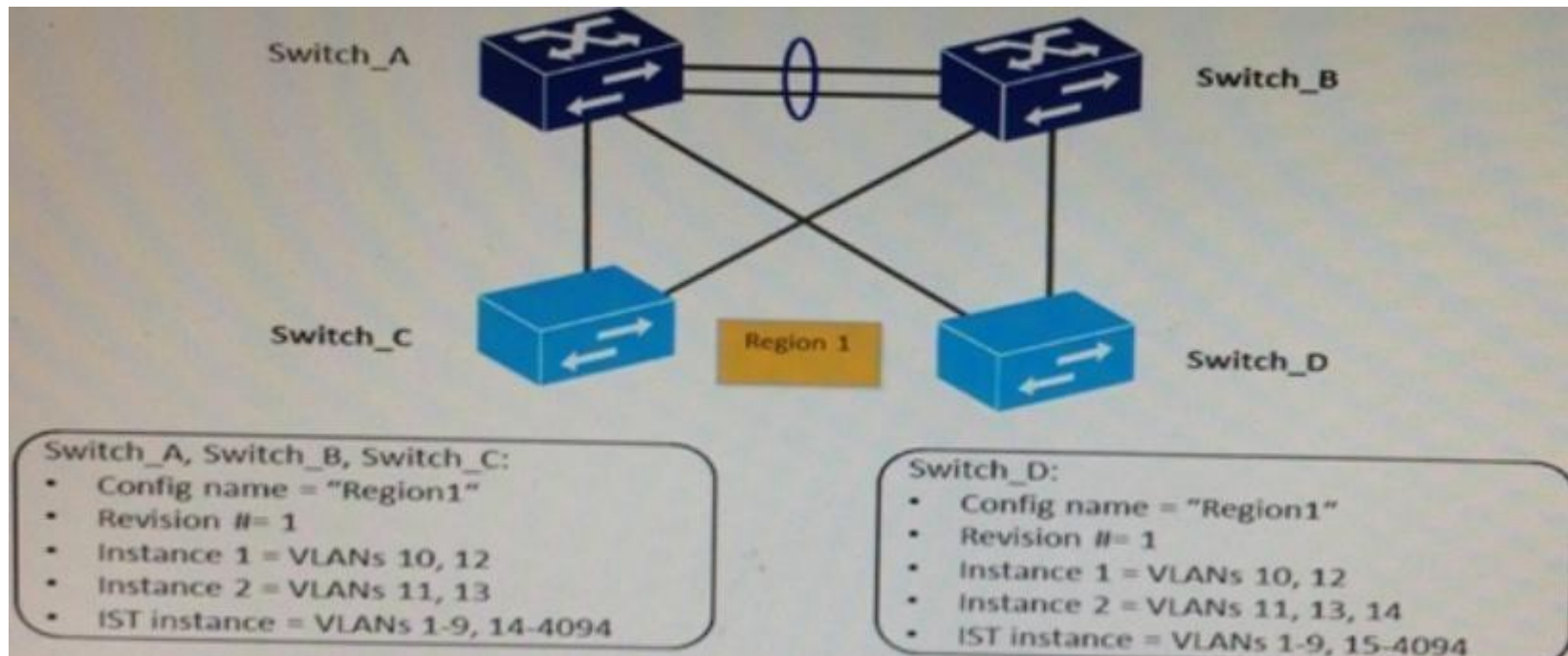
Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 105
Refer to the exhibit.

Exhibit: Network topology and configuration

Switch_A

Switch_B

Switch_C

Region 1

Switch_D

Switch_A, Switch_B, Switch_C:
- Config name = "Region1"
- Revision #= 1
- Instance 1 = VLANs 10, 12
- Instance 2 = VLANs 11, 13
- IST instance = VLANs 1-9, 14-4094

Switch_D:
- Config name = "Region1"
- Revision #= 1
- Instance 1 = VLANs 10, 12
- Instance 2 = VLANs 11, 13, 14
- IST instance = VLANs 1-9, 15-4094

Originally, all four switches had the same region configuration. VLAN 14 was added to Switch_Dand then mapped to instance 2. How does this affect the MSTP topology?

A. Load sharing is lost, one of the uplinks is blocked for all traffic on Switch_C and Switch_D
B. A layer 2 loop exists and will cause sporadic connectivity issues
C. All connectivity is lost, both uplinks are blocked on Switch_D
D. Load sharing is lost, one of the uplinks is blocked for all traffic on Switch_D

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 106
Refer to the exhibit.

Exhibit: HP Comware Switch dir command output

```
<Comware> dir
Directory of ofa0:/

0          drw-     6985954   Apr    26    2007    21:06:29  logfile
1          -rw-     3141842   Apr    27    2007    04:37:17  main.app
2          -rw-     1518      Apr    26    2007    12:05:38  config.cfg
3          -rw-     2045      May    04    2007    15:50:01  backcfg.cfg
4          -rwh     428       Apr    27    2007    16:41:21  hostkey
5          -rwh     572       Apr    27    2007    16:41:31  serverkey

14605 KB total (1955 KB free)

<Comware> dir /all
Directory of cfa0:/

0          drw-     6985954   Apr    26    2007    21:06:29  logfile
1          -rw-     3141842   Apr    27    2007    04:37:17  main.app
2          -rw-     1518      Apr    26    2007    12:05:38  config.cfg
3          -rw-     2045      May    04    2007    15:50:01  backcfg.cfg
4          -rwh     428       Apr    27    2007    16:41:21  hostkey
5          -rwh     572       Apr    27    2007    16:41:31  serverkey
6          -rw-     2737556   Oct    12    2007    01:31:41  [old.app]

14605 KB total (1955 KB free)
```

A network administrator is upgrading the operating system on an HP Comware switch. When copying the new image from a TFTP server to flash of the switch, the process fails because there is not enough flash to store the new operating system. The new operating system is 3.2MB in size. The network administrator then executes the commands shown in the exhibit.

