

HPE0-Y53

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HPE0-Y53

Building HPE SDN and FlexNetwork Solutions



Exam A

QUESTION 1

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

Exhibit 1

Team Status: Healthy - All controllers are ACTIVE 108 sdn

General / Team

Refresh

IP	Role	Status	Version	CDV	CDV Timestamp
192.168.56.14	member	active	2.5.15.1175	12	2015-07-15T11:15:...
192.168.56.15	member	active	2.5.15.1175	12	2015-07-15T11:15:...
192.168.56.16	leader	active	2.5.15.1175	12	2015-07-15T11:15:...

Regions

Name	Controllers By Priority	Region UID
▶ Region252	192.168.56.14 192.168.56.15 192.168.56.16	4c3bbe5f-bab2-460f-a54e-f0cd21c5a6df
▶ Region253	192.168.56.15 192.168.56.14 192.168.56.16	84787caf-9572-4ab9-b377-91f08c009296
▶ Region254	192.168.56.16 192.168.56.15 192.168.56.14	ec060771-33b9-49ab-be39-d1c1f0accd30

Device Owners

Device	Owning Controller	Region	Datapath ID	Datapath Ready
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Exhibit 2

Regions	Name	Controllers By Priority	Region UID
▼	Region252	192.168.56.14 192.168.56.15 192.168.56.16	4fb30105-1bb5-442b-8daa-80331f16bfef
	Ranges:		
	Devices: 10.1.1.252		
▼	Region253	192.168.56.15 192.168.56.14 192.168.56.16	84787caf-9572-4ab9-b377-91f08c009296
	Ranges:		
	Devices: 10.1.1.253		
▼	Region254	192.168.56.16 192.168.56.15 192.168.56.14	ec060771-33b9-49ab-be39-d1c1f0accd30
	Ranges:		
	Devices: 10.1.1.254		

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

References:

http://h20565.www2.hp.com/hpsc/doc/public/display?sp4ts.oid=5443866&docId=emr_na-c04003114&docLocale=en_US Chapters 4 and 5.

QUESTION 2

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:

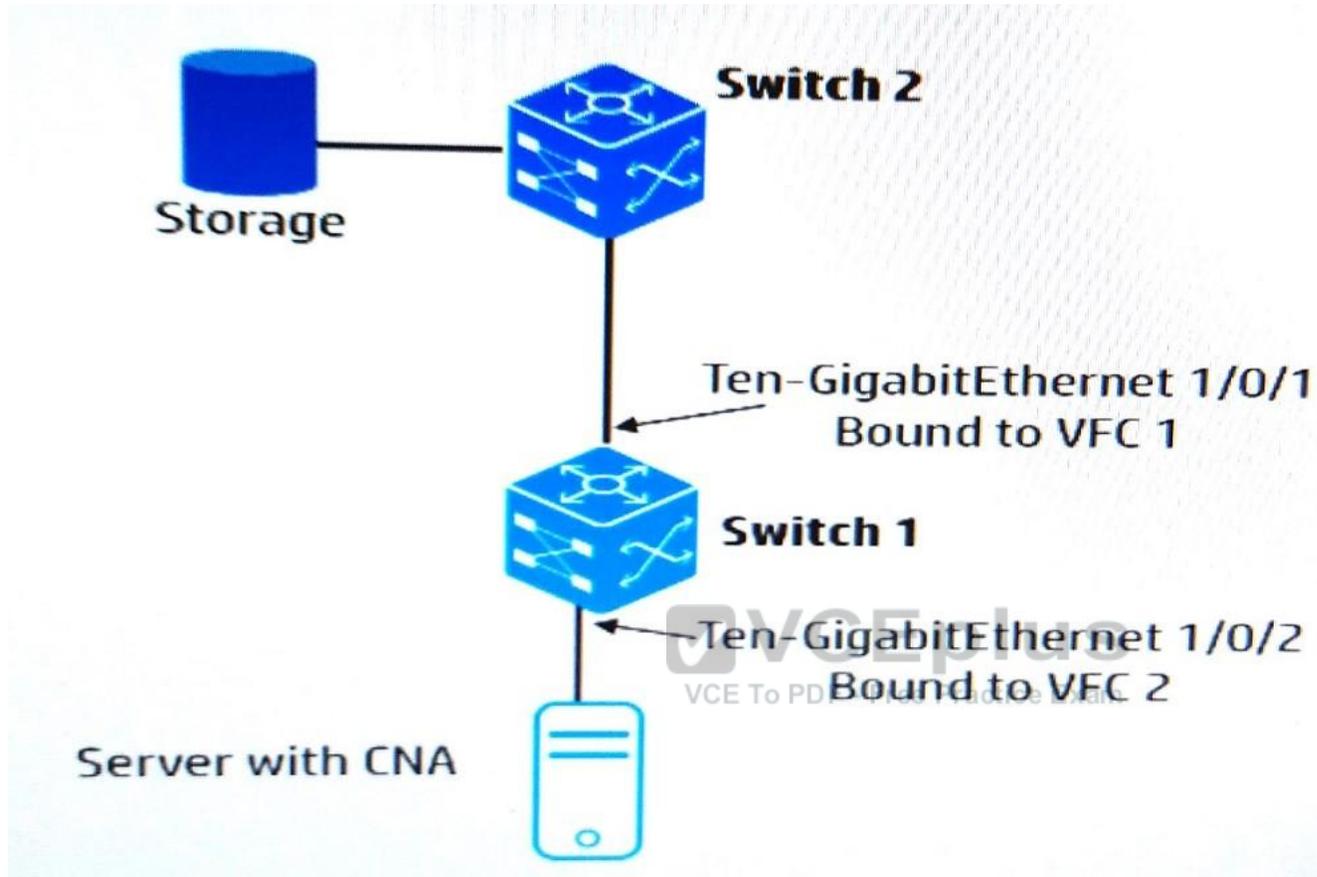
Explanation:

References:

http://h20565.www2.hp.com/hpsc/doc/public/display?sp4ts.oid=5443866&docId=emr_na-c04003114&docLocale=en_US Page 45

QUESTION 3

Refer to the exhibit.



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)

Explanation

Explanation/Reference:

Explanation:

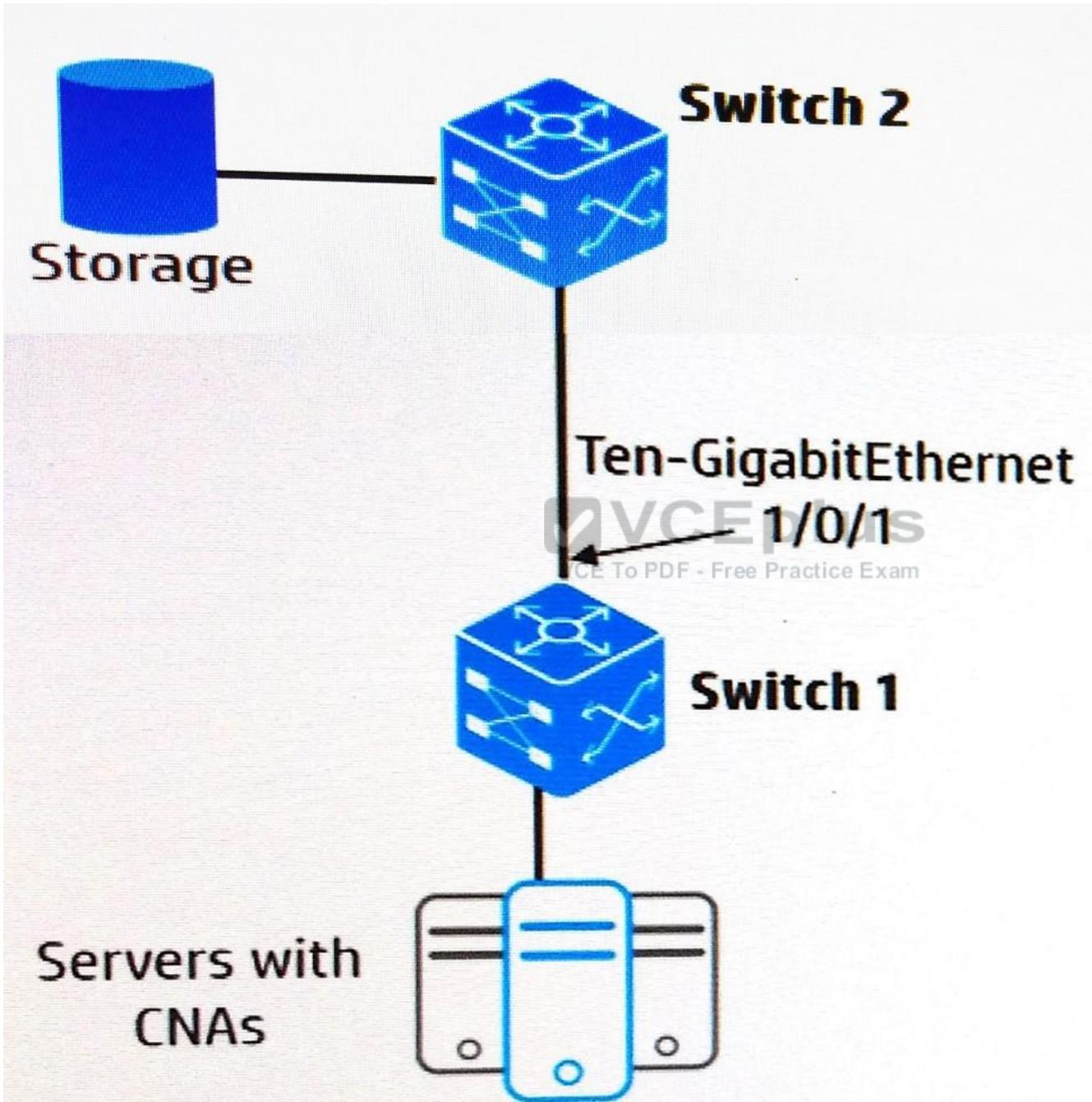
References:

<http://h10032.www1.hp.com/ctg/Manual/c03655100>Page: 8-9

QUESTION 4

Refer to the exhibit.





