HP2-Z31^{Q&As}

Creating HP Software-defined Networks

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QUESTION 1

How does an HP VAN SDN Controller team provide high availability for OpenFlow switches?

A. By using the northbound controller interface tied to a region configuration

B. By using the northbound controller interface with a secondary interface

C. By using the southbound controller interface tied to a region configuration

D. By using the southbound controller interface with a secondary interface

Correct Answer: C

* Northbound API Relative to figure 1 below, the Northbound API is the API that enables communications between the control layer and the application layer (external business applications.

Southbound API

 Relative to Figure 1 below, the Southbound API is the API that enables communications between the control layer and the infrastructure layer (OpenFlow).

Figure 1. ONF\\'s SDN architecture
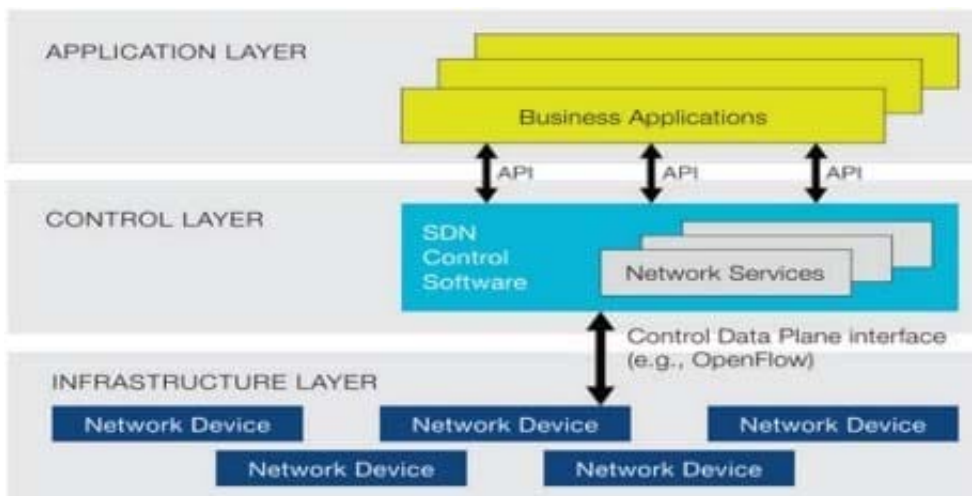
* Putting the region configurations in place in a controller team ensures seamless failover and failback among the configured controllers for the specified network devices in a region. That is, when a master controller experiences a fault, the Role Orchestration Service ensures that a slave controller immediately assumes the master role over the group of network devices to which the failed controller was in the master role.

Reference: Technical white paper, Mock RFI for Enterprise SDN Solutions Reference: HP VAN SDN Controller Administrator Guide

QUESTION 2

A company has an IRF-based, 2-tier FlexFabric architecture in its data center. The company is now increasing the amount of server virtualization and also adding more redundant connections across the network infrastructure

backbone. Which benefit does software-defined networking (SDN) provide for this FlexFabric solution?

A. SDN applications can extend the virtual switches inside hosts into the control plane of multiple physical infrastructure devices.

B. SDN can help core routing switches handle more routing table entries without sacrificing performance.

C. SDN extends the SNMP MIBs to include MIBs for virtual switches.

D. SDN applications can help to provision network connectivity for virtual machines and to forward traffic across complex meshes of links

Correct Answer: A

Q: What is HP\\'s SDN strategy?

A: Virtual Application Networks represent HP\\'s software-defined network vision. By leveraging SDN-enabled infrastructure, control plane, applications and integrated management systems HP is creating an open ecosystem to drive new innovation in networking.

Q: What is the HP Virtual Application Networks SDN Controller?

A: The HP Virtual Application Networks SDN controller is an integral part of HP\\'s Virtual Application Networks offering. The controller acts as the central building block for an abstracted control plane in the SDN architecture.

Reference: Virtual Application Networks Overview http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA4-4714ENW.pdf?jumpid=em_r1165_ww/en/large/eg/ RelatedLink/Virtual_Application_Networks_Overview_FAQs/resourcefinder/Jan_2013

QUESTION 3

Which component synchronizes the configuration amongst a team of HP VAN SDN Controllers?

A. Zookeeper

B. Cassandra

C. Virgo

D. Keystone

Correct Answer: A

ZooKeeper is a centralized service for maintaining configuration information, naming, providing distributed

synchronization, and providing group services.

Incorrect:

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.

QUESTION 4

An administrator wants the switches to forward traffic in the legacy mode. If all the controllers fail, which action should the administrator take?

A. Install a packetin rule as the lowest priority rule in the flow table.

B. Configure the instance to fail in standalone mode.

C. Install a packet_out rule as the lowest priority rule in the flow table.

D. Configure the instance to fail in interruption mode.

Correct Answer: B

OpenFlow instance connection interruption mode

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

fail-standalone

If the switch loses connection with all of the controllers, packets and messages of new flows behave as a

legacy switch or router would. Existing flows of this OpenFlow instance are removed.

Reference: HP OpenFlow Switches

QUESTION 5

Which OpenFlow message ensures that all previous flow mod messages have been processed by the OpenFlow switch agent and that there are no flow mod messages queued for processing from an earlier time?

A. Flush

B. Push

C. Barrier

D. Force

Correct Answer: A

flush()

Pushes buffered data out the Stream; this is NOT guranteed to flush all data, multiple flush() calls may be

required, until needFlush() returns false.

Reference: org.openflow.io, Interface OFMessageOutStream

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