



642-997^{Q&As}

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QUESTION 1

The Connectivity Management Processor monitors the active supervisor module on a Cisco Nexus 7000 switch and will reboot the device in the event of a lights-out management issue. However, which option includes features that provide similar benefits in the absence of the Connectivity Management Processor?

- A. high-availability functionality from features such as vPC and NSF
- B. traditional system connectivity models like SNMP, GUI, or SSH
- C. Cisco FabricPath
- D. VDC failover

Correct Answer: A

vPC uses the vPC peer-keepalive link to run hello messages that are used to detect a dual-active scenario. A Gigabit Ethernet port can be used to carry the peer-keepalive messages. A dedicated VRF is recommended to isolate these control messages from common data packets. When an out-of-band network infrastructure is present, the management interfaces of the Cisco Nexus 7000 supervisor could be also used to carry keep-alive connectivity using the dedicated management VRF. When the vPC peer-link is no longer detected, a dual-active situation occurs, and the system disables all vPC port channel member on the "secondary" vPC peer (lower vPC role priority value). Also SVI interfaces associated to a vPC VLAN are suspended on the secondary switch. As a result, in this condition only the "primary" vPC peer actively forwards traffic on the vPC VLANs. Multiple peer-keepalive links can be used to increase resiliency of the dual-active detection mechanism.

Both the Cisco Catalyst 6500 and the Cisco Nexus 7000 offer a variety of high-availability features. Some of the primary features to highlight are In Service Software Upgrade (ISSU), Stateful Switchover (SSO), and Nonstop Forwarding (NSF). The operation and the behavior of these features are unique to the respective platform and can be independently executed without affecting the interoperability between the two platforms.

Reference: http://www.cisco.com/c/en/us/products/collateral/switches/catalyst-6500-series-switches/white_paper_c11_589890.html

QUESTION 2

Which policy-map action performs congestion avoidance?

- A. priority
- B. bandwidth
- C. queue-limit
- D. random-detect

Correct Answer: D

Congestion avoidance techniques monitor network traffic loads in an effort to anticipate and avoid congestion at common network bottlenecks. Congestion avoidance is achieved through packet dropping. Among the more commonly used congestion avoidance mechanisms is Random Early Detection (RED), which is optimum for high-speed transit networks. Cisco IOS QoS includes an implementation of RED that, when configured, controls when the router drops packets. If you do not configure Weighted Random Early Detection (WRED), the router uses the cruder default packet



drop mechanism called tail drop.

Reference: http://www.cisco.com/c/en/us/td/docs/ios/12_2/qos/configuration/guide/fqos_c/qcfconav.html

QUESTION 3

How does an FCoE end node acquire its FCoE MAC address?

- A. server-provided MAC address
- B. Fibre Channel name server
- C. fabric-provided MAC address
- D. FIP proxy

Correct Answer: C

The VN_Port is assigned a fabric-provided Mac address (FPMA) that is built by concatenating a 24-bit FCoE MAC address prefix (FC-MAP), ranging from 0x0E-FC-00 to 0x0E-FC-FF, to the 24-bit FCID. Being able to build a unique MAC address for the VN_Port directly from its FCID saves the switch from having to maintain a table that associates FCID and MAC addresses.

Reference: http://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Data_Center/UF_FCoE_final.html

QUESTION 4

Which task must be done before a zone set takes effect?

- A. Add a member to the zone.
- B. Enter the exit configuration command.
- C. Enter the copy running-config startup-config command.
- D. Enter the zoneset activate name vsan command.

Correct Answer: D

QUESTION 5

Which two Cisco Nexus platforms support Adapter FEX? (Choose two.)

- A. Cisco Nexus 7000 Series Switches
- B. Cisco Nexus 5000 Series Switches
- C. Cisco Nexus 5500 Series Switches
- D. Cisco Nexus 4000 Series Switches



E. Cisco Nexus 2000 Series Fabric Extenders

Correct Answer: CE

At the access layer, the Adapter-FEX requires a FEX-enabled adapter on a server that connects to a parent device that supports virtualization of interfaces. The Adapter-FEX is supported on the following platforms:

The Cisco Unified Computing System (UCS) platform supports Adapter-FEX between UCS servers and the UCS Fabric Interconnect.

?

The Adapter-FEX is supported on the Cisco Nexus 5500 Series platform and on the Cisco Nexus 2200 Fabric Extender that is connected to a Cisco Nexus 5500 Series parent device. This implementation works on a variety of FEX-capable

adapters, including the Cisco UCS P81E virtual interface card (VIC) adapter for the UCS C-Series platform and third party adapters such as the Broadcom BCM57712 Convergence Network Interface Card, that implement the virtual network

tag (VNTag) technology.

Reference:

http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/operations/adapter_fex/513_n1_1/ops_adapter_fex/ops_using_adapter_fex.html

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