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:

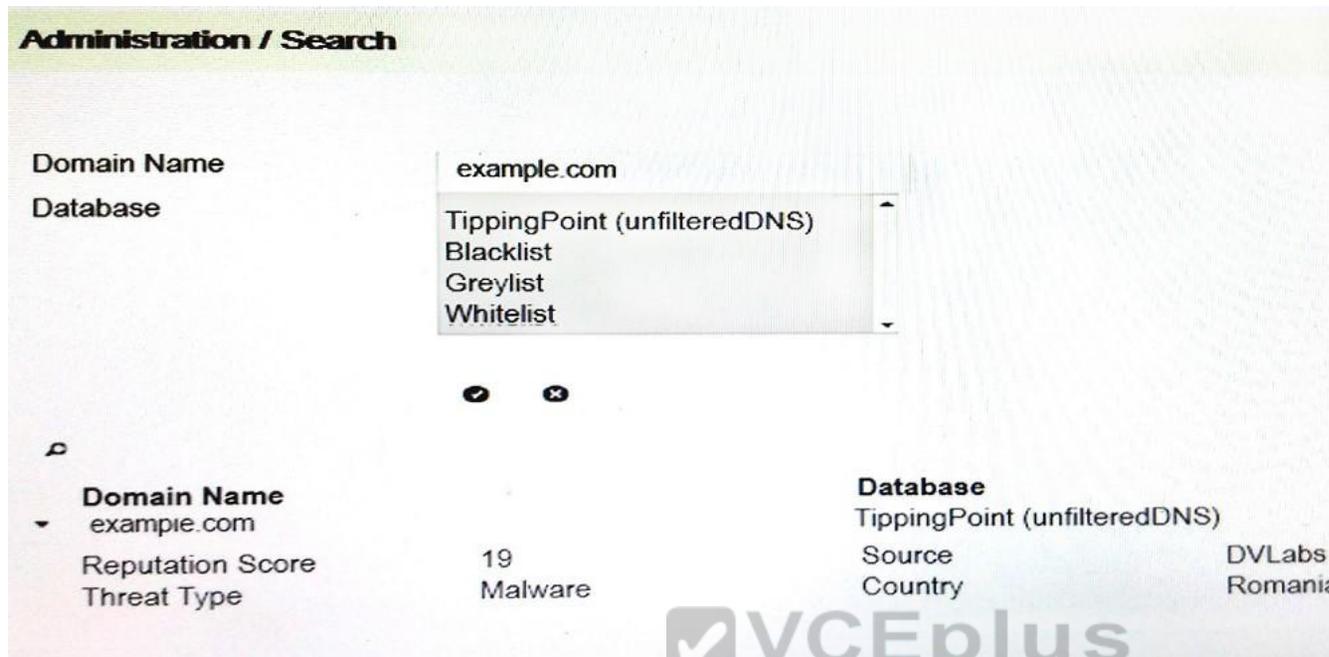
Explanation:

References:

[http://h10032.www1.hp.com/ctg/Manual/c04088668Page: 253](http://h10032.www1.hp.com/ctg/Manual/c04088668Page:253)

QUESTION 5

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.
- 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)

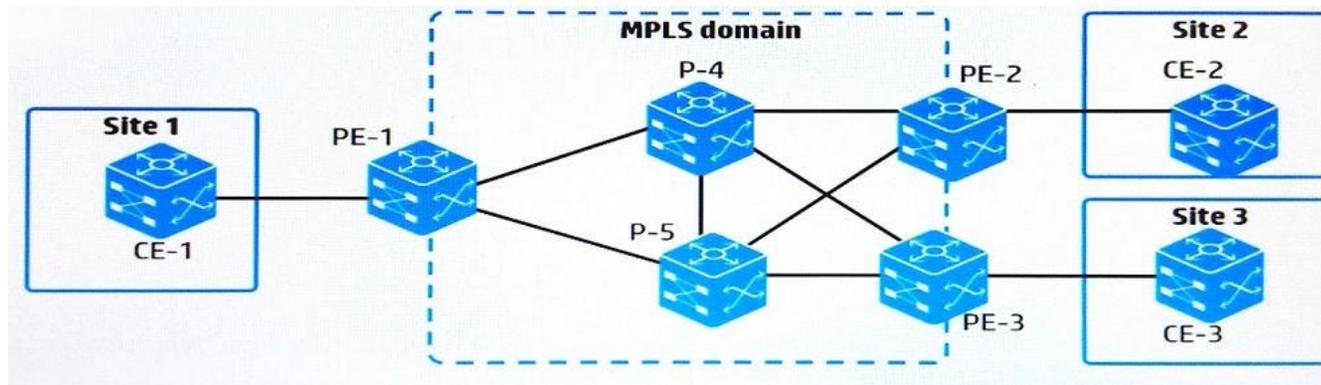
Explanation

Explanation/Reference:

Explanation:

QUESTION 6

Refer to the exhibit.



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 see the labels used along the path. Which step should the administrator take to obtain this information?

- A. Run a traceroute 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:

References:

<http://blog.ine.com/2008/11/24/mpls-ping-and-traceroute/>

QUESTION 7

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?

- 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:
Explanation:

QUESTION 8

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?

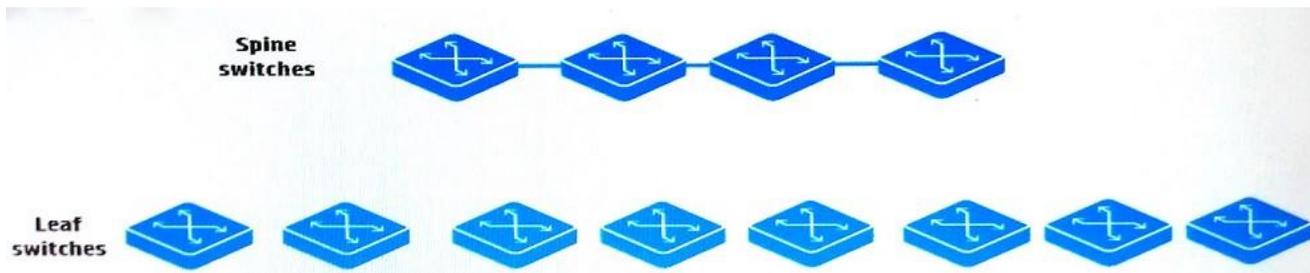
- A. Set up a QinQ subinterface for each tenant on the EVI tunnel interfaces.
- B. Set up a unique EVI network ID for each tenant and extend that tenant's VLANs over that EVI network.
- C. Set up a routed subinterface for each tenant on the EVI tunnel interfaces.
- D. Extend all VLANs over the same EVI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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 9

Refer to the exhibit.



