HP0-Y51 ^{Q&As}

Building HP SDN and FlexNetwork Solutions

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QUESTION 1

An administrator sets up an OpenFlow instance on an HP Provision switch in passive mode. What does this mean?

A. The switch first attempts to switch or route traffic using its own MAC forwarding and routing tables. If it does not know how to treat the traffic, it uses the OpenFlow table.

B. The switch does not associate this OpenFlow instance with a specific VLAN Instead VLANs that are not assigned to another OpenFlow instance are associated with this instance.

C. The switch matches all traffic in the instance against an OpenFlow table, but, if it finds no match, it forwards the traffic normally

D. The switch does not forward any traffic in the instance locally. Instead, it encapsulates all traffic in OpenFlow Packeket_Out messages to the controller.

Correct Answer: B

QUESTION 2

A company has an Employees SSID, which enforces Wi-Fi Protected Access 2 (WPA2) with 802.1X. The company has a Contractors SSID, which has no encryption. Contractors can connect their own devices to the Contractors SSID and log in the credentials assigned to them by an employee. HP User Access Manager (UAM) has these services:

A Contractor access service, which is assigned to contractor accounts created by employees

An Employee access service, which is assigned to employee accounts synchronized from Active Directory (AD)

A new company policy encourages contractors to use encryption. Contractors should download certificates when they connect to Contractors SSID and register. Then the contractors can connect to the Employees SSID and have an encrypted connection.

How does the administrator enable the contractors to connect to the Employees SSID but receive the correct contractor VLAN assignment?

A. In the Employee access service, bind the Contractor group to an access policy that specifies the contractor VLAN ID and PAP authentication.

B. In the Employee access service, bind the Contractor group to an access policy that specifies the contractor VLAN ID and EAP-TLS certificate authentication

C. In the Contractor access service, bind the Employees SSID to an access policy that specifies the contractor VLAN ID and EAP-TLS certificate authentication

D. In the Contractor access service, bind the Employees SSID to an access policy that specifies the contractor VLAN ID and PAP authentication

Correct Answer: C

QUESTION 3

Table of Acronyms

An administrator is setting up an EVI solution on four HP Comware switches. The switches reach each other on these IP address:

Switch1 = 10.1.1.1

Switch2 = 10 2.2 2

Switch3 = 10.3.3.3

Switch4 = 10.4.4.4

The administrator wants to make Switch1 and Switch2 potential EVI Network Discovery Protocol (ENDP) servers. What is the proper configuration on the Switch1 EVI tunnel interface?

A. evi neighbor-discovery server enable evi neighbor-discovery client enable 10.1.1.1

B. evi neighbor-discovery server enable evi neighbor-discovery client enable 10.2.2.2

C. evi neighbor-discovery client enable 10.3.3.3 evi neighbor-discovery client enable 10.4.4.4

D. evi neighbor-discovery client enable 10.3.3.3 evi neighbor-discovery client enable 10.4.4.4

Correct Answer: AB

Reference: http://www8.hp.com/h20195/v2/getpdf.aspx/c04311472.pdf?ver=1.0 (page 4)

QUESTION 4

How does the HP Optimizer SDN Application -Microsoft Lync enhance QoS for Microsoft Lync?

A. The application registers as a packet listener for all IP packets in the HP VAN SDN Controller. It creates reactive flows for all user traffic, including prioritized ones for UCandC traffic.

B. The application pre-provisions several flows on all HP switches, which redirect all IP traffic to the HP VAN SDN Controller. Each TCP session is then assigned the correct priority before it can be established.

C. The application receives RESTful API calls from a plug-in to Lync. It uses information obtained to create proactive prioritized flows for UC and traffic.

D. The application registers as a packet listener for TCP 5060 in the HP VAN SDN Controller. It uses packets received to create reactive prioritized flows for UC and C traffic.

