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

Antworten verstecken/Erklärung

Richtige Antwort: C

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

Antworten verstecken/Erklärung

Richtige Antwort: C

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

Antworten verstecken/Erklärung

Richtige Antwort: C

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

Antworten verstecken/Erklärung

Richtige Antwort: C

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

Antworten verstecken/Erklärung

Richtige Antwort: D

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

Antworten verstecken/Erklärung

Richtige Antwort: D

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)

Antworten verstecken/Erklärung

Richtige Antwort: A

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)

Antworten verstecken/Erklärung

Richtige Antwort: C