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QUESTION 1

Which command installs the HP VAN SDN Controller software?

- A. `sudo dpkg -i *hp-sdn-ctl`
- B. `sudo dpkg -i hp-sdn-ctl_2.0.0.4253_amd64.deb`
- C. `sudo dpkg -P hp-sdn-ctl_2.0.0.4253_amd64.deb`
- D. `sudo dpkg -i hp-sdn-ccl 2.0.0.4253 amd64.deb`

Correct Answer: B

Install the HP VAN SDN Controller from the directory in which it is stored: `~$ sudo dpkg i hp-sdn-ctl_version_amd64.deb` · Replace version with a value for release version 2.0.1.4254 or greater, as shown in Example. Example: Installing the controller software `~$ sudo dpkg -i hp-sdn-ctl_2.0.1.4254_amd64.deb`

Reference: HP VAN SDN Controller Installation Guide

QUESTION 2

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

QUESTION 3

A customer wants to deploy an HP ProVision-based network with laptops daisy chained to physical IP phones. The customer also wants the laptop traffic to be managed by OpenFlow, while the phones use traditional QoS. Which OpenFlow switch instance configuration option should the customer use?

- A. QoS passthrough
- B. Aggregate
- C. Virtualization
- D. Passive



Correct Answer: C

QUESTION 4

A switch connects to the HP VAN SDN Controller, which has the HP Network Protector SDN Application installed. These are the switch details:

Switch: 3800-24G-2XG Firmware: KA15.14.003

OpenFlow negotiated: 1.3

Which channel will be used for communication with the HP Network Protector application?

- A. OpenFlow Channel
- B. Normal Forwarding
- C. Service Insertion Tunnel
- D. GRE Tunnel

Correct Answer: A

The application uses the switch firmware information to decide if the communication with the switch is through OpenFlow channel or through the application Insertion tunnel. For firmware versions K.15.14 and lower, the application communicates with the switch through OpenFlow channel. For firmware versions KA.15.15.0015 and greater, the application can communicate with the switch either through OpenFlow channel or Service Insertion tunnels.

Reference: HP Network Protector SDN Application Administrator Guide

QUESTION 5

A customer writes an internal application that does not run properly and crashes. Which component of the HP VAN SDN Controller framework offers protection so that other applications continue to function?

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

Correct Answer: A

Note:

The OSGi specification describes a modular system and a service platform for the Java programming language that implements a complete and dynamic component model, something that does not exist in



standalone Java/VM environments. Applications or components, coming in the form of bundles for deployment, can be remotely installed, started, stopped, updated, and uninstalled without requiring a reboot; management of Java packages/classes is specified in great detail. Application life cycle management is implemented via APIs that allow for remote downloading of management policies. The service registry allows bundles to detect the addition of new services, or the removal of services, and adapt accordingly.

Incorrect:

Not Zookeeper: ZooKeeper is a centralized service for maintaining configuration information, naming, providing distributed synchronization, and providing group services. Not Cassandra: Apache Cassandra is an open source distributed database management system designed to handle large amounts of data across many commodity servers, providing high availability with no single point of failure.

Not Keystone: The SDN controller uses Openstack Keystone as an identity management for managing users, generating tokens, as well as token validation.

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