



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

Creating HP Software-defined Networks

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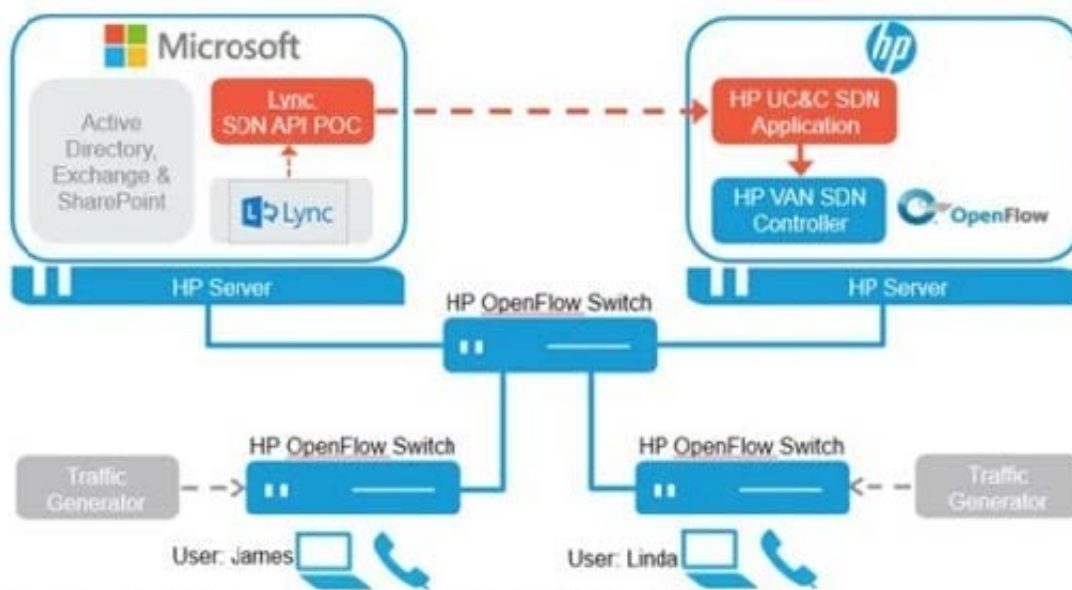
## QUESTION 1

What is an advantage of using the HP Network Optimizer SDN application with UCandC applications rather than just the SDN applications?

- A. It enables the QoS trust boundary to be shifted to the switch.
- B. It enables the UCandC Client to select the UCandC application server optimally located for them.
- C. It removes the need for queuing.
- D. It enables QoS verification for BYOD.

Correct Answer: D

### HP UC&C SDN Application with Microsoft Lync SDN API POC Demo



The first capability that's implemented is the ability of the Lync server (or any communications server, potentially) to dynamically provide to the network controller the IP addresses/ports of the paired endpoints of a real time flow. This enables the network to mark, without deep packet inspection, those flows with a CoS/QoS tag that will give them the proper treatment in the network. This becomes a positive identification of "authorized" real-time flows; any device/flow trying to use that tagging that is not "authorized" through the API can automatically be re-tagged to a best effort service class.

This technique has a number of critical advantages over current techniques. When compared to the typical VLAN, it enables positive tagging of a variety of devices, including BYOD and potentially other systems that might have multiple traffic types (e.g., a PC running a soft client or a tablet).

In addition, when compared to deep packet inspection at each access element, it reduces cost as well as eliminating the errors and complexity that encryption of the packet stream can introduce.



Reference: HP and Microsoft Demo OpenFlow-Lync Applications-optimized Network

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## QUESTION 2

Which modes does the 2.0 release of the HP VAN SDN Controller support? (Select two.)

- A. Multi active master
- B. Dual homed
- C. Clustered
- D. Team
- E. Standalone

