



# HP2-Z31<sup>Q&As</sup>

Creating HP Software-defined Networks

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### QUESTION 1

An administrator wants to increase the number of log files held by the HP VAN SDN Controller. What would the administrator need to do to change this?

- A. Modify the /opt/sdn/virgo/configuration/serviceability.xml configuration file.
- B. Log in to the Virgo console and change the logging settings.
- C. Adjust the logging setting via the Support Logs web interface.
- D. Modify the /opt/sdn/virgo/bin/dmk.sh script.

Correct Answer: C

The Support Logs function automatically maintains an internal record of events of interest from the operations of an active SDN controller.

Configure the Support Log for Queue Size The default queue size is 100 lines. To configure a different queue size, change the value for the max.display.rows key in the adm.log.impl.LogManager Configurations component.

Reference: HP VAN SDN Controller Administrator Guide

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### QUESTION 2

How does an HP Provision OpenFlow device treat packets received on a port blocked by Spanning Tree Protocol?

- A. Packets are submitted to the OpenFlow pipeline for processing.
- B. Packets are not submitted to the OpenFlow pipeline for processing.
- C. BPDU frames are submitted to The OpenFlow pipeline for processing.
- D. All Layer 2 frames are submitted to the controller for processing

Correct Answer: A

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Can STP and OpenFlow be used together?

No. They are mutually exclusive. On a Hybrid switch STP is turned off on the OpenFlow VLAN. A recommendation is to enable STP on non-OpenFlow VLANs, but disable on the OpenFlow VLANs. This is safer than disabling STP globally on the switch.

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Do not allow a loop between the OpenFlow and non-OpenFlow portions of your network unless you enable Spanning Tree Protocol on the non OpenFlow devices operating in the network.



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There are two types of OpenFlow switches:

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OpenFlow-only

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OpenFlow-hybrid

OpenFlow only switches support only OpenFlow operation. All packets are processed using OpenFlow.

There is no other way to process packets. OpenFlow hybrid switches support both OpenFlow operation and normal Ethernet switching operation.

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### QUESTION 3

What is a key advantage of implementing malware protection by using the HP Network Protector SDN application?

- A. To provide central management of antivirus software
- B. To provide rule-based access control
- C. To provide VLAN assignment without supplicant
- D. To provide clientless operation

Correct Answer: B

About VLAN group policies Policies are a collection of filters or rules that provide a method for setting up security configuration options for VLAN groups. You can create customized policies for each VLAN group based on the requirements and the threat type for each group.

You can customize the policies for the groups by setting the reputation scores. You can set up policies for each group to protect your network from the following threat types: Botnet, Malware, etc

Reference: HP Network Protector SDN Application Administrator Guide

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### QUESTION 4

A company has an IRF-based, 2-tier FlexFabric architecture in its data center. The company is now increasing the amount of server virtualization and also adding more redundant connections across the network infrastructure backbone. Which benefit does software-defined networking (SDN) provide for this FlexFabric solution?

- A. SDN applications can extend the virtual switches inside hosts into the control plane of multiple physical infrastructure devices.
- B. SDN can help core routing switches handle more routing table entries without sacrificing performance.
- C. SDN extends the SNMP MIBs to include MIBs for virtual switches.



D. SDN applications can help to provision network connectivity for virtual machines and to forward traffic across complex meshes of links

Correct Answer: A

Q: What is HP's SDN strategy?

A: Virtual Application Networks represent HP's software-defined network vision. By leveraging SDN-enabled infrastructure, control plane, applications and integrated management systems HP is creating an open ecosystem to drive new innovation in networking.

Q: What is the HP Virtual Application Networks SDN Controller?

A: The HP Virtual Application Networks SDN controller is an integral part of HP's Virtual Application Networks offering. The controller acts as the central building block for an abstracted control plane in the SDN architecture.

Reference: Virtual Application Networks Overview [http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA4-4714ENW.pdf?jumpid=em\\_r1165\\_ww/en/large/eg/RelatedLink/Virtual\\_Application\\_Networks\\_Overview\\_FAQs/resourcefinder/Jan\\_2013](http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA4-4714ENW.pdf?jumpid=em_r1165_ww/en/large/eg/RelatedLink/Virtual_Application_Networks_Overview_FAQs/resourcefinder/Jan_2013)

## QUESTION 5

A multicast application is used in a customer's environment that relies on IGMP. On an edge switch an Openflow 1.3 instance is configured in aggregation mode. By default, what happens to the IGMP traffic if no matching flow entry exists?

- A. IGMP traffic is forwarded on the data plane.
- B. IGMP traffic is forwarded to the SON Controller.
- C. IGMP traffic is dropped.
- D. IGMP traffic is forwarded on the control plane.

Correct Answer: C

In Aggregation mode, all VLANs in the switch are part of an OpenFlow instance. When Aggregation is configured, there is only OpenFlow traffic, no production traffic.

Reference: HP OpenFlow 1.3 Administrator Guide, Wired Switches K/KA/KB/WB 15.15

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