



# HP2-Z31<sup>Q&As</sup>

Creating HP Software-defined Networks

## Pass HP HP2-Z31 Exam with 100% Guarantee

Free Download Real Questions & Answers **PDF** and **VCE** file from:

<https://www.passapply.com/hp2-z31.html>

100% Passing Guarantee  
100% Money Back Assurance

Following Questions and Answers are all new published by HP Official Exam Center

-  **Instant Download** After Purchase
-  **100% Money Back** Guarantee
-  **365 Days** Free Update
-  **800,000+** Satisfied Customers





### QUESTION 1

Refer to the exhibit



192.168.56.5

Controller1 – Priority 30



192.168.56.6

Controller2 – Priority 20



192.168.56.7

Controller3 – Priority 10

Team IP: 192.168.56.2

A team of HP VAN SDN Controllers has been configured using the controllers shown in the exhibit. Which controller will become the team leader by default?

- A. 192.168.56.2
- B. 192.168.56.7
- C. 192.168.56.5
- D. 192.168.56.6

Correct Answer: C

The controller with the highest priority.

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 2

An HP VAN SDN Controller team is configured consisting of three controllers, using default settings.

The first controller is configured with IP address 10.1.1.1 and priority 10. The second controller is configured with IP address 10.1.1.2 and priority 20.

The third controller is configured with IP address 10.1.1.3 and priority 30.

Currently the third controller (IP address 10.1.1.3) is the leader device. An administrator reboots the third controller.



Which controller will be the leader once this controller comes back online?

- A. the controller with the IP address 10.1.1.3
- B. the controller with the IP address 10.1.1.1
- C. the controller with the IP address 10.1.1.2
- D. The leader role will be shared amongst all team members.

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 3

An administrator has checked the Device Status tab on the HP Network Protector SDN application. An HP 3800-24G-2XG switch is displaying a yellow indicator for VLAN 10. What is a potential issue?

- A. VLAN disabled from DNS inspection
- B. All parameters are OK.
- C. SNMP credentials are incorrect or not working.
- D. current and best inspection mode mismatch

Correct Answer: A

Device Status, Health status: Yellow

\*

The status of one or more VLANs configured on the switch is not green

\*

One of the VLANs configured on the switch has been disabled from DNS inspection

Reference: HP Network Protector SDN Application Administrator Guide

---

### QUESTION 4

What is a key advantage of implementing malware protection by using the HP Network Protector SDN application?



- A. To provide central management of antivirus software
- B. To provide rule-based access control
- C. To provide VLAN assignment without supplicant
- D. To provide clientless operation

Correct Answer: B

About VLAN group policies Policies are a collection of filters or rules that provide a method for setting up security configuration options for VLAN groups. You can create customized policies for each VLAN group based on the requirements and the threat type for each group.

You can customize the policies for the groups by setting the reputation scores. You can set up policies for each group to protect your network from the following threat types: Botnet, Malware, etc

Reference: HP Network Protector SDN Application Administrator Guide

---

#### QUESTION 5

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 6

An administrator has created a whitelist entry for the website [www.piratesmustdie.com](http://www.piratesmustdie.com). This has been applied to the test group, which contains VLANs 10-20. VLANs 1 - 20 are configured on switches in the network. A time range has been applied to the whitelist for the time period 9:00am to 5:00pm.

Which users would be able to access the website?

- A. The website is blocked for all users because it has a reputation score of 80 in the RepDV database
- B. Users in VLAN 10 will be able to access the website at 10:00am.
- C. All users will be able to access the website at 4:00pm.
- D. Users in VLAN 5 will be able to access the website at 11:00pm.



Correct Answer: B

---

### QUESTION 7

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 8

An administrator wants to navigate to the HP VAN SDN Controller graphical user interface to view options such as the OpenFlow Topology, Alerts, and installed applications. Which URL is correct for release 2.0 of the HP VAN SDN Controller configured with IP address 192.168.56.7?

- A. <https://192.168.56.7:8443/api>
- B. <https://192.168.56.7:8080/sdn/ui>
- C. <https://192.168.56.7:8443/sdn/ui>
- D. <http://192.168.56.7:8443/sdn/ui>

Correct Answer: C

Start the SDN Graphical User Interface

1.

Use the Google Chrome browser to access the controller's GUI at the controller IP address:



https://:8443/sdn/ui

For example:

https://127.0.0.1:8443/sdn/ui

2.

Enter user name and password credentials, then click Login.

The default user name is "sdn".

The default password is "skyline".

The main controller GUI screen then appears:



Reference: HP VAN SDN Controller Administrator Guide

### QUESTION 9

What is a key feature of cloud computing?