Which action should the network administrator perform to solve this problem?

A. Reformat flash and execute the TFTP upgrade command.
B. Execute the clear Flash command and perform the TFTP upgrade again.
C. Execute the reset recycle-bin command and perform the TFTP upgrade again.
D. Execute the delete eld.app command and execute the TFTP upgrade command.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:
When you delete a file with HP switches, it moves the file to the recycle bin and the file still occupies storage space. To permanently delete the file from the recycle bin, execute the reset recycle-bin command in the original directory of the file.

QUESTION 107
Which command can a network administrator execute to manage configuration files on an HP Comware switch?

A. Write file
B. Startup-default
C. Delete
D. Write memory

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 108
Which HP Comware component allows a network administrator to adjust the logging process?

A. SNMP management center
B. Information center
C. Logging process
D. System logging center

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Acting as the system information hub, information center classifies and manages system information, offering a powerful support for network administrators and developers in monitoring network performance and diagnosing network problems.

The following describes the working process of information center:

▪ Receives the log, trap, and debugging information generated by each module.
▪ Outputs the above information to different information channels according to the user-defined output rules.
▪ Outputs the information to different destinations based on the information channel-to-destination associations.

QUESTION 109
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 110
The customer plans to connect 40 Voice over IP (VoIP) phones and 8 security cameras to a switch:
The VoIP phones are Class 2 devices and require a maximum of 4.5W (draw 5w) The security cameras are Class 4 devices and require a maximum of 17W (draw 20W) The network architect is proposing switch that supports PoE and PoE + and has a Poe Power budget of 370W.

The architect proposes the usage from of power allocation. What are the advantages and disadvantages of this proposal?

A. It allows the switch to run at a lower temperature, saving power and cooling costs, but it decreases the performance for the phones.
B. It allows the switch to connect to the PoE and PoE+ devices on cheaper copper cable, but it limits the distance between the devices.
C. It allows the switch to connect to the PoE and PoE + devices at the same time, but the customer must purchase a redundant power supply.
D. It allows the switch to support the PoE requirements without a redundant power supply, but power might be oversubscribed if conditions change.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 111
An architect is planning an HP Wired-WLAN solution for an office with approximately 4000 users. The solution will have 256 MSM460 APs WLAN controllers. Users must be able to roam seamlessly around the site.

Which strategy meets these needs?

A. Assign users to different VLANs based on the APs to which they connect, and distribute traffic centrally at the controller.
B. Assign users to different VLANs based on the APs to which they connect, and distribute traffic locally at the AP.
C. Assign all users to the same VLAN, and distribute traffic locally at the AP.
D. Assign all users to the same VLAN and distribute traffic centrally at the controller.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 112
A customer prefers fixed-port switches at the campus access layer. The network architect wants to propose access layer switches simplifying network architecture and network management.

Which technologies should the network architect consider? (Select two.)

A. Multiple Protocol Label Switching (MPLS)
B. Virtual Routing and Forwarding (VRF)
C. Intelligent Resilient Framework (IRF)
D. Backplane stacking
E. Net Stream

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 113
Which application might drive a company to invest in a campus LAN topology that offers lower latency for east/west?

A. Enterprise-wide VoIP solution

B. Centralized database servers hosting a rich-media client-server application

C. External customer-facing rich-media web application

D. Enterprise-wide collaboration using video and messaging

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 114
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 115
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.
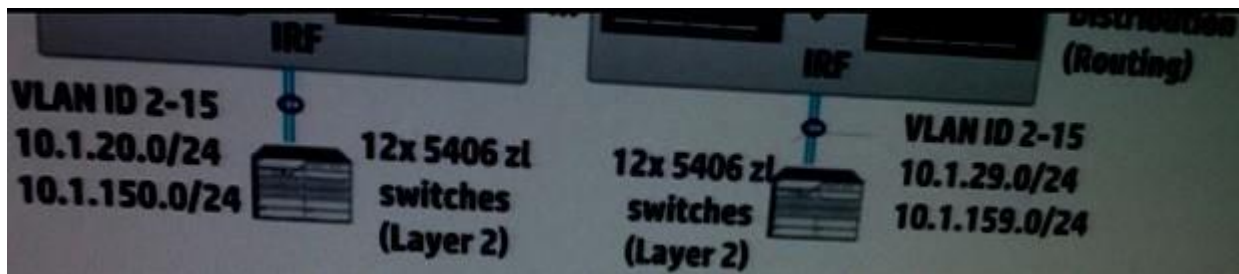
The access layer switches support several more VLANs not shown in the exhibit and also run Multiple Spanning Tree protocol (MSTP) loops.
What is one recommendation for enhancing convergence time and resiliency for this solution?

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.
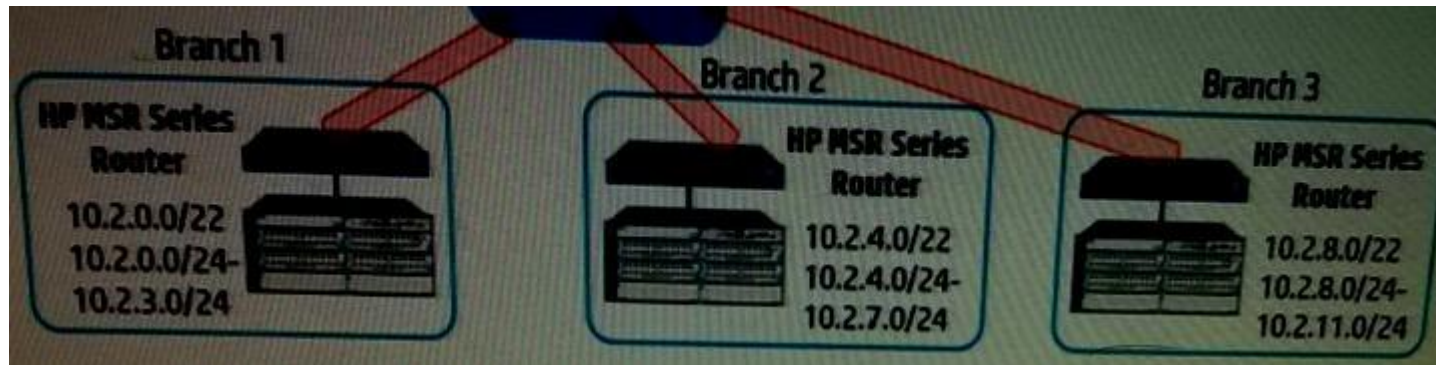D. Raise the OSPF times on the VLAN interfaces.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 116

