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Creating HP Software-defined Networks

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**QUESTION 1**

Which protocol is used to discover directly connected links between OpenFlow devices?

- A. SNMP
- B. CDP
- C. OF-CONFIG
- D. LLDP

Correct Answer: D

LLDP is used to discover direct links between switches and BDDP is used to discover the switches in the same broadcast domain.

Note: Using a link-discovery module, the controller generates both LLDP and broadcast packets (referred to as BDDPs) and sends them to all neighboring switches on a regular basis.

Reference: OpenFlow Controller

QUESTION 2

What are advantages of using the HP Network Protector SDN application in a BYOD Network for Malware protection? (Select two.)

- A. To provide updates to filtered host lists
- B. To provide centralized management of client based firewall
- C. To provide full HIPS functionality for BYOD devices
- D. To provide security at the network core to provide prevention before connection

Correct Answer: CD

You can set general policies for all the hosts in the network to manage and mitigate malicious traffic and host name requests. General policies enable the application to detect changes in network traffic patterns. The general policies prevent the host from acting like a botnet and being controlled by external malicious computers.

When network traffic from a host exceeds the policy limits, you can configure application to perform one of the following actions:

Block

Block and notify

Quarantine

Quarantine and Notify

Note: HIPS Short for host-based intrusion prevention system, HIPS is an IPS or intrusion prevention system designed



for security over host-based systems where intrusions and infections are dealt with at the individual workstation level to provide a more effective level of security. Reference: HP Network Protector SDN Application Administrator Guide

QUESTION 3

Which command is a valid cURL command that can be executed against the HP VAN SDN Controller (assuming variables and scripts are configured correctly)?

- A `curl -sk -H "X-Auth-Token:$token" -X POST -H 'Content-Type:application/json' -d @0b.json https://192.168.56.7:8443/sdn/v2.0/of/datapaths/00:00:00:00:00:00:00:0b/flows`
- B `curl -sk -H "X-Auth-Token:$token" /v2.0/of/datapaths`
- C `curl -sk -H "X-Auth-Token:$token" -X POST -H 'Content-Type:application/json' -d @0b.json https://192.168.56.7:8443/sdn/v1.0/of/datapaths/00:00:00:00:00:00:00:0b/flows`
- D `curl -sk -H -X POST -H 'Content-Type:application/json' -d @0b.json https://192.168.56.7:8443/sdn/v2.0/of/datapaths/00:00:00:00:00:00:00:0b/flows`

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

Example: Install an Uploaded (STAGED) Application `curl --noproxy --header X-Auth-Token: -ksS --fail --url https://:sdn/v2.0/apps//action/ -d install --request POST`

Incorrect Not B: incomplete command Not C: Use path /sdn/v2.0/... Not D: -H host header not specified. Reference: HP VAN SDN Controller Administrator Guide

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

Which technology can be used in OpenFlow 1.3 that allows rate limiting of packets that are sent to the SDN Controller?

- A. Slicing
- B. sFlow support
- C. Meter on IP ToS/DSCP bits
- D. Meter table

Correct Answer: D

Per-flow meters OpenFlow 1.3 brings support for per-flow meters. These can be attached to flow entries and can measure and control the rate of packets. One of the main applications of perflow meters is to rate limit packets sent to the controller.

Reference: Production-ready SDN with OpenFlow 1.3

http://h17007.www1.hp.com/docs/interop/2013/37958_HP_N_SDN_Openflow_Brief_042913_lo.pdf (page 2)

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