



HP2-Z31^{Q&As}

Creating HP Software-defined Networks

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QUESTION 1

Refer to the exhibits.



```
<5900-2>dis openflow instance 10
Instance 10 information:

Configuration information:
Description      : vlan10
Active status    : active
Inactive configuration:
  none
Active configuration:
  Classification VLAN, total VLANs(1)
    10
  In-band management VLAN, total VLANs(0)
    empty VLAN
Connect mode: multiple
MAC address learning: Enabled
Flow table:
```

```
  Table ID(type): 0(Extensibility), count: 0
  Flow-entry max-limit: 65535
  Datapath ID: 0x000a44319261869e
Port information:
  GigabitEthernet1/0/2
  GigabitEthernet1/0/4
  GigabitEthernet1/0/5
  GigabitEthernet1/0/7
  GigabitEthernet1/0/8
Active channel information:
  Failopen mode: secure

<5900-2>
```



```
[5900-2]display openflow instance 10 controller
Instance 10 controller information:
Reconnect interval: 60 (s)
Echo interval      : 5 (s)

Controller ID      : 1
Controller IP address : 192.168.56.7
Controller port    : 6633
Controller role    : Equal
Connect type      : TCP
Connect state     : Established
Packets sent      : 440
Packets received  : 888
SSL policy        : --
VRF name          : --

[5900-2]
```

What happens when the switch shown in the exhibit loses connectivity to the HP VAN SDN Controller?

- A. The switch removes all flow entries and reverts to the normal forwarding process,
- B. The switch removes all flow entries and continues to use the OpenFlow pipeline.
- C. The switch forwards traffic based on flow tables and does not delete unexpired flow entries.
- D. The switch uses the normal forwarding process and does not delete the flow entries.

Correct Answer: C

QUESTION 2

A customer has a network consisting of 90 switches running OpenFlow 1.0. High Availability is not required as a hybrid network is being used. Which license types does the customer need to purchase? (Select two.)

- A. HP VAN SDN Ctrl 100-node E-LTU



- B. HP VAN SDN Ctrl HA E-LTU
- C. HP VAN SDN Ctrl Base SWw/ 100-node E-LTU
- D. HP VAN SDN Ctrl Base SW w/ 50-node E-LTU
- E. HP VAN SDN Ctrl 50-node E-LTU

Correct Answer: DE

The following licenses are available for the HP VAN SDN Controller:

* (D) Base controller license (HP VAN SDN Ctrl Base SW w/ 50node E-LTU)--Enables the HP VAN SDN Controller to communicate with up to 50 OpenFlow switches. This license is a prerequisite for the other licenses, and must be installed for you to receive technical support during your first 90 days of use. *(E) Base controller plus 50 "Add Nodes" license (HP VAN SDN Ctrl 50node E-LTU)-- Extends by 50 the number of switches the base controller can communicate with using OpenFlow. In addition, you can install the Add Nodes license multiple times. For example: If you install one Add Nodes license on an HP VAN SDN Controller with a base license present, the total number of OpenFlow switches supported is 100. If you install three Add Nodes licenses on an HP VAN SDN controller with a base license, the total number of OpenFlow switches supported is 200. Etc.

Reference: HP VAN SDN Controller License Registration and Activation Guide

QUESTION 3

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 4

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

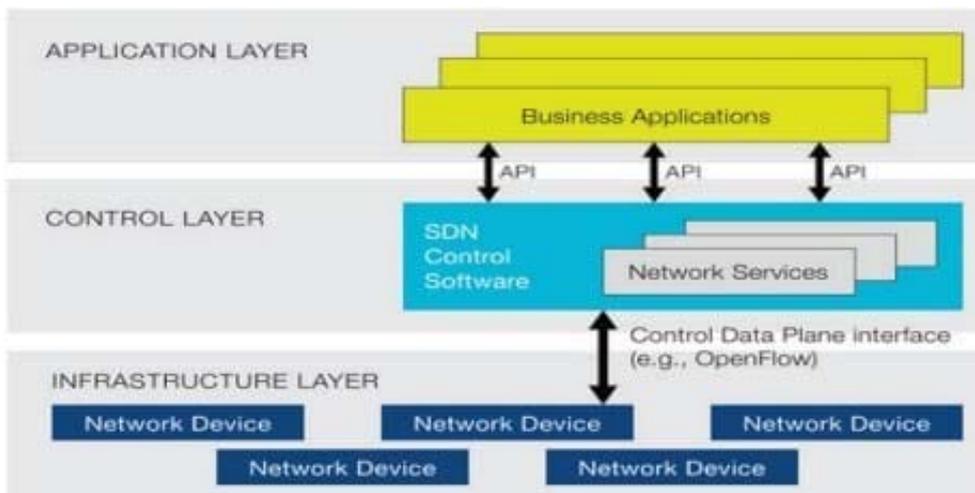
- A. By using the southbound controller interface tied to a region configuration
- B. By using the southbound controller interface with a secondary interface
- C. By using the northbound controller interface tied to a region configuration
- D. By using the northbound controller interface with a secondary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

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 5

What are the addressing requirements for an HP VAN SDN Controller team?



- A. A team requires two IP addresses for each controller, plus one IP address assigned to the team.
- B. A team requires one IP address for each controller, plus one IP address assigned to the team.
- C. A team requires one IP address, and members communicate using their MAC addresses.
- D. A team requires one IP address for each controller; each is configured with the same multicast address.

Correct Answer: B

Explanation: A team requires one IP address for each controller, plus one IP address assigned to the team. If the current team manager goes down, the failover process includes keeping the team IP address active on the new team manager. Reference: HP VAN SDN Controller Administrator Guide

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