

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

Creating HP Software-defined Networks

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## QUESTION 1

Why would an architect require an application to be written as an internal application rather than as an external application?

- A. lower cost of development
- B. faster event-driven responses
- C. greater flexibility of platform choices
- D. increased program language options

Correct Answer: B

HP SDN Controller Internal Applications and Modules There are two main ways applications interact with the controller: Within the controller using native applications or modules (Java based or byte compatible applications

such

as Scala).

Outside the controller using web based applications (using RESTful APIs).

Application Types:

Native Applications / Modules - This is the ideal model for applications that need to exert relatively finegrained,

frequent and low-latency control interactions with the environment, e.g. handling packet-in events, etc.

Web Based applications - Suitable for applications that need to exert "business" level, i.e.

relatively coarsegrained, infrequent and high-latency control interactions with the environment, e.g. path provisioning, flow inspections, etc.

Reference: HP SDN Controller Architecture, Technical Solution 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

\*

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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### QUESTION 3

How does an HP VAN SDN Controller team provide high availability for OpenFlow switches?

- A. By using the northbound controller interface tied to a region configuration
- B. By using the northbound controller interface with a secondary interface
- C. By using the southbound controller interface tied to a region configuration
- D. By using the southbound controller interface with a secondary interface

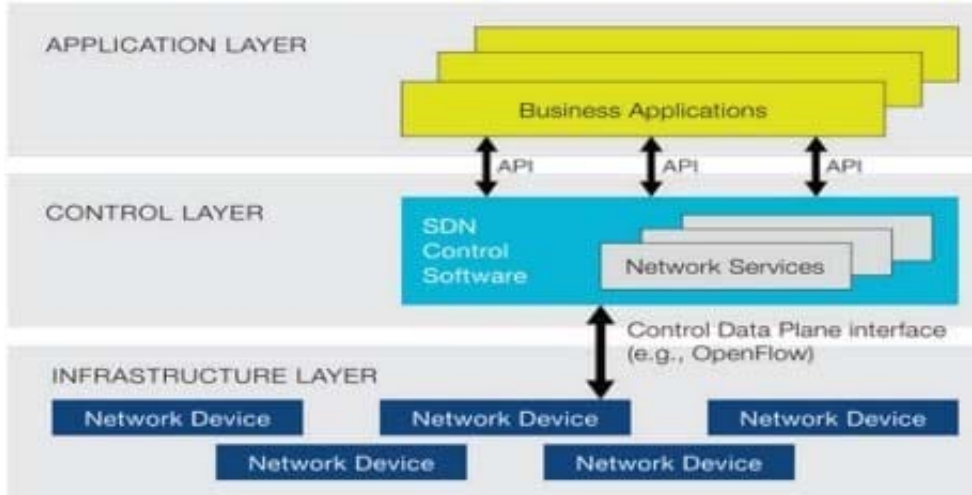
Correct Answer: C

\* Northbound API Relative to figure 1 below, the Northbound API is the API that enables communications between the control layer and the application layer (external business applications).

Southbound API

Relative to Figure 1 below, the Southbound API is the API that enables communications between the control layer and the infrastructure layer (OpenFlow).

Figure 1. ONF\'s SDN architecture



\* Putting the region configurations in place in a controller team ensures seamless failover and failback among the configured controllers for the specified network devices in a region. That is, when a master controller experiences a fault, the Role Orchestration Service ensures that a slave controller immediately assumes the master role over the group of network devices to which the failed controller was in the master role.

Reference: Technical white paper, Mock RFI for Enterprise SDN Solutions Reference: HP VAN SDN Controller Administrator Guide

**QUESTION 4**

A customer wants to deploy an HP ProVision-based network with laptops daisy chained to physical IP phones. The customer also wants the laptop traffic to be managed by OpenFlow, while the phones use traditional QoS. Which OpenFlow switch instance configuration option should the customer use?

- A. QoS passthrough
- B. Aggregate
- C. Virtualization
- D. Passive

Correct Answer: C

**QUESTION 5**

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

\*

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

\*

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

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