HP2-Z31 Q&As

Creating HP Software-defined Networks

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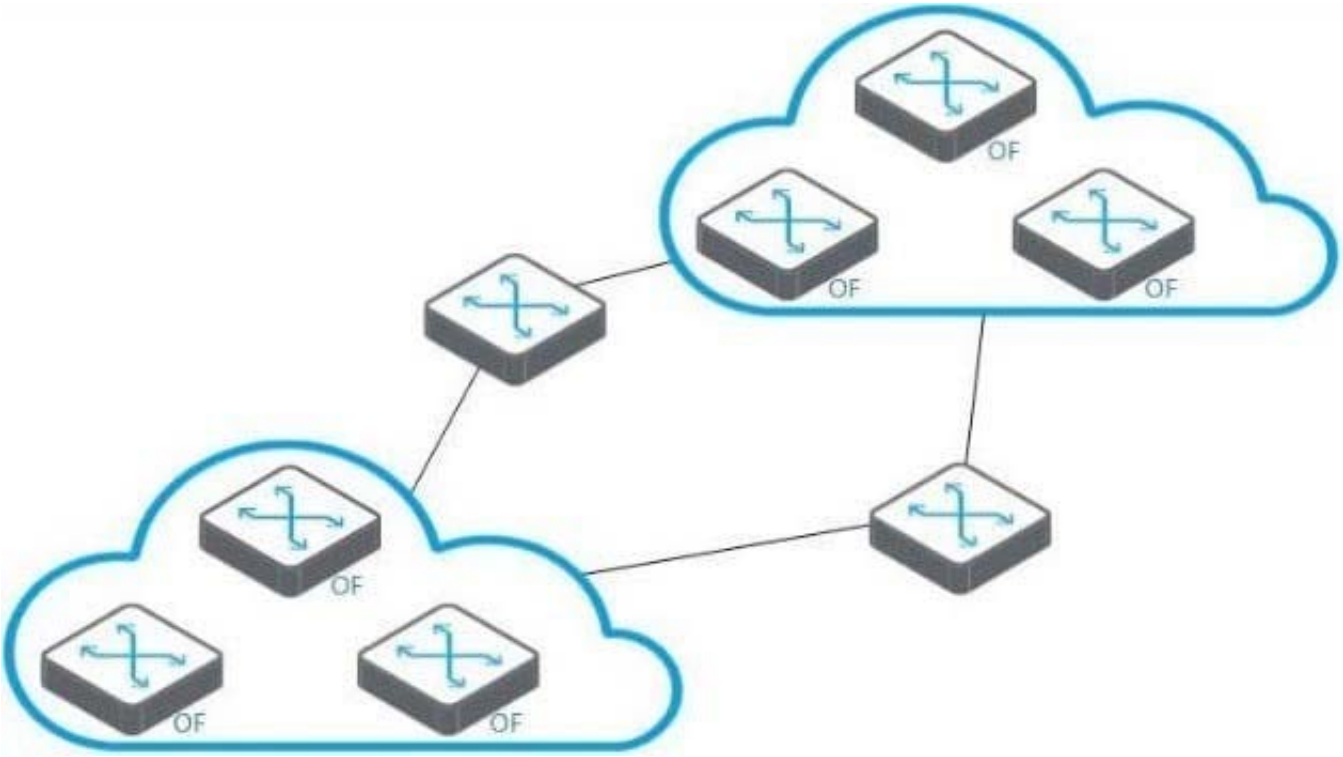
QUESTION 1

Refer to the exhibit.



The topology shown in the exhibit has the following characteristics:

*

The Open Flow enabled switches are running in virtualization mode with member VLAN 10

*

All the switches in the topology share the same VLANs.

*

All the VLANs are tagged on all the links.

*

Each OpenFlow domain is controlled by its own controller and is making independent decisions

*

Every switch within the topology has PVST enabled only on VLAN 10

The networking team implementing OpenFlow reports that there are communication problems between the OpenFlow domains. What could be the cause of this communication problem?

