HP2-Z31 Q&As

Creating HP Software-defined Networks

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QUESTION 1

A multicast application is used in a customer\\'s environment that relies on IGMP. On an edge switch an Openflow 1.3 instance is configured in aggregation mode. By default, what happens to the IGMP traffic if no matching flow entry exists?

A. IGMP traffic is forwarded on the data plane.

B. IGMP traffic is forwarded to the SON Controller.

C. IGMP traffic is dropped.

D. IGMP traffic is forwarded on the control plane.

Correct Answer: C

In Aggregation mode, all VLANs in the switch are part of an OpenFlow instance. When Aggregation is configured, there is only OpenFlow traffic, no production traffic.

Reference: HP OpenFlow 1.3 Administrator Guide, Wired Switches K/KA/KB/WB 15.15

QUESTION 2

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.

Correct Answer: B

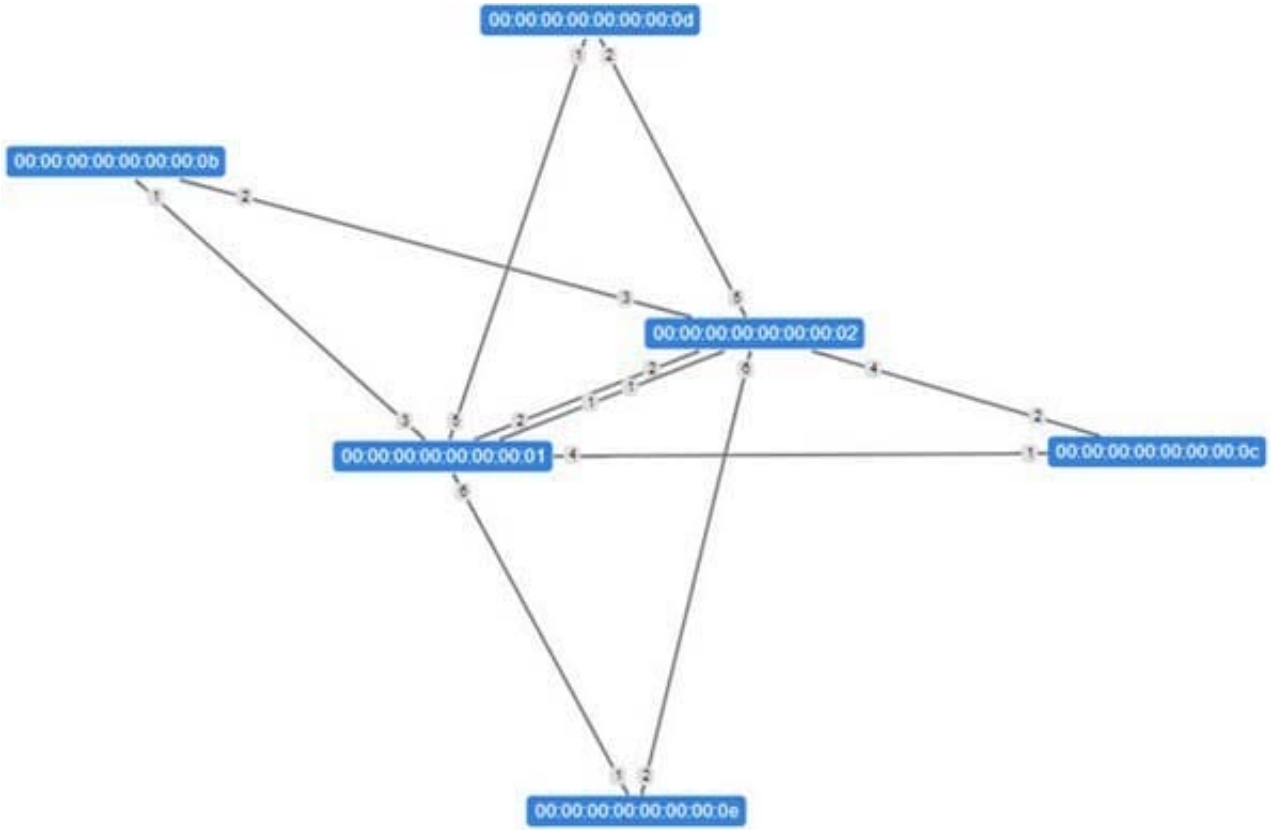
OpenFlow instance connection interruption mode You can set the type of behavior when the switch loses connection with the controller. fail-standalone If the switch loses connection with all of the controllers, packets and messages of new flows behave as a legacy switch or router would. Existing flows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

Reference: HP OpenFlow Switches

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

QUESTION 3

Refer to the exhibit.



Mininet is being used by a developer to test an OpenFlow RESTful API application developed in Python. The developer is able to view the switches in the OpenFlow topology diagram shown in the exhibit, but no hosts are displayed in the topology diagram. The same behavior is seen when making a RESTful API call for nodes via the RESTful API. Switch information is provided via API calls from the HP VAN SDN Controller, but no nodes are shown.

