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Passing Score: 800
Time Limit: 120 min
File Version: 3.1

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Exam Name: Building HPE SDN and FlexNetwork Solutions
Certification Provider: HP
Corresponding Certification: HPE Master ASE - FlexNetwork Solutions V2
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QUESTION 1
A network administrator is planning a flow table entry that provides fast failover for the traffic flow in case a link fails. Which key element would the flow entry contain?

A. a group identifier that specifies at least two output ports
B. a backup set action that modifies the packet and sends it to the controller
C. a forward action to the reserved port NEAREST_ACTIVE
D. a go-to-table action that sends traffic to another table if the port is down

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
The FAST-FAILOVER group is designed specifically to detect and overcome port failures.
The FAST-FAILOVER (FF) group. A FF group is designed to detect and respond to port failures. Each bucket has a watch port/group as a special parameter, which monitors the liveness of that port or group being watched. Only one bucket is used at a time, and the bucket will only be changed if the watch port/ group of the bucket transitions from up to down. Upon such an event, another bucket will be chosen whose watch port/group indicates the link is up.
References:
https://floodlight.atlassian.net/wiki/display/floodlightcontroller/How+to+Work+with+Fast-Failover+OpenFlow+G roups

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QUESTION 2
An HP switch is controlled by an HP VAN SDN Controller. An SDN application attempts to create a flow entry that forwards traffic out Port 2 on this HP switch. However, the switch does not forward any traffic out this port. The exhibit shows the status for ports on that switch.

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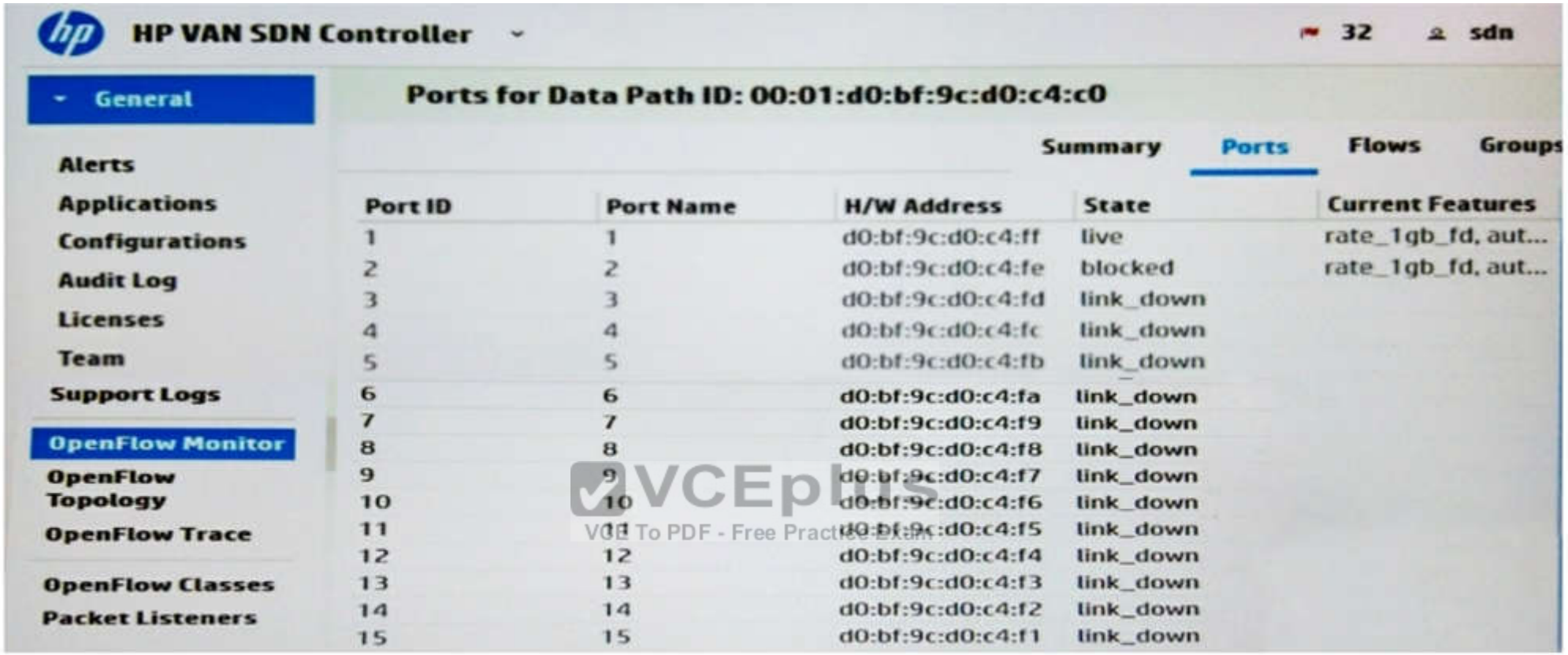

Based on the information shown in the exhibit, why does the switch not forward the traffic?

A. Port 2 is part of a link aggregation with Port 1
B. Port 2 is down.
C. Port 2 is placed in the discarding state by spanning tree.
D. Port 2 does not support a VLAN on which OpenFlow is enabled

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

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QUESTION 3
Refer to the exhibit.

```
[Switch1-Vfc2] display this
#
 port trunk vsan 10
 bind interface Ten-GigabitEthernet1/0/2
#
[Switch1-Ten-GigabitEthernet1/0/5]display this
#
 port link-mode bridge
#
[Switch1-vlan101]display this
#
 fcoe enable vsan 10
#
```

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The network administrator is configuring interface Ten-GigabitEthernet 1/0/2 to receive FCoE traffic from the connected server. The administrator has created VSAN 10, which is associated with VLAN 101.
What else must the administrator do to complete the configuration?

A. Assign VLAN 101 as the PVID for interface Ten-GigabitEthernet 1/0/2.
B. Change interface Ten-GigabitEthernet 1 /0/2 to a hybrid port;assign VLANs 10 and 101 as untagged VLANs.
C. Change interface Ten-GigabitEthernet 1/0/2 to a trunk port and permit VLAN 101.
D. Change interface Ten-GigabitEthernet 1 /0/2 to a hybrid port;assign VLAN 10 as a tagged VLAN and VLAN 101 as an untagged VLAN.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:
References:
http://h10032.www1.hp.com/cta/Manual/c036551 0 (Page: 17-18)

QUESTION 4

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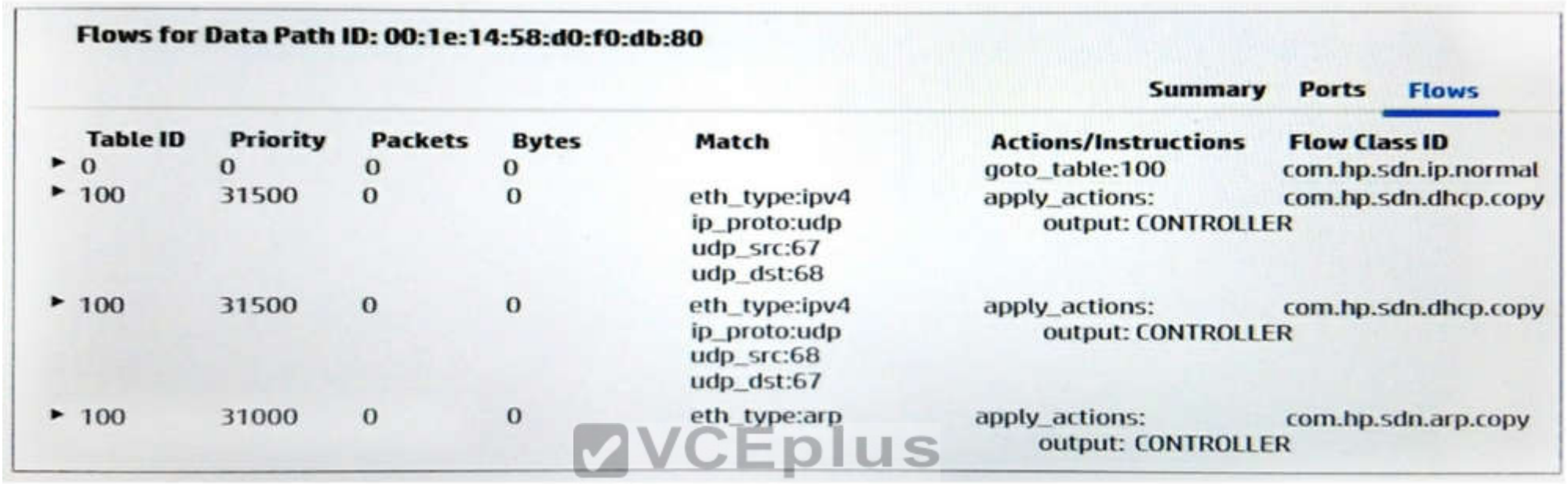
Refer to the exhibit



The exhibit shows the four OpenFlow table entries for an HP Provision switch that is controlled by an HP VAN SDN Controller. The switch uses active mode for the OpenFlow instance.
The network administrator wants the switch to have this behavior:
The current entries have an error. How should the administrator change these entries to resolve the error?

A. Remove the entry for table 0.
B. Give each entry its own unique priority value.
C. Change the table ID for the entry that matches "eth_type: arp“ to 200.
D. Add a table miss entry that outputs traffic normally.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 5
Refer to the exhibit.

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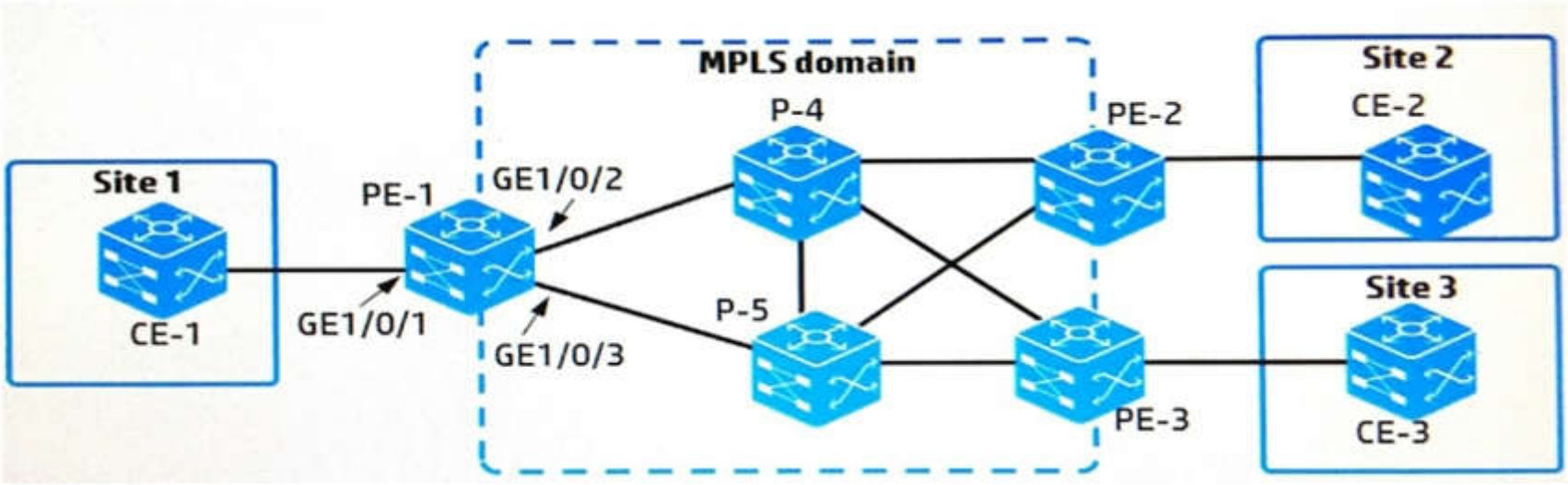

A network administrator is planning an MPLS and VPLS Martini solution to connect customer sites 1,2, and 3. How many pseudowires must the administrator configure?

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A. two; two on PE-1, with one connected to PE-2 and PE-3
B. one; one on PE-1, connected to both PE-2 and PE-3
C. four; two on PE-1, one on PE-2, and one on PE-3
D. six; two each on PE-1, PE-2, and PE-3

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 6
DRAG DROP
Evaluate each scenario for multi-tenant isolation, and match the scenario to the technology that best meets its needs

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Scenario	Technology
MAC table isolation	SPBM
Routing table isolation	MDC
Hardware isolation	MCE

A.