A. This is an unsupported topology.

B. OpenFlow requires a dedicated out-of-band management network

C. OpenFlow networks that communicate must use different VLANs.

D. A loop has been formed.

Correct Answer: A

Virtualization mode With Virtualization Mode, some VLANs can be designated as members of OpenFlow instances. Each OpenFlow instance is independent and has its own OpenFlow configuratio

Note: OpenFlow can be configured for Virtualization Mode or Aggregation Mode.

*

Virtualization Mode Each OpenFlow instance is independent and has its own OpenFlow configuration and OpenFlow controller connection. Some VLANs are designated as members of OpenFlow instances while other VLANs are not. The VLANs that are not members of OpenFlow instances could be thought of as VLANs carrying production traffic.

*

Aggregation Mode Provides a single OpenFlow instance that includes all of the VLANs configured on the switch except the VLAN(s) that connect to the controller(s) and the Management VLAN on the switch. Production traffic is not allowed

Reference: HP OpenFlow Switches Administrator\\'s Guide

QUESTION 2

A customer wants to deploy an HP ProVision-based network with laptops daisy chained to physical IP phones. The customer also wants the laptop traffic to be managed by OpenFlow, while the phones use traditional QoS. Which OpenFlow switch instance configuration option should the customer use?

A. QoS passthrough

B. Aggregate

C. Virtualization

D. Passive

Correct Answer: C

QUESTION 3

What are advantages of using the HP Network Protector SDN application in a BYOD Network for Malware protection? (Select two.)

A. To provide updates to filtered host lists

B. To provide centralized management of client based firewall

C. To provide full HIPS functionality for BYOD devices

D. To provide security at the network core to provide prevention before connection

Correct Answer: CD

You can set general policies for all the hosts in the network to manage and mitigate malicious traffic and host name requests. General policies enable the application to detect changes in network traffic patterns. The general policies prevent the host from acting like a botnet and being controlled by external malicious computers.

When network traffic from a host exceeds the policy limits, you can configure application to perform one of the following actions:

Block

Block and notify

Quarantine

Quarantine and Notify

Note: HIPS Short for host-based intrusion prevention system, HIPS is an IPS or intrusion prevention system designed for security over host-based systems where intrusions and infections are dealt with at the individual workstation level to provide a more effective level of security. Reference: HP Network Protector SDN Application Administrator Guide

QUESTION 4

Refer to exhibit.

Time	Event	Remote ID	Message
12:51:30.399	MESSAGE_RX	00:14:00:9c:02:d8:18:00	[ofm:[V_1_3,PACKET_IN,110,108],inPort=0x1(1),reason=NO_MA...
12:51:30.399	MESSAGE_TX	00:14:00:9c:02:d8:18:00	[ofm:[V_1_3,PACKET_OUT,100,108],acts=[[Act:[OUTPUT,len=16]...
12:51:30.570	DATAPATH_CONNECT...	192.168.56.103/52076	
12:51:30.570	MESSAGE_RX	192.168.56.103/52076	[ofm:[V_1_3,HELLO,16,10],elems=VERSION_BITMAP]
12:51:30.570	MESSAGE_TX	192.168.56.103/52076	[ofm:[V_1_3,HELLO,16,10],elems=VERSION_BITMAP]
12:51:30.571	MESSAGE_TX	192.168.56.103/52076	[ofm:[V_1_3,FEATURES_REQUEST,8,40587]]
12:51:30.770	MESSAGE_RX	00:0a:00:9c:02:d8:18:00	[ofm:[V_1_3,FEATURES_REPLY,32,40587],dpid=00:0a:00:9c:02:...
12:51:30.772	MESSAGE_TX	00:0a:00:9c:02:d8:18:00	[ofm:[V_1_3,MULTIPART_REQUEST,16,40588],PORT_DESC,flgs=n...
12:51:30.772	MESSAGE_TX	00:0a:00:9c:02:d8:18:00	[ofm:[V_1_3,SET_CONFIG,12,40589],flags=[fragReasm],msLen=...
12:51:30.772	MESSAGE_TX	00:0a:00:9c:02:d8:18:00	[ofm:[V_1_3,MULTIPART_REQUEST,16,40590],TABLE_FEATURES,...
12:51:30.774	MESSAGE_RX	00:0a:00:9c:02:d8:18:00	[ofm:[V_1_3,MULTIPART_REPLY,1616,40588],PORT_DESC,flgs=[]...
12:51:30.902	MESSAGE_RX	00:0a:44:31:92:5f:aa:3b	[ofm:[V_1_3,PACKET_IN,110,0],inPort=0x2(2),reason=NO_MATC...
12:51:30.902	MESSAGE_TX	00:0a:44:31:92:5f:aa:3b	[ofm:[V_1_3,PACKET_OUT,100,0],acts=[[Act:[OUTPUT,len=16],p...
12:51:30.904	MESSAGE_RX	00:0a:00:9c:02:d8:ff:c0	[ofm:[V_1_3,PACKET_IN,110,1970282596],inPort=0x7(7),reaso...
12:51:30.943	MESSAGE_RX	00:14:00:9c:02:d8:18:00	[ofm:[V_1_3,PACKET_IN,110,1970282596],inPort=0x7(7),reaso...

