



HP2-Z31^{Q&As}

Creating HP Software-defined Networks

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**QUESTION 1**

A controller is able to register for asynchronous messages from an OpenFlow switch, but when the controller attempts a flow_mod. the OpenFlow command is rejected. Which mode is the controller in from the switch point of view?

- A. Leader
- B. Slave
- C. Master
- D. Equal

Correct Answer: B

QUESTION 2

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 3**

How is a leader elected in an HP VAN SDN Controller team by default?

- A. by the lowest IP address value
- B. by the lowest priority value
- C. by the highest priority value
- D. by the highest IP address value

Correct Answer: C

Once a team is configured, the configuration and monitoring of team members and their associated OpenFlow switches is performed by the team manager. If the team manager goes down, the controller with the next highest priority in the team configuration becomes the team manager. Note: Team Management Each controller belonging to a team is a team member. To centralize team management and control, one controller is designated as the team manager. Teaming is configured on one controller and is automatically propagated to the other controllers in the team, regardless of which controller becomes the team manager.

Reference: HP VAN SDN Controller Administrator Guide

QUESTION 4

Which service on the HP VAN SDN Controller allows Observation posts to be set on a network?

- A. Network Node Service
- B. Path Diagnostic Service
- C. Path Daemon Service
- D. Topology Service

Correct Answer: B

Path Diagnostics Determines and verifies the path taken by a specific packet from a source host to destination host. Evaluates flows configured across the switches in the control domain for diagnosis Creates 'Observation posts' on every switch in the path that the packet would take Tallies packet_ins from the observation posts to figure out where a path is broken Lists neighbors for any given device

Reference: HP VAN SDN Controller Administrator Guide

QUESTION 5

How does an HP VAN SDN Controller team provide high availability for external applications?

- A. By using the southbound controller interface tied to a region configuration
- B. By using the southbound controller interface with a secondary interface
- C. By using the northbound controller interface tied to a region configuration



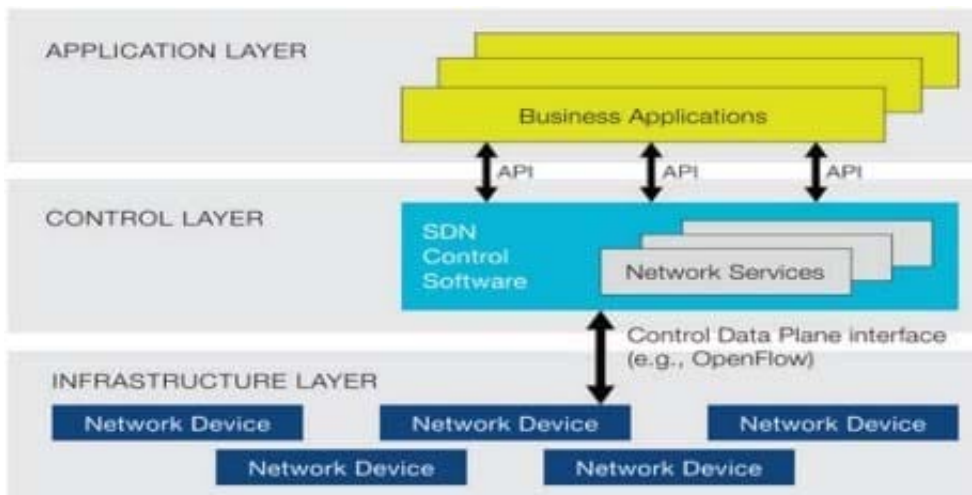
D. By using the northbound controller interface with a secondary interface

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

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