Correct Answer: DE

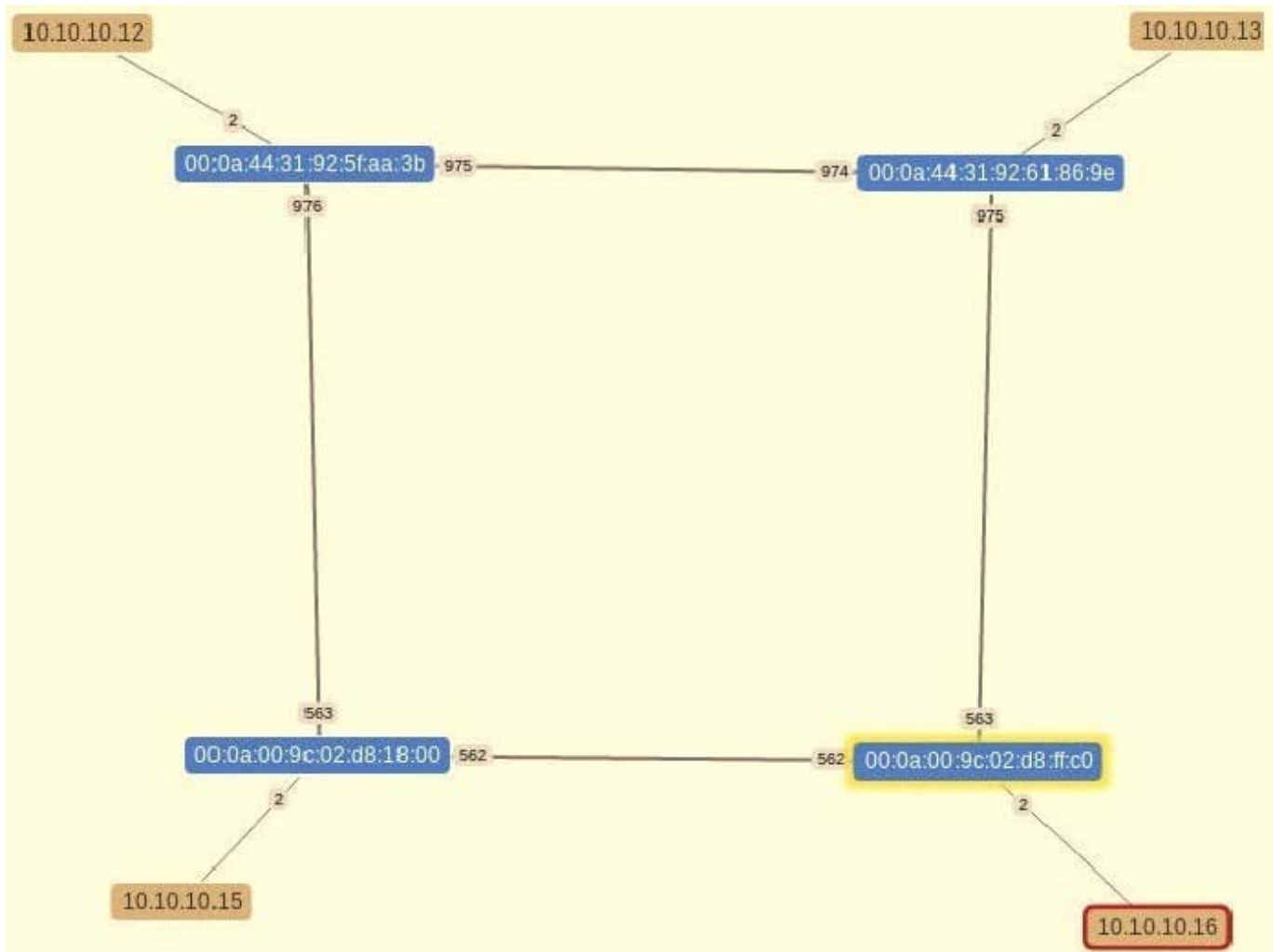
The HP VAN SDN Controller Administrator Guide describes the configuration and management of the HP VAN Controller in standalone and team modes.

Reference: HP VAN SDN Controller Administrator Guide

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## QUESTION 3

Refer to the exhibit.



The switches in the diagram are connected to each other using two physical cables. The network consists of two HP 3800 series switches and two HP 5900 series switches. Why is only one link displayed between switches in the OpenFlow Topology diagram on the HP VAN SDN Controller?

- A. The SPF algorithm used by the HP VAN SDN Controller only supports a single link between switches and blocks other links to stop loops. The HP VAN SDN Controller only displays the single active link between the switches
- B. Link aggregation is being used OpenFlow only displays information about the logical interface and not the physical interfaces. The HP VAN SDN Controller only displays a single link between switches
- C. Link aggregation is being used. One of the Interfaces in the bundle is down, and OpenFlow has updated the HP VAN SDN Controller with this information The HP VAN SDN Controller only displays the active link in the OpenFlow Topology diagram
- D. Spanning tree is blocking one of the ports. The HP VAN SDN Controller. Only displays the active link in the OpenFlow Topology diagram.

Correct Answer: B

Note: TopologyViewer Creates and updates a network graph for visualizing the network the controller discovers. The Topology Viewer uses the services of the Topology Manager and Link Manager.



#### QUESTION 4

Which components are used to identify a flow entry in OpenFlow 1.0?

- A. Match and Priority
- B. Action and Priority
- C. Action and Index
- D. Match and Index

Correct Answer: A

A flow table entry is identified by its match fields and priority: the match fields and priority taken together identify a unique flow entry in the flow table. T

Reference: OpenFlow Switch Specification [https://www.opennetworking.org/images/stories/downloads/sdn-resources/onf- \(page 16\) specifications/openflow/openflow-spec-v1.4.0.pdf](https://www.opennetworking.org/images/stories/downloads/sdn-resources/onf-(page%2016)%20specifications/openflow/openflow-spec-v1.4.0.pdf)

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#### QUESTION 5

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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