



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

What is used by the HP VAN SDN Controllers for internal communication between controllers?

- A. REST API Token
- B. Admin ToKen
- C. Auth ToKen
- D. Service Token

Correct Answer: D

The Service token is used for internal communication between controllers and is not exposed to the user.

Reference: HP VAN SDN Controller Administrator Guide, Service and Admin Tokens

QUESTION 3

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 4

Which Open Flow plane is responsible for forwarding the packets?

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

Correct Answer: D

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 ?

QUESTION 5



Which switches will initiate an OpenFlow connection to the HP VAN SDN Controller? (Select two.)



A

```
openflow instance 1
description vlan10
controller 1 address ip 192.168.56.7
activate instance
```

B

```
openflow instance 1
description vlan10
classification vlan 10
activate instance
```

C

```
configure
openflow
controller-id 1 ip 192.168.56.7 controller-interface vlan 192
instance "vlan10"
member vlan 10
controller-id 1
enable
exit
enable
exit
```

D

```
openflow instance 1
classification vlan 10
controller 1 address ip 192.168.56.7
activate instance
```

E

```
configure
openflow
controller-id 1 ip 192.168.56.7 controller-interface vlan 192
instance "vlan10"
member vlan 10
controller-id 1
version 1.3
exit
enable
exit
```



- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Correct Answer: CE

You must enable openflow.

Enable/disable Openflow:

openflow {enable/disable}

Note:

Openflow Configuration (required)

Once you've set up a VLAN, you need to enable and configure an OpenFlow instance on that VLAN.

Show the set of configured OpenFlow instances:

show openflow

Enter the VLAN for the instance you'd like to configure:

vlan

Show the Openflow configuration, including configurable state, controller connectivity, and switch MAC

addr:

show openflow

Set the controller string (6633 is NOX's default port):

openflow controller tcp:: Enable/disable Openflow:

openflow {enable/disable}

Reference: Configuring HP Procurve

http://archive.openflow.org/wk/index.php/Configuring_HP_Procurve

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