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Scenario	Technology
MAC table isolation	SPBM
Routing table isolation	MCE
Hardware isolation	MDC

Correct Answer: A
Section: (none)
Explanation

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Explanation/Reference:
Explanation:
Technologies that support multi-tenant solutions include MDC, MCE, and SPBM.
Box 1:SPBM
Over 16 million customers can each have a separate set of 4094 VLANs.
Box 2: MCE
MCE aka VRF, a single physical router can host multiple virtual routers, with separate routing tables and data planes for each customer. However, there's a single management plane, single admin.
Box 3: MDC
MDC creates virtual devices inside a physical device. Each client has isolated ASICs, admin login and configurations, control plane, and data plane.
References:
http://h20564.www2.hpe.com/hpsc/doc/public/display?docId=mmr_kc-0128497

QUESTION 7
Refer to the exhibits on the Exhibit 1 and Exhibit 2 tabs
Exhibit 1

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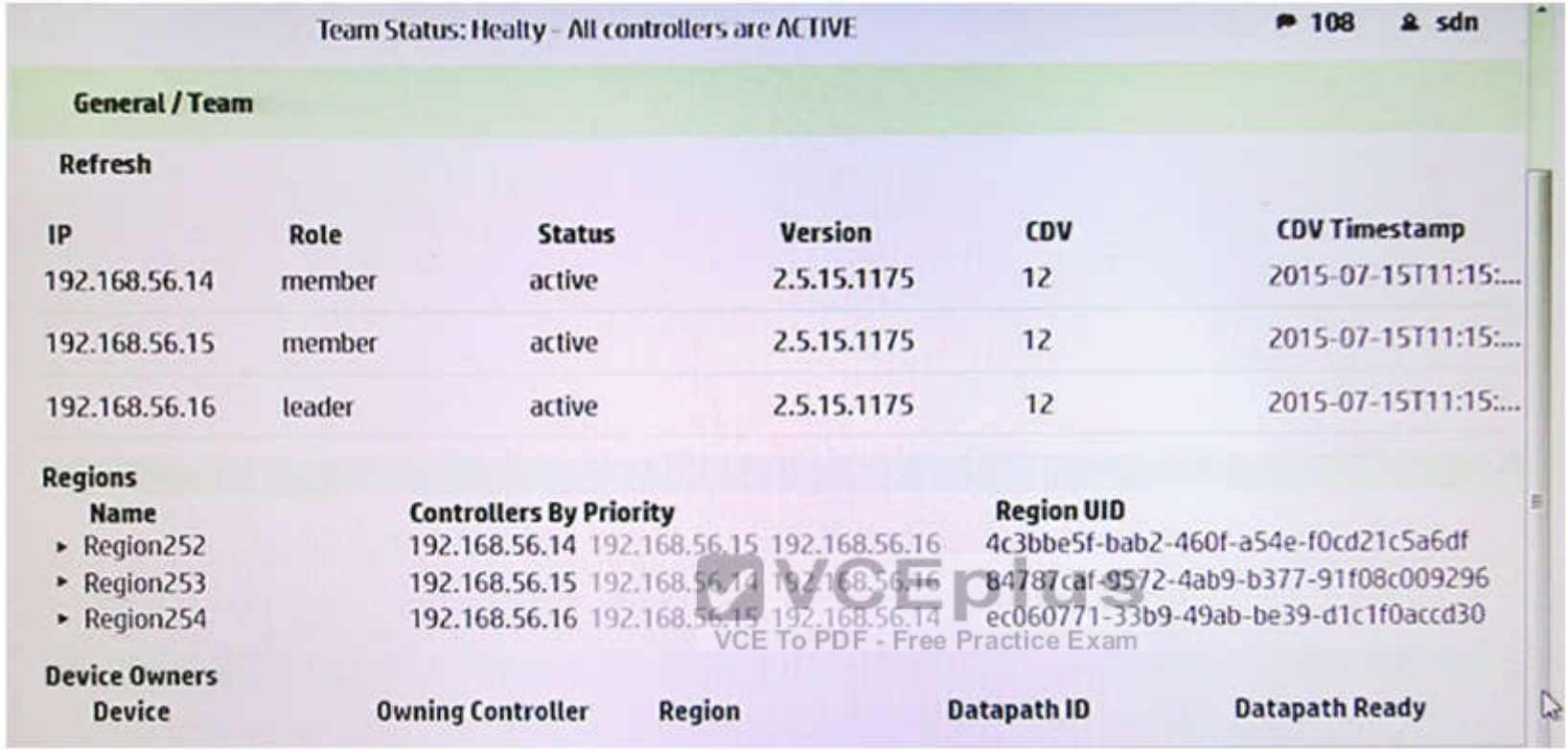

Exhibit 2

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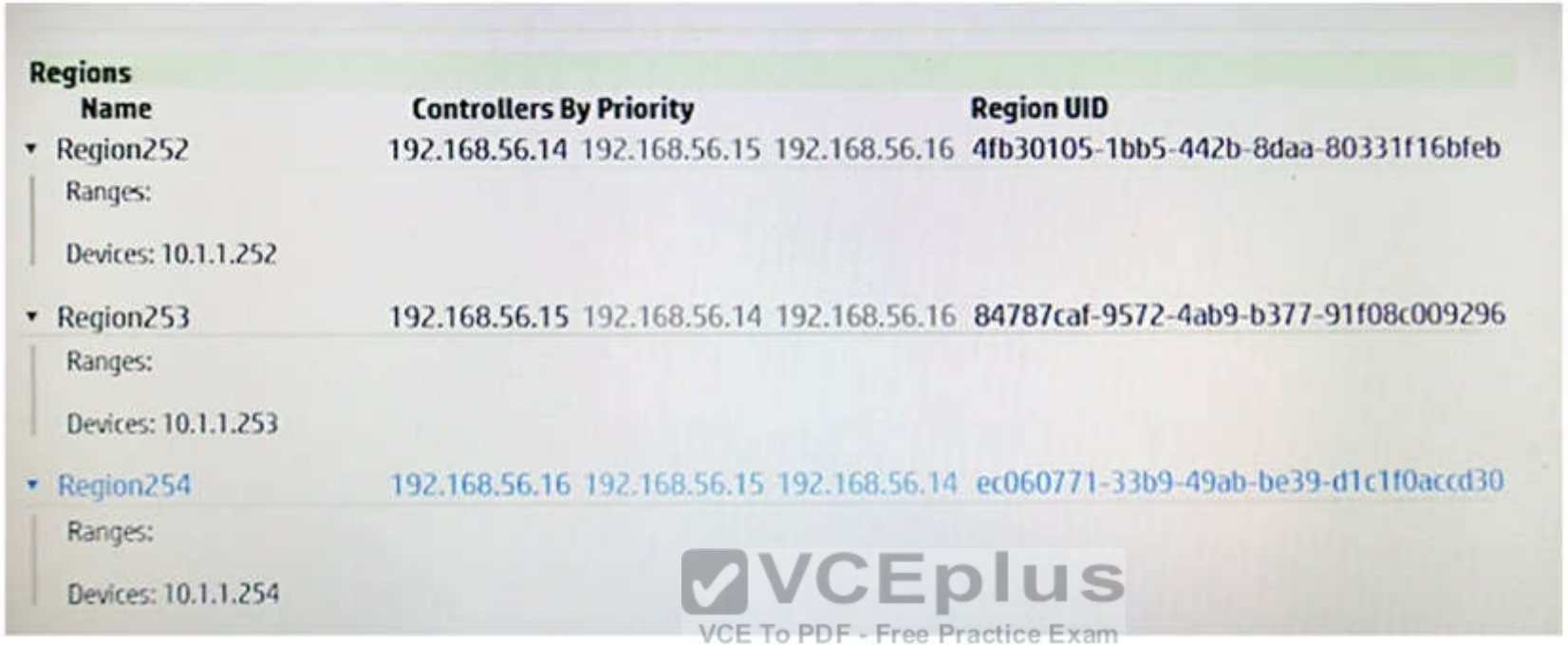

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A company has three HP VAN SDN Controllers deployed in a team with the settings shown in the exhibits. What is the correct OpenFlow controller configuration for the OpenFlow instance on the switch with IP address 10.1.1.252?

A. one controller with IP address 192.168.56.14
B. two controllers with IP addresses 192.168.56.14 and 192.168.56.16
C. one controller with IP address 192.168.56.16
D. three controllers with IP addresses 192.168.56.14,192.168.56.15, and 192.168.56.16
E. one controller with IP address 192.169.81.84

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:
A team requires one IP address for each controller, plus one IP address that represents the team as a whole.
Each network device must be configured to connect to the IP addresses of all the controllers in the team, but not to the team IP address.
References: HP VAN SDN Controller 2.5 Administrator Guide, page 105

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http://h20628.www2.hp.com/km-ext/kmcsdirect/emr_na-c04647289-8.pdf

QUESTION 8
A company requires secure, encrypted connections between OpenFlow-enabled switches and the HP VAN SDN Controller. What could the network administrator do to meet this requirement?

A. Configure TLS and certificates for the connection to the OpenFlow controller.
B. Configure the OpenFlow instance to use SSH and set up matching passwords on the switches and controller.
C. Configure fail secure mode on the OpenFlow instance.
D. Configure the controller connection on the switch out-of-band management (OOBM) port.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Openflow Controller TLS
The Openflow controller component relies on PKI to establish mutual trust (2-way SSL) between itself and the Openflow switches that it manages References: HP VAN SDN Controller Administrator Guide, page 45
http://h20565.www2.hpe.com/hpsc/doc/public/display?sp4ts.oid=5443866&docId=emr_na-c04003114&docLocale=en_US

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QUESTION 9
Refer to the exhibit.

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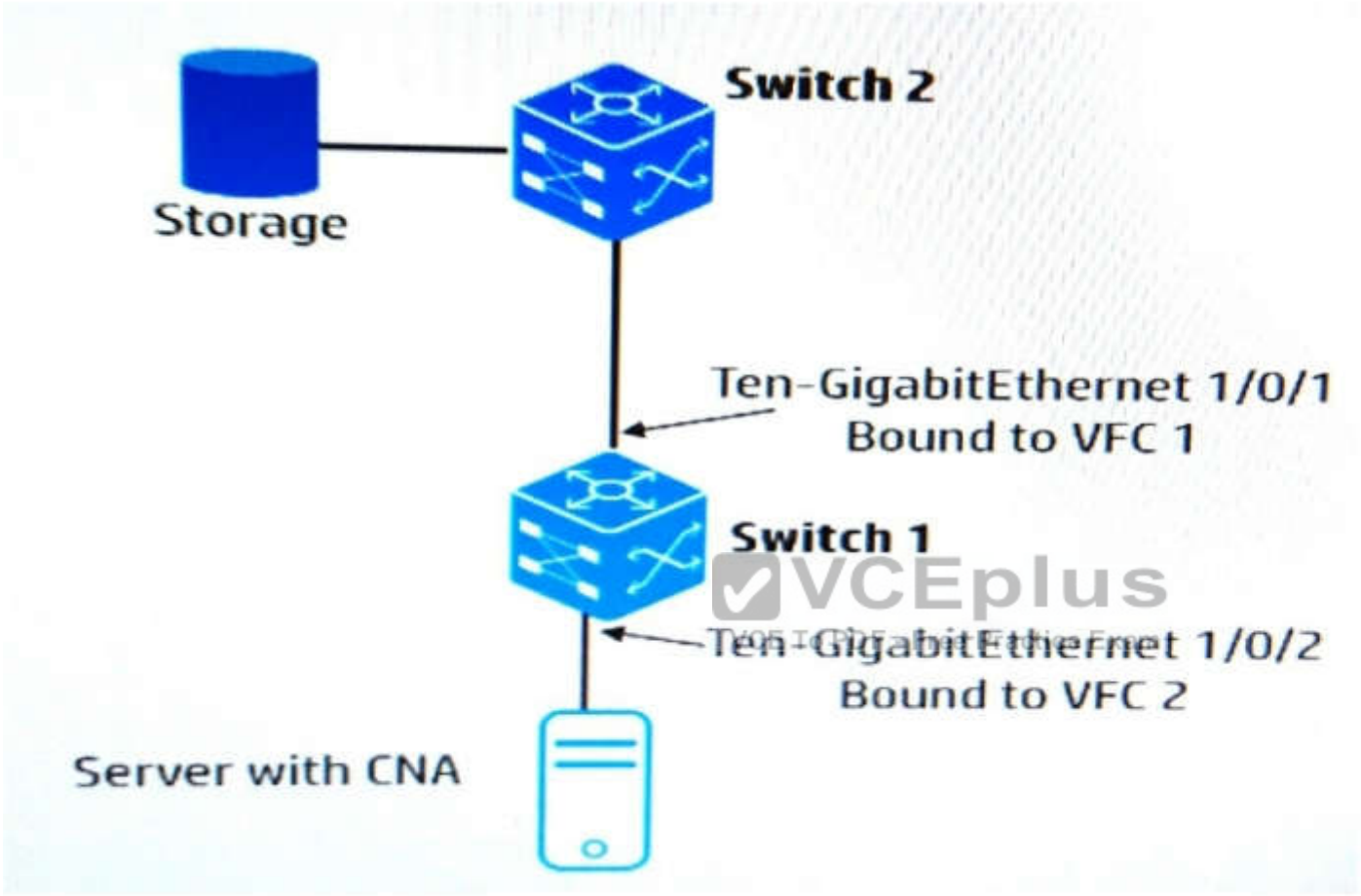

Switch 1 is operating in NPV mode, and Switch 2 is operating in FCP mode. Which Switch 1 interface should be set to "np" for the FC mode?

