



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

Creating HP Software-defined Networks

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**QUESTION 1**

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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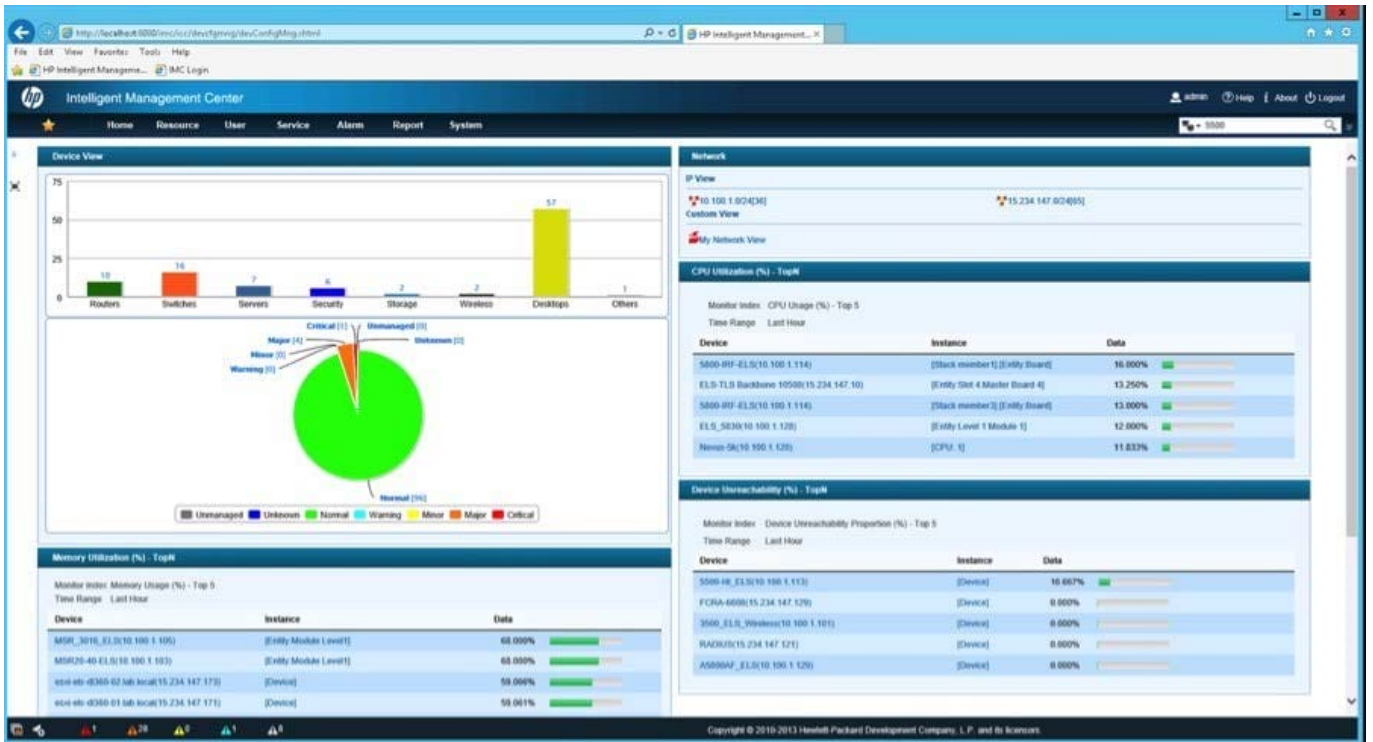
**QUESTION 2**

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

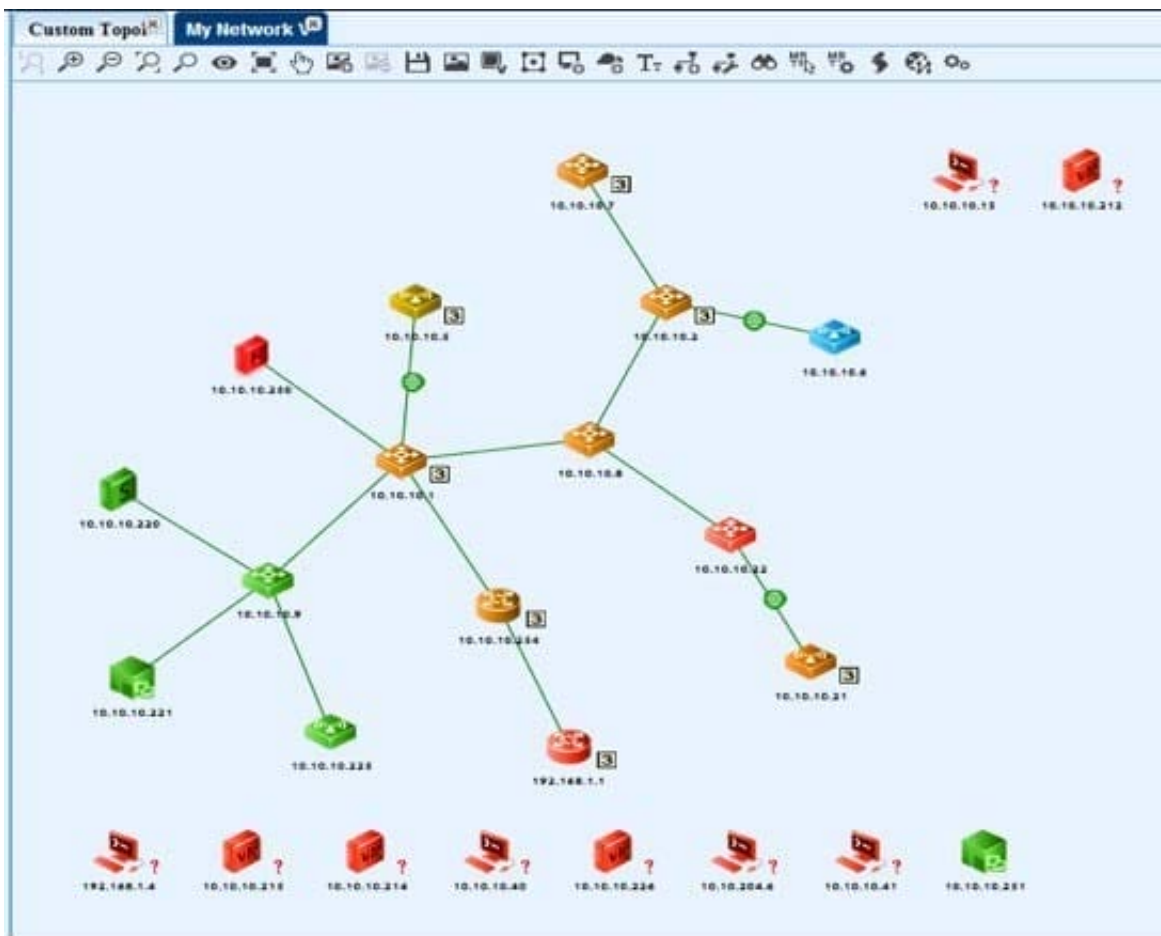
- A. SDN Manager reports
- B. SDN Manager dashboard
- C. SDN Manager flow entry management
- D. SDN Manager OpenFlow topology

Correct Answer: B

HP IMC Dashboard figure:



My Network view (within SDN Manager Dashboard):





Reference: Review: HP Intelligent Management Center (IMC)

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

mode)

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### QUESTION 4

An administrator has created a whitelist entry for the website [www.piratesmustdie.com](http://www.piratesmustdie.com). This has been applied to the test group, which contains VLANs 10-20. VLANs 1 - 20 are configured on switches in the network. A time range has been applied to the whitelist for the time period 9:00am to 5:00pm.

Which users would be able to access the website?

- A. The website is blocked for all users because it has a reputation score of 80 in the RepDV database
- B. Users in VLAN 10 will be able to access the website at 10:00am.
- C. All users will be able to access the website at 4:00pm.



D. Users in VLAN 5 will be able to access the website at 11:00pm.

Correct Answer: B

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### QUESTION 5

An HP VAN SDN Controller team is configured consisting of three controllers, using default settings.

The first controller is configured with IP address 10.1.1.1 and priority 10. The second controller is configured with IP address 10.1.1.2 and priority 20.

The third controller is configured with IP address 10.1.1.3 and priority 30.

Currently the third controller (IP address 10.1.1.3) is the leader device. An administrator reboots the third controller.

Which controller will be the leader once this controller comes back online?

- A. the controller with the IP address 10.1.1.3
- B. the controller with the IP address 10.1.1.1
- C. the controller with the IP address 10.1.1.2
- D. The leader role will be shared amongst all team members.

Correct Answer: C

Once a team is configured, the configuration and monitoring of team members and their associated OpenFlow switches is performed by the team manager. If the team manager goes down, the controller with the next highest priority in the team configuration becomes the team manager.

Note: Team Management Each controller belonging to a team is a team member. To centralize team management and control, one controller is designated as the team manager. Teaming is configured on one controller and is automatically propagated to the other controllers in the team, regardless of which controller becomes the team manager.

Reference: HP VAN SDN Controller Administrator Guide

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