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Creating HP Software-defined Networks

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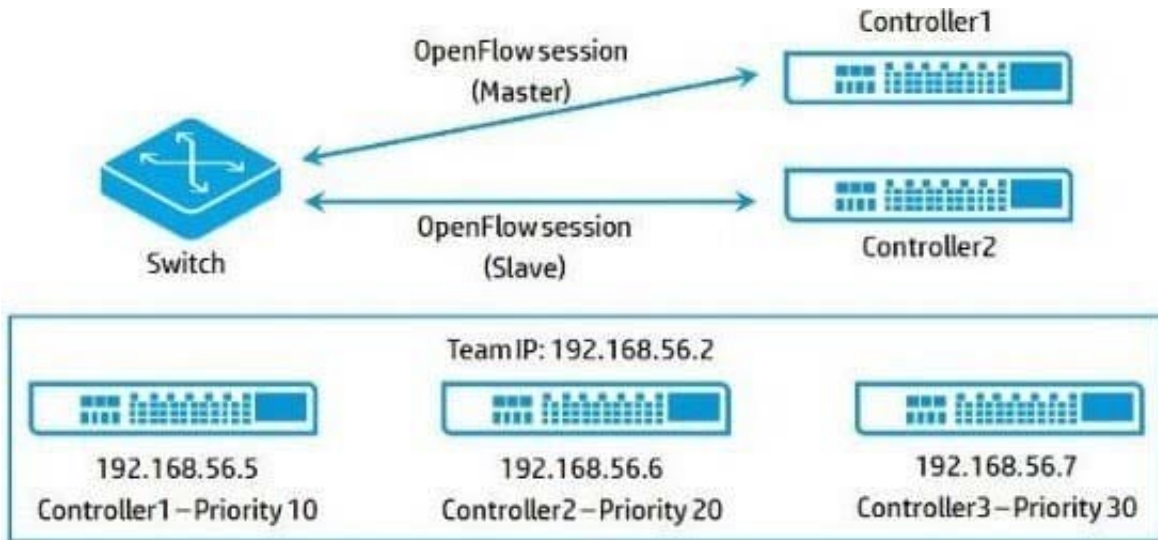
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QUESTION 1

Refer to the exhibit.



A team of HP VAN SDN Controllers has been configured. In addition, regions have been configured. The switch shown in the exhibit has two OpenFlow sessions as follows:

Controller1 - Master Controller2 - Slave

Controller1 is rebooted What happens?

- A. The role orchestration service detects Controller1 failure, and Controller2 becomes the master. Once Controller1 rejoins the team, it becomes the master, and Controller2 reverts to being the slave.
- B. The role orchestration service detects Controller1 failure, and Controller2 becomes the master. Once Controller1 rejoins the team, it joins as the slave controller.
- C. The role orchestration service detects Controller1 failure. Controller2 becomes the master, and Controller1 becomes the slave. Once Controller1 rejoins the team. It joins as the master and Controller2 becomes the slave.
- D. The role orchestration service detects Controller1 failure. Controller2 becomes the master and Controller1 becomes the slave. Once Controller1 rejoins the team it no longer communicates with the switch.

Correct Answer: A

*

Failover (step 1)

ROS (role orchestration service) triggers the failover operation in two cases:

/ Controller failure:

/ Device disconnect:

The ROS instance in a controller is notified of a communication failure with network device(s) through the

Controller Service notifications. It instantly communicates with all ROS instances in the team to determine if the network device(s) in question are still connected to any of the backup (slave) controllers within the team. If that is the case, it elects one of the slaves to assume the master role over the affected network device(s).

*

Failback (step 2)

When the configured master recovers from a failure and rejoins the team, or when the connection from the disconnected device(s) with the original master is resumed, ROS initiates a failback operation in which the master role is restored to the configured master as defined in the region definition.