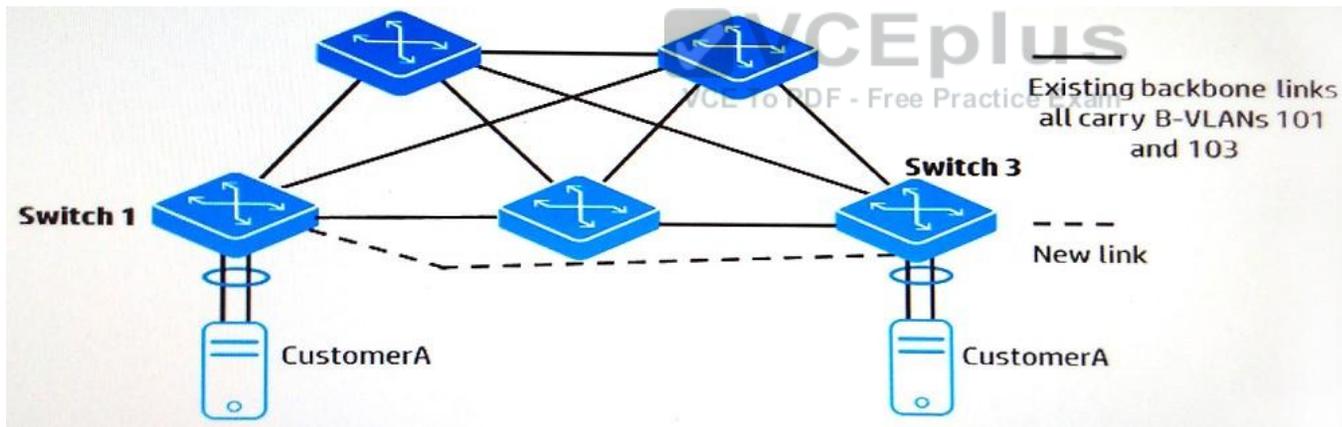
A network administrator wants to create a leaf and spine topology. How should the administrator connect the switches for the best latency and load-balancing?

- A. Connect each leaf switch to each spine switch, and run a protocol such as EVI.
- B. Connect each leaf switch to half of the spine switches, and run a protocol such as TRILL.
- C. Connect each leaf switch to each spine switch, and run a protocol such as TRILL.
- D. Connect each leaf switch to half of the spine switches, and run a protocol such as EVI.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 10
Refer to the exhibit.



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?

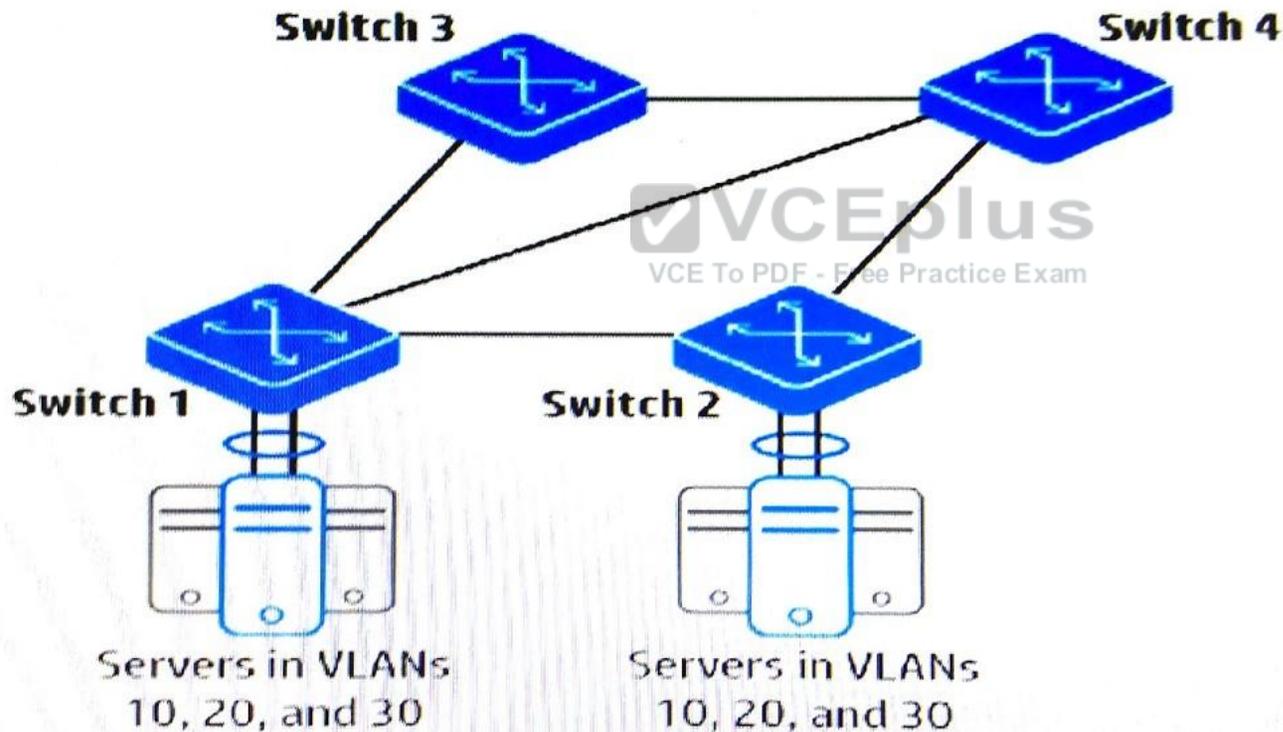
- A. by assigning the CustomerA interfaces and the specific links in the path to the same S-VLAN ID
- B. by creating a PW connection between Switch 1 and Switch 3, and mapping the CustomerA service instance to that PW

- 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:
Explanation:

QUESTION 11
Refer to the exhibit.



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:

References:

https://en.wikipedia.org/wiki/Equal-cost_multi-path_routing

QUESTION 12

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:

QUESTION 13

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

Explanation/Reference:

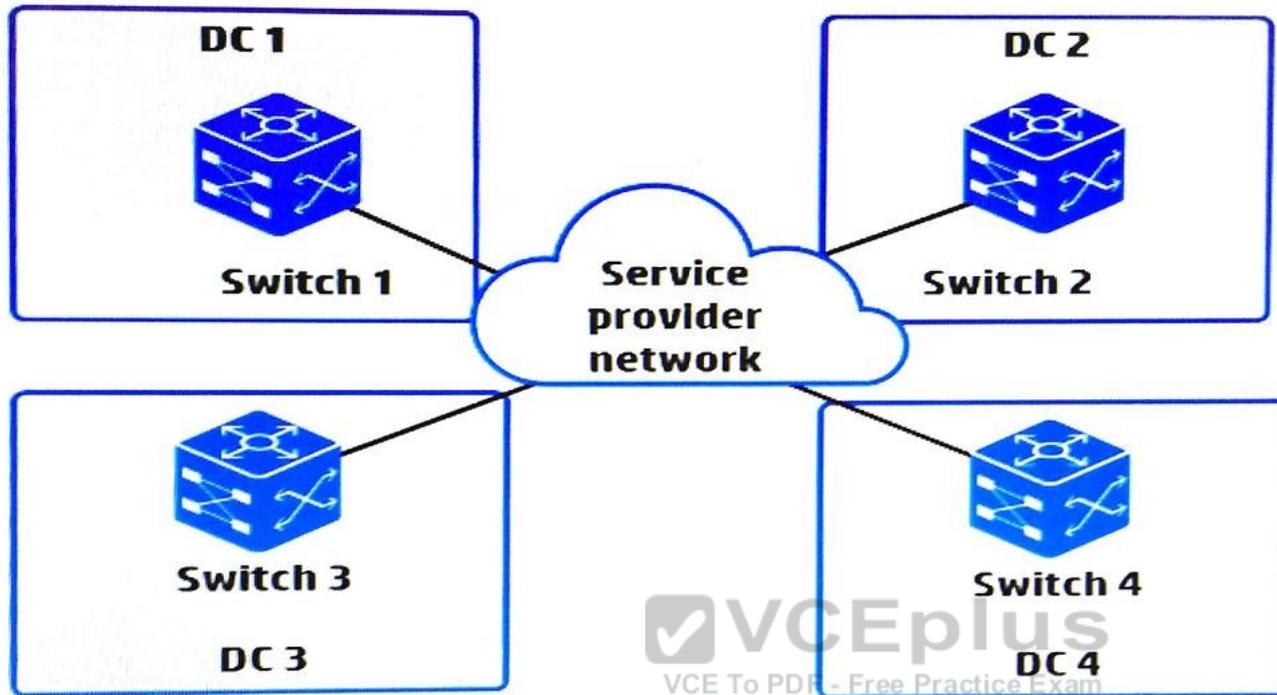
Explanation:

References:

<http://h17007.www1.hp.com/docs/reports/irf.pdf>

QUESTION 14

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 15

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: _____
```

Exhibit 2

```
[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

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

Section: (none)

Explanation

Explanation/Reference:

Explanation:

References:

<https://www.opennetworking.org/images/stories/downloads/sdn-resources/onf-specifications/openflow/openflow-spec-v1.3.3.pdf>Page: 13

QUESTION 16

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
```

```
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:
```

Exhibit 2



```
<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
```

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. MissRule flow entry information
- C. Flow entry 1 information
- D. Flow table

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 17

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:

Explanation:

QUESTION 18

Refer to the exhibit.