Correct Answer: A

QUESTION 5

Refer to the exhibit.

```
{
"flow": {
"priority": 30000,
"idle_timeout": 60,
"match": [
{"eth_src": "00:50:56:11:11:11"},
{"eth_dst": "00:50:56:22:22:22"},
],
"actions": [{"output": 1}]
}
```

A company has an HP VAN SDN Controller that controls HP Provision switches. An SDN developer creates an application that needs to make many immediate decisions for handling traffic. The application is programmed to create rules such as those shown in the exhibit

Which change could improve performance by letting the hardware handle the flows?

A. Change the idle timeout to 0 and specify table ID 200.

B. Create a service insertion tunnel, and change this rule to output to this tunnel.

C. Explicitly force this rule to use Table 0.

D. In the match criteria, list a specific Ethernet type such as IPv4.

Correct Answer: B

QUESTION 6

Table of Acronyms

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EVI	Ethernet Virtual Interconnect
FCoE	Fibre Channel over Ethernet
L2VPN	Layer 2 Virtual Private Network
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

⊠ Close

Refer to the exhibit.
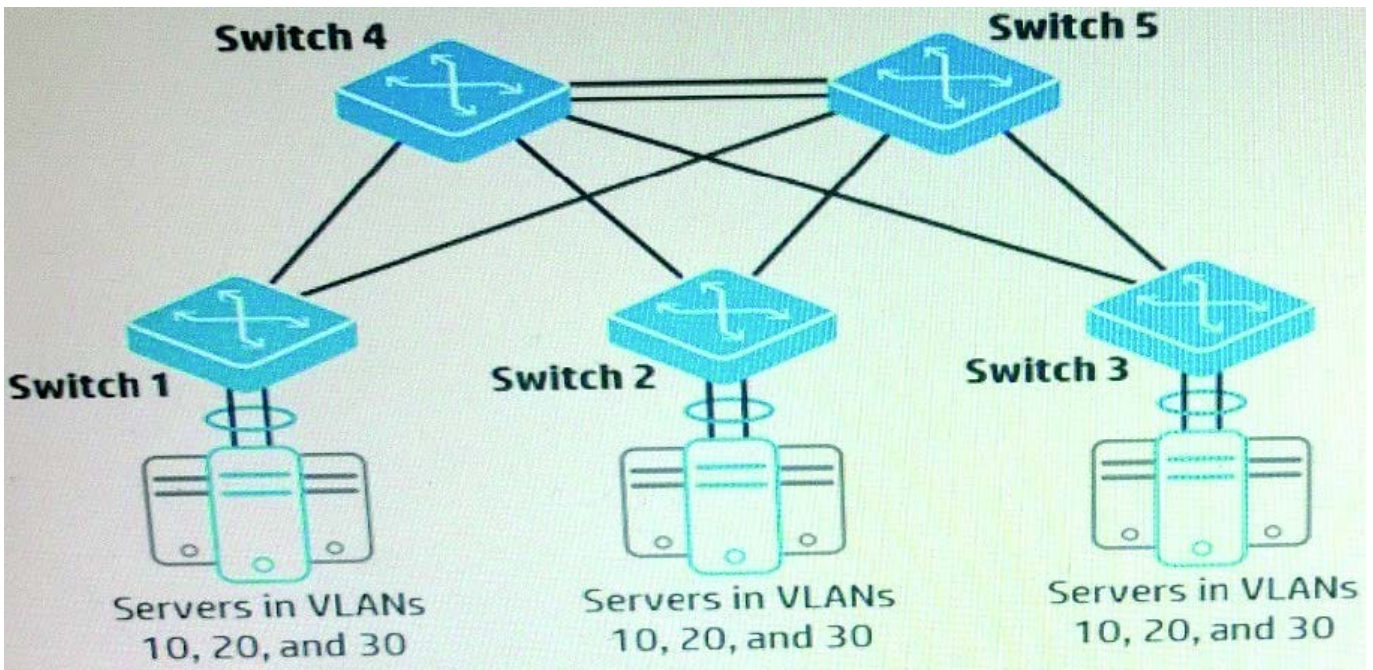
The switches shown in the exhibit form a TRILL region. What helps to load balance traffic across the .inks between these switches?