A company has several branch offers, 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 end points
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 117
A network architect is using the Network Traffic Analyzer (NTA) module for HP Intelligent Management Center (MC) to evaluate traffic patterns in a campus LAN environment. The network architect hopes to use this information to determine whether the current oversubscription is working well or whether the new plan to have less oversubscription.

What will provide the most useful information for this decision?

A. The peak utilization on uplinks
B. The sum of the average utilization on user edge ports
C. The peak utilization on randomly-selected user edge ports
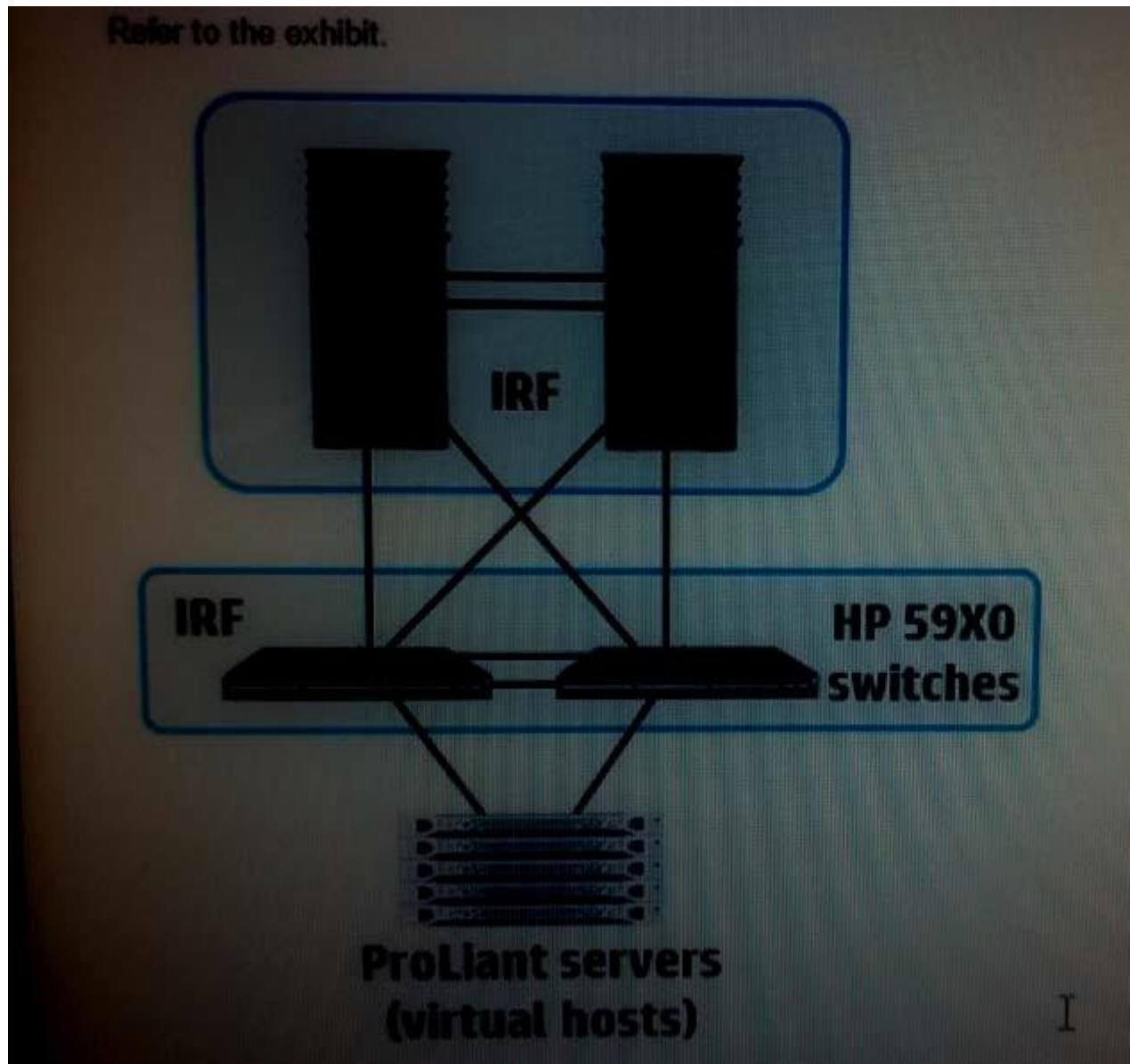D. The average utilization on uplinks

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 118

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, Virtua 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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 119
A network architect is planning a backplane stack with four HP 3800 switches. Which topology provides the highest level of redundancy?

A. Star
B. Mesh
C. Chain
D. Ring

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference: http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA4-4874ENW.pdf

QUESTION 120

The customer wants to assign users to VLANs dynamically based on their Windows group. The company Windows Network Policy server provides the assignments. Each of the Windows groups includes between 100 to 600 users.

Which issue does the architect need to resolve?

