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Creating HP Software-defined Networks

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QUESTION 1

What is one benefit of a software-defined networking (SDN) solution for a WAN?

A. SDN applications can automatically deploy key services on branch zl or MSR modules in case of a failed WAN connection.

B. SDN applications provide a remote connection to servers so that remote IT staff can identify and resolve issues.

C. SDN applications provide a graphical interface for scripting CLI commands for multiple branches at once.

D. SDN applications can adjust WAN bandwidth provisioning granularly, dynamically, and intelligently.

Correct Answer: D

Software-defined networking (SDN) is an architecture purporting to be dynamic, manageable, cost-

effective, and adaptable, seeking to be suitable for the high-bandwidth, dynamic nature of today\\'s

applications.

The SDN architecture is:

Directly programmable: Network control is directly programmable because it is decoupled from forwarding

functions.

Agile: Abstracting control from forwarding lets administrators dynamically adjust network-wide traffic flow to

meet changing needs.
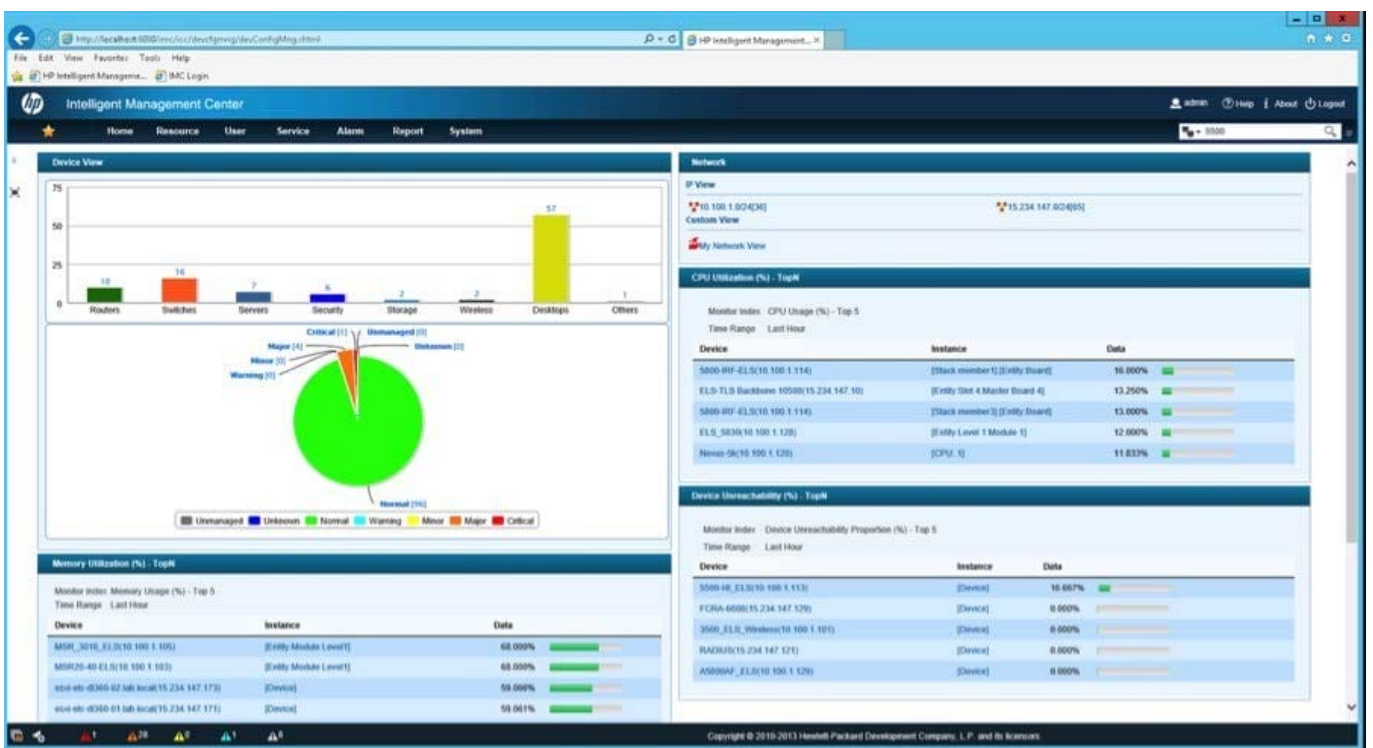
Reference: Wikipedia, Software-defined networking