A. The TRILL cost for each link is the same, and TRILL Equal Cost Multi-Path (ECMP) is enabled.

B. VLANs 10, 20, and 30 are mapped to different spanning tree instances.

C. The switch-to-switch links are configured to permit at least two VLANs.

D. Switch 4 and Switch 5 are assigned the same Designated RBridge (DRB) priority.

Correct Answer: A

QUESTION 7

Table of Acronyms

EVI	Ethernet Virtual Interconnect
FCoE	Fibre Channel over Ethernet
L2VPN	Layer 2 Virtual Private Network
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

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

A. SPBM switches can send multicasts as both multicasts and unicasts, increasing reliability for the transmission.

B. Multicasts follow a better path to each destination than they would with head-end replication.

C. An ingress SPBM switch does not have the load of replicating and forwarding many copies of a multicast.

D. An ingress SPBM switch can load-balance multicasts over multiple equal-cost paths to a destination, even when the multicast belong to the same I-SID.

Correct Answer: B

Reference: http://h20565.www2.hp.com/hpsc/doc/public/display?docId=emr_na-c04220368- 2anddocLocale=en_US (page 10)

QUESTION 8

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 that provided in an HP CloudSystem solution.

C. OpenFlow is a communication protocol that an SDN controller can use to control devices at the network infrastructure layer.

D. OpenFlow is the open standard technology that regulates SDN control plane and application plane communications.

Correct Answer: C

Reference: http://searchsdn.techtarget.com/guides/OpenFlow-protocol-tutorial-SDN-controllers- and-applications-emerge

QUESTION 9

Refer to the exhibit.


```
HP3800-1# show openflow instance 1 flows

Flow 3
  Match
    Incoming Port           : 24          Ethernet Type    : IP
    Source IP               : 10.1.10.0/24   Destination IP   : 10.1.20.0/24

  Attributes
    Priority                : 29999       Duration         : 24300 seconds
    Hard Timeout            : 0 seconds   Idle Timeout:    : 60 seconds
    Byte Count              : NA          Packet Count     : 10924
    Flow Table ID           : 100         Controller ID    : 1

  Hardware Index            : 1
  Instructions
    Apply Actions
      Output                : 1

Flow 4
  Match
    Incoming Port           : 24          Ethernet Type    : IP
    Source MAC              : 005056-111111  Destination MAC  : 005056-222222
    Source IP               : 10.1.10.10     Destination IP   : 10.1.20.20

  Attributes
    Priority                : 29999       Duration         : 1230 seconds
    Hard Timeout            : 0 seconds   Idle Timeout:    : 60 seconds
    Byte Count              : NA          Packet Count     : 0
    Flow Table ID           : 200         Controller ID    : 1

  Software Index            : 1
  Instructions
    Apply Actions
      Output                : ?
```

An HP provision switch has OpenFlow table entries indicated in the exhibit.

The switch should forward most traffic between 10.1.10.0/24 and 10.1.20.0/24 on port 1. However any IP traffic between server 1, at 005056-111111 and

10.1.10.10, and server 2, at 005056-222222 and 10.20.20, should be forwarded on port 2.

Which change to the rules let the switch behave as desired?

A. For flow 3, the table ID is set to 200, and the priority is set to 47000

B. For flow 4, the priority is set to 47000

C. For flow 4, the table ID is set to 100, and the priority is set to 47000

D. For flow 3, the instruction is set to Write Actions output 1

Correct Answer: A

QUESTION 10

When should an administrator enable hybrid mode on an HP VAN SDN Controller?

A. When the controller must manage HP Provision switches that use virtualization mode to enable OpenFlow on some VLANs but not on others

B. When the controller must manage HP Provision switches that operate in passive mode

C. When the controller must manage Mininet switches in a developer environment and HP switches in a production environment

D. When the controller must manage OpenFlow-enabled switches that support both OpenFlow 1.0 and 1.3

Correct Answer: D

Reference: http://h20564.www2.hp.com/hpsc/doc/public/display?docId=c04383845 (page 73)

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