



HP2-Z31^{Q&As}

Creating HP Software-defined Networks

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QUESTION 1

Which environmental component is used to handle authentication requests to the HP VAN SDN Controller?

- A. Zookeeper
- B. Cassandra
- C. Neutron
- D. Keystone

Correct Answer: D

The SDN controller uses Openstack Keystone as an identity management for managing users, generating tokens, as well as token validation.

Reference: HP VAN SDN Controller Administrator Guide

QUESTION 2

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

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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

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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 3



Refer to the exhibit.

| User | Occurred | Activity | Data | Origin | Controller ID |
|------|---------------------|----------|--|------------------------|--------------------------------|
| sdn | today 07:29:54 | Start | Topology Viewer has been started | Application Management | d0152bbe-d3e1-4170-a7ec-db0... |
| sdn | today 07:29:48 | Stop | Topology Viewer has been stopped | Application Management | d0152bbe-d3e1-4170-a7ec-db0... |
| sdn | 2014-02-14 22:31:02 | Start | Node Manager has been started | Application Management | d0152bbe-d3e1-4170-a7ec-db0... |
| sdn | 2014-02-14 22:29:45 | Stop | Node Manager has been stopped | Application Management | d0152bbe-d3e1-4170-a7ec-db0... |
| sdn | 2014-02-05 12:18:33 | Download | sdn_controller_backup_2014-02-05_03:5... | Backup Management | d0152bbe-d3e1-4170-a7ec-db0... |
| sdn | 2014-02-05 12:17:54 | Download | sdn_controller_backup_2014-02-05_03:5... | Backup Management | d0152bbe-d3e1-4170-a7ec-db0... |
| sdn | 2014-02-05 12:16:06 | Download | sdn_controller_backup_2014-02-05_03:5... | Backup Management | d0152bbe-d3e1-4170-a7ec-db0... |
| sdn | 2014-02-05 12:14:09 | Download | sdn_controller_backup_2014-02-05_03:5... | Backup Management | d0152bbe-d3e1-4170-a7ec-db0... |
| sdn | 2014-02-05 12:12:24 | Download | sdn_controller_backup_2014-02-05_03:5... | Backup Management | d0152bbe-d3e1-4170-a7ec-db0... |
| sdn | 2014-02-05 12:11:24 | Download | sdn_controller_backup_2014-02-05_03:5... | Backup Management | d0152bbe-d3e1-4170-a7ec-db0... |

Which HP VAN SDN Controller feature displays the output in the exhibit?

- A. Audit Log
- B. OpenFlow Monitor
- C. Support Log
- D. Alerts

Correct Answer: A

For example, the audit log displays software license and teaming activity: Reference: HP VAN SDN Controller Administrator Guide

| General / Audit Log | | | | |
|---------------------|---------------------|-------------------------------------|--|--|
| Refresh | | | | |
| User | Occurred | Activity | Data | |
| sdn-service-client | 2013-10-28 17:23:17 | Added a license | License Serial Number:197 License ... | |
| sdn-service-client | 2013-10-28 17:18:30 | Added a license | License Serial Number:196 License ... | |
| sdn-service-client | 2013-10-28 17:07:18 | Uninstalled a license | License Serial Number:194 License ... | |
| sdn-service-client | 2013-10-28 15:23:08 | Uninstalled a license | License Serial Number:195 License ... | |
| TeamConfig | 2013-10-28 15:05:00 | Team created | name: 3Member Ip: 15.146.193.86 ... | |
| TeamConfig | 2013-10-28 13:32:37 | Team deleted | | |
| TeamConfig | 2013-10-28 13:23:19 | Team created | name: 3Member Ip: 15.146.193.86 ... | |
| sdn-service-client | 2013-10-28 12:46:39 | Added a license | License Serial Number:195 License ... | |
| sdn-service-client | 2013-10-28 12:32:35 | Modified | Modified config: com.hp.sdn.ctl.nod... | |
| sdn-service-client | 2013-10-26 06:20:36 | Updated a license with new quantity | License Serial Number:194 License ... | |
| sdn-service-client | 2013-10-26 06:11:53 | Added a license | License Serial Number:194 License ... | |
| sdn-service-client | 2013-03-27 21:31:01 | Added a license | License Serial Number:197 License ... | |
| sdn-service-client | 2013-03-27 21:26:14 | Added a license | License Serial Number:196 License ... | |
| sdn-service-client | 2013-03-27 21:15:02 | Uninstalled a license | License Serial Number:194 License ... | |
| sdn-service-client | 2013-03-27 19:30:53 | Uninstalled a license | License Serial Number:195 License ... | |

QUESTION 4

An HP Provision switch loses its OpenFlow connection to the HP VAN SDN Controller. How is traffic processed by default if no controller teaming is configured?



A. Packets and messages destined to the controller are dropped. Flows continue to expire according to their time-outs. This is because the default setting on HP Provision switches is fail- standalone.

B. Packets and messages of new flows behave as a legacy switch or router would. Existing flows of this OpenFlow instance are removed. This is because the default setting on HP Provision switches is fail-standalone.

C. Packets and messages of new flows behave as a legacy switch or router would. Existing flows of this OpenFlow instance are removed. This is because the default setting on HP Provision switches is fail-secure.

D. Packets and messages destined to the controller are dropped. Flows continue to expire according to their time-outs. This is because the default setting on HP Provision switches is fail- secure.

Correct Answer: D

OpenFlow instance connection interruption mode

You can set the type of behavior when the switch loses connection with the controller.

OpenFlow instance connection interruption mode

fail-secure

If the switch loses connection with all of the controllers, packets and messages destined to the current controller are dropped. Flows continue to expire according to their time-outs.

Default: fail-secure

Reference: HP OpenFlow Switches

(page 21)

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

QUESTION 5

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