A. The proposed dynamic VLANs have too many potential users for the proposed subnets.
B. The plan for the edge ports is incorrect they should be trunk ports that support multiple VLANs.
C. The switch-to-switch links should not carry so many VLANs.
D. The proposed switches do not accept dynamic VLAN assignments from Windows NPS servers.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 121
When does an architect need to plan fast roaming for the wireless solution?

A. When wireless devices use 802.11n and their WLAN enforces WEP or WPA encryption
B. When wireless devices use voice and real-time applications, and their WLAN enforces WEP or WPA encryption
C. When wireless devices use 802 11n and associate with APs that support both 24 GHz and 5GHz with band steering
D. When wireless devices use voice and real-time applications, and their WLAN enforces Wi-Fi Protected Access (WPA)

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 122
The customer has a virtualized data center. The virtual hosts use virtual distributed switches with multiple redundant uplinks and these update control Protocol (LACP).

Which technology available in HP switches enhances high availability in this environment?

A. Fiber Channel over Ethernet (FCoE) allows the virtual host to send storage traffic over the server Ethernet uplinks if the FC connection.
B. Virtual Ethernet Port Aggregator (VEPA) combines redundant server talks into a single high- bandwidth trunk.

C. Intelligent Resilient Framework (IRF) allows redundant server links to connect to different physical switches.
D. Net Stream and sFlow technologies provide the built-in capability to optimize bandwidth flows dynamically.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 123
The exhibit shows the topology for an enterprise customer LAN with an on-site data center. The Intelligent Resilient Framework (IRF) group switches supports a group of computers that very high availability to the data center. Therefore the customer has requested a backup that extends directly between the IRF group and the data center core. All of the VLAN interfaces and routed link aggregations that are shown implement Open Shortest Path First (OSPF) in a single area.

Which tasks should the network architect complete to ensure that the HP 5500 IRF group selects the correct path to the data center during (Select two).

A. Change the reference bandwidth to 80000 on all routing devices.
B. Configure the VLAN 101 interfaces as silent interfaces.
C. Change the reference bandwidth on the VLAN 101 interfaces to 1000.
D. Set the cost on the VLAN 100 interfaces to 2Set the cost for the VLAN 101 interfaces to 80.
E. Change the reference bandwidth on the VLAN 100 interfaces to 20000.

Correct Answer: CE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 124
After analyzing a hospital's applications, the network architect identifies two life-critical applications. What is the availability requirement for a life-critical application?