```
<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-distinguisher 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
```

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

Explanation/Reference:

Explanation:

QUESTION 19

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:

References:

http://h20565.www2.hp.com/hpsc/doc/public/display?sp4ts.oid=8241931&docId=emr_na-c04724330&docLocale=en_USPage: 12

QUESTION 20

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:

QUESTION 21

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 22

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?

- A. OpenFlow instance 1 mapped to VLAN 1; OpenFlow instance 2 mapped to VLAN 2; OpenFlow instance 2 mapped to VLAN 3
- B. OpenFlow instance 1 mapped to VLAN 2; OpenFlow instance 2 mapped to VLAN 3
- C. OpenFlow instance 1 mapped to VLAN 1 and 2; OpenFlow instance 2 mapped to VLAN 1 and 3
- D. AggregateOpenFlow instance

Correct Answer: B

Section: (none)

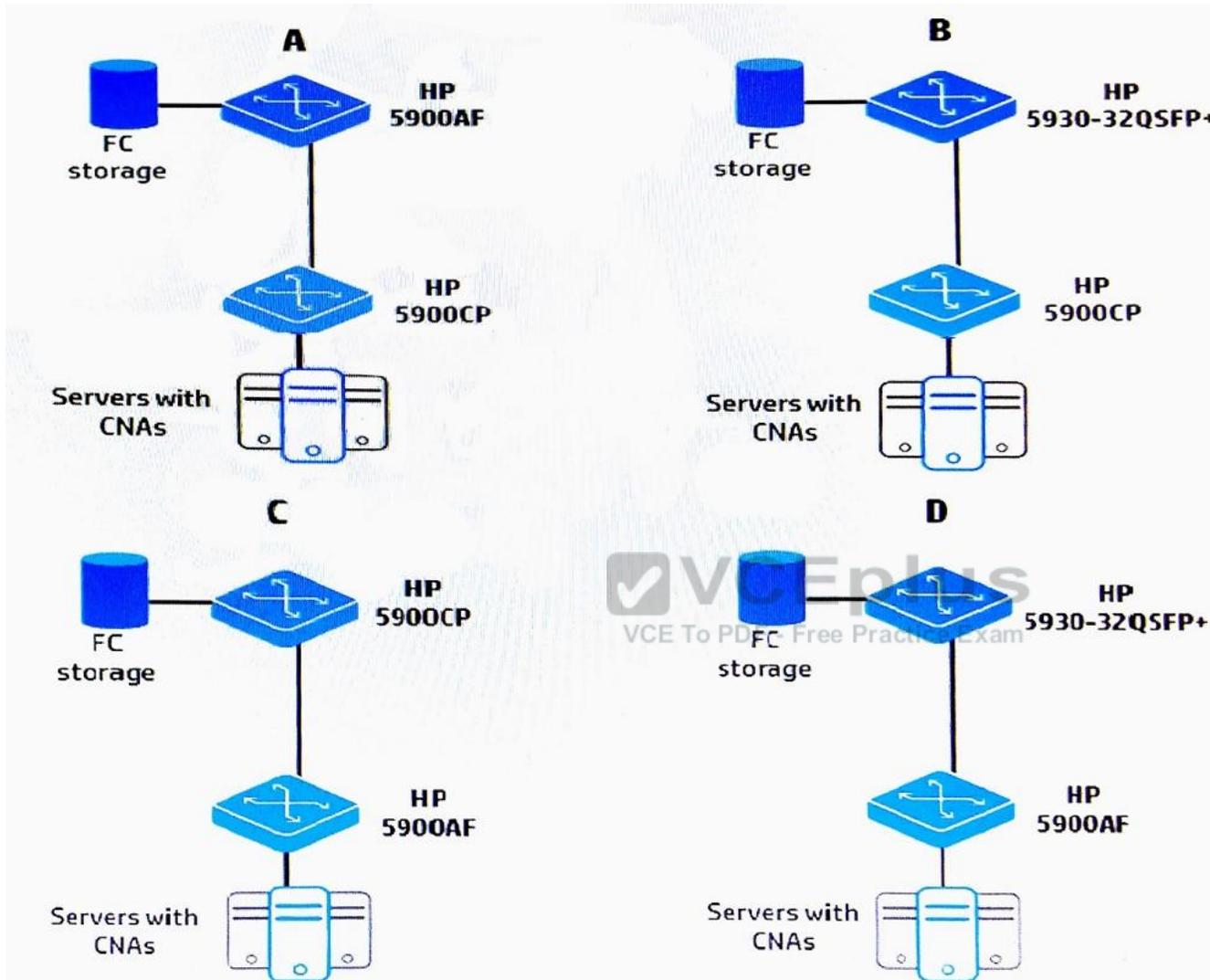
Explanation

Explanation/Reference:

Explanation:

QUESTION 23

Refer to the exhibit.



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:

References:

<http://h10032.www1.hp.com/ctg/Manual/c04214037>

QUESTION 24

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
           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
```

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
```

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.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 25

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 OpenFlow 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:

QUESTION 26

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. greylists
- D. Redirection server

Correct Answer: A

Section: (none)

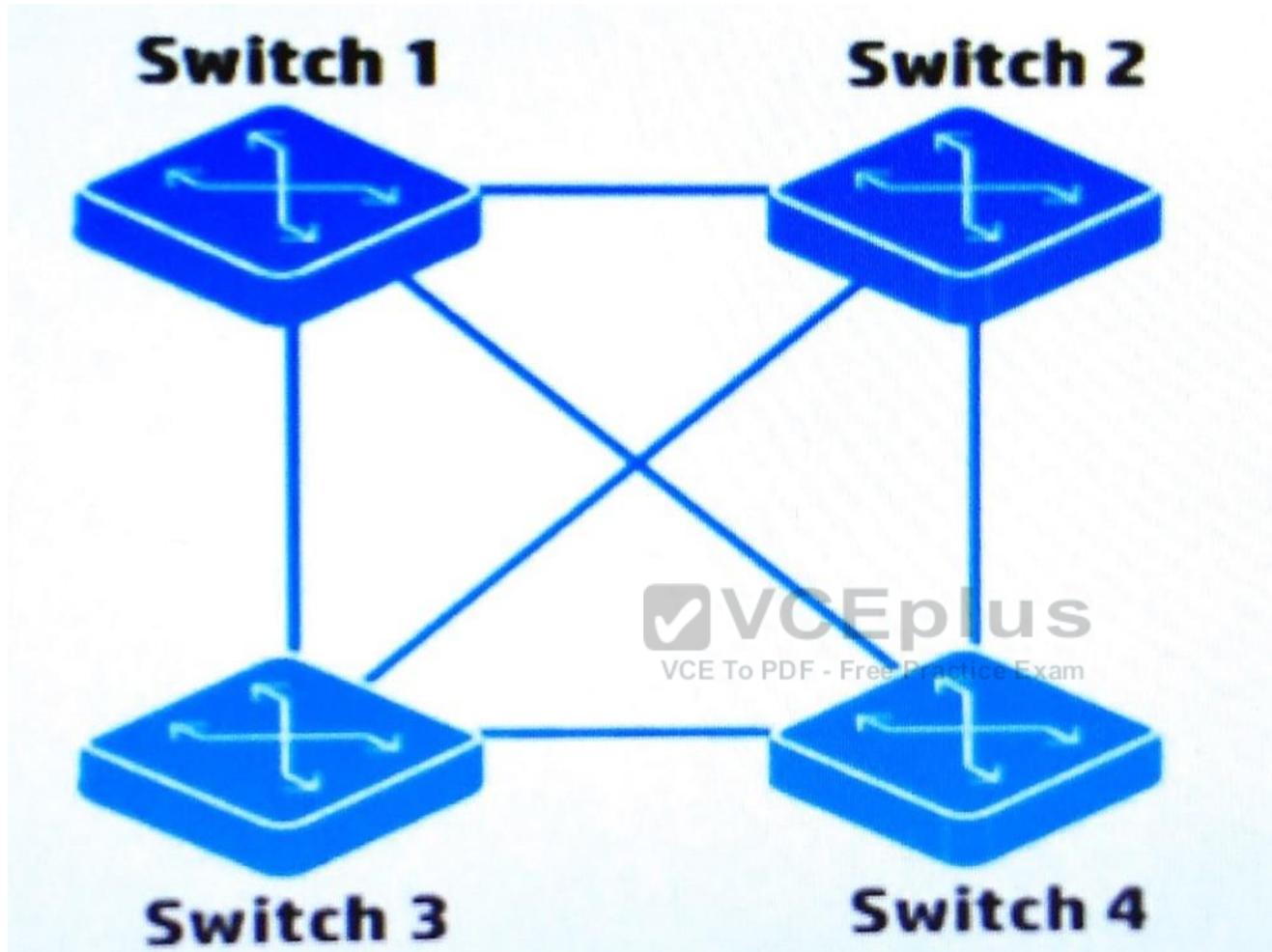
Explanation

Explanation/Reference:

Explanation:

QUESTION 27

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-enabled switches 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

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 28

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:

QUESTION 29

Refer to the exhibit.

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
▶ 100	31500	0	0	eth_type:ipv4 ip_proto:udp udp_src:67	goto_table:200		com.hp.sdn.dh
▶ 100	31500	0	0	udp_dsl:68 eth_type:ipv4 ip_proto:udp udp_src:68	goto_table:200		com.hp.sdn.dh
▶ 100	60000	0	0	udp_dsl:67 eth_type:bddp	apply_actions: output: CONTROLLER		com.hp.sdn.bd
▶ 100	31000	0	0	eth_type:arp	goto_table:200		com.hp.sdn.arp
▶ 100	0	2542	0		apply_actions: output: NORMAL		com.hp.sdn.ip.
▶ 200	31500	0	0	eth_type:ipv4 ip_proto:udp udp_src:67	apply_actions: output: CONTROLLER output: NORMAL		com.hp.sdn.dhc
▶ 200	31500	0	0	udp_dsl:68 eth_type:ipv4 ip_proto:udp udp_src:68	apply_actions: output: CONTROLLER output: NORMAL		com.hp.sdn.dhc
▶ 200	31000	0	0	udp_dsl:67 eth_type:arp	apply_actions: output: CONTROLLER output: NORMAL		com.hp.sdn.arp
▶ 200	0	0	0		apply_actions: output: NORMAL		com.hp.sdn.ip.r

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

Explanation/Reference:

Explanation:

QUESTION 30

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 that excludes VLAN 1, 20, and 30

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 31

Refer to the exhibits.

Exhibit 1

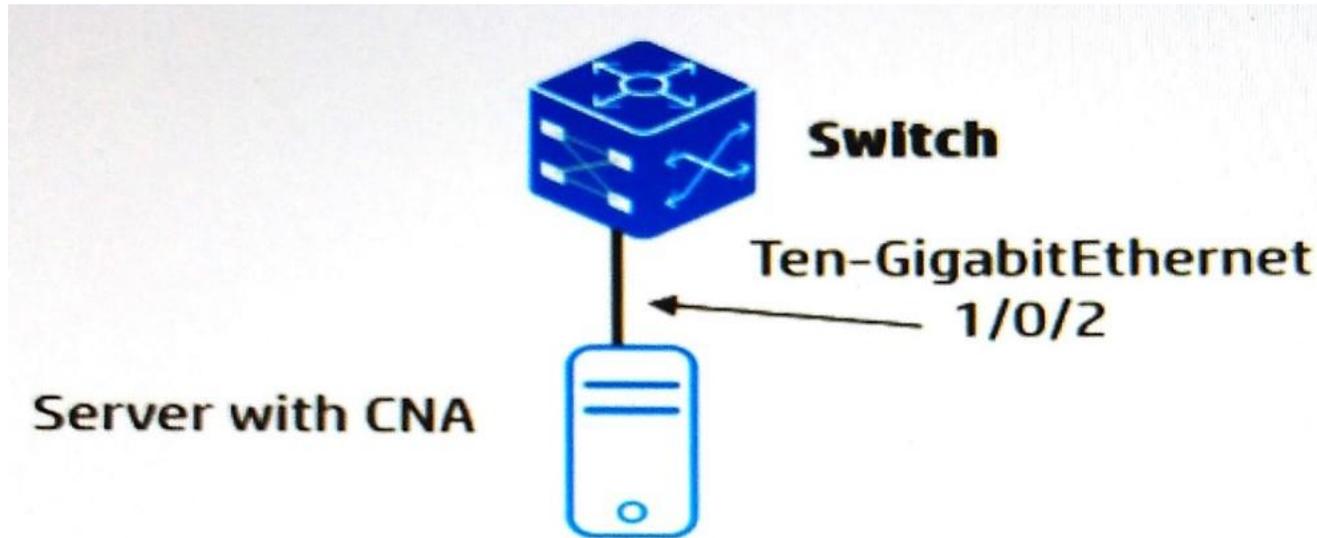


Exhibit 2