Which HP VAN SDN Controller interface can a network administrator use to troubleshoot the southbound interface of the controller and displays the output shown in the exhibit?

A. Audit Log

B. OpenFlow Monitor

C. OpenFlow Tracer

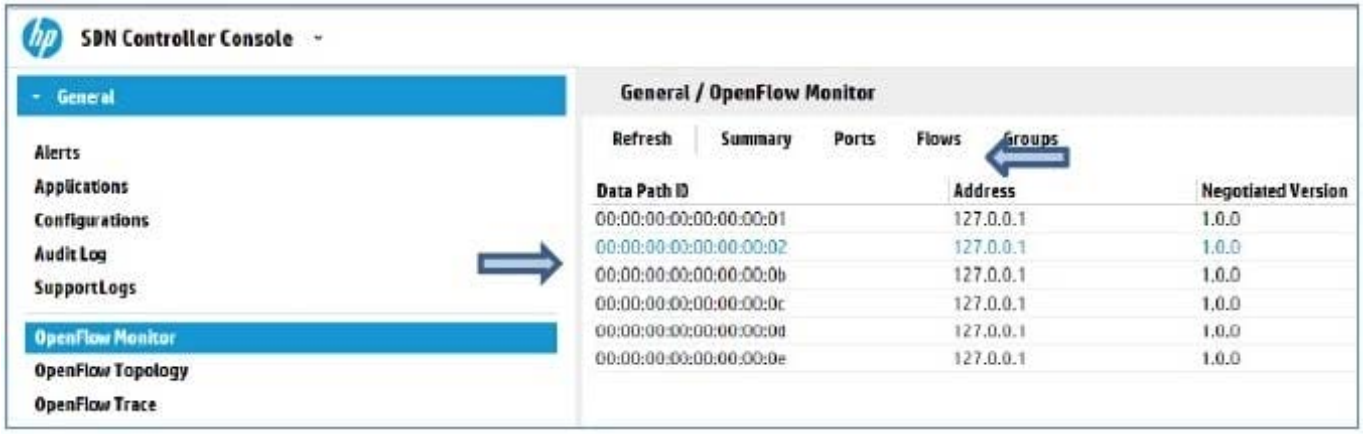
D. Dissector

Correct Answer: C

The OpenFlow Tracer is a built-in packet sniffer similar to Wireshark.

Incorrect:

Not Openflow Monitor:



QUESTION 5

Which HP VAN SDN Controller service processes ARP replies in Packetin messages sent by the OpenFlow switches?

A. Controller Service

B. Path Daemon

C. Path Diagnostics Service

D. Node Manager

Correct Answer: D

Node Manager

Operation:

Learns and maintains end-host locations in the network. Uses information received from network devices

to maintain the ARP table and end host data.

Uses the Topology Service to determine if a port receiving a packet is an edge port or not.

Learns and maintains end nodes in the controller domain, and associates end nodes with edge ports.

Builds an ARP cache with MAC-IP translations of end hosts.

Maintains ARPs on a per-VID basis.

Provides the edge port details for end hosts.

Reference: HP VAN SDN Controller Administrator Guide