A. interface VFC 2
B. interface Ten-GigabitEthernet 1/0/2
C. interface Ten-GigabitEthernet 1/0/1
D. interface VFC 1

Correct Answer: D
Section: (none)

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Explanation

Explanation/Reference:
Explanation:
References: http://h 10032.wwwl .hp.com/ctq/Manual/cO3655100 Page: 8-9

QUESTION 10
Table of Acronvms

Table of Acronyms

EVI	Ethernet Virtual Interconnect
FCoE	Fibre Channel over Ethernet
L2VPN	Layer 2 Virtual Private Network
MCE	Multi-Customer CE
MDC	Multitenant Device Context
MPLS	Multiprotocol Label Switching
SPBM	Shortest Path Bridging MAC-in-MAC mode
TRILL	Transparent Interconnection of Lots of Links
VPLS	Virtual Private LAN Service
VPN	Virtual Private Network
LDP	Label Distribution protocol

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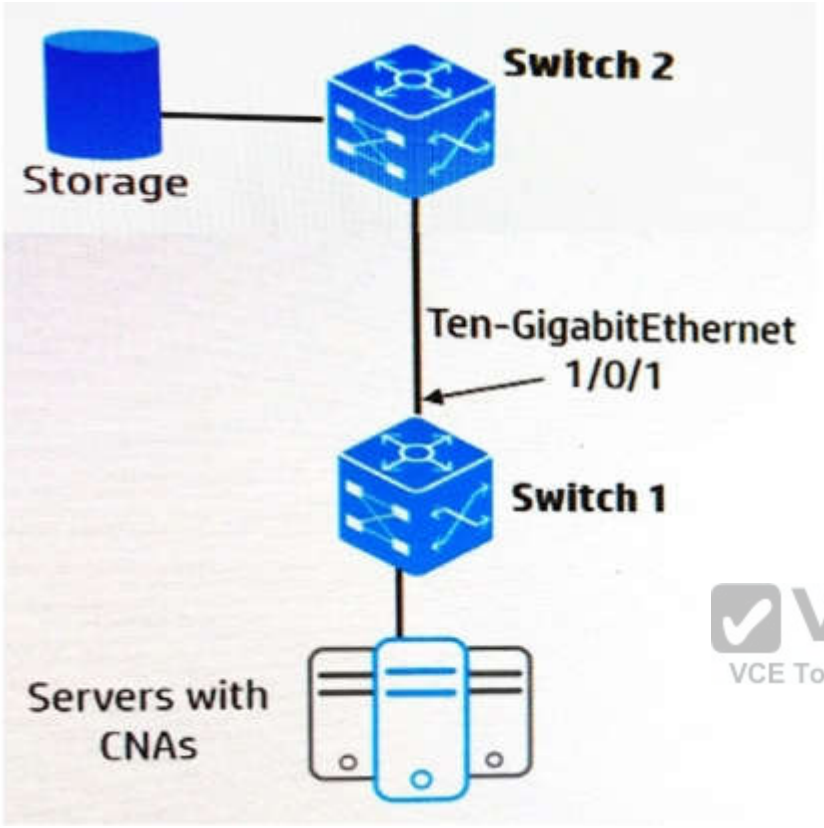

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The switches shown in the exhibit are HP Comware switches that support FCoE. The servers access the storage using FCoE. What should be configured on the Ten GigabitEthernet1/0/1 interface of Switch1?

A. a QoS policy for Enhanced Transmission Selection (ETS)
B. the LLDP TLVs for data center bridging extensions (DCBX)
C. priority flow control (PFC) in manual mode
D. the LLDP TLVs for Enhanced Transmission Selection (ETS)

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

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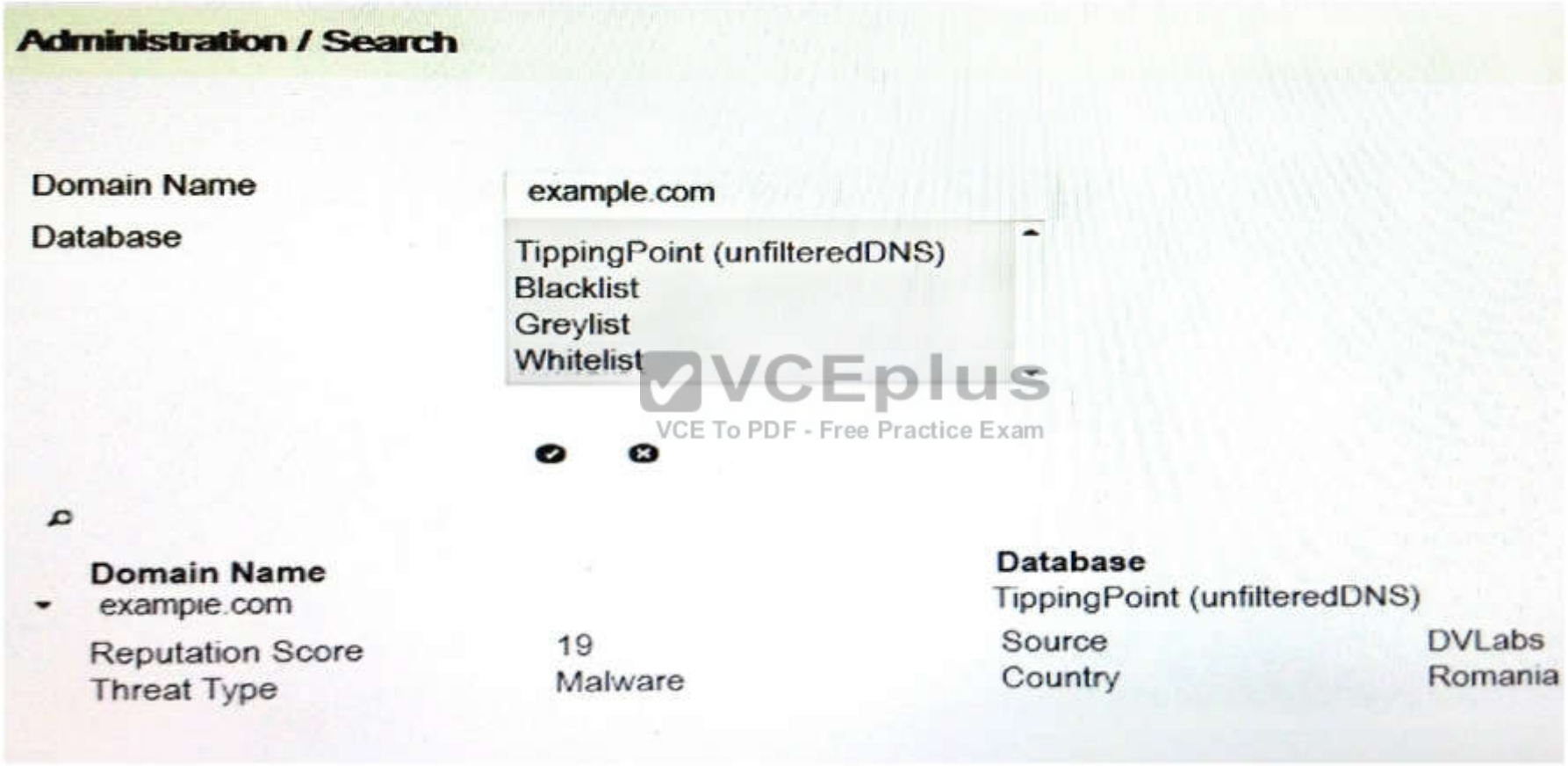
Explanation:
References:
http://h10032.wwwl.hp,com/ctQ/Manual/c04088668 Page:253

QUESTION 11
Refer to the exhibit



A company is using HP Network Protector SDN Application with the default RepDV filters. The rest of the configuration is at default. A network administrator wants to determine whether the HP Network Protector application will deny access to a web site.
The administrator searches for the domain name and receives the result shown in the exhibit. What can the administrator determine?

A. The application will not block access to the web site at any time or log any messages.

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B. The application will not block access to the web site at any time, but it will log attempts to access it.
C. The application will block access to the web site and log attempts to access it.
D. The application will block access to the web site during business hours but not at other times.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Here the Reputation Score is 19.
Note: Reputation score threat type
The reputation score acts as an important factor in determining whether to block the host.
Reputation Score Tags - a score between 1 and 100 with a score of 100 identifying the IP addresses or DNS names with the most malicious history.
Reputation scores:
• Minimal Risk (<=14)
• Unverified (15 to 29)
• Medium Risk (30 to 49)
• High Risk (> 49)
References: http://h20564.www2.hpe.com/hpsc/doc/public/display?docId=emr_na-c04626978

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QUESTION 12
Refer to the exhibit.

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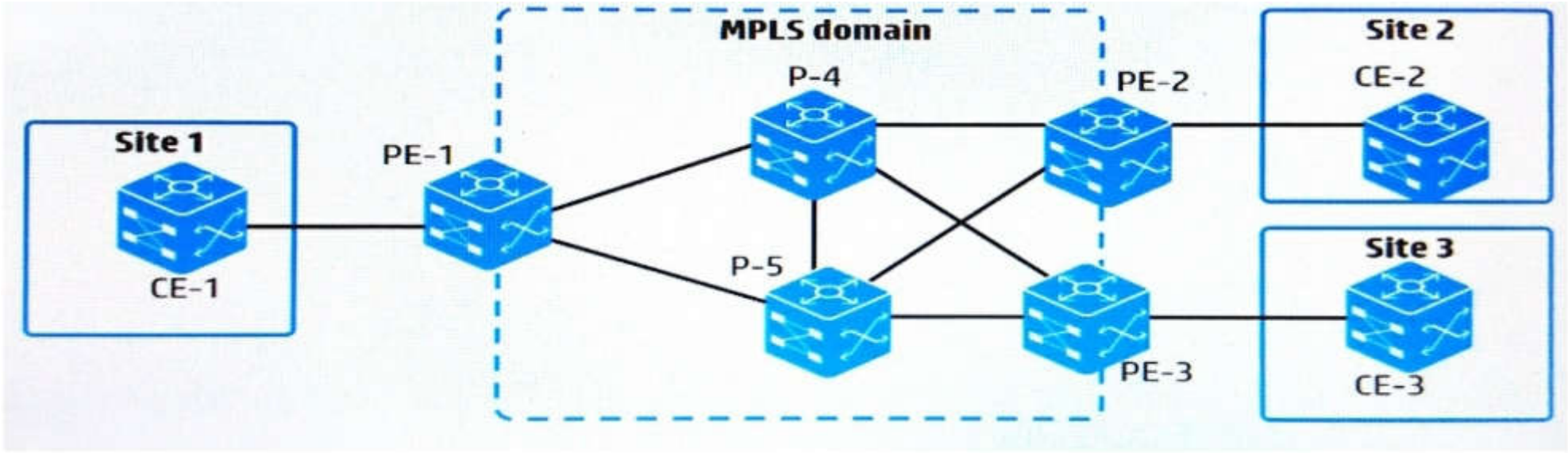

A network administrator has set up MPLS on the switches shown in the exhibit. The administrator wants to verify that PE-1 can use MPLS to forward traffic to Site 3, as well as seethe labels used along the path. Which step should the administrator take to obtain this information?

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A. Run a tracert to an IP address at Site 3 using the MPLS option.
B. Use the display command to view MPLS LDP neighbors.
C. Debug LDP and ping an IP address at Site 3.
D. Use the display command to view MPLS Label Forwarding Information Base (LFIB)

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Classic Traceroute in MPLS environment
In order to better understand the routing path and aid in troubleshooting, it is desirable to see the MPLS labels used for packet forwarding in the traceroute command output.
References:
http://blog.ine. com/2008/11/24/mpls-ping-and-traceroute/

QUESTION 13

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Table of Acronvms

Table of Acronyms

EVI	Ethernet Virtual Interconnect
FCoE	Fibre Channel over Ethernet
L2VPN	Layer 2 Virtual Private Network
MCE	Multi-Customer CE
MDC	Multitenant Device Context
MPLS	Multiprotocol Label Switching
SPBM	Shortest Path Bridging MAC-in-MAC mode
TRILL	Transparent Interconnection of Lots of Links
VPLS	Virtual Private LAN Service
VPN	Virtual Private Network
LDP	Label Distribution protocol

A company is using MCE to create a multi-tenant data center solution. Network administrators want to isolate all management functions in a VPN instance "Management" Each switch has an IP address in 10.0.2.0/24 on its Management Ethernet port, and HP IMC manages the switches on these IP addresses. Administrators assign the Management Ethernet interfaces to the "Management" VPN instance. IMC begins losing data from the switches.
How should administrators fix the problem on each switch?