A. 99%
B. 99.9%
C. 99.99%
D. 99.999%

Correct Answer: D
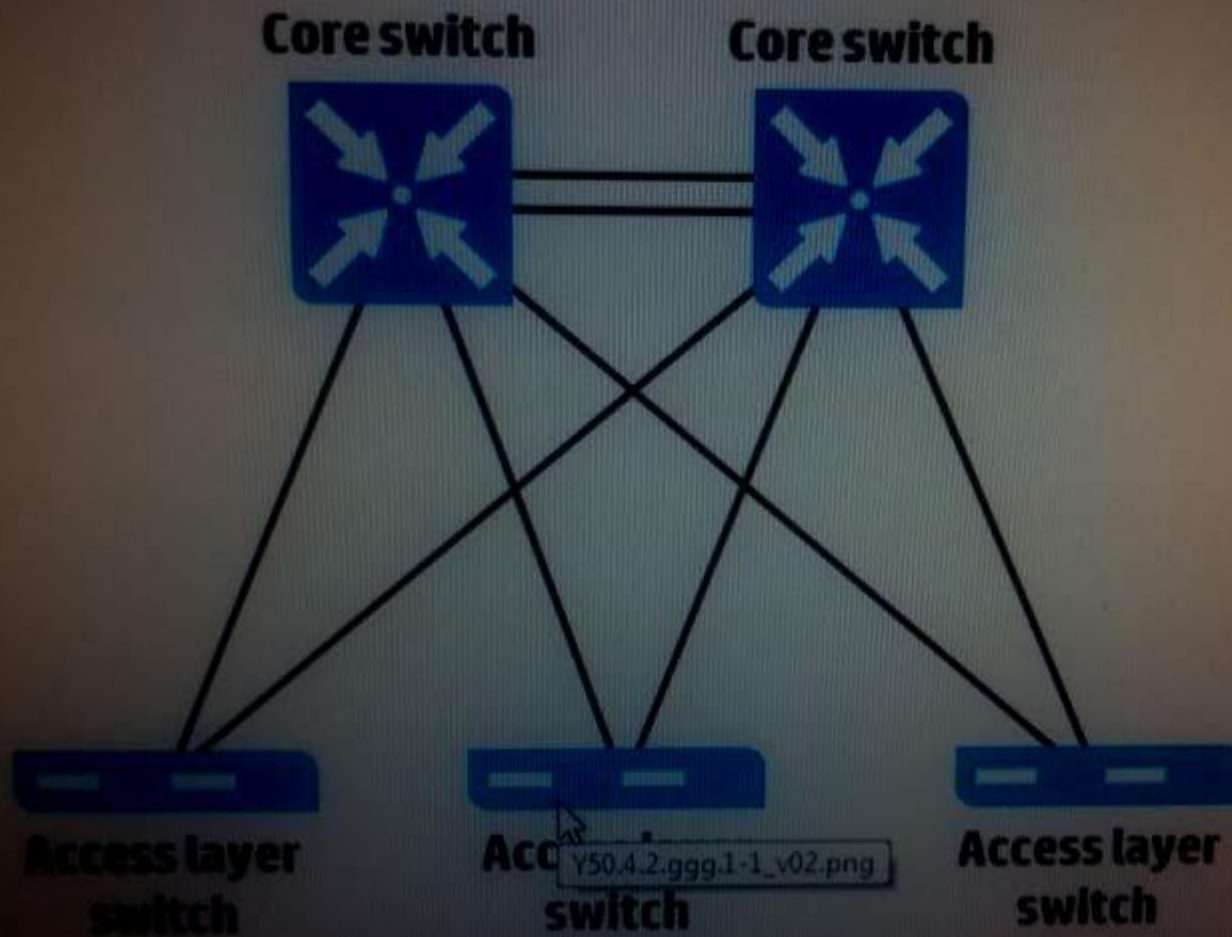**Section: (none)**
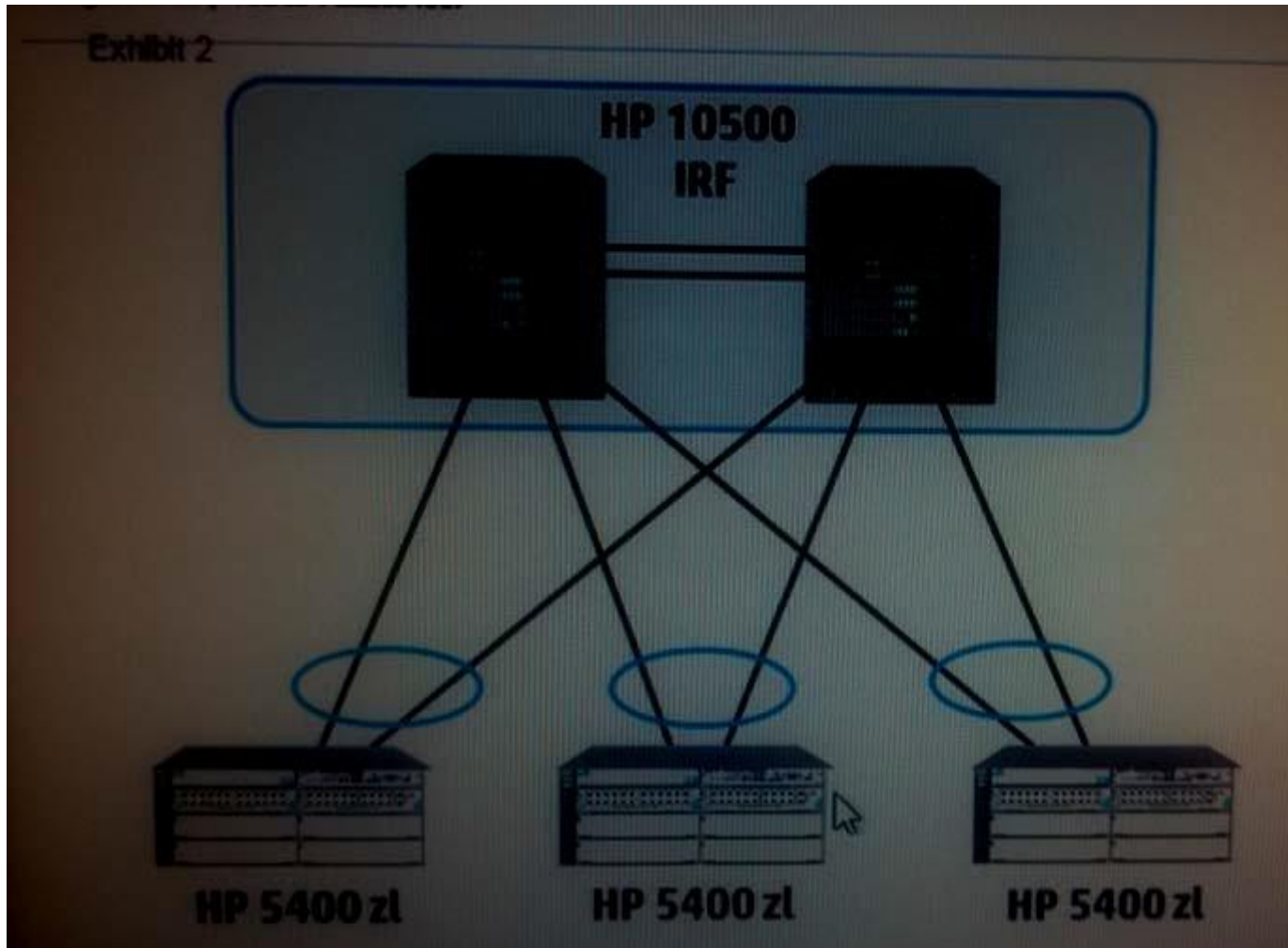**Explanation**

Explanation/Reference:

QUESTION 125

Exhibit 1

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Exhibit 2

A customer has an existing solution, which is shown in Exhibit 1. (The solution actually includes more access layer switches than shown.) In the existing solution, each access layer switch routes traffic.

A network architect is proposing the HP Flex Campus solution shown in Exhibit 2. In this proposed solution, the core Intelligent Resilient Framework (IRF) virtual switch routes traffic but the access layer switches do not. The customer links that in the existing solution if an access layer uplink fails, failover occurs in less than a second.

The customer also likes that the existing solution does not require Virtual Router Redundancy Protocol (VRRP).

What should the architect tell the customer about the benefits of the proposed solution?

A. Although the solution offers slower failover for the access layer uplinks, it is simpler and eliminates VRRP.
B. STP eliminates the loops on the access layer uplinks and handles failover for them, which speeds convergence.
C. Failover for an access layer uplink occurs in milliseconds, and router redundancy does not require VRRP.
D. IRF handles loop elimination and link failover, which lets VRRP handle router redundancy more efficiently.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 126
An architect is planning an HP Wired-WLAN solution for an office with approximately 4000 users who will use the wireless network rather heavily and who need to roam seamlessly. The solution will have 256 MSM 460 APs. What is one reason for using two HP Wired-WLAN controllers for this solution?

