



# HP2-Z31<sup>Q&As</sup>

Creating HP Software-defined Networks

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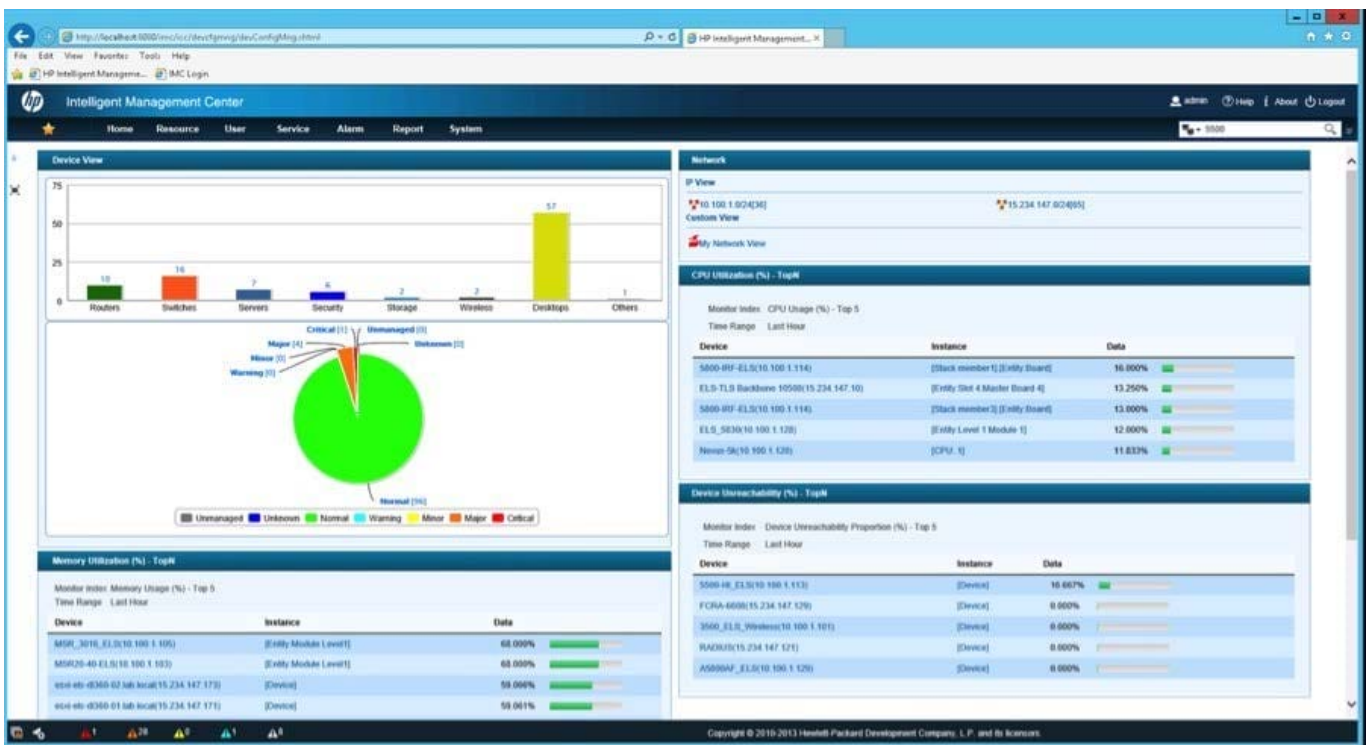
### QUESTION 1

Which HP IMC SDN Manager functionality provides a logical overview of the OpenFlow network?