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A. Enable route leaking globally.
B. Create a static or dynamic route to 10.0.2.0/24 in the public VPN table.
C. Specify VPN instance "Management" for management settings such as SNMP trap destination.
D. Set VPN instance “Management" as the default VPN instance.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 14
Table of Acronyms

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Table of Acronyms

EVI	Ethernet Virtual Interconnect
FCoE	Fibre Channel over Ethernet
L2VPN	Layer 2 Virtual Private Network
MCE	Multi-Customer CE
MDC	Multitenant Device Context
MPLS	Multiprotocol Label Switching
SPBM	Shortest Path Bridging MAC-in-MAC mode
TRILL	Transparent Interconnection of Lots of Links
VPLS	Virtual Private LAN Service
VPN	Virtual Private Network
LDP	Label Distribution protocol

A customer has five data centers. Each data center hosts 10 tenants and separates the tenants using VLAN assignments.
The network administrator is connecting the data centers using EVI.
How should the administrator separate the tenant traffic over the EVI links?

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A. Set up a QinQ subinterface for each tenant on the EVI tunnel interfaces.
B. Set up a unique EVI network ID for each tenant and extend that tenant's VLANs over that EVI network.
C. Set up a routed subinterface for each tenant on the EVI tunnel interfaces.
D. Extend all VLANs over the same EVI network. Use EVI VLAN mapping to map each tenant's VLANs to a unique S-VLAN

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 15
A network administrator wants to create a leaf and spine topology. How should the administrator connect the switches for the best latency and load-balancing?

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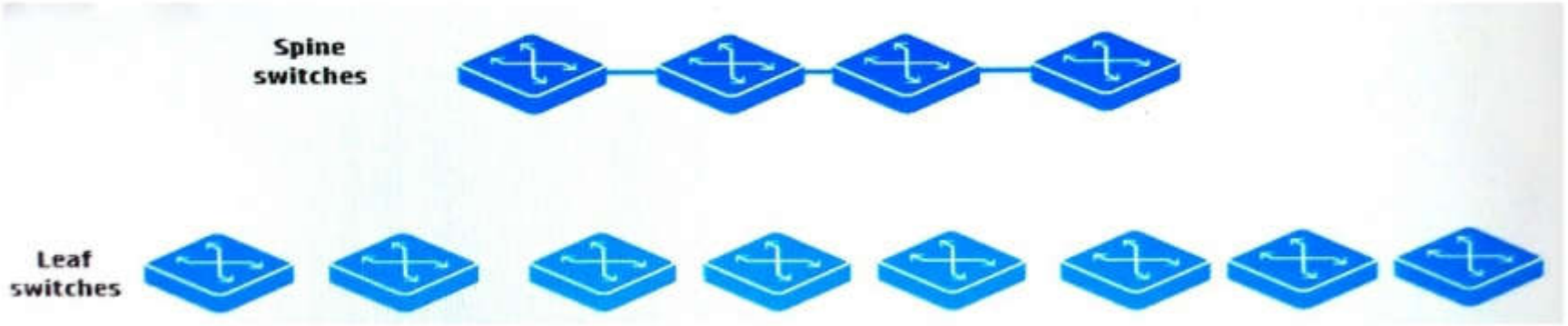

A. Connecteach leafswitch toeach spine switch, and run a protocol such as EVI.
B. Connecteach leafswitch tohalf of the spine switches, and run a protocol suchasTRILL.
C. Connecteach leafswitch toeach spine switch, and run a protocol such as TRILL.
D. Connecteach leaf switch tohalf of the spine switches, and run a protocol suchasEVI.

Correct Answer: C
Section: (none)
Explanation

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Explanation/Reference:

QUESTION 16
Refer to the exhibit.

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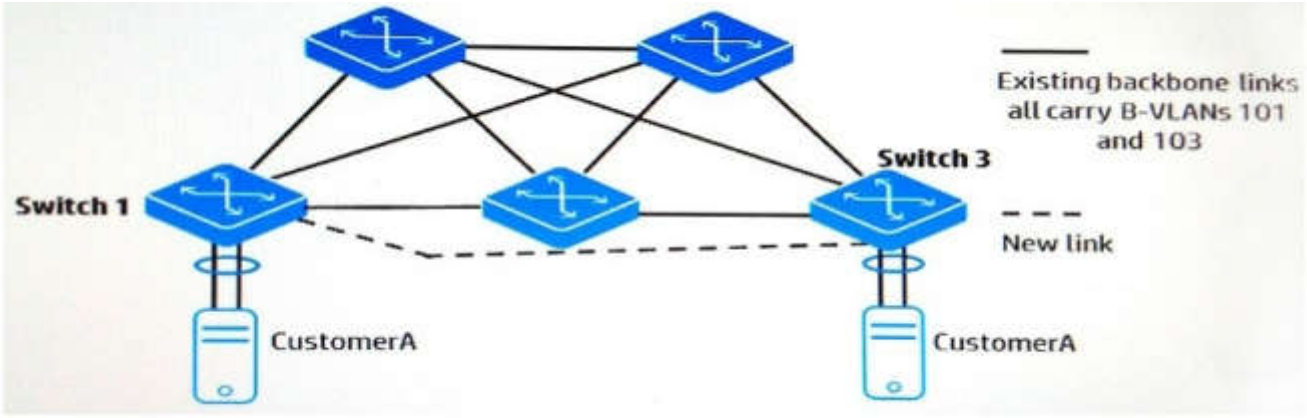

The switches in the exhibit are using SPBM An administrator wants to send CustomerA traffic directly over the new link, shown by the dotted line in the exhibit, as a premium service for that customer. The existing links will be used for backup. The new link is reserved for CustomerA traffic.
How does the administrator set up Switch 1 to help to achieve this goal?

A. by assigning the CustomerA interfaces and the specific links in the path to the same S-VLAN ID
B. by creating a PW connection between Switch 1 and Switch 3, and mapping the CustomerA service instance to that PW
C. by setting up a new B-VLAN and assigning it to the new link and the backup links, and mapping the CustomerA I-SID to that B-VLAN
D. by changing the CustomerA I-SID 255 and defining the interface for the reserved link as the priority path in I-SID 255

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 17
Refer to the exhibit

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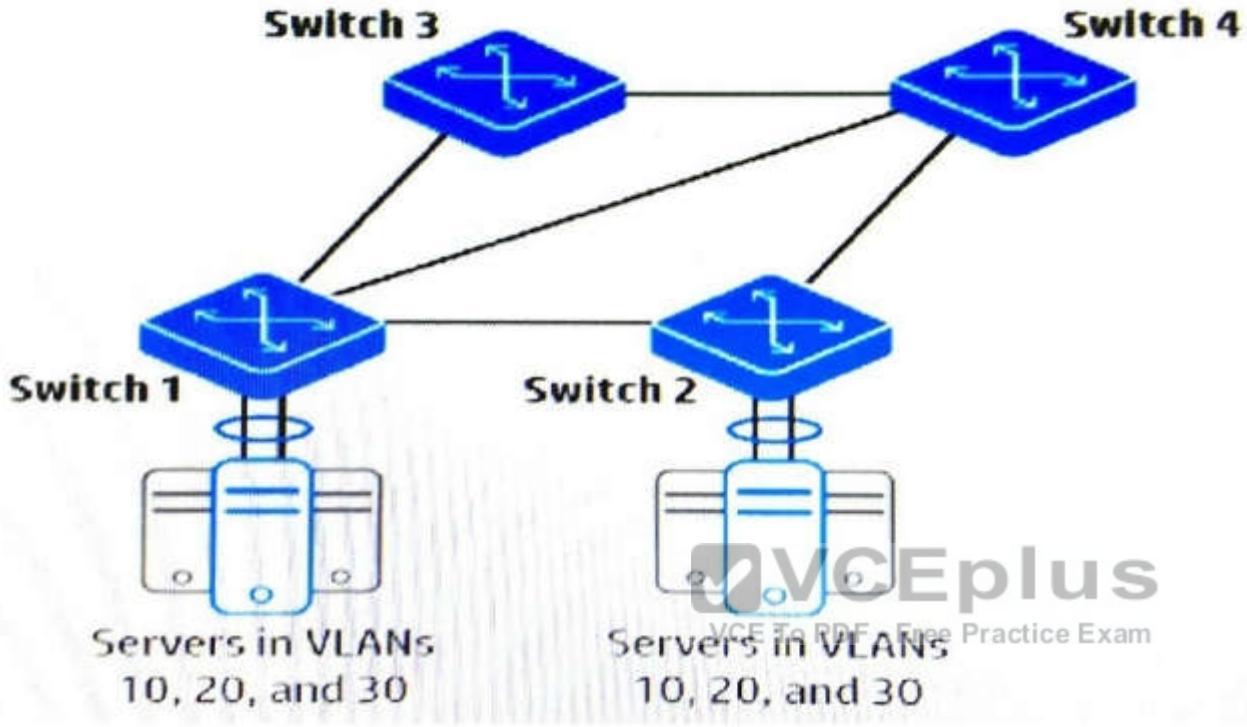

The switches shown in the exhibit form a TRILL region. The network administrator has enabled TRILL. What helps to ensure that Switch 2 sends multicasts and broadcasts over both of its switch-to-switch links?

A. Configure a switch to be the tree root bridge and allow the creation of multiple trees.
B. Configure Switch 3 and Switch 4 with the same designated routing bridge (DRB) priority.
C. Configure Switch 2 with multiple MSTP instances, which are mapped to TRILL access VLANs.
D. Configure Switch 2 to enable TRILL Equal Cost Multi-Path (ECMP) globally.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Equal-cost multi-path routing (ECMP) is a routing strategy where next-hop packet forwarding to a single destination can occur over multiple "best paths" which tie

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for top place in routing metric calculations.
References:
https://en.wikipedia.org/wiki/Equal-cost_multi-path_routing

QUESTION 18
A network administrator has installed an SDN application from the HP SDN AppStore on the HP VAN SDN Controller. If the application is running and ready to service requests, which status should the administrator see in the controller's Applications window?

A. RUNNING
B. ACTIVE
C. STARTED
D. UP

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:

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QUESTION 19
A company has a data center that hosts multiple tenants. The company is adding a second and third data center. The core of each data center is an IRF virtual switch
These are the IRF connections:
•IRF 1 is the core of the first data center.
•IRF 2 is the core of the second data center.
•IRF 3 is the core of the third data center.
•The three data centers are fully interconnected with dark fiber.
•IRF 1, IRF 2, and IRF 3 have connections to a WAN and to the Internet.
Which option for the connections between the data centers provides the best resiliency and stability?

A. a link aggregation that consists of all of the links
B. MSTP running on the links
C. IRF 1 ,IRF 2,and IRF 3 combined into a single IRF virtual device
D. SPBM configured across IRF 1, IRF 2, and IRF 3

Correct Answer: C
Section: (none)
Explanation

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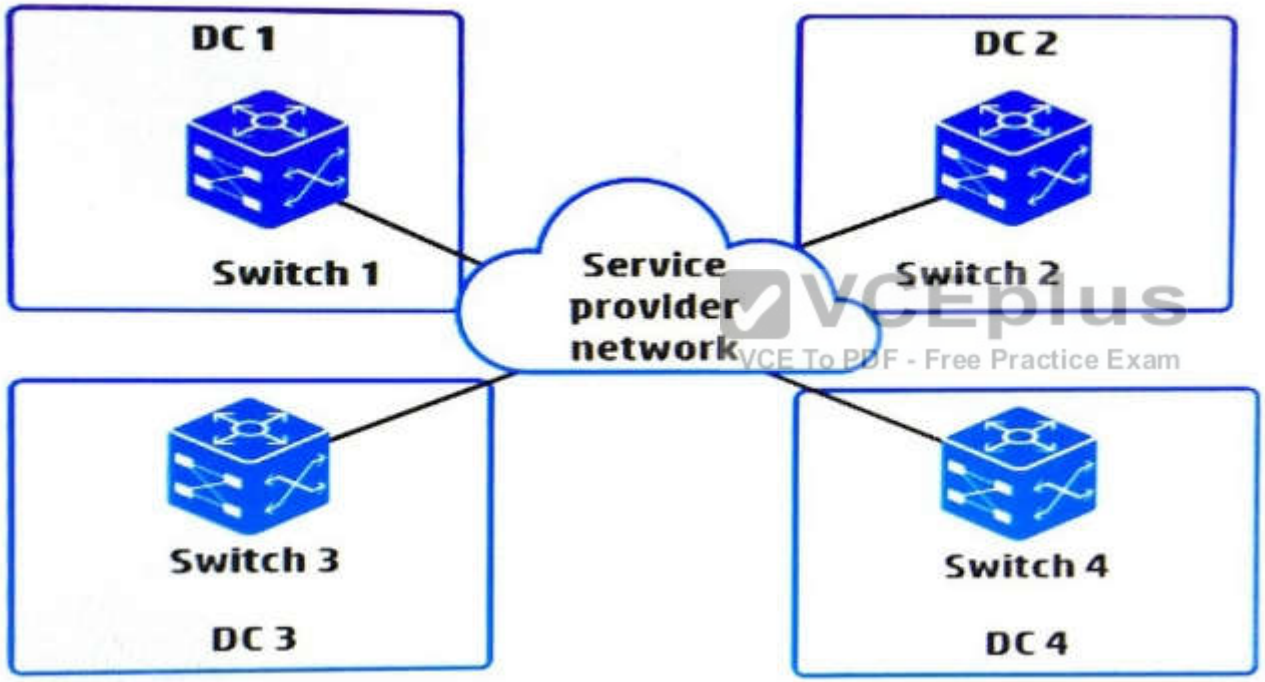
Explanation/Reference:
Explanation:
IRF technology extends network control over multiple active switches. Management of a group of IRFenabled switches is consolidated around a single management IP address, which vastly simplifies network configuration and operations. You can combine as many as nine HP A-series switches to create an ultra¬resilient virtual switching fabric comprising hundreds or even thousands of 1-GbE or 10-GbE switch ports.
References: Reducing network complexity, boosting performance with HP IRF technology, White Paper, page 3
http://h17007.www1.hp.com/docs/reports/irf.pdf

QUESTION 20
Refer to the exhibit.



