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Exam : **HP2-Z31**

Title : **Creating HP Software-defined Networks**

Vendor : **HP**

Version : **DEMO**

NO.1 A single HP VAN SDN Controller is used to control OpenFlow enabled switches that operate in virtualization mode. An internal application is installed on the controller that redirects classified traffic to a specific VLAN. The connection between the controller and the network is lost. The HP OpenFlow enabled switches' connection interruption mode is set to standalone mode.

What is the forwarding behavior of the OpenFlow enabled switches?

- A. Based on the timeout values, the flow entries age out, and only OpenFlow traffic is discarded
- B. All flow entries are removed, and traffic is forwarded using normal switch processing.
- C. All flow entries are set not to age out, and the classified traffic is still redirected.
- D. Based on the timeout values, the flow entries are removed from the flow tables, and all traffic is discarded on the switches.

Answer: B

Explanation:

OpenFlow instance connection interruption mode You can set the type of behavior when the switch loses connection with the controller. fail-standalone If the switch loses connection with all of the controllers, packets and messages of new flows behave as a legacy switch or router would. Existing flows of this OpenFlow instance are removed.

Reference: HP OpenFlow Switches

http://h20628.www2.hp.com/km-ext/kmcsdirect/emr_na-c03512348-4.pdf (page 21)

NO.2 An administrator has created a whitelist entry for the website www.piratesmustdie.com. This has been applied to the test group, which contains VLANs 10-20. VLANs 1 - 20 are configured on switches in the network. A time range has been applied to the whitelist for the time period 9:00am to 5:00pm.

Which users would be able to access the website?

- A. The website is blocked for all users because it has a reputation score of 80 in the RepDV database
- B. Users in VLAN 10 will be able to access the website at 10:00am.
- C. All users will be able to access the website at 4:00pm.
- D. Users in VLAN 5 will be able to access the website at 11:00pm.

Answer: B

NO.3 Which Open Flow plane is responsible for forwarding the packets?

- A. Control plane
- B. Application plane
- C. Management plane
- D. Data plane

Answer: D

Explanation:

The forwarding table is delivered to the data plane by the management plane as part of the device operating system. Thus when an Ethernet frame arrives on the switch interface, the data plane then forwards it to output port.

Note: OpenFlow defines a standard for sending flow rules to network devices so that the Control Plane can add them to the forwarding table for the Data Plane.

Incorrect:

Not A: The control plane will use the routing table to build the forwarding table used by data plane.

Not C: The Management Plane handles functions such device management, firmware updates, SNMP and external configuration via the CLI.

Reference: OpenFlow and Software Defined Networking: Is it Routing or Switching ?

NO.4 Which OpenFlow message ensures that all previous flow mod messages have been processed by the OpenFlow switch agent and that there are no flow mod messages queued for processing from an earlier time?

- A. Flush
- B. Push
- C. Barrier
- D. Force

Answer: A

Explanation:

flush()

Pushes buffered data out the Stream; this is NOT guranteed to flush all data, multiple flush() calls may be required, until needFlush() returns false.

Reference: org.openflow.io, Interface OFMessageOutputStream

NO.5 Which mechanism provides authentication of API calls via the REST API within the HP VAN SDN Controller?

- A. Openstack Keystone
- B. Java
- C. RabbitMQ
- D. Openstack

Answer: A

Explanation:

The SDN controller uses Openstack Keystone as an identity management for managing users, generating tokens, as well as token validation.

Reference: HP VAN SDN Controller Administrator Guide

NO.6 What is a key feature of cloud computing?

- A. server virtualization
- B. network management virtualization
- C. user self-provisioning
- D. software-defined networking

Answer: A

Explanation:

Virtualization is a foundational element of cloud computing and helps deliver on the value of cloud computing. Cloud computing is the delivery of shared computing resources, software or data - as a service and on-demand through the Internet

Reference: Virtualization vs. Cloud Computing: What's the Difference?

<http://www.businessnewsdaily.com/5791-virtualization-vs-cloud-computing.html>

NO.7 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

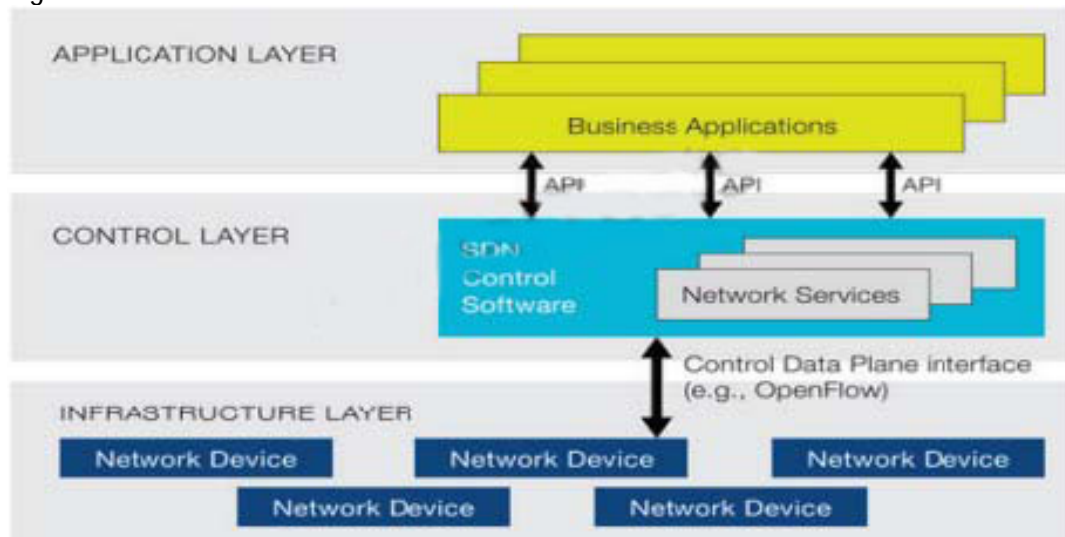
Answer: C

Explanation:

* 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

NO.8 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

Answer: A,E

NO.9 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

Answer: A

Explanation:

*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:

OpenFlow-only

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.

NO.10 Which component of OpenStack is used by the HP VAN SDN Controller for identity services?

- A. Glance
- B. Keystone
- C. Swift
- D. Horizon

Answer: B

Explanation:

The SDN controller uses Openstack Keystone as an identity management for managing users, generating tokens, as well as token validation.

Reference: HP VAN SDN Controller Administrator Guide