Reference: HP VAN SDN Controller Administrator Guide

QUESTION 2

Refer to the exhibit.

| | | | | | | Summary | Ports | Flows |
|----------|----------|---------|-------|--|----------------------|---------|-------|-------|
| Table ID | Priority | Packets | Bytes | Matches | Actions/Instructions | | | |
| ▶ n/a | 29999 | 0 | 0 | in_port: 7 eth_dst: fe:d0:2d:41:ac:2c eth_src: ee:78:d1:10:20:07 eth_type: arp | output: 2 | | | |
| ▶ n/a | 29999 | 1 | 98 | in_port: 2 eth_dst: ee:78:d1:10:20:07 eth_src: 1a:65:7a:59:25:cd eth_type: ipv4 | output: 7 | | | |
| ▶ n/a | 29999 | 1 | 42 | in_port: 4 eth_dst: 6a:3a:58:23:cc:7f eth_src: 26:02:c6:24:87:40 eth_type: arp | output: 2 | | | |
| ▶ n/a | 29999 | 0 | 0 | in_port: 5 eth_dst: c6:8f:a8:b7:68:cd eth_src: 22:f3:3d:22:f8:6e eth_type: arp | output: 2 | | | |
| ▶ n/a | 29999 | 0 | 0 | in_port: 2 eth_dst: 22:f3:3d:22:f8:6e eth_src: 12:71:bd:64:cc:ae eth_type: arp | output: 5 | | | |

OpenFlow has been enabled on an HP switch and is communicating with an HP VAN SDN Controller The network administrator has checked the switch flow table entries via the controller graphical user interface, but is unsure of the

format. The administrator has taken a screenshot and sent you a copy. Why does the flow table display n/a?

- A. The switch has negotiated to use OpenFlow 1.0 with the controller for this instance.
- B. The switch has negotiated to use OpenFlow 1.3 with the controller for this instance,
- C. The switch has negotiated to use standard mode with the controller for this OpenFlow instance.
- D. The switch has negotiated to use ip-control-table-mode with the controller for this OpenFlow instance.

Correct Answer: A

Table ID n/a indicates that OpenFlow 1.0 is in use. Example of the Flows View for a Specific OpenFlow Device

| Flows for Data Path ID: 00:00:00:00:00:00:02 | | | | | | |
|--|----------|---------|-------|--|----------------------|--|
| Table ID | Priority | Packets | Bytes | Matches | Actions/Instructions | |
| n/a | 29999 | 0 | 0 | in_port: 3 eth_dst: 0e:9d:45:7c:04:ab eth_src: 3a:84:9e:66:a7:ca eth_type: arp | output: 4 | |
| n/a | 29999 | 1 | 98 | in_port: 5 eth_dst: 96:a7:1b:1e:7d:d9 eth_src: ba:61:e0:9e:5f:8e eth_type: ipv4 | output: 4 | |
| n/a | 29999 | 0 | 0 | in_port: 5 eth_dst: 82:4b:62:3b:ed:b9 eth_src: 76:37:b7:06:d7:3d eth_type: arp | output: 6 | |

The "Table ID" field applies to OpenFlow 1.3 and greater, but not to OpenFlow 1.0.

Reference: HP VAN SDN Controller Administrator Guide

QUESTION 3

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 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 Open Flow plane is responsible for forwarding the packets?

- A. Control plane
- B. Application plane
- C. Management plane
- D. Data plane

Correct Answer: D

The forwarding table is delivered to the data plane by the management plane as part of the device operating system. Thus when an Ethernet frame arrives on the switch interface, the data plane then forwards it to output port.

Note: OpenFlow defines a standard for sending flow rules to network devices so that the Control Plane can add them to the forwarding table for the Data Plane.

Incorrect:

Not A: The control plane will use the routing table to build the forwarding table used by data plane.

Not C: The Management Plane handles functions such device management, firmware updates, SNMP and external configuration via the CLI.

Reference: OpenFlow and Software Defined Networking: Is it Routing or Switching ?

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