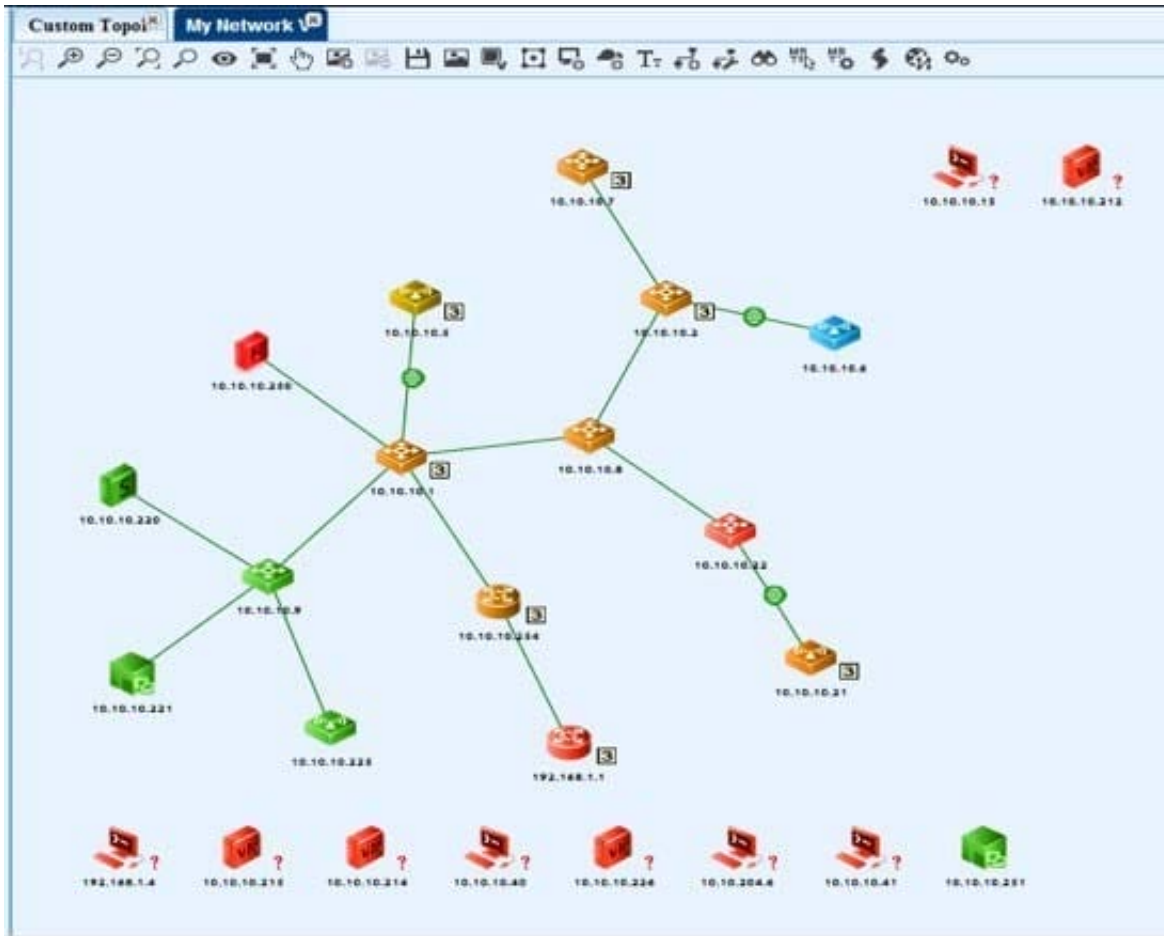
- A. SDN Manager reports
- B. SDN Manager dashboard
- C. SDN Manager flow entry management
- D. SDN Manager OpenFlow topology

Correct Answer: B

HP IMC Dashboard figure:



My Network view (within SDN Manager Dashboard):



Reference: Review: HP Intelligent Management Center (IMC)

### QUESTION 2

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](https://wiki.opendaylight.org/images/d/dc/Openflow1.3_Support_for_Opendaylight.pdf)

### QUESTION 3

Which statement best describes software-defined networking (SDN)?



- A. SDN allows software to leverage the network infrastructure, enabling a centralized and policy-based approach to network provisioning and traffic forwarding.
- B. SDN allows administrators to share software, policies, templates, and applications between multiple virtual machines that are running on the same network.
- C. SDN is another name for OpenFlow, a protocol that lets switches handle traffic with OpenFlow tables rather than MAC forwarding tables and routing tables.
- D. SDN lets IT developers manage physical infrastructure devices directly without pre-defined templates or intermediary devices.

Correct Answer: A

The HP VAN SDN Controller is a Java-based OpenFlow controller enabling SDN solutions such as network controllers for the data center, public cloud, private cloud, and campus edge networks. This includes providing an open platform for developing experimental and special- purpose network control protocols using a built-in OpenFlow controller. The HP VAN SDN Controller is a platform for developing SDN applications and deploying SDN applications. The controller can be characterized as providing a Base Control Platform, a Distributed Platform for High-Availability and Scalability, and an Extensible Platform.

Reference: HP VAN SDN Controller Administrator Guide

#### QUESTION 4

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: 00:00:00:00:00:00:02						
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:5f: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

### QUESTION 5

Which northbound API for external applications do developers use to communicate with the HP VAN SDN Controller?

- A. JSON
- B. NETCONF
- C. HTTPS
- D. REST

Correct Answer: D

PLUMgrid's proprietary controller is designed to maintain control of its network virtualization solution and is not targeted at controlling external elements today. Like other network virtualization-focused controllers, it provides RESTful



APIs in the form of proprietary northbound interfaces.

Reference: SDN Controller Wars 2.0 ON.LAB and Juniper Re-Ignite the Open-Source Battleground. Part 1 of 2

<http://www.sdncentral.com/market/controller-onlab-juniper-open-source-sdn-battleground-part1/2013/12/>

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