```
#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 dot1p-tlv dcbx
    qos wrr 0 group 1 byte-count 4
    qos wrr 1 group 1 byte-count 6
```



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 802.1p 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

Explanation/Reference:

Explanation:

QUESTION 32

Refer to the exhibit.

```
curl --noproxy 192.168.56.10 --header "X-Auth-Token:$token" \  
--header "Content-Type:application/json" --fail -kiss \  
--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"  
    ]  
  }  
}
```



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 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)

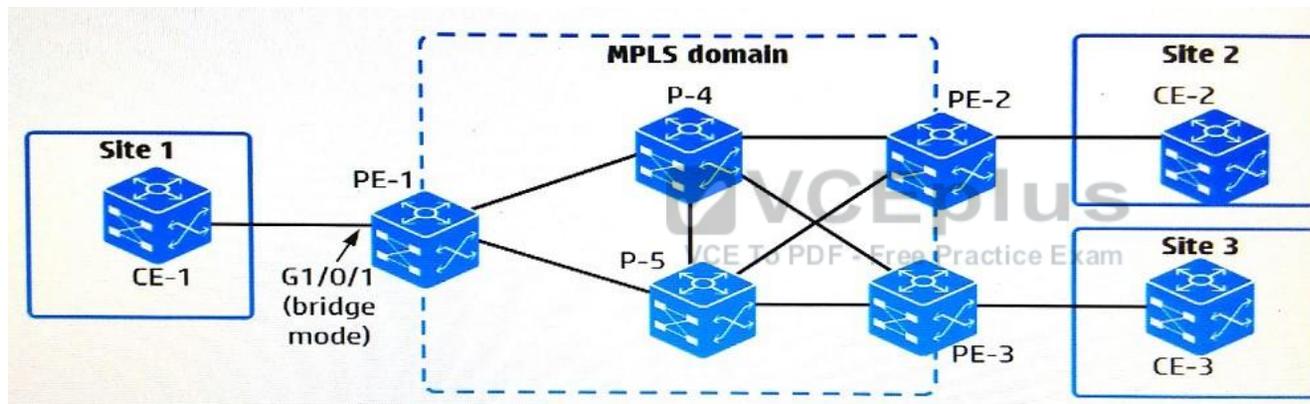
Explanation

Explanation/Reference:

Explanation:

QUESTION 33

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.
- 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:

Explanation:

QUESTION 34

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 repair the 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 and Controller 3.
- D. Controller 2 becomes the master for all switches in the region, and Controller 1 becomes the primary slave for the region.

Correct Answer: B

Section: (none)

Explanation

**Explanation/Reference:**

Explanation:

References:

http://h22208.www2.hp.com/eginfolib/networking/docs/sdn/sdnc2_6/5998-8472admin/content/s_curl-team-config.html#s_region-failover

QUESTION 35

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 36

Refer to the exhibit.

```
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
```

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:

Explanation:

QUESTION 37

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

Exhibit 1

Browser address bar: <https://192.168.4.73:8443/sdn/ui/app/index#oftopo>

HP VAN SDN Controller 32

General / OpenFlow Topology

⌘ Src ⌘ Dst +/- Shortest Path View ? Search

Alerts
Applications
Configurations
Audit Log
Licenses
Team
Support Logs

OpenFlow Monitor
OpenFlow Topology
OpenFlow Trace
OpenFlow Classes
Packet Listeners

Reload

