



HP2-Z31^{Q&As}

Creating HP Software-defined Networks

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QUESTION 1

An administrator wants to install the HP VAN SDN Controller in a production environment using virtualization technologies. Which hypervisors are supported? (Select two.)

- A. VirtualBox 4.2.20 and greater
- B. KVM Version 2.4.5-1 and greater
- C. Parallels 8.0 and greater
- D. VMware ESXi Versions 5.0.0, 5.0.1, and greater
- E. VMware Workstation 9.0 and greater

Correct Answer: BD

Software you must install before you begin the controller installation process

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Operating system: Ubuntu 12.04 LTS 64-bit Server (Linux 3.2 kernel)

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Supported hypervisors (if operating system is run on a virtual machine): KVM Version 2.4.5-1 and greater ESXi Versions 5.0.0 and greater

Reference: HP VAN SDN Controller and Applications Support Matrix

QUESTION 2

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 3

What is one benefit of a software-defined networking (SDN) solution for a WAN?

- A. SDN applications can automatically deploy key services on branch zl or MSR modules in case of a failed WAN connection.
- B. SDN applications provide a remote connection to servers so that remote IT staff can identify and resolve issues.
- C. SDN applications provide a graphical interface for scripting CLI commands for multiple branches at once.
- D. SDN applications can adjust WAN bandwidth provisioning granularly, dynamically, and intelligently.

Correct Answer: D

Software-defined networking (SDN) is an architecture purporting to be dynamic, manageable, cost-effective, and adaptable, seeking to be suitable for the high-bandwidth, dynamic nature of today's applications.

The SDN architecture is:

Directly programmable: Network control is directly programmable because it is decoupled from forwarding functions.

Agile: Abstracting control from forwarding lets administrators dynamically adjust network-wide traffic flow to meet changing needs.

Reference: Wikipedia, Software-defined networking

QUESTION 4

Which protocol is used to discover directly connected links between OpenFlow devices?

- A. SNMP
- B. CDP



C. OF-CONFIG

D. LLDP

Correct Answer: D

LLDP is used to discover direct links between switches and BDDP is used to discover the switches in the same broadcast domain.

Note: Using a link-discovery module, the controller generates both LLDP and broadcast packets (referred to as BDDPs) and sends them to all neighboring switches on a regular basis.

Reference: OpenFlow Controller

QUESTION 5

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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