What is a possible issue?

A. Traffic needs to be sent by the Mininet nodes before they will be discovered by the HP VAN SDN Controller.

B. The developer is using the incorrect API calls and needs to ensure that tokens are sent when requesting information from the HP VAN SDN Controller

C. OpenFlow communication between Mininet and the HP VAN SDN Controller is not functioning correctly. Wireshark can be used to aid with troubleshooting the OpenFlow communication.

D. The Topology Service has been stopped on the HP VAN SDN Controller and needs to be started.

Correct Answer: D

The Topology service is used to create a network graph and compute the shortest path between two hosts.

Note: Mininet is a network emulator that can create and emulate an entire OpenFlow network locally on

your PC.

Incorrect:

Not C: No need to analyze packages.

Wireshark is a free and open-source packet analyzer. It is used for network troubleshooting, analysis,

software and communications protocol development, and education.

Reference: HP VAN SDN Controller Administrator Guide

QUESTION 4

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

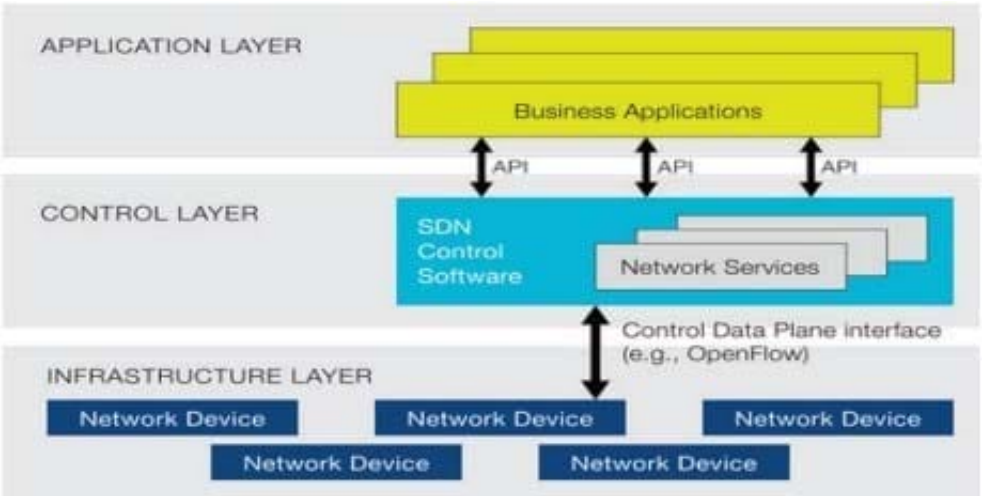
Correct Answer: C

* 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

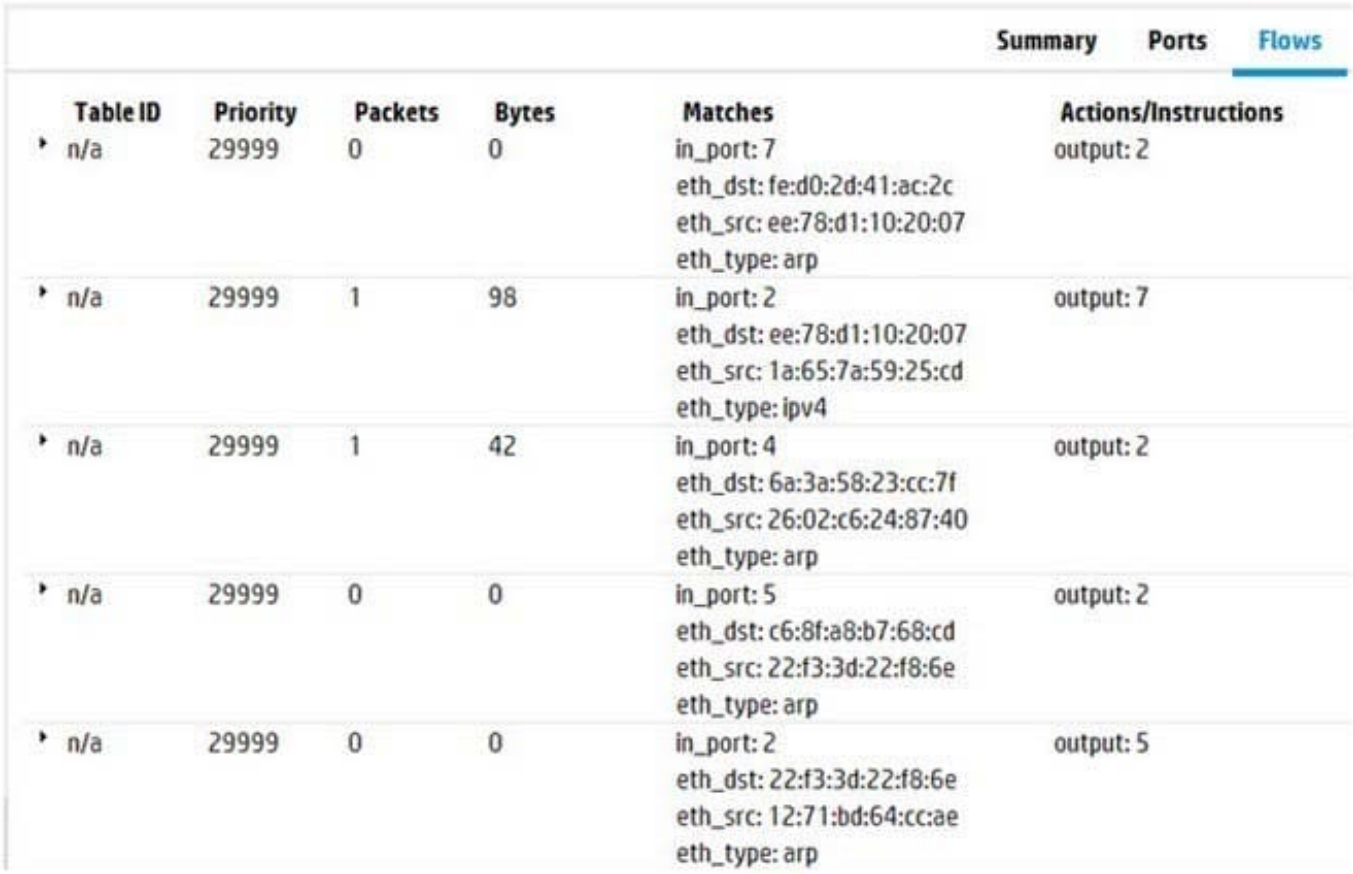


* Putting the region configurations in place in a controller team ensures seamless failover and failback among the configured controllers for the specified network devices in a region. That is, when a master controller experiences a fault, the Role Orchestration Service ensures that a slave controller 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 5

Refer to the exhibit.



Summary | Ports | Flows

Table ID	Priority	Packets	Bytes	Matches	Actions/Instructions
n/a	29999	0	0	in_port: 7 eth_dst: fe:d0:2d:41:ac:2c eth_src: ee:78:d1:10:20:07 eth_type: arp	output: 2