A network administrator wants to connect four data centers using HP EVI. What is the correct setup for the EVI tunnel interfaces?

A. three EVI tunnel interfaces on each EVI edge device-one EVI tunnel interface is required for each GRE tunnel in the mesh
B. three EVI tunnel interfaces on Switch 1, which will act as the hub, and one EVI tunnel interface each on the other switches
C. one EVI tunnel interface on each EVI edge device-the devices automatically establish GRE tunnels between these interfaces
D. one EVI tunnel interface on Switch 1, which will be configured as the ENDP server, and no interfaces on the other switches

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Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 21
Refer to the exhibits on the Exhibit 1 and Exhibit 2 tabs
Exhibit 1

```
[5900]display openflow instance 1 flow-table

Flow entry 3 information:
      cookie: 0x0, priority: 31000, hard time: 0, idle time: 60, flags: none,
      byte count: --, packet count: 0
Match information:
      Ethernet type: 0x0800
      IPv4 source address: 10.1.2.0, mask: 255.255.255.0
      IPv4 destination address: 10.1.3.0, mask: 255.255.255.0
Instruction information:
      Write actions:
      Output interface: _____
```

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Exhibit 2

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```
[5900]display ip routing-table

Destinations : 17        Routes : 18

Destination/Mask    Proto     Pre  Cost Next Hop         Interface
0.0.0.0/32          Direct    0    0    127.0.0.1        InLoop0
10.1.2.0/24         Direct    0    0    10.1.2.1         Vlan2
10.1.2.0/32         Direct    0    0    10.1.2.1         Vlan2
10.1.2.1/32         Direct    0    0    127.0.0.1        InLoop0
10.1.2.255/32       Direct    0    0    10.1.2.1         Vlan2
10.1.3.0/24         Static    60   0    10.1.101.2       Vlan101
10.1.101.0/24       Direct    0    0    10.1.101.1       Vlan101
10.1.101.0/32       Direct    0    0    10.1.101.1       Vlan101
10.1.101.1/32       Direct    0    0    127.0.0.1        InLoop0
10.1.101.255/32     Direct    0    0    10.1.101.1       Vlan101
127.0.0.0/8         Direct    0    0    127.0.0.1        InLoop0
127.0.0.0/32        Direct    0    0    127.0.0.1        InLoop0
127.0.0.1/32        Direct    0    0    127.0.0.1        InLoop0
127.255.255.255/32  Direct    0    0    127.0.0.1        InLoop0
224.0.0.0/4         Direct    0    0    0.0.0.0          NULL0
224.0.0.0/24        Direct    0    0    0.0.0.0          NULL0
255.255.255.255/32  Direct    0    0    127.0.0.1        InLoop
```

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Network clients are configured to use the switch as their default gateway in VLAN 2. The HP Comware switch places VLAN 2 in OpenFlow instance 1. An SDN application has created the flow entry shown in Exhibit 1 to route traffic from 10.1.2.0/24 to 10.1.3.0/24. Exhibit 1 does not show the output interface for the flow. Which output interface supports the needs of this scenario?

A. CONTROLLER
B. ANY
C. NORMAL
D. TABLE

Correct Answer: C

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Section: (none)
Explanation

Explanation/Reference:
Explanation:
NORMAL: Represents the traditional non-OpenFlow pipeline of the switch.
Can be used only as an output port and processes the packet using the normal pipeline. If the switch cannot forward packets from the OpenFlow pipeline to the normal pipeline, it must indicate that it does not support this action.
References:
https://www.opennetworkina.org/imaaes/stories/downloads/sdn-resources/onf-Specifications/openflow/openflow-spec-v1.3.3.pdf JaPage: 13

QUESTION 22
Refer to the exhibits on the Exhibit 1 and Exhibit 2 tabs.
Exhibit 1

```
<Switch> display openflow instance 1 flow-table
Instance 1 flow table information:
Table 0 information:
Table type: Extensibility, flow entry count: 6, total flow
entry count: 5

MissRule flow entry information:
cookie: 0xffff000000000000, priority: 0, hard time: 0, idle
time: 0, flags: flow_send_rem, byte count: --, packet count: 4435
Match information: any
Instruction information:
 Write actions:
  Output interface: Normal

Flow entry 1 information:
 cookie: 0xabab014e29d5834a, priority: 60000, hard time: 0, idle time: 0, flags: none, byte count: -
-, packet count: 24
Match information:
 Ethernet type: bddp
Instruction information:
 Apply actions:
  Output interface: Controller, send length: 65509 bytes
```

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```
Flow entry 2 information:
cookie: 0xabab014e29d5b83a, priority: 31000, hard time: 0, idle time: 0, flags: none, byte count: --
, packet count: 100
Match information:
 Ethernet type: arp
Instruction information:
 Apply actions:
  Output interface: Controller, send length: 65509 bytes
 Write actions:
  Output interface: Normal

Flow entry 3 information:
cookie: 0xabab014e29daab1a, priority: 31500, hard time: 0, idle time: 0, flags: none, byte count: --
, packet count: 1200
Match information:
 Ethernet type: 0x0800
 IP protocol: 17
 UDP source port: 68, mask: 0xffff
 UDP destination port: 67, mask: 0xffff
Instruction information:
 Apply actions:
  Output interface: Controller, send length: 65509 bytes
 Write actions:
  Output interface: Normal

 Flow entry 4 information:
 cookie: 0xabab014e29d5833b, priority: 31500, hard time: 0, idle time: 0, flags: none, byte count: --
 , packet count: 1208
 Match information:
  Ethernet type: 0x0800
  IP protocol: 17
  UDP source port: 67, mask: 0xffff
  UDP destination port: 68, mask: 0xffff
 Instruction information:
  Apply actions:
   Output interface: Controller, send length: 65509 bytes
  Write actions:
   Output interface: Normal
```

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Exhibit 2

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```
<Switch> display openflow instance
Instance 1 information:
Configuration information:
 Description : --
 Active status : Active
 Inactive configuration:
  None
Active configuration:
 Classification: VLAN, total VLANs(1)
  20
In-band management VLAN, total VLANs(0)
 Empty VLAN
Connect mode: Multiple
MAC address learning: Enabled
Flow table:
 Table ID(type): 0(Extensibility), count: 5
 Flow-entry max-limit: 65535
 Datapath ID: 0x0001784859392f96
Port information:
 Ten-GigabitEthernet1/0/2
 Bridge-Aggregation1
Active channel information:
 Controller 1 IP address: 192.168.56.11 port: 6633
```

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A network administrator has set up an HP VAN SDN Controller to operate in hybrid mode. The administrator wants to confirm that the controller has properly configured an HP Comware switch to be controlled by it in hybrid mode. Which output in the exhibit indicates that the controller is using hybrid mode

A. Active configuration
B. Miss Rule flow entry information
C. Flow entry 1 information
D. Flow table

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Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 23
What correctly describes the role of OpenFlow in an SDN solution?

A. OpenFlow regulates the communications among teamed SDN controllers, as well as between an SDN controller and a network infrastructure device
B. OpenFlow integrates the SDN controller into a larger management suite, such as the one provided in the HP Helion CloudSystem solution.
C. OpenFlow is an open standard technology that regulates how the SDN control plane and the application plane communicates.
D. OpenFlow is a communication protocol that an SDN controller can use to control how network devices forward traffic.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

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QUESTION 24
Refer to the exhibit.

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```
<Router1> display ip routing-table vpn-instance TenantA
Routing Tables: TenantA
         Destinations : 5        Routes : 5

Destination/Mask    Proto   Pre  Cost      NextHop         Interface

10.1.1.1/32         Direct  0    0         127.0.0.1       InLoop0
10.1.1.0/30         Direct  0    0         10.1.1.1        RAGG 10
10.1.255.1/32       Direct  0    0         127.0.0.1       InLoop0
127.0.0.0/8         Direct  0    0         127.0.0.1       InLoop0
127.0.0.1/32        Direct  0    0         127.0.0.1       InLoop0
#
[Router1-vpn-instance-TenantA] display this
     ip vpn-instance TenantA
          route-distinquisher 65000:10
#
[Router1-ospf-10] display this
     ospf 10 router-id 10.1.255.1
       area 0.0.0.0
          network 10.1.0.0 0.0.255.255
```

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A network administrator is setting up the OSPF routing for VPN instance "TenantA." The configuration shown in this exhibit is not functioning as expected. What must the administrator do to correct the configuration?

A. Recreate the OSPF instance and bind it to the VPN instance.
B. Change the OSPF process ID to match the VPN instance Route Distinguisher.
C. Tag the OSPF advertisements with the VPN instance Route Distinguisher.
D. Enable route leaking on the VPN instance.

Correct Answer: A
Section: (none)
Explanation

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Explanation/Reference:

QUESTION 25
A company is using HP Network Visualizer to monitor traffic transmitted and received by users in specific Active Directory user groups. The company wants to send traffic to a different server from the controller and have that server store the captured packets in PCAP format How would the network administrator configure this solution to meet these requirements?

A. by setting up a remote mirroring session
B. by setting the destination server's IP address in the capture session
C. by setting up a managed remote destination
D. by setting up a remote syslog server to receive controller log messages

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Create Capture Session wizard—Step-by-step configuration wizard to create a new capture session. The following modes of configuration are supported
*Custom—Configure the Source/Destination IP address, Source/Destination MAC address, Port, and Protocol for capture session.
*User—Configure the user, user group, device(s), and application for capture session.
References: HPE Network Visualizer SDN Application — 1.0 Administrator Guide, page 12
http://h20565.www2.hpe.com/hpsc/doc/public/displav?sp4ts.oid=8241931&docld=emr na-c04724330&docLocale=en US

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QUESTION 26
An SDN application submits a username and password to authenticate to the HP VAN SDN Controller, which is configured for local authentication. If the username and password are valid, what does the controller do?

A. creates a security hash, which the application uses to generate a valid X-Auth-Token
B. sends the application an X-Auth-Token
C. forwards the application an Access-Accept packet
D. requests the last valid token the application used

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:

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QUESTION 27
Which technology is best suited for isolating tenants within a data center that must support many tenants?

A. TRILL
B. MDC
C. SPBM
D. EVI

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 28
A network administrator is setting up OpenFlow settings on an HP Provision switch with VLANs 1, 2, 3, and 4. The switch reaches the HP VAN SDN Controller on VLAN 1. The administrator wants to enable OpenFlow on VLANs 2 and 3 but not on VLAN 4 What is a valid configuration for the OpenFlow instances?

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A. OpenFlow instance 1 mapped to VLAN 1; OpenFlow instance 2mapped to VLAN 2;OpenFlowinstance 2 mapped to VLAN 3
B. OpenFlow instance 1 mapped to VLAN 2; OpenFlow instance 2mapped to VLAN 3
C. OpenFlow instance 1 mapped to VLAN 1 and 2; OpenFlow instance 2 mapped to VLAN 1and 3
D. Aggregate OpenFlow instance

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 29
Refer to the exhibit.

