



HP2-Z31^{Q&As}

Creating HP Software-defined Networks

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QUESTION 1

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

QUESTION 2

Which protocol does the LYNC FE Server Plugin use to communicate to the HP Network Optimizer SDN Application?

- A. OpenFlow
- B. SNMPv3
- C. Java Remote Method Protocol
- D. REST

Correct Answer: A

Net Optimizer - Lync uses OpenFlow to dynamically provision the end-to-end network path and QoS policy for that Lync call.

Reference: HP Network Optimizer SDN Application -Microsoft Lync 1.1 Administrator Guide

QUESTION 3

A customer wants to implement an OpenFlow solution where packets that do not match any flow entries in the OpenFlow table on the switch are not sent to the controller Rather, packets not matching should be handled normally by the switch. Which command enables this functionality on an HP 3800 series switch?

- A. `openflow instance sales mode active`
- B. `openflow instance sales mode normal`
- C. `openflow instance sales mode passive`



D. openflow instance sales mode hybrid

Correct Answer: C

OpenFlow instance mode

OpenFlow can work either in active or passive mode.

Passive mode

There is one-way communication from the OpenFlow controller to the switch. Packets that do not match any flow in the flow table on the switch are not sent to the controller. Such packets of new flows are handled normally by the switch.

Active mode

New packets of a flow that the switch is not aware of are sent to the OpenFlow controller.

Reference: HP Switch Software OpenFlow Administrator's Guide K/KA/WB 15.14 [http://](http://h20628.www2.hp.com/km-ext/kmcsdirect/emr_na-c03991489-1.pdf)

h20628.www2.hp.com/km-ext/kmcsdirect/emr_na-c03991489-1.pdf (OpenFlow instance mode, passive mode)

QUESTION 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

Correct Answer: A

flush()

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

Reference: org.openflow.io, Interface OFMessageOutputStream

QUESTION 5

Which protocol is used for link discovery when OpenFlow switches are separated by a non- OpenFlow switch?



- A. BDDP
- B. RSTP
- C. LLDP
- D. LACP

Correct Answer: A

LLDP is used to discover direct links between switches and BDDP is used to discover the switches in the same broadcast domain.

Note: Using a link-discovery module, the controller generates both LLDP and broadcast packets (referred to as BDDPs) and sends them to all neighboring switches on a regular basis.

Reference: OpenFlow Controller

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