



HP2-Z31^{Q&As}

Creating HP Software-defined Networks

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QUESTION 1

An HP VAN SDN Controller team is configured consisting of three controllers, using default settings.

The first controller is configured with IP address 10.1.1.1 and priority 10. The second controller is configured with IP address 10.1.1.2 and priority 20.

The third controller is configured with IP address 10.1.1.3 and priority 30.

Currently the third controller (IP address 10.1.1.3) is the leader device. An administrator reboots the third controller.

Which controller will be the leader once this controller comes back online?

- A. the controller with the IP address 10.1.1.3
- B. the controller with the IP address 10.1.1.1
- C. the controller with the IP address 10.1.1.2
- D. The leader role will be shared amongst all team members.

Correct Answer: C

Once a team is configured, the configuration and monitoring of team members and their associated OpenFlow switches is performed by the team manager. If the team manager goes down, the controller with the next highest priority in the team configuration becomes the team manager.

Note: Team Management Each controller belonging to a team is a team member. To centralize team management and control, one controller is designated as the team manager. Teaming is configured on one controller and is automatically propagated to the other controllers in the team, regardless of which controller becomes the team manager.

Reference: HP VAN SDN Controller Administrator Guide

QUESTION 2

What are examples of information that the Topology Service returns for an OpenFlow switch port? (Select two.)

- A. Whether the port is a connection point
- B. Whether the port can be used as an observation point
- C. Whether the port has BDDP enabled
- D. Whether the port has LLDP medium endpoint discovery enabled
- E. Whether the port can participate in forwarding mode in a looped topology

Correct Answer: AE



QUESTION 3

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

QUESTION 4

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 5

Which statement best describes software-defined networking (SDN)?

- A. SDN allows software to leverage the network infrastructure, enabling a centralized and policy-based approach to network provisioning and traffic forwarding.
- B. SDN allows administrators to share software, policies, templates, and applications between multiple virtual machines that are running on the same network.
- C. SDN is another name for OpenFlow, a protocol that lets switches handle traffic with OpenFlow tables rather than MAC forwarding tables and routing tables.
- D. SDN lets IT developers manage physical infrastructure devices directly without pre-defined templates or intermediary devices.

Correct Answer: A

The HP VAN SDN Controller is a Java-based OpenFlow controller enabling SDN solutions such as network controllers for the data center, public cloud, private cloud, and campus edge networks. This includes providing an open platform for developing experimental and special- purpose network control protocols using a built-in OpenFlow controller. The HP VAN SDN Controller is a platform for developing SDN applications and deploying SDN applications. The controller can be characterized as providing a Base Control Platform, a Distributed Platform for High-Availability and Scalability, and an Extensible Platform.

Reference: HP VAN SDN Controller Administrator Guide

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