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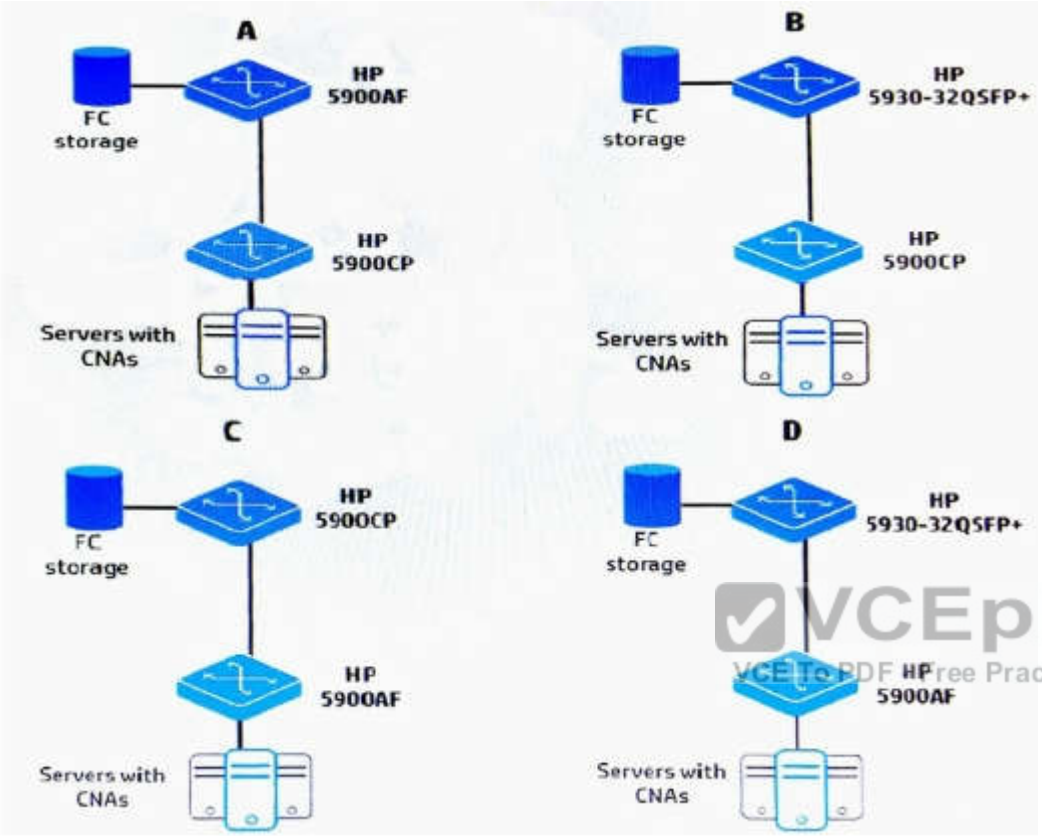

Which design in the exhibit shows valid choices for HP switches?

A. A
B. B
C. C
D. D

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:

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References:
http://h10032.www1.hp.com/ctg/Manual/c04214037

QUESTION 30
Refer to the exhibits.

Exhibit 1

```
[Comware-1]display interface vfc 1 brief
Brief information on VFC interface(s):
Admin Mode: auto - auto; E - e port; F - f port; NP - n port proxy
Oper Mode: E - e port; F - f port; NP - n port proxy;
           TE - trunking e port; TF - trunking f port;
           TNP - trunking n port proxy
Interface Admin      Admin      Oper Status    Bind
          Mode       Trunk      Mode           Interface
                     Mode
Vfc1      E          on         --   Down      XGE1/0/2

[Comware-1]display interface ten 1/0/2 brief
Brief information on interface(s) under bridge mode:
Link: ADM - administratively down; Stby - standby
Speed or Duplex: (a)/A - auto; H - half; F - full
Type: A - access; T - trunk; H - hybrid
Interface      Link      Speed     Duplex    Type PVID Description
XGE1/0/2       Up        10G(a)    F(a)      T    1
```

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Exhibit 2

```
[Comware-2]display interface vfc 1 brief
Brief information on VFC interface(s):
Admin Mode: auto - auto; E - e port; F - f port; NP - n port proxy
Oper Mode: E - e port; F - f port; NP - n port proxy;
           TE - trunking e port; TF - trunking f port;
           TNP - trunking n port proxy
Interface Admin      Admin      Oper Status    Bind
          Mode       Trunk      Mode           Interface
                     Mode
Vfc1      F          on         --   Down      XGE1/0/2

[Comware-2]display interface ten 1/0/2 brief
Brief information on interface(s) under bridge mode:
Link: ADM - administratively down; Stby - standby
Speed or Duplex: (a)/A - auto; H - half; F - full
Type: A - access; T - trunk; H - hybrid
Interface       Link       Speed      Duplex     Type PVID Description
XGE1/0/2        Up         10G(a)     F(a)       T    1
```

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Exhibit 2

A network administrator has connected Comware-1 and Comware-2 on their Ten-GigabitEthernet 1/0/2 interfaces. The administrator configured both switches to support FCoE FCF mode and configured the connecting interfaces to carry FCoE traffic. However, the configuration is not working.
The exhibit shows the output for several display commands. Based on this output, which step should the administrator take to fix the problem?

A. Change the port link type on both Ten-GigabitEthernet 1/0/2 interfaces to hybrid.
B. Change the port link type on both Ten-GigabitEthernet 1/0/2 interfaces to access.
C. Change the FC mode on the Comware-2 Ten-GigabitEthernet 1/0/2 interfaces to E.
D. Change the FC mode on the Comware-1 Ten-GigabitEthernet 1/0/2 interface to NP.

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Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 31
An OpenFlow controller controls several switches that operate in pure OpenFlow mode. Based on this scenario, what is the controller required to do?

A. Configure a table miss entry with the Normal action for each switch.
B. Configure flow entries to handle any loops in the topology.
C. Use either Open Flow 1.0 or OpenFlow 1.3, but not both versions.
D. Ensure that each switch uses a single OpenFlow table.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:

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QUESTION 32
A company has deployed the HP Network Protector SDN Application solution. The network administrator wants to use this application to prevent clients from accessing specific devices on the private network, including other clients. Which HP Network Protector feature should the administrator use to configure this policy?

A. ACL Manager
B. blacklists
C. grey lists
D. Redirection server

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 33

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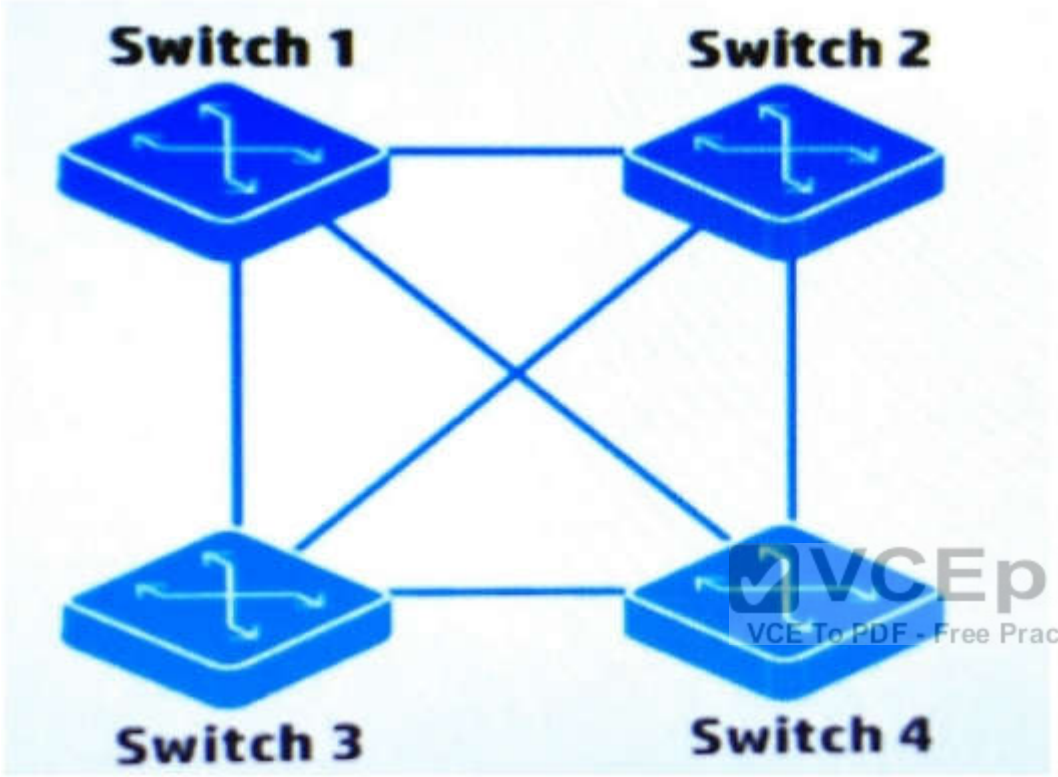
Refer to the exhibit.



The switches shown in the exhibit use the HP VAN SDN Controller as the OpenFlow controller. They connect to the controller on their out-of-band management (OOBM) ports, but these connections are not shown in the exhibit. The switches also run spanning tree protocol.
An SDN supplication installed on the HP VAN SDN Controller is programmed to discover live ports, find redundant paths, and create loopfree paths for traffic for the infrastructure shown in the exhibit. However, the application is not able to complete these functions because the switches are reporting some ports as blocked.
What should the network administrator do to let the application create the loopfree paths?

A. Disable spanning tree on the OpenFlow-enabledswitches and do not configure link aggregation.
B. Enable spanning tree on the OpenFlow-enabled switches but set the application as the spanning tree flood parameter controller.
C. Enable spanning tree on the OpenFlow-enabled switches and configure all of the redundant links as egress-only-ports.
D. Disable spanning tree on the OpenFlow-enabled switches and configure the redundant links as static link aggregations.

Correct Answer: D

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 34
Which HP IMC module helps companies to manage TRILL and SPBM solutions, as well as converged LAN/SAN solutions?

A. HP VAN Resource Manager
B. HP VAN SDN Manager
C. HP VAN Fabric Manager
D. HP VAN Connection Manager

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:

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QUESTION 35
Refer to the exhibit.

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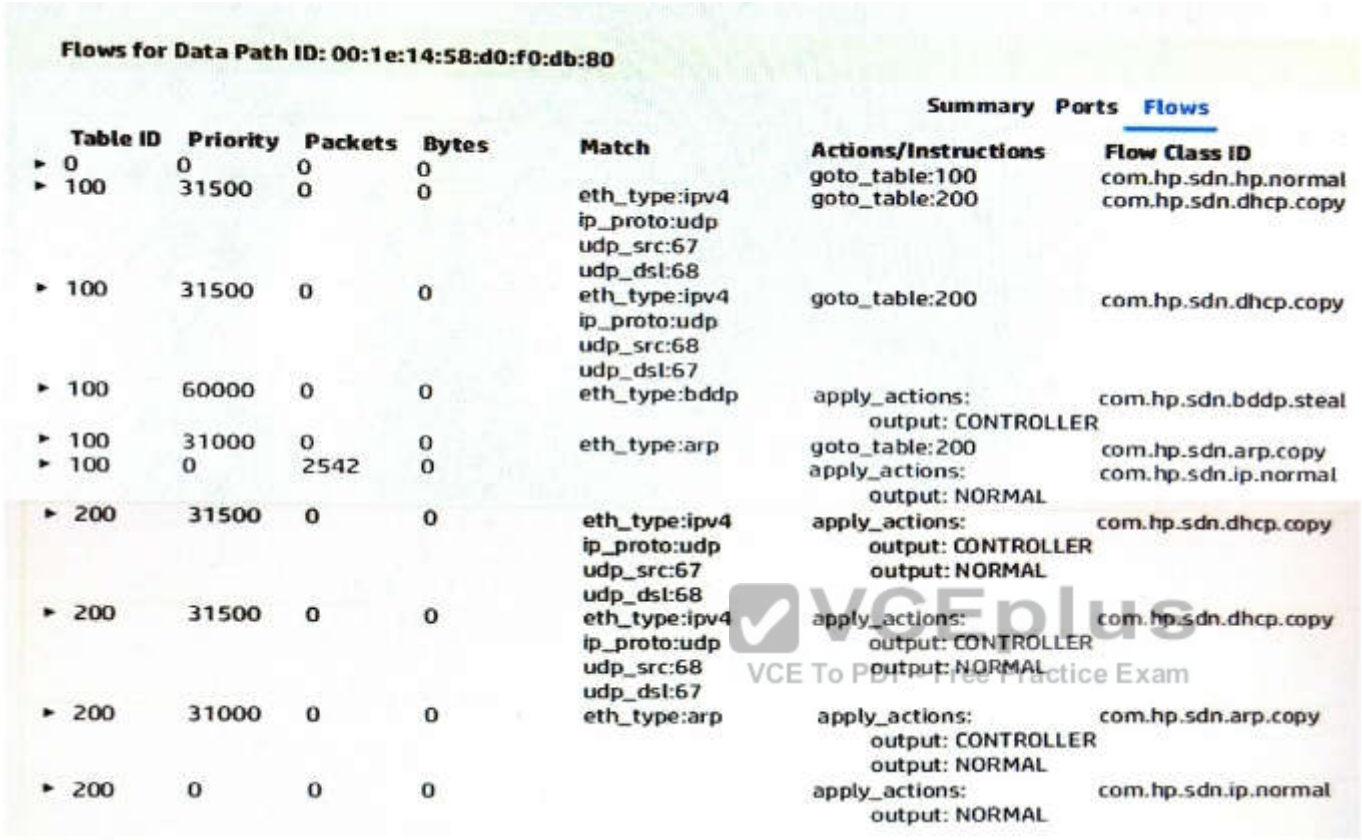

Flows for Data Path ID: 00:1e:14:58:d0:f0:db:80

Summary Ports Flows

Table ID	Priority	Packets	Bytes	Match	Actions/Instructions	Flow Class ID
0	0	0	0		goto_table:100	com.hp.sdn.hp.normal
100	31500	0	0	eth_type:ipv4 ip_proto:udp udp_src:67 udp_dsl:68	goto_table:200	com.hp.sdn.dhcp.copy
100	31500	0	0	eth_type:ipv4 ip_proto:udp udp_src:68 udp_dsl:67	goto_table:200	com.hp.sdn.dhcp.copy
100	60000	0	0	eth_type:bddp	apply_actions: output: CONTROLLER	com.hp.sdn.bddp.steal
100	31000	0	0	eth_type:arp	goto_table:200	com.hp.sdn.arp.copy
100	0	2542	0		apply_actions: output: NORMAL	com.hp.sdn.ip.normal
200	31500	0	0	eth_type:ipv4 ip_proto:udp udp_src:67 udp_dsl:68	apply_actions: output: CONTROLLER output: NORMAL	com.hp.sdn.dhcp.copy
200	31500	0	0	eth_type:ipv4 ip_proto:udp udp_src:68 udp_dsl:67	apply_actions: output: CONTROLLER output: NORMAL	com.hp.sdn.dhcp.copy
200	31000	0	0	eth_type:arp	apply_actions: output: CONTROLLER output: NORMAL	com.hp.sdn.arp.copy
200	0	0	0		apply_actions: output: NORMAL	com.hp.sdn.ip.normal

A standard ARP packet arrives on the switch with the flows shown in the exhibit. How does the switch handle the packet? (Select two.)