n/a	29999	1	98	in_port: 2 eth_dst: ee:78:d1:10:20:07 eth_src: 1a:65:7a:59:25:cd eth_type: ipv4	output: 7
n/a	29999	1	42	in_port: 4 eth_dst: 6a:3a:58:23:cc:7f eth_src: 26:02:c6:24:87:40 eth_type: arp	output: 2
n/a	29999	0	0	in_port: 5 eth_dst: c6:8f:a8:b7:68:cd eth_src: 22:f3:3d:22:f8:6e eth_type: arp	output: 2
n/a	29999	0	0	in_port: 2 eth_dst: 22:f3:3d:22:f8:6e eth_src: 12:71:bd:64:cc:ae eth_type: arp	output: 5

OpenFlow has been enabled on an HP switch and is communicating with an HP VAN SDN Controller The network administrator has checked the switch flow table entries via the controller graphical user interface, but is unsure of the format. The administrator has taken a screenshot and sent you a copy. Why does the flow table display n/a?

A. The switch has negotiated to use OpenFlow 1.0 with the controller for this instance.

B. The switch has negotiated to use OpenFlow 1.3 with the controller for this instance,

C. The switch has negotiated to use standard mode with the controller for this OpenFlow instance.

D. The switch has negotiated to use ip-control-table-mode with the controller for this OpenFlow instance.

Correct Answer: A

Table ID n/a indicates that OpenFlow 1.0 is in use. Example of the Flows View for a Specific OpenFlow Device

Flows for Data Path ID: 00:00:00:00:00:00:00:02

Table ID	Priority	Packets	Bytes	Matches	Actions/Instructions
n/a	29999	0	0	in_port: 3 eth_dst: 0e:9d:45:7c:04:ab eth_src: 3a:84:9e:66:a7:ca eth_type: arp	output: 4
n/a	29999	1	98	in_port: 5 eth_dst: 96:a7:1b:1e:7d:d9 eth_src: ba:61:e0:9e:6f:8e eth_type: ipv4	output: 4
n/a	29999	0	0	in_port: 5 eth_dst: 82:4b:62:3b:ed:b9 eth_src: 76:37:b7:06:d7:3d eth_type: arp	output: 6

The "Table ID" field applies to OpenFlow 1.3 and greater, but not to OpenFlow 1.0.

Reference: HP VAN SDN Controller Administrator Guide