A. Each Wired-WLAN controller can only support 2000 users.
B. The customer needs fast roaming, which requires a mobility solution between two controllers.
C. Forwarding traffic trough two controllers can prevent a bottleneck due to heavy usage.
D. Each Wired-WLAN controller can only support 128APs.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 127
An architect needs to plan a solution that meets customer authentication requirements. Match each authentication method to the appropriate description.

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

Require users to authenticate to the network by using a browser [▼]

Requires users to authenticate to the network by using a supplicant [▼]

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

Section: (none)
Explanation

Explanation/Reference:

QUESTION 128
A network is choosing transceivers for switch-to-switch fiber links. Which factor affects the architect's choice?

The need for redundancy

The type of fiber between switches

The number of available strands

The desired speed for the link

Hot Area:

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

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

Section: (none)
Explanation

Explanation/Reference:

QUESTION 129
Match the customer need with the HP FlexFabric technology that meets the need.

Insight into VM-to-VM traffic and control over VM connectivity [▾]

Layer 2 connectivity between a data center and a disaster recovery data center [▾]

Complete isolation between department or tenants [▾]

Hot Area:

Insight into VM-to-VM traffic and control over VM connectivity [▼]

> HP Ethernet Virtual Interconnect (EVI)
>
> HP Multi-Device Context (MDC)
>
> Edge Virtual Bridging (EVB)/Virtual Ethernet Port Aggregation (VEPA)

Layer 2 connectivity between a data center and a disaster recovery data center [▼]

> HP Ethernet Virtual Interconnect (EVI)
>
> HP Multi-Device Context (MDC)
>
> Edge Virtual Bridging (EVB)/Virtual Ethernet Port Aggregation (VEPA)

Complete isolation between department or tenants [▼]

> HP Ethernet Virtual Interconnect (EVI)
>
> HP Multi-Device Context (MDC)
>
> Edge Virtual Bridging (EVB)/Virtual Ethernet Port Aggregation (VEPA)

Correct Answer:

Insight into VM-to-VM traffic and control over VM connectivity

HP Ethernet Virtual Interconnect (EVI)

HP Multi-Device Context (MDC)

Edge Virtual Bridging (EVB)/Virtual Ethernet Port Aggregation (VEPA)

Layer 2 connectivity between a data center and a disaster recovery data center

HP Ethernet Virtual Interconnect (EVI)

HP Multi-Device Context (MDC)

Edge Virtual Bridging (EVB)/Virtual Ethernet Port Aggregation (VEPA)

Complete isolation between department or tenants

HP Ethernet Virtual Interconnect (EVI)

HP Multi-Device Context (MDC)

Edge Virtual Bridging (EVB)/Virtual Ethernet Port Aggregation (VEPA)

Section: (none)
Explanation

Explanation/Reference:

QUESTION 130

What must a network administrator define on an HP Comware switch in order to implement username and passwords to protect access to the CLI?

A. Authentication scheme

B. Privilege levels

C. Local authentication

D. Super passwords

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Authentication fallback
If all authentication servers are unavailable, local authentication can be used.
Local authentication can use the password control function to secure user passwords. Reference: https://h20565.www2.hp.com/portal/site/hpsc/
template.BINARYPORTLET/public/kb/docDisplay/resource.process/?
spf_p.tpst=kbDocDisplay_ws_BI&spf_p.rid_kbDocDisplay=docDisplayResURL&javax.portlet.begCacheTok=com.vignette.cachetoken&spf_p.rst_kbDoc
Display=wsrp-resourceState%3DdocId%253Demr_na-c03536920-4%257CdocLocale%
253Den_US&javax.portlet.endCacheTok=com.vignette.cachetoken

QUESTION 131
Why does HPrecommended using SSH instead of Telnet for remote device management?

A. SSH connections are established almost five times faster.

B. SSH encrypts the data you exchange with the switch.

C. SSH must be enabled for TFTP file transfers.

D. SSH provides a graphical shell for GUI management.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 132
Which wireless technology is limited to operate in a frequency range with only three non-overlapping channels?

A. 802.1a

B. 802.1x

C. 802.1ad

D. 802.11g

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
802.11b (and 802.11g) networks offer 11 channels, but only three channels (1,6, and 11) do not overlap with each other. In a large-scale building or campus-wide installation, the ability to use only three channels can reduce real-world throughput and make avoiding interference from other 802.11b or 802.11g-based wireless networks difficult.

QUESTION 133
Which technology does the HP Virtual Connect support?

A. InfiniBand connection to server backplane

B. Fibre Channel over Ethernet (FCoE) V

C. Distributed trunking

D. Intelligent Resilient Framework (IRF)

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Virtual Connect interconnect modules provide the following capabilities:

• Reduces the number of cables required for an enclosure, compared to using pass-thru modules.
• Reduces the number of edge switches that LAN and SAN administrators must manage.
• Allows pre-provisioning of the network, so server administrators can add, replace, or upgrade servers without requiring immediate involvement from the LAN or SAN administrators.
• Enables a flatter, less hierarchical network, which reduces equipment and administration costs, reduces latency, and improves performance.
• Delivers direct server-to-server connectivity within the BladeSystem enclosure. This is an ideal way to optimize for east/west traffic flow, which is becoming more prevalent at the server edge with the growth of server virtualization, cloud computing, and distributed applications.
• Provides direct-attach SAN and dual-hop Fibre Channel over Ethernet (FCoE) capabilities to extend cost benefits further into the storage network.

Reference: http://h20195.www2.hp.com/V2/GetPDF.aspx%2F4AA4-8174ENW.pdf

QUESTION 134
Refer to the exhibit.

Exhibit Comware switch output.

[Comware] display link-aggregation verbose bridge-aggregation 1

<- output omitted ->

Local:

Port	Status	Priority	Oper-key	Flag
GE1/0/3	U	32768	2	(AG)
GE1/0/4	U	32768	2	(AG)

Remote
<- output omitted ->

A network administrator has implemented link aggregation on an HP Comwareswitch using LACP. Assume the two ports are functioning at the data link layer between the Comware switch neighboring switch. The network administrator execution display link-aggregation verbose command and notices the flag of AG for the two links. As shown in the exhibit.