A. It encapsulates the packet and sends it to the controller.
B. It forwards the packet normally.
C. It drops the packet.
D. It transmits the packet on port 200.
E. It transmits the packet on the ports in group table 200.

Correct Answer: AB
Section: (none)
Explanation

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Explanation/Reference:

QUESTION 36
An HP Provision switch supports VLANs 1,10,20, and 30. A network administrator wants to create an OpenFlow instance on the switch. This instance should only apply to VLAN 10 The switch reaches the HP VAN SDN Controller in VLAN 20.
How should the administrator begin to set up the instance?

A. as a named instance with member VLAN 20
B. as an aggregate instance that excludes VLAN 1 and 30
C. as a named instance with member VLAN 10
D. as an aggregate instance that excludes VLAN 1, 20, and 30

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:

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QUESTION 37
Refer to the exhibits.
Exhibit 1

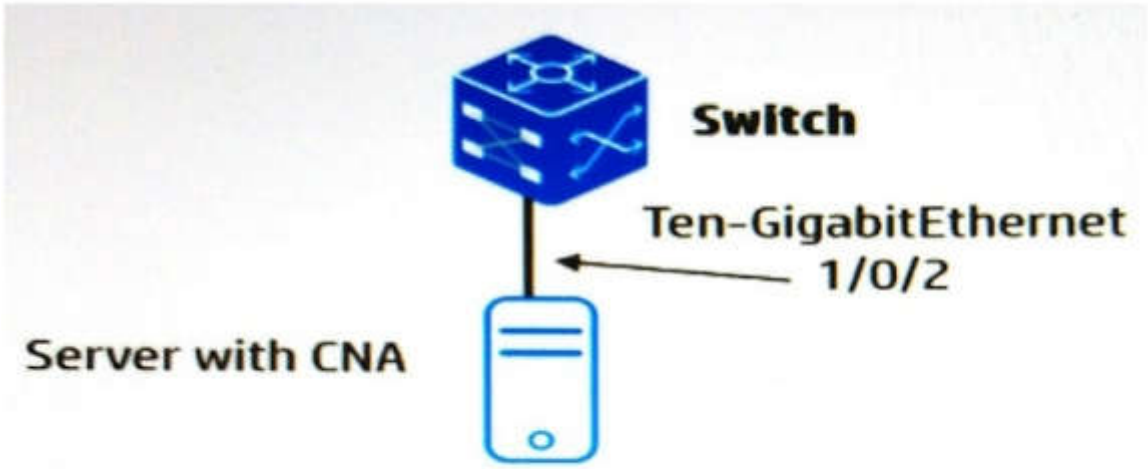

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Exhibit 2

```
#Switch partial running configuration
lldp global enable
#
qos map-table dot1p-lp
     import 0 export 0
     import 1 export 0
     import 2 export 0
     import 3 export 1
     import 4 export 0
     import 5 export 0
     import 6 export 0
     import 7 export 0
#
interface TenGigabit1/0/2
     lldp tlv-enable dot1-tlv dcbx
     qos wrr 0 group 1 byte-count 4
     qos wrr 1 group 1 byte-count 6
```

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The server and the switch are forwarding traffic on the Ethernet link shown in the exhibit. How do the server and switch handle traffic with 802.1 p value 3?

A. The switch provides 40 percent of bandwidth for this traffic. The server uses its local configuration to determine how to prioritize this traffic.
B. Both the server and the switch provide 40 percent of bandwidth for this traffic.
C. The switch provides 60 percent of bandwidth for this traffic. The server uses its local configuration to determine how to prioritize this traffic.
D. Both the server and the switch provide 60 percent of bandwidth for this traffic.

Correct Answer: C
Section: (none)
Explanation

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Explanation/Reference:

QUESTION 38
A company is deploying the HP Network Visualizer SDN Application. The HP switches already have the correct OpenFlow settings for the HP VAN SDN Controller to control them. How should the network administrator further configure the HP switches to work with this application?

A. Configure the OpenFlow VLANs as remote traffic mirror source.
B. Configure the HP VAN SDN Controller as a remote traffic mirror destination.
C. Configure SNMP settings that match those on the application.
D. Configure SSH settings that match those on the application.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:

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QUESTION 39
Refer to the exhibit

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```
<Router1> display ip routing-table vpn-instance SharedServices
Routing Tables: SharedServices
         Destinations : 7        Routes : 7

Destination/Mask  Proto       Pre   Cost  NextHop         Interface

10.0.1.1/32       Direct      0     0     127.0.0.1       InLoop0
10.0.1.0/30       Direct      0     0     10.0.1.1        RAGG 3
10.0.5.0/24       OSPF        10    20    10.0.1.2        RAGG 3
10.255.0.1/32     Direct      0     0     127.0.0.1       InLoop0
10.255.0.2/32     OSPF        10    10    10.0.1.2        RAGG 3
127.0.0.0/8       Direct      0     0     127.0.0.1       InLoop0
127.0.0.1/32      Direct      0     0     127.0.0.1       InLoop0
```

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```
<Router1> display ip routing-table vpn-instance TenantA
Routing Tables: TenantA
         Destinations : 8        Routes : 8
```

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```
Destination/Mask  Proto       Pre   Cost  NextHop          Interface

10.1.10.0/24      OSPF        10    20    10.1.1.2         RAGG 10
10.1.1.1/32       Direct      0     0     127.0.0.1        InLoop0
10.1.1.0/30       Direct      0     0     10.1.1.1         RAGG 10
10.1.20.0/24      OSPF        10    20    10.1.1.2         RAGG 10
10.255.1.1/32     Direct      0     0     127.0.0.1        InLoop0
10.255.1.2/32     OSPF        10    10    10.1.1.2         RAGG 10
127.0.0.0/8       Direct      0     0     127.0.0.1        InLoop0
127.0.0.1/32      Direct      0     0     127.0.0.1        InLoop0


<Router1> display ip routing-table vpn-instance TenantB
Routing Tables: TenantB
            Destinations : 8        Routes : 8

Destination/Mask  Proto       Pre   Cost  NextHop          Interface

10.1.10.0/24      OSPF        10    20    10.2.1.2         RAGG 11
10.2.1.1/32       Direct      0     0     127.0.0.1        InLoop0
10.2.1.0/30       Direct      0     0     10.2.1.1         RAGG 11
10.1.11.0/24      OSPF        10    20    10.2.1.2         RAGG 11
10.255.2.1/32     Direct      0     0     127.0.0.1        InLoop0
10.255.2.2/32     OSPF        10    10    10.2.1.2         RAGG 11
127.0.0.0/8       Direct      0     0     127.0.0.1        InLoop0
127.0.0.1/32      Direct      0     0     127.0.0.1        InLoop
```

A network administrator wants to route all external traffic from VPN instances "TenantA" and "TenantB" to a firewall at 10.0.5.5 in VPN instance "SharedServices." In addition to setting up the routes between the instances, what is another requirement for this scenario?

A. The RAGG 3 interface must be added to VPN instances “TenantA" and "TenantB,"
B. A router must implement Network Address Translation (NAT) to translate overlapping tenant network addresses.

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C. Route leaking must be enabled globally on Routerl, as well as on each of the VPN instances.
D. The routes must be redistributed between the different VPN instances.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 40
What is a benefit of using the HP Network Visualizer SDN application for capturing traffic on HP Provision switches?

A. This application can correlate captured traffic with user information based on information synced with Microsoft Active Directory.
B. This application can configure mirroring on switches that do not support OpenFlow using traditional methods, eliminating the needs for upgrades
C. This application can forward the captured traffic to HP DVLabs for deeper inspection as to whether the traffic poses a threat to the network.
D. This application can integrate with VMware vCenter, which uses the captured traffic to determine the correct policies to deploy to virtual hosts.

Correct Answer: A
Section: (none)
Explanation

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Explanation/Reference:
Explanation:
Network Visualizer supports integration with Microsoft Active Directory using LDAP protocol to obtain user groups which translates in user identity integration.
Because of the detailed information and correlated data available to SDN, network administrators can determine the traffic that needs to be captured by filtering per user, user-group, device types, location, application, state of network, and time.
References: Being innovative with HP SDN Network Visualizer application, page 3 https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA6-3816ENW.pdf

QUESTION 41
A company needs a team of HP VAN SDN Controllers. What is the correct process to install the controllers?

A. Install two controllers in teaming mode.
B. Install three controllers as standalone controllers. Then set up teaming on the controllers.
C. Install one controller as a standalone controller. Then install two more controllers in teaming mode.
D. Install two controllers in recovery mode. Then set up teaming on the controllers.

Correct Answer: B
Section: (none)

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Explanation

Explanation/Reference:
Explanation:
Configuring a Controller Team Configuration Prerequisites
1.Install and start three standalone HP VAN SDN controllers in the network.
2.Optional: To improve security, you can change the username and password from the default settings on each of the standalone controllers in step 1
3.Select any one of the controllers to use for configuring the team.
4.On the selected controller, acquire an Authentication Token.
Etc.
References: HP VAN SDN Controller Administrator Guide, page 55
http://hh20564.www2.hpe.com/hpsc/doc/public/display?docId=c04003114&lana=en-us&cc=us

QUESTION 42
Refer to the exhibit.