```
graph TD; N1[192.168.0.221:1] --- 2 --- N2[192.168.0.249:1]; N1 --- 3 --- N3[192.168.0.252:1]; N2 --- 1 --- N3;
```

Exhibit 2

HP VAN SDN Controller

Ports for Data Path ID: 00:01:d0:bf:9c:d0:c4:c0

Port ID	Port Name	H/W Address	State	Current Features
1	1	d0:bf:9c:d0:c4:ff	live	rate_1gb_fd, aut.
2	2	d0:bf:9c:d0:c4:fe	blocked	rate_1gb_fd, aut.
3	3	d0:bf:9c:d0:c4:fd	link_down	
4	4	d0:bf:9c:d0:c4:fc	link_down	
5	5	d0:bf:9c:d0:c4:fb	link_down	
6	6	d0:bf:9c:d0:c4:fa	link_down	
7	7	d0:bf:9c:d0:c4:f9	link_down	
8	8	d0:bf:9c:d0:c4:f8	link_down	
9	9	d0:bf:9c:d0:c4:f7	link_down	
10	10	d0:bf:9c:d0:c4:f6	link_down	
11	11	d0:bf:9c:d0:c4:f5	link_down	
12	12	d0:bf:9c:d0:c4:f4	link_down	
13	13	d0:bf:9c:d0:c4:f3	link_down	
14	14	d0:bf:9c:d0:c4:f2	link_down	
15	15	d0:bf:9c:d0:c4:f1	link_down	

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

Explanation/Reference:

Explanation:

QUESTION 38

Which common data center requirement does an HP EVI solution meet?

- A. It simplifies the configuration of an MPLS Layer 2 VPN between multiple data centers by automating the establishment of label switched paths (LSPs).
- B. It helps to ensure disaster recovery by automating backups and VM migration between two data centers.
- C. It enhances multi-data center solutions by extending Layer 2 connectivity across data centers connected at Layer 3.
- D. It strengthens security for Layer 2 communications between data centers by automatically establishing MAC encryption between sites.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

References:

<http://h17007.www1.hp.com/docs/814/factsheet.pdf>

QUESTION 39

What is a benefit of the HP Network Protector SDN Application as opposed to a traditional IDS/IPS?

- A. HP Network Protector uses anomaly-based threat detection so that it can detect zero-day threats.
- B. HP Network Protector detects threats based on custom blacklists exclusively, preventing false positives.
- C. HP Network Protector is deployed on a hardware appliance that sits inline between a protected and unprotected zone.

D. HP Network Protector dynamically programs the network to drop malicious traffic at the point of connection.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

References:

<http://h20195.www2.hp.com/V2/getpdf.aspx/4AA5-7852ENW.pdf?ver=1.0>Page: 9

QUESTION 40

Refer to the exhibits.

Exhibit 1

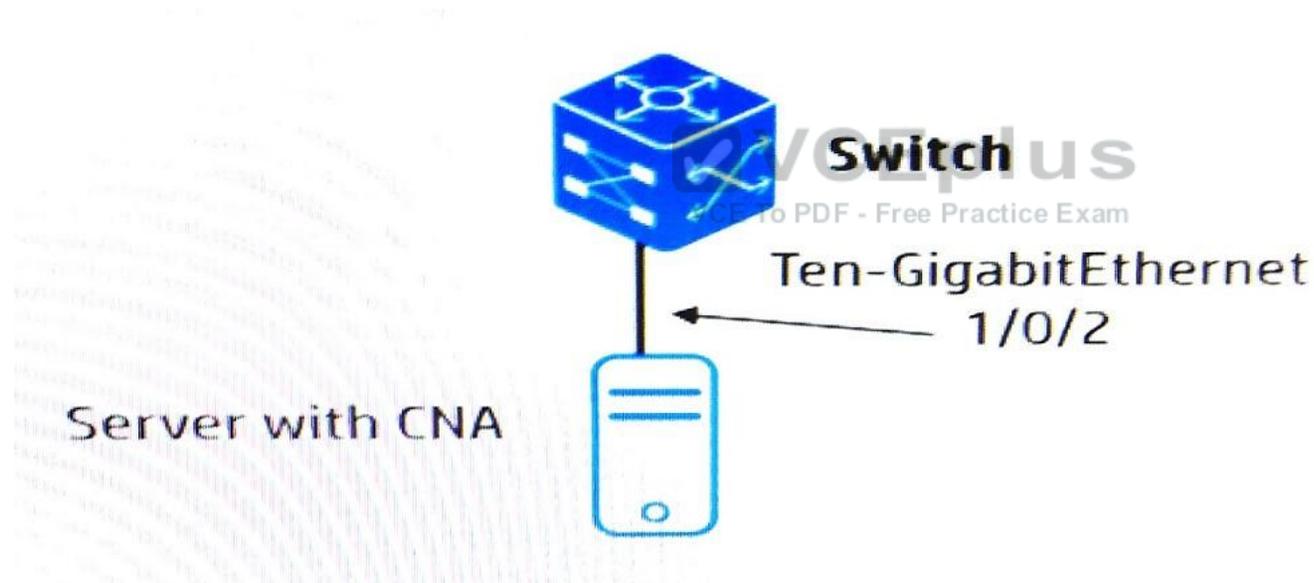


Exhibit 2

```
#
lldp global enable
#
qos policy fcoe
  classifier fcoe behavior dot1p3 mode dcbx
traffic classifier fcoe
  if-match acl 4000
traffic behavior dot1p3
  remark dot1p 3
acl number 4000 name fcoe
  rule 5 permit type 8906 ffff
#
interface TenGigabitEthernet1/0/2
  lldp tlv-enable dot1-tlv dcbx
  qos apply policy fcoe outbound
  priority-flow-control auto
```

The switch and server will transmit Fibre Channel over Ethernet (FCoE) traffic on the Ethernet link. If congestion occurs, the devices should pause the FCoE transmissions rather than drop them. What must the network administrator do on interface Ten-GigabitEthernet 1/0/2 to enable this behavior?

- A. Enable Enhanced Traffic Selection (ETS) TLVs.
- B. Assign the QoS policy as an inbound policy.
- C. Set the priority flow control no-drop queue to 802.1p3.
- D. Configure queue3 as a strict priority (sp or group0) queue.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 41

An HP Comware switch has four MDCs defined on it. Network administrators need to set up SSH access to each MDC and want to use the Management-Ethernet interface for that purpose. What is a valid configuration?

- A. The same Management-Ethernet interface is assigned to each MDC. Each MDC assigns the same IP address to this interface.
- B. The Management-Ethernet interface is divided into four subinterfaces, each of which is assigned to an MDC. Each MDC assigns a different IP address to its subinterface.
- C. The same Management-Ethernet interface is assigned to each MDC. Each MDC assigns a different IP address to this interface.
- D. The Management-Ethernet interface is divided into four subinterfaces, each of which is assigned to an MDC. Each MDC assigns the same IP address to its subinterface.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:



QUESTION 42

Refer to the exhibits.

Exhibit 1.

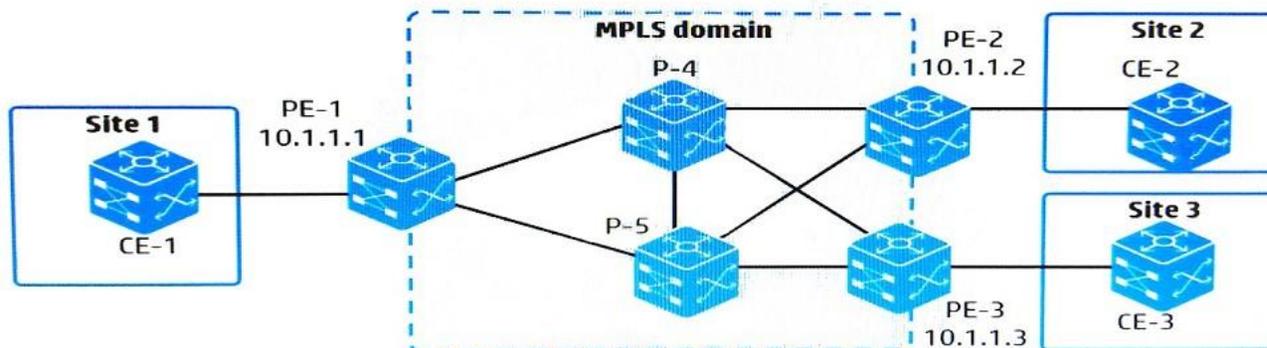


Exhibit 2

```
[PE-1-vsi-customer1] display this
#
pwsignal ldp
peer 10.1.1.2 pw-id 1001
```

```
[PE-2-vsi-customer1] display this
#
pwsignal ldp
peer 10.1.1.3 pw-id 1002
```

```
[PE-3-vsi-customer1] display this
#
pwsignal ldp
peer 10.1.1.1 pw-id 1001
```

A network administrator is setting up a VPLS solution to connect sites 1, 2, and 3. Exhibit 2 shows part of the configuration. What are correct peer statements for completing the configuration?

- A. PE-1: peer 10.1.1.3 pw-id 1001PE-2: peer 10.1.1.1 pw-id 1001PE-3: peer 10.1.1.2 pw-id 1002
- B. PE-1: peer 10.1.1.3 pw-id 1002PE-2: peer 10.1.1.1 pw-id 1001PE-3: peer 10.1.1.2 pw-id 1002
- C. PE-1: peer 10.1.1.3 pw-id 1003PE-2: peer 10.1.1.1 pw-id 1001PE-3: peer 10.1.1.2 pw-id 1002
- D. PE-1: peer 10.1.1.3 pw-id 1001PE-2: peer 10.1.1.1 pw-id 1002PE-3: peer 10.1.1.2 pw-id 1001

Correct Answer: C

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

QUESTION 43

A company has a data center, which hosts production services, as well as development and quality assurance services. The network infrastructure for all services should be isolated. The company also needs a highly available, resilient large Layer 2 network for each set of services.

What are two technologies that could be combined for the data center Layer 2 solution?

- A. MDC and TRILL
- B. SPBM and VPLS
- C. SPBM and TRILL
- D. VPLS and TRILL

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 44

Refer to the exhibits.

Exhibit 1

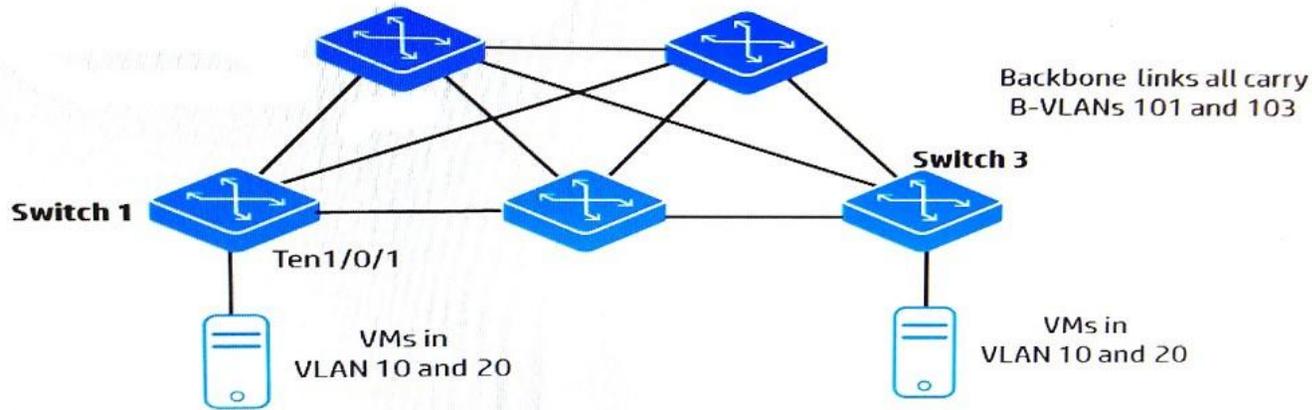


Exhibit 2