What does this indicate?

A. The link is marked as a backup because there are already eight active links in the aggregation
B. The link is up, but LACP failed the negotiation on the port
C. The link is down
D. The link is up, but LACP has been disabled on the port.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Port Status: S -- Selected, U -- Unselected
Flags: A -- LACP_Activity, B -- LACP_Timeout, C -- Aggregation,
D -- Synchronization, E -- Collecting, F -- Distributing,
G -- Defaulted, H -- Expired

The flag is a one-octet LACP state flags field. From the least to the most significant bit, they are represented by A through H as follows:

▪ A indicates whether LACP is enabled. 1 for enabled and 0 for disabled.   B indicates the timeout control value. 1 for short timeout, and 0 for long timeout.

- C indicates whether the link is considered as aggregatable by the sending system. 1 for true, and 0 for false.
- D indicates whether the link is considered as synchronized by the sending system. 1 for true, and 0 for false.
- E indicates whether the sending system considers that collection of incoming frames is enabled on the link. 1 for true and 0 for false.
- F indicates whether the sending system considers that distribution of outgoing frames is enabled on the link. 1 for true and 0 for false.
- G indicates whether the receive state machine of the sending system is using default operational partner information. 1 for true and 0 for false.
- H indicates whether the receive state machine of the sending system is in the expired state. 1 for true and 0 for false.

QUESTION 135
Refer to the exhibit.

Exhibit Switch configuration

```
[Comware] interface bridge-aggregation 1
[Comware-Bridge-Aggregation1] link-aggregation mode dynamic
[Comware-Bridge-Aggregation] quit
[Comware] interface g1/0/1
[Comware-GigabitEthernet1/0/1] port link-aggregation group 1
[Comware-GigabitEthernet1/0/1] quit
[Comware] interface g1/0/2
[Comware-GigabitEthernet1/0/2] port link-aggregation group 1
[Comware-GigabitEthernet1/0/2] quit
[Comware] interface bridge-aggregation 1
[ComwareBridge-Aggregation1] port link-type trunk
[Comware-Bridge-Aggregation] port trunk permit vlan 100 200
```

```
ProVision (config) # A1-A2 trk1 trunk
ProVision (config) # vlan untagged trk1
ProVision (config) # vlan 100 tagged trk1
ProVision (config) # vlan tagged trk1
```

A network administrator is configuring an aggregated link between an HPComware and ProVision switch. The network administrator applies the configurations to the switches, as shown in the exhibit. The two links on the both switches are up, and they can see each other on both links in the local LLDP table.

What will be the outcome?

A. The ProVision switch must initiate LACP for the link become active
B. Link aggregation fails because the VLAN tagging was not configured correctly
C. The Commware switch must initiate LACP for the link to become active

D. Link aggregation fails because of a protocol issue

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Corrected.

QUESTION 136
When LLDP is enabled, which value is presented by default as the LLDP Chassis ID on both ProVision and Comware switches?

A. Router ID
B. System Name
C. IP address
D. MAC address

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Please see the explanation below:

```
<Sysname> display lldp local-information
Global LLDP local-information:
  Chassis ID      : 00e0-fc00-5600
  System name     : Sysname
  System description  : H3C Comware Software. H3C S12508 Product Version S12500-C
                 MW710-B01BBIT25. Copyright (c) 2004-2011 Hangzhou H3C Tec
                 h. Co., Ltd. All rights reserved.
  System capabilities supported  : Bridge, Router
  System capabilities enabled    : Bridge, Router

MED information:
  Device class          : Connectivity device
  MED inventory information of master board:
  HardwareRev          : REV.A
  FirmwareRev          : 109
  SoftwareRev          : 5.20 Alpha 2101
  SerialNum            : NONE
  Manufacturer name        : H3C
  Model name          : H3C Comware
  Asset tracking identifier  : Unknown
```

Table 1 Command output

Field	Description
Global LLDP local-information	Global LLDP information to be sent.
Chassis ID	Bridge MAC address of the device.

Reference:
http://www.h3c.com/portal/Technical_Support___Documents/Technical_Documents/Switches/H3C_S12500_Series_Switches/Command/Command/
H3C_S12500_CR-Release7128-6W710/04/201301/772500_1285_0.htm

QUESTION 137

What is the default payload size for an 802.3 Ethernet frame on HP switches?

A. 1500 bytes
B. 1518 bytes
C. 1522 bytes
D. 9022 bytes

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 138
Two OSPF routers are on a segment, and both of their interfaces become active. What is the initial OSPF state after an adjacency has formed?

A. Established
B. Exstart
C. Two-way
D. Full

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 139
A network administrator executes these commands on an HP Comware switch:

[Comware] super password level 1 simple hp1
[Comware] super password level 2 simple hp2
[Comware] super password level 3 simple hp3
[Comware] quit
<Comware>

The network administrator then executes this command to test the configuration:

<Comware> super 0

What is the outcome of the configuration?

A. The network administrator is immediately placed into Monitor view.
B. Access is denied because no level 0 password has been defined.
C. A password of hp0 must be entered to access the view.
D. The network administrator is immediately placed into visitor view.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 140
A network administrator has just completed the initial configuration of an HP Comware switch. The network administrator saved the configuration to flash but wants to ensure that is backed up remotely to a TFTP server in case the switch fails. The TFTP server has an IP address of 10.1.100.1.

Which command must the network administrator execute to back up the current configuration of the switch?

A. Copy startup-configuration tftp://10.1.100.1
B. Backup active-configuration to 10.1.100.1
C. Copy config startup-configuration tftp 10.1.100.1
D. Backup startup-configuration to 10.1.100.1

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 141
Which term refers to aggregated links on HP ProVision switches?