QUESTION 2

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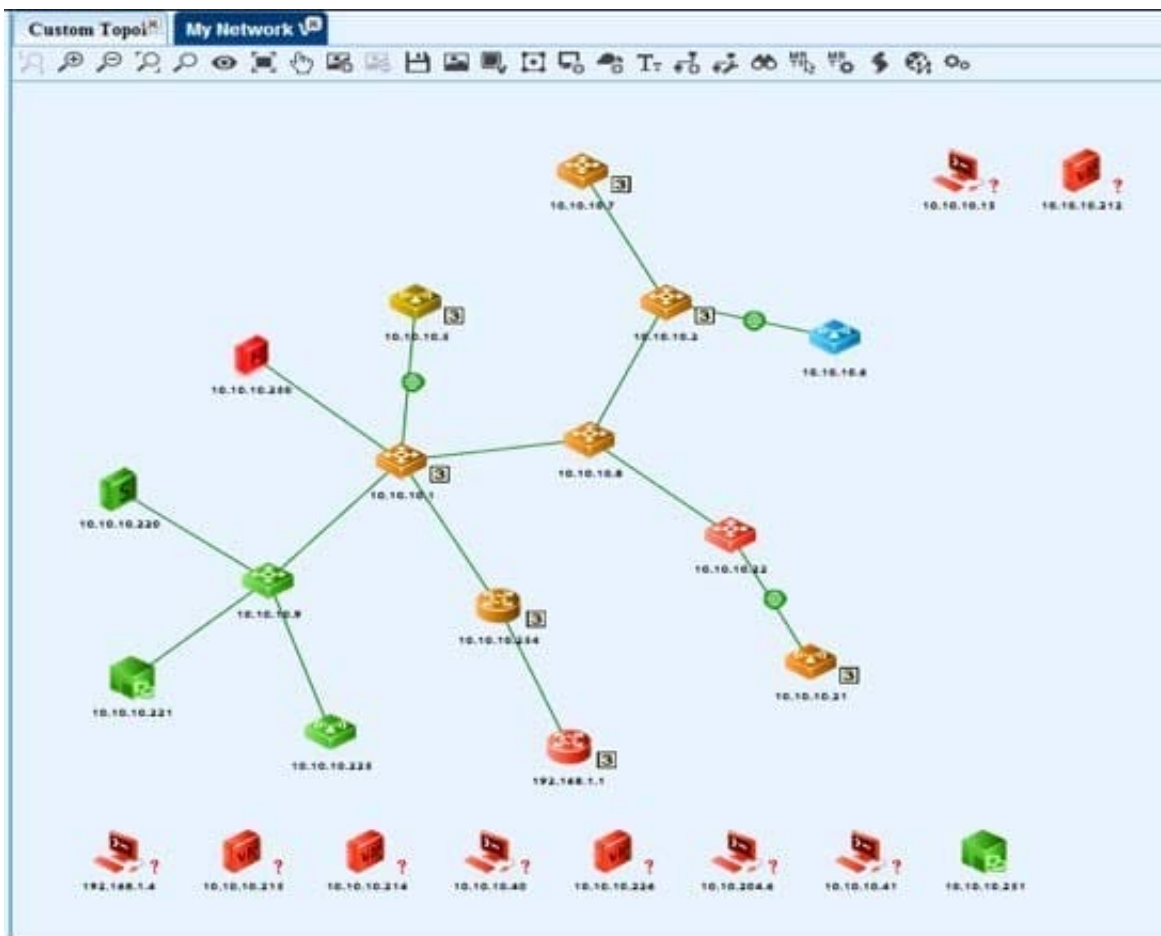
A. SDN Manager reports

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)

QUESTION 3

What are the addressing requirements for an HP VAN SDN Controller team?

A. A team requires two IP addresses for each controller, plus one IP address assigned to the team.

B. A team requires one IP address for each controller, plus one IP address assigned to the team.

C. A team requires one IP address, and members communicate using their MAC addresses.

D. A team requires one IP address for each controller; each is configured with the same multicast address.

Correct Answer: B

Explanation: A team requires one IP address for each controller, plus one IP address assigned to the team. If the current team manager goes down, the failover process includes keeping the team IP address active on the new team manager. Reference: HP VAN SDN Controller Administrator Guide

http://h20566.www2.hp.com/portal/site/hpsc/template.BINARYPORTLET/public/kb/docDisplay/resourc e.process/?
spf_p.tpst=kbDocDisplay_ws_BIandspf_p.rid_kbDocDisplay=docDisplayResURLandjavax.portlet.begCach
eTok=com.vignette.cachetokenandspf_p.rst_kbDocDisplay=wsrp-resourceState%3DdocId%253Demr_na(page 54)
c04003114-2%257CdocLocale%253Dandjavax.portlet.endCacheTok=com.vignette.cachetoken

QUESTION 4

What is a key advantage of implementing malware protection by using the HP Network Protector SDN application?

A. To provide central management of antivirus software

B. To provide rule-based access control

C. To provide VLAN assignment without supplicant

D. To provide clientless operation

Correct Answer: B

About VLAN group policies Policies are a collection of filters or rules that provide a method for setting up security configuration options for VLAN groups. You can create customized policies for each VLAN group based on the requirements and the threat type for each group.
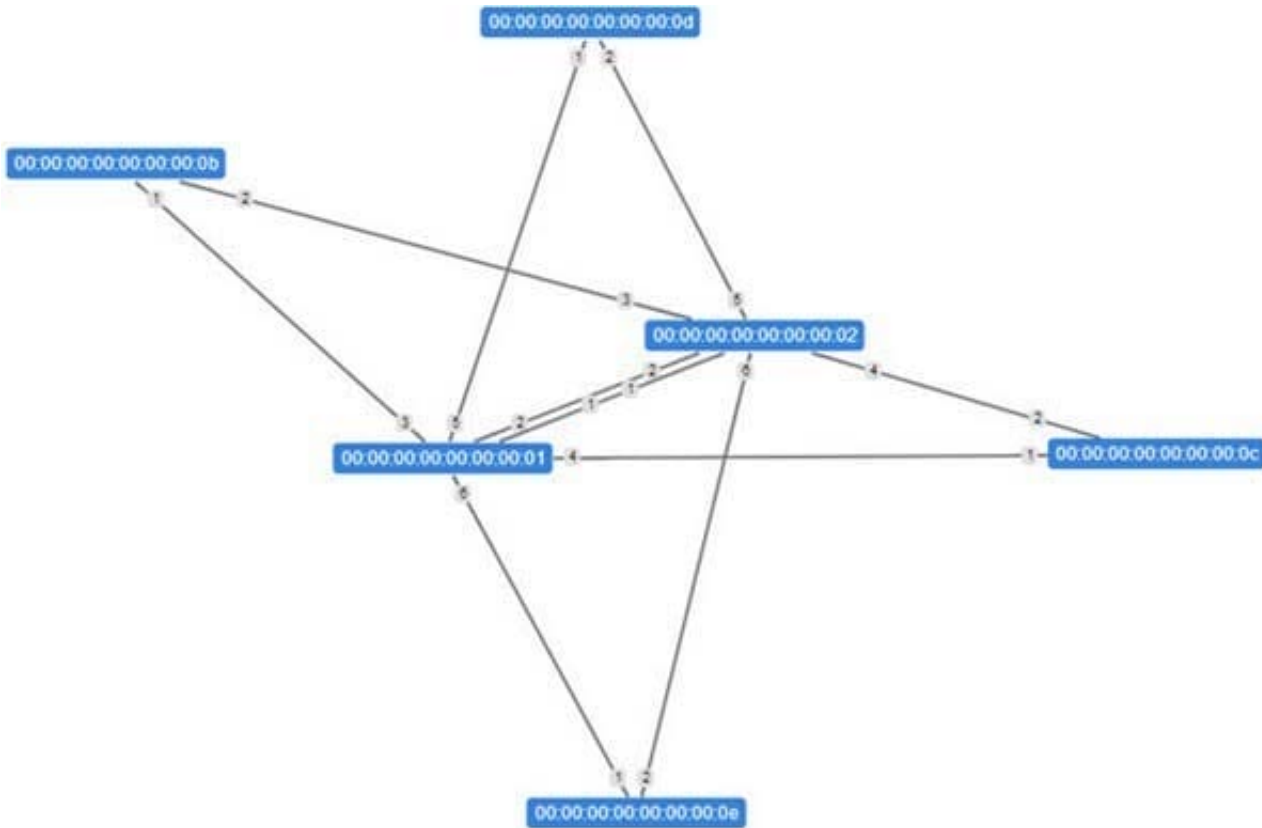
You can customize the policies for the groups by setting the reputation scores. You can set up policies for each group to protect your network from the following threat types: Botnet, Malware, etc

Reference: HP Network Protector SDN Application Administrator Guide

QUESTION 5

Refer to the exhibit.

Mininet is being used by a developer to test an OpenFlow RESTful API application developed in Python. The developer is able to view the switches in the OpenFlow topology diagram shown in the exhibit, but no hosts are displayed in the topology diagram. The same behavior is seen when making a RESTful API call for nodes via the RESTful API. Switch information is provided via API calls from the HP VAN SDN Controller, but no nodes are shown.

What is a possible issue?

A. Traffic needs to be sent by the Mininet nodes before they will be discovered by the HP VAN SDN Controller.

B. The developer is using the incorrect API calls and needs to ensure that tokens are sent when requesting information from the HP VAN SDN Controller

C. OpenFlow communication between Mininet and the HP VAN SDN Controller is not functioning correctly. Wireshark can be used to aid with troubleshooting the OpenFlow communication.

D. The Topology Service has been stopped on the HP VAN SDN Controller and needs to be started.

Correct Answer: D

The Topology service is used to create a network graph and compute the shortest path between two hosts.

Note: Mininet is a network emulator that can create and emulate an entire OpenFlow network locally on

your PC.

Incorrect:

Not C: No need to analyze packages.

Wireshark is a free and open-source packet analyzer. It is used for network troubleshooting, analysis,

software and communications protocol development, and education.

Reference: HP VAN SDN Controller Administrator Guide

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