- A. server virtualization
- B. network management virtualization
- C. user self-provisioning
- D. software-defined networking

Correct Answer: A

Explanation: Virtualization is a foundational element of cloud computing and helps deliver on the value of cloud computing. Cloud computing is the delivery of shared computing resources, software or data -- as a service and on-demand through the Internet Reference: Virtualization vs. Cloud Computing: What's the Difference?  
<http://www.businessnewsdaily.com/5791-virtualization-vs-cloud-computing.html>

### QUESTION 10



Which protocol is used to discover directly connected links between OpenFlow devices?

- A. SNMP
- B. CDP
- C. OF-CONFIG
- D. LLDP

Correct Answer: D

LLDP is used to discover direct links between switches and BDDP is used to discover the switches in the same broadcast domain.

Note: Using a link-discovery module, the controller generates both LLDP and broadcast packets (referred to as BDDPs) and sends them to all neighboring switches on a regular basis.

Reference: OpenFlow Controller

---

#### QUESTION 11

Two HP OpenFlow switches are connected to an intermediate layer 2 switch running LLDP, but not OpenFlow. This intermediate switch is configured with a single VLAN. Which protocol is used by the OpenFlow switches to discover this multi-hop link?

- A. CDP
- B. ND
- C. LLDP
- D. BDDP

Correct Answer: D

The LLDP messages allow the link service to discover that there is physical link between two switches. If the LLDP message on one side of the link (Packet\_Out) is received on the other side of the link (Packet\_In) by a switch, LS knows that the two switches are connected to each other. The service is also responsible for identifying multi-hop links. These are links where non- OpenFlow devices are connected between two OpenFlow switches and thus separate the OpenFlow switches. The Link Service does this by sending BDDP (Broadcast version of LLDP) messages in addition to LLDP messages. LLDP is a one hop protocol and may be consumed by a non-OpenFlow switch because LLDP uses a multicast address which the intermediate switch may have subscribed to the LLDP multicast. However, a broadcast frame (BDDP) will be forwarded typically by the intermediate switch. BDDP has the same TLV information as LLDP.

Reference: HP SDN Network Services Modules

---

#### QUESTION 12

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

---

### QUESTION 13

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 OFMessageOutputStream

---

#### QUESTION 14

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 15

A network integrator plans to implement the HP Network Protector SDN application in a network. What is a key consideration with regards to the OpenFlow protocol implementation and switch selection?

- A. If the access switch supports PACKETIN
- B. If the core switch supports PACKETIN
- C. If the access switch supports FORWARD\_NORMAL
- D. if the core switch supports FORWARD\_NORMAL

Correct Answer: A

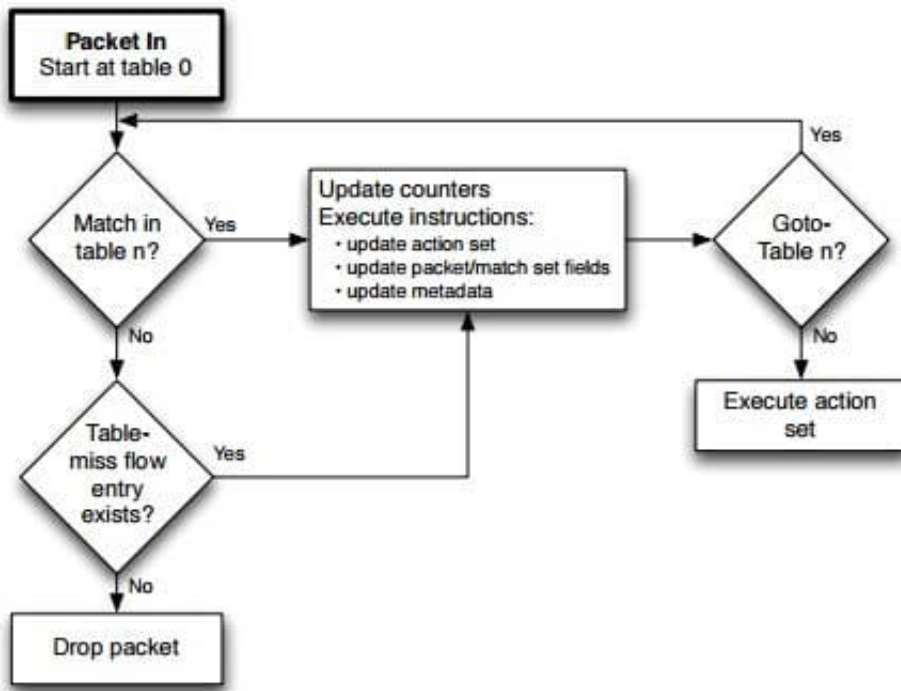
Note:

\*

The PacketIn message is a way for the switch to send a captured packet to the controller. There are two reasons why this might happen; there could be an explicit action as a result of a match asking for this behavior, or from a miss in the match tables, or a ttl error.

\*

Flowchart detailing packet flow through an OpenFlow switch.



Reference: OpenFlow Switch Specification Version 1.3.1

[Latest HP2-Z31 Dumps](#)

[HP2-Z31 Study Guide](#)

[HP2-Z31 Exam Questions](#)