```
#Portions of the running-config for switch 1
```

```
vsi 10  
  spb i-sid 10  
  b-vlan 101
```

```
#
```

```
vsi 20  
  spb i-sid 10  
  b-vlan 103
```

```
interface Ten-GigabitEthernet1/0/1
```

```
  port link-mode bridge  
  service-instance 1  
    encapsulation s-vid 10  
    xconnect vsi 10  
  service-instance 2  
    encapsulation s-vid 20  
    xconnect vsi 20
```



The switches shown in the exhibit are implementing SPBM. The network administrator is now setting up interface Ten-GigabitEthernet1/0/1 to connect to a new VMware host. What is the correct port type and VLAN assignment for the switch interface Ten-GigabitEthernet1/0/1?

- A. access port that permits the default VLAN
- B. trunk port that permits VLANs 101 and 103
- C. trunk port that permits VLANs 10 and 20
- D. hybrid port that permits VLANs 201 and 203

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 45

What is a benefit of enabling tandem multicast replication for SPBM?

- A. Multicasts follow a better path to each destination than they would with head-end replication.
- B. An ingress SPBM switch does not have the load of replicating and forwarding many copies of a multicast.
- C. An ingress SPBM switch can load-balance multicasts over multiple equal-cost paths to a destination, even when the multicasts belong to the same SID.
- D. SPBM switches can send multicasts as both multicasts and unicasts, increasing reliability for the transmission.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:



QUESTION 46

A customer has an existing network that includes HP Comware switches. The company wants to begin implementing SDN using the HP VAN SDN Controller. How does the company ensure that it meets the requirements for the solution at the SDN infrastructure layer?

- A. Check the HP website and replace the HP Comware switches with recommended HP 5900v switches.
- B. Check the HP website and replace the HP Comware switches with HP Virtual Service Routers (VSRs).
- C. Check the support matrix and deploy supported HP SDN applications such as Virtual Cloud Networking.
- D. Check the support matrix and upgrade to the switch software that supports OpenFlow and the controller.

Correct Answer: D

Section: (none)

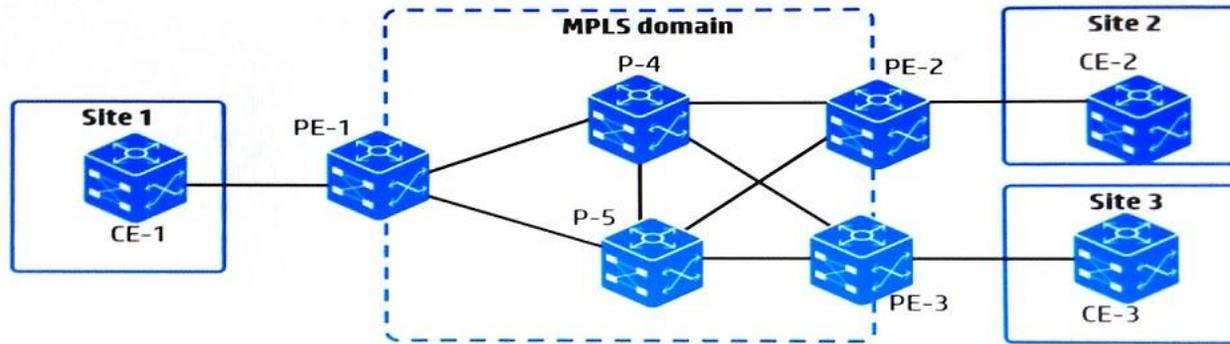
Explanation

Explanation/Reference:

Explanation:

QUESTION 47

Refer to the exhibit.



Assume that the switches in the MPLS region are correctly configured with OSPF, MPLS, and LDP. They are using liberal retention mode for labels.

The network administrator wants LSP convergence to occur as quickly as possible in case one of the redundant links fails. What should the administrator do on each MPLS switch?

- A. Enable MPLS ECMP
- B. Change the label retention mode to conservative.
- C. Tune OSPF convergence.
- D. Configure redundant remote LDP sessions.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 48

Which benefit does the HP Network Visualizer SDN Application provide that traditional traffic mirroring does not?

- A. Administrators can send traffic directly to an HP cloud solution for deep analysis.
- B. Switches can mirror traffic that has a source and destination in different VLANs.
- C. Administrators can quickly set up packet captures based on criteria such as MAC address or username.
- D. Switches can send traffic to a remote capture destination rather than only mirror it locally.

Correct Answer: C

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

QUESTION 49

A company is using the HP Network Visualizer SDN Application. The network administrator wants to synchronize user data from Microsoft Active Directory. What must the administrator check on the Microsoft Active Directory server to ensure a successful synchronization?

- A. it runs an SSH server
- B. it supports SNMPv3.
- C. it is installed with a trusted certificate
- D. it supports OpenFlow

Correct Answer: A

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

References:

<http://h20564.www2.hp.com/hpsc/doc/public/display?docId=c05040369Page: 22>

**QUESTION 50**

A company wants to authenticate communications between SDN applications and the HP VAN SDN Controller using the company's existing network authentication server. What is one of the components that the authentication server requires to authenticate these applications?

- A. Terminal Access Controller Access-Control System (TACACS)
- B. RADIUS protocol
- C. X-Auth-Token
- D. LDAP Pluggable Authentication Modules (PAM)

Correct Answer: D

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

QUESTION 51

A company has an HP VAN SDN Controller. Network administrators plan to design their own tools to automate:

- The retrieval of information about OpenFlow devices and end hosts
- Backups and restores of the controller

What should the administrators use in these tools to automate these processes?

- A. CLI commands
- B. REST API calls
- C. Java script
- D. OpenStack API calls

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

References:

http://h20628.www2.hp.com/km-ext/kmcsdirect/emr_na-c04383851-2.pdf Page: 6

QUESTION 52

A customer has a data center but needs to expand to a new site. The new site will provide disaster recovery services. The customer needs to migrate VMs between the data centers. The customer investigates dark fiber as an option to connect the data centers but finds it too expensive. An ISP provides a Layer 3 connection that is within the customer's budget.

Which HP FlexFabric technology helps the customer connect the data centers as desired?

- A. EVI
- B. IRF
- C. SPBM
- D. TRILL

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

References:

<http://h17007.www1.hp.com/docs/814/factsheet.pdf>

QUESTION 53

A company has a VoIP solution that is managed by a third party. The company wants to isolate the VoIP traffic at the IP level so that:

- VoIP devices have their own IP addressing.
- The third-party provider can only access the VoIP network.

The company does not want to isolate the traffic at Layer 1 or 2. Which approach should the company take to accomplish this goal?

- A. Implement MDC and create an MDC for the VoIP network.
- B. Implement EVI and create a unique network ID for the VoIP network.
- C. Implement SPBM and assign the VoIP traffic to its own I-SID.
- D. Implement MCE and create a VPN instance for the VoIP network.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

References:

<http://h10032.www1.hp.com/ctg/Manual/c03187007>

QUESTION 54

The links marked FCoE link shown in the exhibit are links that need to carry FCoE traffic. What is the proper redundant design for IRF 1?

- A. One VSAN, which is bound to FCoE links on both of the physical devices
- B. Two VSANs, each of which is bound to the FCoE links on only one of the physical devices
- C. Four VSANs, two of which are assigned to FCoE links on one of the physical devices and two of which are bound to links on the other device
- D. Two VSANs, each of which is bound to FCoE links on both of the physical devices

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 55

Refer to the exhibit.

Partial running-config:

