



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

Creating HP Software-defined Networks

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### QUESTION 1

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

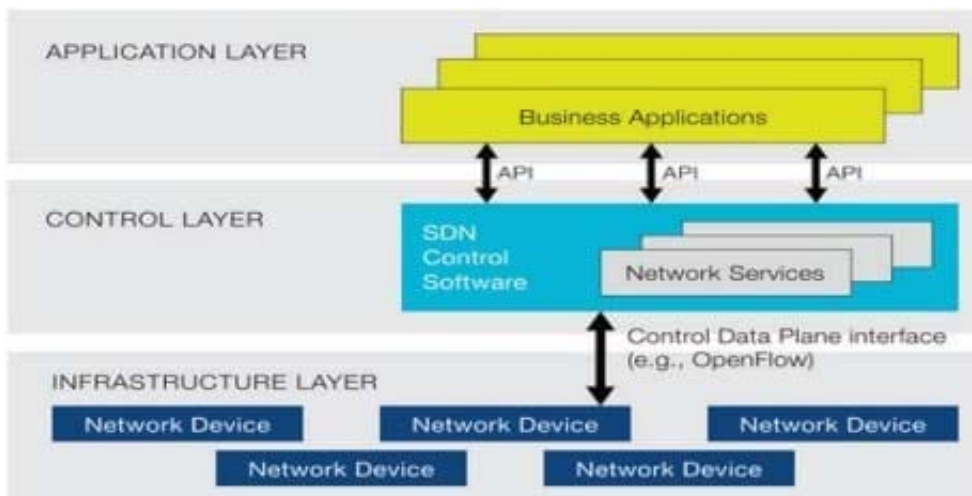
Correct Answer: C

\* 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 2

Which command installs the HP VAN SDN Controller software?



- A. `sudo dpkg -1 *hp-sdn-ctl`
- B. `sudo dpkg -i hp-sdn-ctl_2.0.0.4253_amd64.deb`
- C. `sudo dpkg -P hp-sdn-ctl_2.0.0.4253_amd64.deb`
- D. `sudo dpkg -1 hp-sdn-ccl 2.0.0.4253 amd64.deb`

Correct Answer: B

Install the HP VAN SDN Controller from the directory in which it is stored: `~$ sudo dpkg i hp-sdn-ctl_version_amd64.deb` · Replace version with a value for release version 2.0.1.4254 or greater, as shown in Example. Example: Installing the controller software `~$ sudo dpkg -i hp-sdn-ctl_2.0.1.4254_amd64.deb`

Reference: HP VAN SDN Controller Installation Guide

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### QUESTION 3

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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### QUESTION 4

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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#### QUESTION 5

How does an HP VAN SDN Controller team provide high availability for external applications?

A. By using the southbound controller interface tied to a region configuration

B. By using the southbound controller interface with a secondary interface

C. By using the northbound controller interface tied to a region configuration

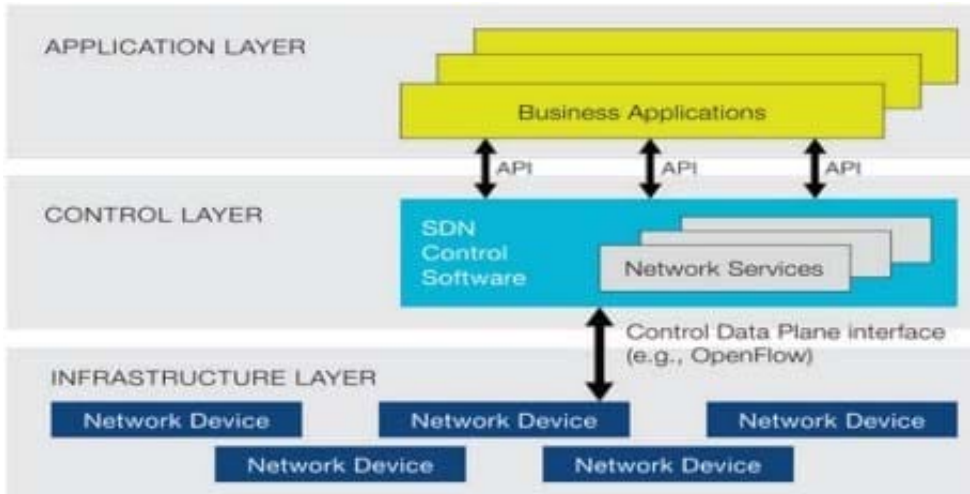
D. By using the northbound controller interface with a secondary interface

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).

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

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