HP2-Z31$^{Q\&As}$

Creating HP Software-defined Networks

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QUESTION 1

Refer to the exhibit.

	Table ID	Priority	Packets	Bytes	Matches	Actions/Instructions
					Summary Ports **Flows**	
▸	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: inv4	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

QUESTION 2

Which HP IMC SDN Manager functionally provides a detailed overview of flow entry history?

A. SDN Manager service flow management

B. SDN Manager Open Flow device management

C. SDN Manager dashboard

D. SDN Manager flow entry management

Correct Answer: A

Flow Management:

*

Delivers History Flow Entry records flow entry used before to help administrators audit flow policy change

*

Displays the list of all current Flow entry in OF network, including Match Field, Instruction and other statistics.

*

Shows detailed flow service information and flow traffic and trend in flow entry detail page

*

Provides shortcut to locate flow to topology show device and link status

Reference: HP IMC Virtual Application Networks Software-defined Networking Manager Software

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QUESTION 3

Which OpenFlow version introduces multiple flow tables?

A. 1.0

B. 1.1

C. 1.2

D. 1.3

Correct Answer: D

Openflow 1.3.1: Support for multiple flow tables is introduced Reference: Open Flow 1.3.1 Support: Controller View
https://wiki.opendaylight.org/images/d/dc/Openflow1.3_Support_for_Opendaylight.pdf

QUESTION 4

Why would an architect require an application to be written as an internal application rather than as an external application?

A. lower cost of development

B. faster event-driven responses

C. greater flexibility of platform choices

D. increased program language options

Correct Answer: B

HP SDN Controller Internal Applications and Modules There are two main ways applications interact with the controller: Within the controller using native applications or modules (Java based or byte compatible applications

such

 as Scala).

 Outside the controller using web based applications (using RESTful APIs).

 Application Types:

 Native Applications / Modules - This is the ideal model for applications that need to exert relatively

finegrained,

 frequent and low-latency control interactions with the environment, e.g. handling packet-in events,

etc.

 Web Based applications - Suitable for applications that need to exert "business" level, i.e.

relatively coarsegrained, infrequent and high-latency control interactions with the environment, e.g. path provisioning, flow inspections, etc.

Reference: HP SDN Controller Architecture, Technical Solution Guide

QUESTION 5

An SDN developer wants to develop a new OpenFlow proactive application using the HP VAN SDN Controller. The controller is configured with IP address 192.168.56.7 and is using release 2.0. The developer is unsure of the REST APIs available on the controller.

To which URL should you recommend the developer navigate?

A. https://192.168.56.7:8443/api

B. https://192.168.56.7:8443/sdn/ui

C. http://192.168.56.7:8443/api

D. http://192.168.56.7:8443/sdn/ui

Correct Answer: A

{base uri}/{api}

This is an unauthenticated API

Use https not http.

Example:

https://15.255.121.2:8443/api

Response codes

· Normal: OK (200)

· Error: Not Found (404), Service Unavailable (503) Reference: HP VAN SDN Controller 2.2 REST AP