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

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

Correct Answer: AE

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

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

Refer to exhibit.

Time	Event	Remote ID	Message
12:51:30.399	MESSAGE_RX	00:14:00:9c:02:d8:18:00	[ofm:[V_1_3,PACKET_IN,110,108],inPort=0x1(1),reason=NO_MA...
12:51:30.399	MESSAGE_TX	00:14:00:9c:02:d8:18:00	[ofm:[V_1_3,PACKET_OUT,100,108],acts=[[Act:[OUTPUT,len=16]...
12:51:30.570	DATAPATH_CONNECT...	192.168.56.103/52076	
12:51:30.570	MESSAGE_RX	192.168.56.103/52076	[ofm:[V_1_3,HELLO,16,10],elems=VERSION_BITMAP]
12:51:30.570	MESSAGE_TX	192.168.56.103/52076	[ofm:[V_1_3,HELLO,16,10],elems=VERSION_BITMAP]
12:51:30.571	MESSAGE_TX	192.168.56.103/52076	[ofm:[V_1_3,FEATURES_REQUEST,8,40587]]
12:51:30.770	MESSAGE_RX	00:0a:00:9c:02:d8:18:00	[ofm:[V_1_3,FEATURES_REPLY,32,40587],dpid=00:0a:00:9c:02:...
12:51:30.772	MESSAGE_TX	00:0a:00:9c:02:d8:18:00	[ofm:[V_1_3,MULTIPART_REQUEST,16,40588],PORT_DESC,flgs=n...
12:51:30.772	MESSAGE_TX	00:0a:00:9c:02:d8:18:00	[ofm:[V_1_3,SET_CONFIG,12,40589],flags=[fragReasm],msLen=...
12:51:30.772	MESSAGE_TX	00:0a:00:9c:02:d8:18:00	[ofm:[V_1_3,MULTIPART_REQUEST,16,40590],TABLE_FEATURES,...
12:51:30.774	MESSAGE_RX	00:0a:00:9c:02:d8:18:00	[ofm:[V_1_3,MULTIPART_REPLY,1616,40588],PORT_DESC,flgs=[]...
12:51:30.902	MESSAGE_RX	00:0a:44:31:92:5f:aa:3b	[ofm:[V_1_3,PACKET_IN,110,0],inPort=0x2(2),reason=NO_MATC...
12:51:30.902	MESSAGE_TX	00:0a:44:31:92:5f:aa:3b	[ofm:[V_1_3,PACKET_OUT,100,0],acts=[[Act:[OUTPUT,len=16],p...
12:51:30.904	MESSAGE_RX	00:0a:00:9c:02:d8:ff:c0	[ofm:[V_1_3,PACKET_IN,110,1970282596],inPort=0x7(7),reaso...
12:51:30.943	MESSAGE_RX	00:14:00:9c:02:d8:18:00	[ofm:[V_1_3,PACKET_IN,110,1970282596],inPort=0x7(7),reaso...

Which HP VAN SDN Controller interface can a network administrator use to troubleshoot the southbound interface of the controller and displays the output shown in the exhibit?

A. Audit Log

B. OpenFlow Monitor

C. OpenFlow Tracer

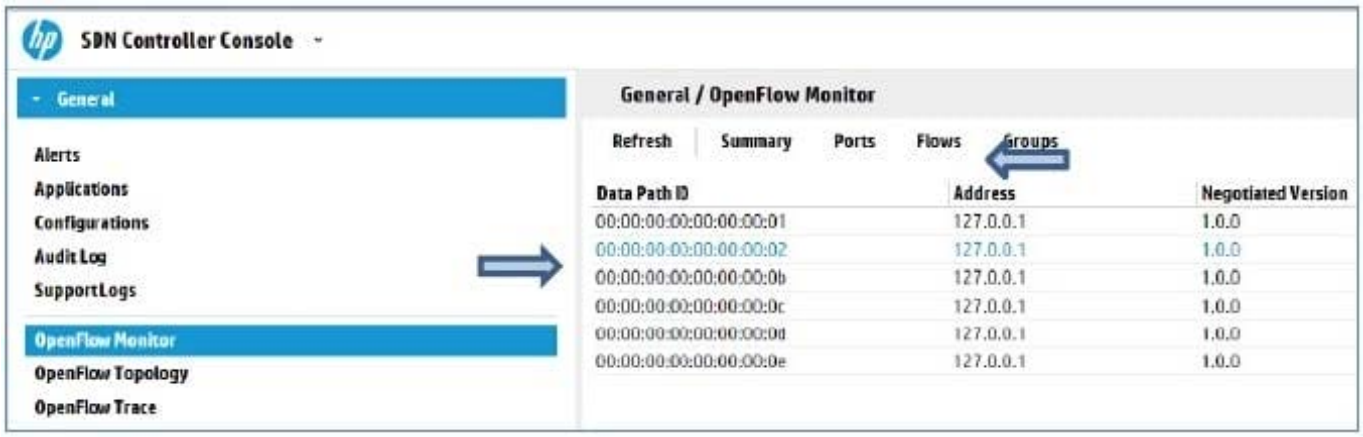
D. Dissector

Correct Answer: C

The OpenFlow Tracer is a built-in packet sniffer similar to Wireshark.

Incorrect:

Not Openflow Monitor:



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