```
openflow
  controller-id 1 ip 192.168.1.12 controller-interface vlan 1
  instance "Clients"
    member vlan 10
    controller-id 1
    passive-mode
    enable
```

A network administrator wants to add two separate software tables to Openflow instance "Clients." Which step must the administrator complete first?

- A. Change the version to 1.3 on the instance.
- B. Enable a hardware limit globally.
- C. Enable IP control mode globally.
- D. Define the instance as an aggregate instance.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:



QUESTION 56

A network administrator establishes an IRF device that consists of two HP 12500 Switch Series switches. The administrator creates a new MDC, MDC2. The administrator assigns physical interfaces on both 12500 switches to MDC2.

Which additional step must the administrator take to ensure that the IRF virtual device property supports MDC2?

- A. Set up an additional IRF link that uses ports assigned to MDC2.
- B. Assign each switch a unique IRF member ID within MDC2.
- C. Configure the IRF domain ID within MDC2 with the same ID configured in the Admin MDC.
- D. Enable IRF functions on the modules that are assigned to MDC2.

Correct Answer: A

Section: (none)

Explanation**Explanation/Reference:**

References:

<http://h20195.www2.hp.com/V2/getpdf.aspx/4AA6-1336ENW.pdf?ver=1.0>**QUESTION 57**

An HP ProVision switch is controlled by a team of HP VAN SDN Controllers. In which settings can the network administrator specify which controller will become the master controller for the switch?

- A. switch OpenFlow instance settings
- B. controller team region settings
- C. switch OpenFlow controller settings
- D. controller team datapath settings

Correct Answer: B**Section: (none)****Explanation****Explanation/Reference:****QUESTION 58**

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. greylists
- B. blacklists
- C. Policies
- D. ACL Manager

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

References:

http://h20628.www2.hp.com/km-ext/kmcsdirect/emr_na-c04647299-4.pdf Page 51**QUESTION 59**

A cloud service provider has multiple data centers. The provider wants to manage the complete multi-data center environment and provision networking services for VMs in the cloud. The provider is looking for a solution that automates configuration and integrates with cloud services.

Which HP solution meets the provider's requirements?

- A. HP Virtual Cloud Networking (VCN)
- B. HP Distributed Cloud Networking (DCN)
- C. HP IMC integrated with OneView
- D. HP-VMware Networking Solution

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 60

A switch is configured with four OpenFlow tables: Table 0, Table 50, Table 100, and Table 200. Which table will reject the go-to-table action in its flows?

- A. Table 0
- B. Table 50
- C. Table 100
- D. Table 200



Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

A flow entry can only direct a packet to a flow table number which is greater than its own flow table number, in other words pipeline processing can only go forward and not backward. The flow entries of the last table of the pipeline cannot include the Goto instruction.

References:

http://h17007.www1.hp.com/docs/networking/solutions/sdn/devcenter/03_-_HP_OpenFlow_Technical_Overview_TSG_v1_2013-10-01.pdf

QUESTION 61

A customer requires greater visibility and insight into traffic flowing between virtual machines (VMs) on the same ESXi host. Which HP product meets these needs?

- A. HP 5900v switch
- B. HP 7900 switch
- C. HP 12500 switch
- D. HP 12900 switch

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

References:

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

QUESTION 62

Refer to the exhibit.

```
qos policy StoragePriority
  classifier Storage behavior Remark3
traffic classifier Storage operator OR
  if-match acl 3000
traffic behavior Remark3
  remark dot1p 3
acl number 3000
  rule 5 permit tcp destination-port eq 3260
```



A network administrator wants to use Application TLVs to communicate application priority information to a Converged Network Adaptor (CNA). The administrator has configured the QoS policy shown in the exhibit for this purpose and applied the policy outbound to the interface connected to the CAN. The solution is not working correctly.

What must be corrected?

- A. The ACL referenced in the traffic classifier must select traffic by UDP source port.
- B. The QoS policy classifier statement must have its mode set to DCBX.
- C. The policy must be applied inbound to the interface.
- D. The application TLVs must be enabled on the interface.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:**QUESTION 63**

A company wants to implement an SDN solution that provides a programmable interface for its data center. The company values interoperability, so the solution should not be tied to a particular vendor.

Which technology allows the company to implement an SDN solution that meets these requirements?

- A. NSX
- B. OpFlex
- C. VXLAN
- D. OpenFlow

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:**QUESTION 64**

A company needs to integrate its HP Network Visualizer solution with Microsoft Windows Active Directory (AD). During the LDAP profile configuration in Network Visualizer, the administrator must enter a user name and password for an account in AD. The network administrator and domain administrator discuss the setup for this account.

Which requirement should the network administrator communicate about the account?

- A. The account must be a member of every domain user group.
- B. The account must be a domain administrator.
- C. The account must have read access to AD event logs.
- D. The account must have read write access to DNS services.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

References:

<http://h20564.www2.hp.com/hpsc/doc/public/display?docId=c04724330> Page: 19

QUESTION 65

A company has an external SDN application that works with an HP VAN SDN Controller. The application programmer has tried testing several RESTful API calls but receives authentication errors. What does the network administrator need to explain to the programmer?

- A. Every RESTful API call must include an X-Auth token. The token must be created by a valid certification authority (CA) and installed on both the controller and external application in advance.
- B. Every RESTful API call must include a valid username and password. The only exception is when the AuthRequired parameter is set to false in restful. onf file.
- C. The application must be installed with a certificate that is signed by the same certification authority (CA) that signed the VAN SDN Controller certificate.
- D. Every RESTful API call must include an X-Auth token. The token can be obtained by sending a call with valid credentials to https:// Controller_IP:8443/sdn/v2.0/auth.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

References:

http://h17007.www1.hp.com/docs/networking/solutions/sdn/devcenter/09_-_HP_SDN_REST_API_and_Security_TCG_v1_3013-10-01.pdf Page: 2

QUESTION 66

An HP Comware switch supports four MDCs. The operations of MDC 1, MDC 2, and MDC 3 are unreliable. The network administrator discovers that MDC 4 has very large routing tables.

What is the first step the administrator should take to resolve the issues for MDC 1, 2, and 3?

- A. Assign a storage limit to MDC 4.
- B. Assign a memory limit to MDC 4.
- C. Assign a lower CPU weight to MDC 4.
- D. Assign an absolute route limit to MDC 4.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 67

A company plans to develop an SDN application in-house. The application will implement complex policies that make forwarding decisions, as well as

set priorities and rate limits for various types of traffic. How can OpenFlow 1.3 accommodate these actions?

- A. Only the actions applied in the last table to which a packet is matched take effect, so flows in the highest numbered table must specify all desired actions.
- B. The application must define groups, which consist of multiple actions. Flows then specify those groups in forwarding actions.
- C. Flows must be added to a software flow table in order to accommodate complex flows with multiple actions.
- D. Packets can be matched against multiple flow tables, accumulate a different type of action from each matching flow, and execute all actions as a set.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

References:

<https://www.opennetworking.org/images/stories/downloads/sdn-resources/onf-specifications/openflow/openflow-spec-v1.3.1.pdf> Page: 13

QUESTION 68

A company has an HP Helion CloudSystem solution that includes HP Virtual Cloud Network (VCN). The company is using VXLAN to create overlay networks for services deployed in the cloud. Some of these services are deployed on “bare metal” servers, which are not virtualized.

Based on these needs, which additional component must be included in the solution?

- A. HP 5930 switch
- B. HP IMC and SDN Manager
- C. HP Distributed Cloud Network (DCN)
- D. HP Network Optimizer

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

References:

<http://h20195.www2.hp.com/V2/getpdf.aspx/4AA5-6480ENW.pdf> Page: 22

QUESTION 69

A company has an HP VAN SDN Controller with Network Protector solution. The network administrator wants to prevent devices in the student VLAN from sending traffic with a high QoS value. Instead, all traffic in the student VLAN should be reassigned for normal forwarding.

Which Network Protector component should the administrator use to enforce this policy?

- A. a priority whitelist
- B. a custom whitelist
- C. a custom greylist
- D. an ACL

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 70

An HP Provision switch is controlled by a team of HP VAN SDN Controllers and operates in hybrid OpenFlow mode. The team has added several flow entries. A valid unicast packet arrives on the switch that does not match any flow entries.

How does the switch handle this packet?

- A. The switch encapsulates the packet in an OpenFlow packet and sends it to the controller.
- B. The switch forwards the packet to the controller over a service insertion tunnel.
- C. The switch drops the packet.
- D. The switch forwards the packet normally.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 71

Which type of authentication system is recommended for most HP VAN SDN Controller installations?

- A. remote Keying server
- B. local RADIUS server
- C. local Keystone server
- D. remote RADIUS server

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

References:

<http://h20564.www2.hp.com/hpsc/doc/public/display?docId=c04647290> Page: 8

