



HP2-Z31^{Q&As}

Creating HP Software-defined Networks

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**QUESTION 1**

Refer to the exhibit.

User	Occurred	Activity	Data	Origin	Controller ID
sdn	today 07:29:54	Start	Topology Viewer has been started	Application Management	d0152bbe-d3e1-4170-a7ec-db0...
sdn	today 07:29:48	Stop	Topology Viewer has been stopped	Application Management	d0152bbe-d3e1-4170-a7ec-db0...
sdn	2014-02-14 22:31:02	Start	Node Manager has been started	Application Management	d0152bbe-d3e1-4170-a7ec-db0...
sdn	2014-02-14 22:29:45	Stop	Node Manager has been stopped	Application Management	d0152bbe-d3e1-4170-a7ec-db0...
sdn	2014-02-05 12:18:33	Download	sdn_controller_backup_2014-02-05_03:5...	Backup Management	d0152bbe-d3e1-4170-a7ec-db0...
sdn	2014-02-05 12:17:54	Download	sdn_controller_backup_2014-02-05_03:5...	Backup Management	d0152bbe-d3e1-4170-a7ec-db0...
sdn	2014-02-05 12:16:06	Download	sdn_controller_backup_2014-02-05_03:5...	Backup Management	d0152bbe-d3e1-4170-a7ec-db0...
sdn	2014-02-05 12:14:09	Download	sdn_controller_backup_2014-02-05_03:5...	Backup Management	d0152bbe-d3e1-4170-a7ec-db0...
sdn	2014-02-05 12:12:24	Download	sdn_controller_backup_2014-02-05_03:5...	Backup Management	d0152bbe-d3e1-4170-a7ec-db0...
sdn	2014-02-05 12:11:24	Download	sdn_controller_backup_2014-02-05_03:5...	Backup Management	d0152bbe-d3e1-4170-a7ec-db0...

Which HP VAN SDN Controller feature displays the output in the exhibit?

- A. Audit Log
- B. OpenFlow Monitor
- C. Support Log
- D. Alerts

Correct Answer: A

For example, the audit log displays software license and teaming activity: Reference: HP VAN SDN Controller Administrator Guide

General / Audit Log				
Refresh				
User	Occurred	Activity	Data	
sdn-service-client	2013-10-28 17:23:17	Added a license	License Serial Number:197 License ...	
sdn-service-client	2013-10-28 17:18:30	Added a license	License Serial Number:196 License ...	
sdn-service-client	2013-10-28 17:07:18	Uninstalled a license	License Serial Number:194 License ...	
sdn-service-client	2013-10-28 15:23:08	Uninstalled a license	License Serial Number:195 License ...	
TeamConfig	2013-10-28 15:05:00	Team created	name: 3Member Ip: 15.146.193.86 ...	
TeamConfig	2013-10-28 13:32:37	Team deleted		
TeamConfig	2013-10-28 13:23:19	Team created	name: 3Member Ip: 15.146.193.86 ...	
sdn-service-client	2013-10-28 12:46:39	Added a license	License Serial Number:195 License ...	
sdn-service-client	2013-10-28 12:32:35	Modified	Modified config: com.hp.sdn.ctl.nod...	
sdn-service-client	2013-10-26 06:20:36	Updated a license with new quantity	License Serial Number:194 License ...	
sdn-service-client	2013-10-26 06:11:53	Added a license	License Serial Number:194 License ...	
sdn-service-client	2013-03-27 21:31:01	Added a license	License Serial Number:197 License ...	
sdn-service-client	2013-03-27 21:26:14	Added a license	License Serial Number:196 License ...	
sdn-service-client	2013-03-27 21:15:02	Uninstalled a license	License Serial Number:194 License ...	
sdn-service-client	2013-03-27 19:30:53	Uninstalled a license	License Serial Number:195 License ...	

**QUESTION 2**

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 3

A single HP VAN SDN Controller is used to control OpenFlow enabled switches that operate in virtualization mode. An internal application is installed on the controller that redirects classified traffic to a specific VLAN. The connection between the controller and the network is lost. The HP OpenFlow enabled

switches\' connection interruption mode is set to standalone mode.

What is the forwarding behavior of the OpenFlow enabled switches?

- A. Based on the timeout values, the flow entries age out, and only OpenFlow traffic is discarded
- B. All flow entries are removed, and traffic is forwarded using normal switch processing.
- C. All flow entries are set not to age out, and the classified traffic is still redirected.
- D. Based on the timeout values, the flow entries are removed from the flow tables, and all traffic is discarded on the switches.

Correct Answer: B



OpenFlow instance connection interruption mode You can set the type of behavior when the switch loses connection with the controller. fail-standalone If the switch loses connection with all of the controllers, packets and messages of new flows behave as a legacy switch or router would. Existing flows of this OpenFlow instance are removed.

Reference: HP OpenFlow Switches

(page 21) http://h20628.www2.hp.com/km-ext/kmcsdirect/emr_na-c03512348-4.pdf

QUESTION 4

What are two challenges when planning to implement a BYOD environment? (Select two.)

- A. device state unknown
- B. device software inspection
- C. device not under central control
- D. device CA enrollment
- E. device inventory control

Correct Answer: BD

* HP identifies the following main BYOD security challenges:

(B)

Protecting the network from malware

(D)

Providing secure access to the network

Scaling the network to meet demand

Ensuring an optimized Wi-Fi experience

* The top BYOD security concerns for enterprise companies are:

+

loss of company or client data (picked by 67%)

+

(D) unauthorized access to company data or systems (57%) + (B) users downloading app or content with embedded security exploits (47%) + (B) malware infections (45%)

+

and lost or stolen devices (41%)

Reference: Bring your own device (BYOD), FAQs http://h17007.www1.hp.com/docs/byod/faq_4AA4-5466ENW.pdf



QUESTION 5

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

*

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.

*

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.

*

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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