A. Meshing
B. NIC teaming
C. EtherChannel
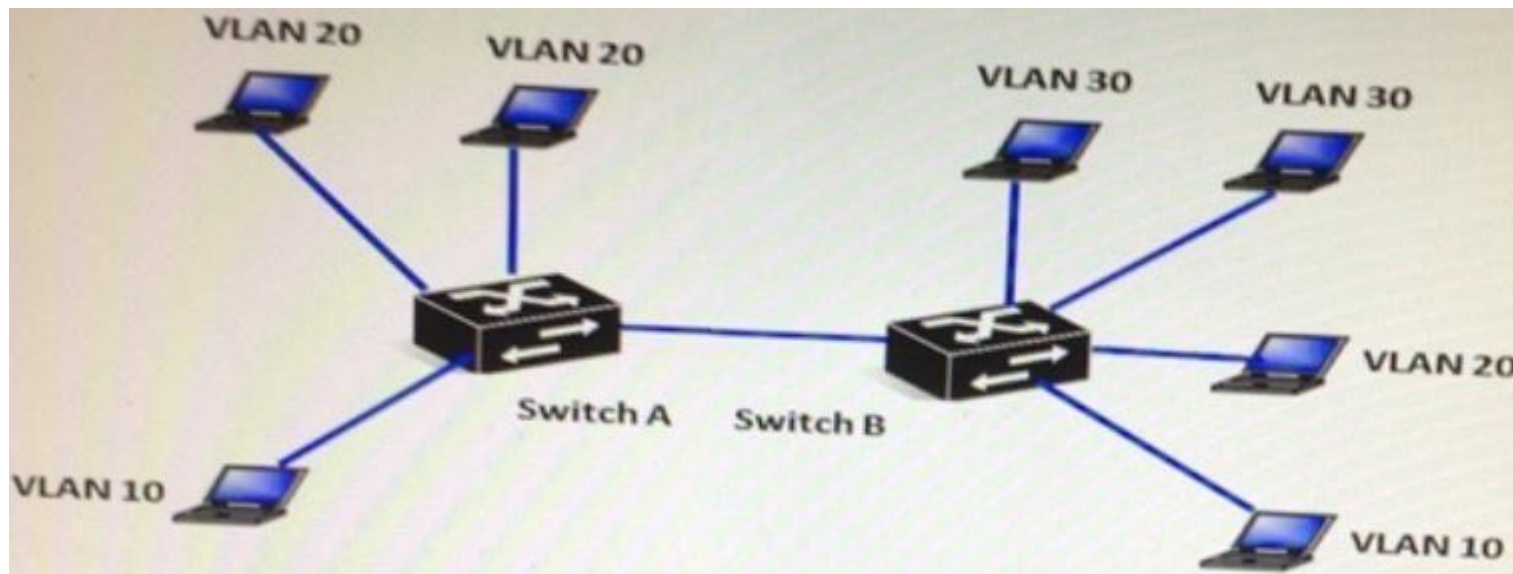D. Trunking

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 142
Refer to the exhibit.

Exhibit: Network topology

The network consists of two IP ProVision Switches with routing disabled. How should the network administrator configure the link between Switch A and Switch B to ensure all hosts can communicate to all the other hosts within their respective VLANs?

A. Tagged for VLAN 20 and tagged for VLAN 30
B. Tagged for VLAN 10 and tagged for VLAN20
C. Untagged for VLAN 10 and tagged for VLAN 30
D. Untagged for VLAN 10 untagged for VLAN 20, and tagged for VLAN 30

Correct Answer: B
Section: (none)

Explanation

Explanation/Reference:

QUESTION 143
A company has purchased Intelligent Management Center (IMC) and wants to centralize AAA policies for the HP switches on the IMC server. Which protocol should the company use for the interaction between the IMC server and the HP switches?

A. LACP
B. LLDP
C. SNMP
D. RADIUS

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 144
Which HP Intelligent Management Center (IMC) component would a network administrator check to verify the installation of IMC or an add-on module?

A. Deployment Monitoring Agent
B. Deployment Analyzer
C. Service Manager
D. Process Manager

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 145
A network administrator has purchased the first HP Comware for a company. The network administrator has never used the CLI of a Comware device before and needs to perform specific management functions. Which action requires the network administrators to be in user view to execute from the Comware switch?

A. Verify connectivity with transactions or ping tools
B. Verify files located in flash memory
C. Execute the display commands
D. Create a VLAN and assign ports to it.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 146
Refer to the exhibit.

Exhibit: HP ProVision command output

```
ProVision # show ip route static

                      IP Route Entries

Destination          Gateway   VLAN     Type   Sub-Type   Metric   Dist.
-------------------------------------------------------------------------
10.10.20.177/32      reject             static              1        1
10.10.40.0/24        VLAN10    10       static              1        1
10.10.50.128/27      VLAN10    10       static              1        1
10.11.30.0/24        blackhole          static              1        1
127.0.0.0/8          reject             static              0        0
```

What does the term blackhole mean for the 10.11.30.0/24 route?

A. The switch will drop all traffic sourced from 10.11.30.0/24 and will send an ICMP message to the source.
B. The switch will drop all traffic sourced from 10.11.30.0/24 and will not send an ICMP message to the source.
C. The switch will drop all traffic destined to 10.11.30.0/24 and will not send an ICMP message to the source.
D. The switch will drop all traffic destined to 10.11.30.0/24 and will send an ICMP message to the source.

Correct Answer: C
Section: (none)

Explanation

Explanation/Reference:

QUESTION 147
Which parameter is enabled by default on an HP Commware switch, but disabled by default on an HP ProVision switch?

A. Routing
B. SSH
C. Telnet
D. DHCP client in VLAN1

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference: