



HP2-Z31^{Q&As}

Creating HP Software-defined Networks

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**QUESTION 1**

Which services does HP IMC SDN Manager provide? (Select two.)

- A. Managing switch listeners
- B. Updating Topology Service discovery protocol
- C. Managing OpenFlow enabled SDN resources
- D. Creating and maintaining flow policies
- E. Managing and maintaining application awareness

Correct Answer: CD

*

HP VAN SDN Manager provides the following: / Consistent management experience across SDN and traditional networks / Configuration, monitoring, and policy management for a software-defined network / OpenFlow switch management for quick troubleshooting and deployment

*

SDN management HP Provides a complete SDN management solution that: / Delivers network agility through rapid provisioning and automation of network policy enforcement and enabling SDN deployments. / Accelerates application deployment through rapid provisioning of server connectivity. / Enables service agility and velocity from access to core through network resource provisioning. / Provides comprehensive management of all SDN layers.

Reference: Mock RFI for Enterprise SDN Solutions

QUESTION 2

How does an HP Provision OpenFlow device treat packets received on a port blocked by Spanning Tree Protocol?

- A. Packets are submitted to the OpenFlow pipeline for processing.
- B. Packets are not submitted to the OpenFlow pipeline for processing.
- C. BPDU frames are submitted to The OpenFlow pipeline for processing.
- D. All Layer 2 frames are submitted to the controller for processing

Correct Answer: A

*

Can STP and OpenFlow be used together?

No. They are mutually exclusive. On a Hybrid switch STP is turned off on the OpenFlow VLAN. A

recommendation is to enable STP on non-OpenFlow VLANs, but disable on the OpenFlow VLANs. This is



safer than disabling STP globally on the switch.

*

Do not allow a loop between the OpenFlow and non-OpenFlow portions of your network unless you enable Spanning Tree Protocol on the non OpenFlow devices operating in the network.

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There are two types of OpenFlow switches:

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OpenFlow-only

.

OpenFlow-hybrid

OpenFlow only switches support only OpenFlow operation. All packets are processed using OpenFlow.

There is no other way to process packets. OpenFlow hybrid switches support both OpenFlow operation and normal Ethernet switching operation.

QUESTION 3

Refer to the exhibit.



GET /of/datapaths List datapaths

Implementation Notes
List all datapaths that are managed by this controller.

Parameters

Parameter	Value	Description
<input type="button" value="Try it out"/> Hide Response		

Request URL

```
https://192.168.56.7:8443/sdn/v2.0/of/datapaths
```

Response Body

```
{
  "error": "com.hp.api.auth.AuthenticationException",
  "message": "Authentication required"
}
```

Response Code

```
401
```

Response Headers

```
Date: Wed, 26 Feb 2014 22:24:09 GMT
Server: Apache-Coyote/1.1
X-FRAME-OPTIONS: deny
Transfer-Encoding: chunked
Access-Control-Allow-Methods: GET, POST, PUT, HEAD, PATCH, GET, POST, PUT, HEAD, PATCH
Content-Type: application/json
Access-Control-Allow-Origin: *
Access-Control-Allow-Headers: Content-Type, Accept, X-Auth-Token, Content-Type, Accept, X-Auth-Token
```

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http://h20628.www2.hp.com/km-ext/kmcsdirect/emr_na-c03512348-4.pdf

An SDN developer has tried use RSDoc to dis-cover the datapaths in the network. However, the error in the exhibit is displayed. Why is an error returned rather than the datapaths?

- A. RSDoc does not support the submission of datapath requests until a token has been received oURL.
- B. A username and password has not been submitted to the controller via RSDoc.
- C. A Service Token has been submitted to the controller via the Token field in RSDoc.
- D. An Auth Token has not been submitted to the controller via the Token field in RSDoc.

Correct Answer: D

This is an AuthenticationException.

Note: The SDN controller relies on token-based authentication to authenticate its REST APIs. In other words, all REST APIs except the /auth and /rsdoc APIs require an authentication token embedded in an "X-Auth-Token" header to be included with each REST request. The /auth API allows you to obtain a token, while the /rsdoc API provides live REST API documentation information about the controller's REST API.

Reference: HP VAN SDN Controller Administrator Guide



QUESTION 4

Which protocol does the LYNC FE Server Plugin use to communicate to the HP Network Optimizer SDN Application?

- A. OpenFlow
- B. SNMPv3
- C. Java Remote Method Protocol
- D. REST

Correct Answer: A

Net Optimizer - Lync uses OpenFlow to dynamically provision the end-to-end network path and QoS policy for that Lync call.

Reference: HP Network Optimizer SDN Application -Microsoft Lync 1.1 Administrator Guide

QUESTION 5

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

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