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QUESTION 1

Which four options are capabilities of the Cisco Nexus 5000 and 5500 Series Switch? (Choose four.)

A. line rate

B. managed by a parent switch

C. lossless 10 Gigabit Ethernet

D. lossless 100 Gigabit Ethernet

E. low latency

F. extremely low latency

G. hosts a virtual supervisor module

Correct Answer: ACEG

QUESTION 2

Which two security features are only supported on the Cisco Nexus 7000 Series Switches? (Choose two.)

A. IP source guard

B. traffic storm control

C. CoPP

D. DHCP snooping

E. Dynamic ARP Inspection

F. NAC

Correct Answer: BF

A traffic storm occurs when packets flood the LAN, creating excessive traffic and degrading network performance. You can use the traffic storm control feature to prevent disruptions on Layer 2 ports by a broadcast, multicast, or unicast traffic storm on physical interfaces. Traffic storm control (also called traffic suppression) allows you to monitor the levels of the incoming broadcast, multicast, and unicast traffic over a 10-millisecond interval. During this interval, the traffic level, which is a percentage of the total available bandwidth of the port, is compared with the traffic storm control level that you configured. When the ingress traffic reaches the traffic storm control level that is configured on the port, traffic storm control drops the traffic until the interval ends.

Reference: http://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/5_x/dcnm/security/configurati on/guide/b_Cisco_DCNM_Security_Configuration_Guide__Release_5- x/Cisco_DCNM_Security_Configuration_Guide__Release_5x_chapter17.html

And http://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/5_x/dcnm/security/configurati on/guide/b_Cisco_DCNM_Security_Configuration_Guide__Release_5- x/Cisco_DCNM_Security_Configuration_Guide__Release_5-x_chapter1.html

QUESTION 3

Which two reasons explain why a server on VLAN 10 is unable to join a multicast stream that originates on VLAN 20? (Choose two.)

A. IGMP snooping and mrouter are not enabled on VLAN 10.

B. VLAN 20 has no IGMP snooping querier defined and VLAN 10 has no mrouter.

C. The mrouter on VLAN 20 does not see the PIM join.

D. The mrouter must be on VLAN 10 and VLAN 20.

Correct Answer: AC

IGMP snooping is a mechanism to constrain multicast traffic to only the ports that have receivers attached. The mechanism adds efficiency because it enables a Layer 2 switch to selectively send out multicast packets on only the ports that

need them. Without IGMP snooping, the switch floods the packets on every port. The switch "listens" for the exchange of IGMP messages by the router and the end hosts. In this way, the switch builds an IGMP snooping table that has a list of

all the ports that have requested a particular multicast group.

The mrouter port is simply the port from the switch point of view that connects to a multicast router. The presence of at least one mrouter port is absolutely essential for the IGMP snooping operation to work across switches.

All Catalyst platforms have the ability to dynamically learn about the mrouter port. The switches passively listen to either the Protocol Independent Multicast (PIM) hellos or the IGMP query messages that a multicast router sends out

periodically.

Reference: http://www.cisco.com/c/en/us/support/docs/switches/catalyst-6500-series- switches/68131-cat-multicast-prob.html

QUESTION 4

By default it will take 10 seconds for authentication to fail due to an unresponsive RADIUS server before a Cisco Nexus series switch reverts to another RADIUS server or local authentication. What is one efficient way to improve the reaction time to a RADIUS server failure?

A. Decrease the global RADIUS retransmission count to 1.

B. Decrease the global RADIUS timeout interval to 5 seconds.

C. Configure the RADIUS retransmission count and timeout interval per server, versus globally.

D. Configure per server a test idle timer, along with a username and password.

Correct Answer: D

You can monitor the availability of RADIUS servers. These parameters include the username and password to use for

the server and an idle timer. The idle timer specifies the interval during which a RADIUS server receives no requests

before the Nexus 5000 Series switch sends out a test packet. You can configure this option to test servers periodically. The test idle timer specifies the interval during which a RADIUS server receives no requests before the Nexus 5000

Series switch sends out a test packet. The default idle timer value is 0 minutes. When the idle time interval is 0 minutes, the Nexus 5000 Series switch does not perform periodic RADIUS server monitoring.

Reference:

http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/configuration/guid e/cli_rel_4_0_1a/CLIConfigurationGuide/sec_radius.html

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QUESTION 5

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.ht ml

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