



HP2-Z31^{Q&As}

Creating HP Software-defined Networks

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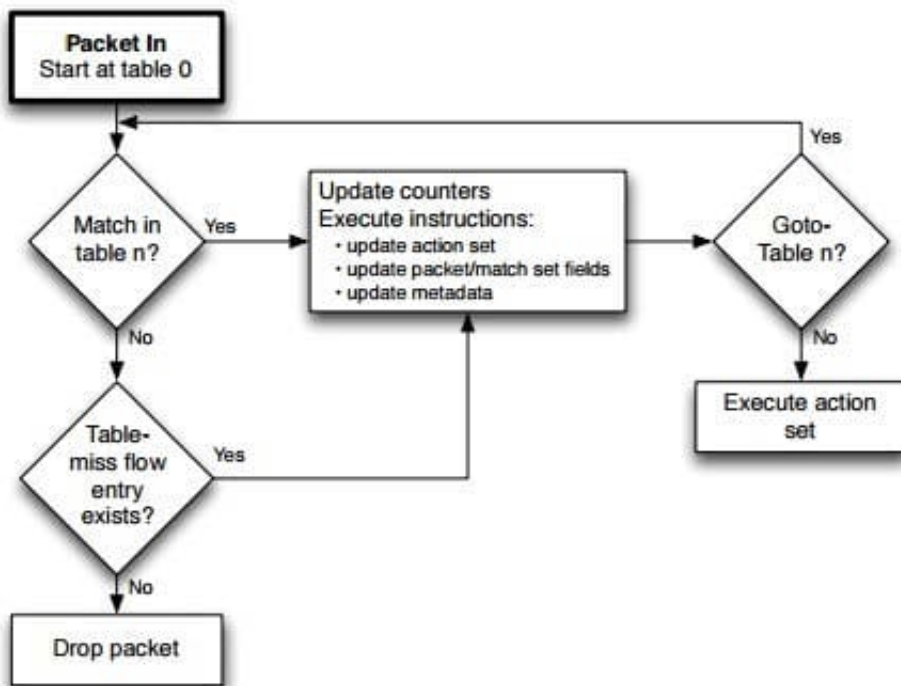
QUESTION 1

Spanning Tree Protocol is disabled on a network edge port. The port is assigned to a VLAN, which is a member of an aggregate OpenFlow 1.0 instance. What is the default behavior of all ingress traffic when no flow entry exists?

- A. Only SDN classified traffic is forwarded to the SDN Controller.
- B. All traffic is discarded.
- C. All traffic is forwarded to the egress port to the final destination address.
- D. All traffic is forwarded to the SDN Controller.

Correct Answer: B

Flowchart detailing packet flow through an OpenFlow switch.



Reference: OpenFlow Switch Specification Version 1.3.1

QUESTION 2

What happens to an incoming packet that does not have a match in any of the Open Flow tables on an HP Provision switch that operates in passive mode?

- A. The packet is forwarded using legacy forwarding mechanisms.
- B. The packet is forwarded to the HP VAN SDN Controller.
- C. The packet is sent to the control plane of the switch.



D. The packet is dropped.

Correct Answer: A

OpenFlow instance mode

OpenFlow can work either in active or passive mode.

Passive mode

There is one-way communication from the OpenFlow controller to the switch. Packets that do not match any flow in the flow table on the switch are not sent to the controller. Such packets of new flows are handled normally by the switch (that is using legacy forwarding mechanisms).

Active mode

New packets of a flow that the switch is not aware of are sent to the OpenFlow controller.

Reference: HP Switch Software OpenFlow Administrator's Guide K/KA/WB 15.14

QUESTION 3

What is one benefit of a software-defined networking (SDN) solution for a WAN?

- A. SDN applications can automatically deploy key services on branch zl or MSR modules in case of a failed WAN connection.
- B. SDN applications provide a remote connection to servers so that remote IT staff can identify and resolve issues.
- C. SDN applications provide a graphical interface for scripting CLI commands for multiple branches at once.
- D. SDN applications can adjust WAN bandwidth provisioning granularly, dynamically, and intelligently.

Correct Answer: D

Software-defined networking (SDN) is an architecture purporting to be dynamic, manageable, cost-effective, and adaptable, seeking to be suitable for the high-bandwidth, dynamic nature of today's applications.

The SDN architecture is:

Directly programmable: Network control is directly programmable because it is decoupled from forwarding functions.

Agile: Abstracting control from forwarding lets administrators dynamically adjust network-wide traffic flow to meet changing needs.

Reference: Wikipedia, Software-defined networking



QUESTION 4

How does an HP Provision OpenFlow device treat packets received on a port blocked by Spanning Tree Protocol?

- A. Packets are submitted to the OpenFlow pipeline for processing.
- B. Packets are not submitted to the OpenFlow pipeline for processing.
- C. BPDU frames are submitted to The OpenFlow pipeline for processing.
- D. All Layer 2 frames are submitted to the controller for processing

Correct Answer: A

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Can STP and OpenFlow be used together?

No. They are mutually exclusive. On a Hybrid switch STP is turned off on the OpenFlow VLAN. A recommendation is to enable STP on non-OpenFlow VLANs, but disable on the OpenFlow VLANs. This is safer than disabling STP globally on the switch.

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Do not allow a loop between the OpenFlow and non-OpenFlow portions of your network unless you enable Spanning Tree Protocol on the non OpenFlow devices operating in the network.

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There are two types of OpenFlow switches:

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OpenFlow-only

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OpenFlow-hybrid

OpenFlow only switches support only OpenFlow operation. All packets are processed using OpenFlow.

There is no other way to process packets. OpenFlow hybrid switches support both OpenFlow operation and normal Ethernet switching operation.

QUESTION 5

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>

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