```
curl –nonproxy 192.168.56.10 --header “X-Auth-Token: $token” \
--header “Content-Type: application/json” --fail –kss \
--request POST \
--url https:\\192.168.56.10:8443/sdn/v2.0/owners/ \
--data-binary
{
“region”: {
“name”: “Region252”,
“prioritizedControllerIps”: [
“192.168.56.14”
“192.168.56.15”
],
“deviceIps”: [
“192.168.56.251”,
“10.1.1.252”
]}}
```

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A network administrator sends the cURL command shown in the exhibit to an HP VAN SDN Controller team in order to add a region to that team. The addresses

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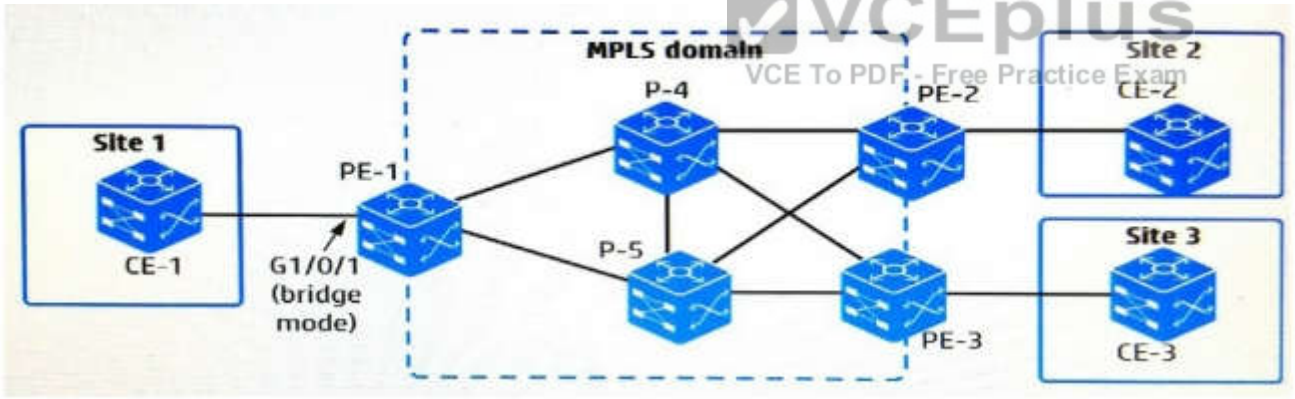
are as follows:
-The team IP address is 192.168.56.10
-The team members IP addresses are 192.168.56.14, 192.168 56.15, and 192.168 56.16.
The administrator receives an error in response. How can the administrator fix the configuration?

A. by configuring the region on the northbound team interface
B. by configuring the region before combining the controllers in a team
C. by specifying three controllers for the region rather than two
D. by assigning the devices' IP addresses in the same subnet as the controllers

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 43
Refer to the exhibit.



A network administrator is configuring an MPLS and VPLS Martini to connect customer Sites 1, 2, and 3. The administrator has created Virtual Switch Instance (VSI) "CustomerA" for this purpose. How should the administrator connect customer Site 1 to the VPLS solution?

A. Create a service instance on G1/0/1. Also create a global cross-connect group, and bind the CustomerA VSI and the service instance in that group.
B. Create a service instance on the VLAN assigned to G1/0/1. Also create a global cross-connect group, and bind the CustomerA VSI and the service instance in that group.
C. Create a service instance on the VLAN assigned to G1/0/1. Bind (cross-connect) that instance to the CustomerA VSI.

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D. Create a service instance on G1/0/1. Bind (cross-connect) that instance to the CustomerA VSI.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 44
An HP Comware switch is controlled by a team of HP VAN SDN Controllers. The controllers have these roles within the region that contains the switch.
Controller 1 = Master
Controller 2 = Primary slave
Controller 3 =Secondary slave
A failed network connection causes Controller 1 to lose contact with the switch. Controller 2 and Controller 3 can still reach all the controlled devices. Controller 1 is still up and has contact with other controllers and switches. How does the team handle this situation?

A. Controller 1, as master, contacts OpenFlow-enabled devices near the switch and attempts to repairthe connection.
B. Controller 2 becomes the master for this switch, although Controller 1 remains master for other switches.
C. Controller 1, as master, removes the switch from any active flows and sends updated flows to Controller 2 andController 3.
D. Controller 2 becomes the master for all switches in the region, and Controller 1 becomes the primary slave for the region.

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Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Device Owner Service triggers the failover operation in two cases:
*Device disconnect (the scenario here in this question): The Device Owner Service instance in a controller is notified of a communication failure with network device (s) through the Controller Service notifications. It instantly communicates with all Device Owner Service instances in the team to determine if the network device(s) in question are still connected to any of the backup (slave) controllers within the team. If that is the case, it elects one of the slaves to assume the master role over the affected network device(s).
The first slave will be chosen as master if it still has connectivity with the device(s), and the second slave will be chosen as master if neither the configured master or first slave have connectivity with the device(s).
*Controller failure: The Device Owner Service detects a controller failure in a team through notifications from the teaming subsystem. If Device Owner Service determines that the failed controller instance was a master for any devices within a region, it immediately elects an appropriate backup (slave) controller to assume the master role over the affected devices.
References:
http://h22208.www2.hpe.eom/eginfolib/networkingZdocs/sdn/sdnc2_6/5998-8472admin/content/s_curl-team-config.html#s_region-failover

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QUESTION 45
A company is deploying the HP Network Protector SDN Application. The network administrators should be able to see information about user identity in the Network Protector interface and logs. The log should provide the name of the user on that endpoint.
Which additional component is needed to meet the company's requirements?

A. HP User Behavior Audit (UBA) that uses RESTful APIs to integrate with Network Protector
B. HP Network Protector extensible user license that adds identity tracking capabilities to Network Protector
C. HP authentication solution with User Access Manager (UAM) that uses RESTful APIs to integrate with Network Protector
D. HP Guest Management Software (GMS) that integrates with Network Protector

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 46
Refer to the exhibit.

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```
zoneset name zoneset1
     member 1
     member 2
     active
zoneset name zoneset2
     member 3
     member 4

zone name 1
     member zone-alias pWWN1
     member zone-alias pWWN2
     member zone-alias pWWN3
     member zone-alias pWWN4

zone name 2
     member zone-alias pWWN5
     member zone-alias pWWN6
     member zone-alias pWWN7

 zone name 3
      member zone-alias pWWN8
      member zone-alias pWWN9
      member zone-alias pWWN10

 zone name 4
      member zone-alias pWWN11
      member zone-alias pWWN12
      member zone-alias pWWN13
|
```

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The exhibit shows the Fibre Channel (FC) zones that are members of zonesets on an HP Comware switch How does this zoning affect the FC fabric operation?

A. A server pWWN in zone 1 can discover target pWWNs in zone 1. A server pWWN in zone 2 can discover target pWWNs in zone 2.
B. The switch matches a host bus adapter (HBA) pWWN to entries in zone 1 to determine whether an HBA can connect to a port. If it does not find a match, it checks zone 2.
C. Server pWWNs in zone 1 can discover targets pWWNs in zone 2. Server pWWNs in zone 3 can discover target pWWNs in zone 4.
D. Host bus adapter (HBA) pWWNs in zoneset 1 belong to VSAN 1, which is currently active. HBA pWWNs in zoneset 2 belong to VSAN 2, which is inactive.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 47
Refer to the exhibits on the Exhibit 1 and Exhibit 2 tabs.
Exhibit 1

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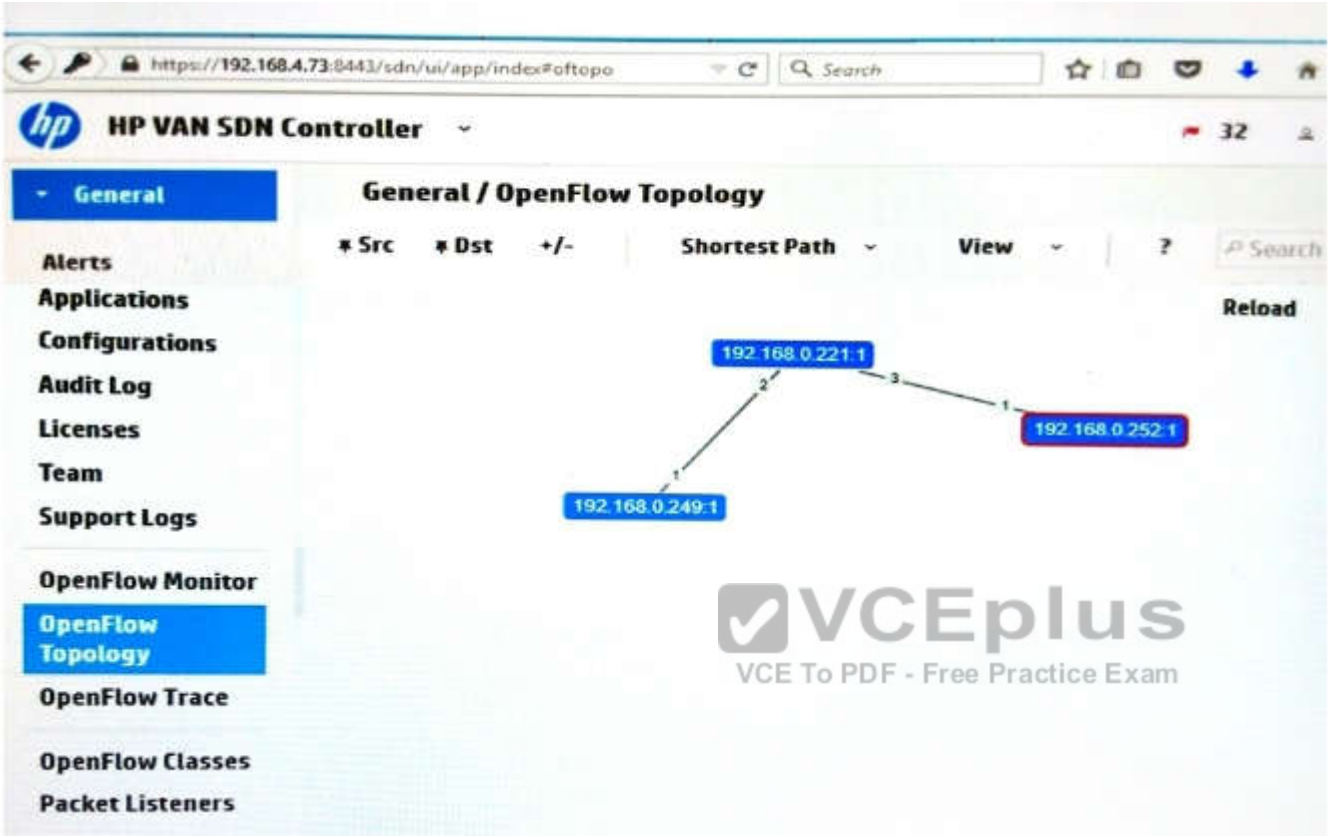

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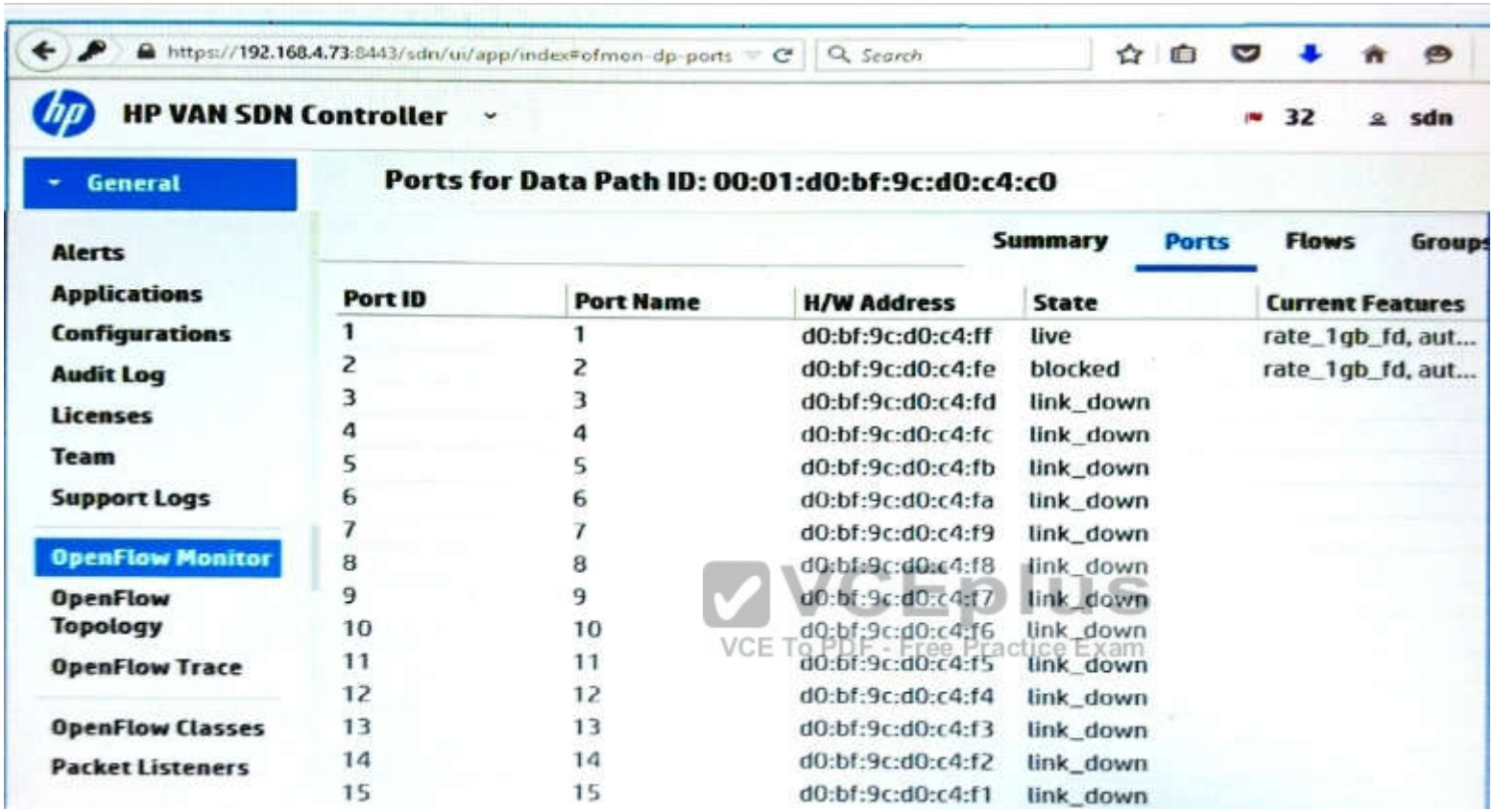

Three HP switches are controlled by an HP VAN SDN Controller The exhibits show the topology that the controller has discovered for the switches and the port status on the 192.168.0.252 switch. All the interswitch links carry the same VLANs.
The 192.168.0.249 switch and the 192.168.0.252 switch also connect on a link that is not shown in the topology The network administrator wants to make all of the links between the switches available for SDN applications to use. What should the administrator do to accomplish this?

A. Check all the links and ensure they have the same link speed, link media, and duplex mode.
B. Enable OpenFlow on the ports that connect the 192.168.0.249 and 192.168.0.252 switches.
C. Ensure that all the switches are running the same OpenFlow version.
D. Disable spanning tree on all of the switches and ensure SDN applications block loops.

Correct Answer: D
Section: (none)
Explanation

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