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Implementing Cisco IP Switched Networks

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QUESTION 1

Refer to the exhibit.

Which two statements about SW1 are true? (Choose two)

A. Interface Gi5/1 is using a Cisco proprietary trunking protocol

B. On Interface Gi5/1, all untagged traffic is tagged with VLAN 113

C. The device is configured with the default MST region

D. Interface Gi5/1 is using an industry-standard trunking protocol

E. Interface Gi6/2 is the root port for VLAN 36

F. On interface Gi6/2, all untagged traffic is tagged with VLAN 600

Correct Answer: DF

QUESTION 2

Which two benefits of using VSS for chassis virtualization? (Choose two.)

A. Provide a single point of management for improved efficiency.

B. Use a single database to manage configuration for multiple switches.

C. Require only one gateway per VLAN.

D. Support GLBP to balance VSS traffic.

E. Provide multiple points of management for redundancy and improved support.

Correct Answer: AC

QUESTION 3

What attack technique can be used to force user traffic through an attacking device, causing a man-in-the- middle attack?

A. VLAN hopping

B. DHCP spoofing

C. Rogue device

D. MAC flooding

Correct Answer: B

QUESTION 4

A question about the advantage of of VSS.

A. It only has one single point of management and IP address.

B. It only has one multiple point of management and IP address

C. It only has one single point of management and MAC address

D. It only has every single protocol as the point of management to be used.

Correct Answer: A

QUESTION 5

A new network that consists of several switches has been connected together via trunking interfaces. If all switches currently have the default VTP domain name "null", which statement describes what happens when a domain name is configured on one of the switches?

A. The switch with the non-default domain name restores back to "null" upon reboot.

B. Switches with higher revision numbers does not accept the new domain name.

C. VTP summary advertisements are sent out of all ports with the new domain name.

D. All other switches with the default domain name become VTP clients.

Correct Answer: C

By default, a switch will have a domain name of NULL and no password. If the switch hears a VTP advertisement it will automatically learn the VTP domain name, VLANs, and the configuration revision number.

Summary advertisements sent out every 300 seconds and every time a change occurs on the VLAN database.

Contained in a summary advertisement:

VTP version

Domain name

Configuration revision number

Time stamp

MD5 encryption hash code

Reference: https://rowell.dionicio.net/configuring-cisco-vtp/

QUESTION 6

Which two statements correctly describe the benefits of GLBP? (Choose two.)

A. It can load-share LAN traffic across up to four AVFs in a GLBP group.

B. It uses dual active AVGs for redundancy.

C. LAN traffic can be distributed to up to six routers in a GLBP group.

D. It supports up to 128 virtual routers per physical interface.

E. It can automatically adjust group weighting when an interface goes down.

Correct Answer: AE

QUESTION 7

Refer to the exhibit. Three switches are configured for HSRP. Switch1 remains in the HSRP listen state. What is the most likely cause of this status?

A. this is normal operation

B. standby group number does not match VLAN number

C. IP addressing is incorrect

D. incorrect priority commands

E. incorrect standby timers

Correct Answer: A

QUESTION 8

Which two statements about errdisable recovery are true? (Choose two.)

A. You can use the show errdisable recovery command to view the reason a port was error-disabled.

B. Errdisable detection is enabled by default on ports with port security enabled

C. You can use the show errdisable detect command to view the reason a port was error-disabled.

D. Errdisabled autorecovery is enabled by default.

E. Errdisabled detection is disabled by default on ports with port security enabled

Correct Answer: AB

QUESTION 9

RSPAN has been configured on a Cisco Catalyst switch; however, traffic is not being replicated to the remote switch. Which type of misconfiguration is a cause?

A. The RSPAN designated VLAN is missing the remote span command.

B. The local and remote RSPAN switches are configured using different session IDs.

C. The local RSPAN switch is replicating only Rx traffic to the remote switch.

D. The local switch is overloaded with the amount of sourced traffic that must be replicated to the remote switch.

Correct Answer: A

QUESTION 10

Refer to the exhibit.


```
R2#show standby
FastEthernet1/0 - Group 40
  State is Standby
    4 state changes, last state change 00:00:51
  Virtual IP address is 10.10.1.1
  Active virtual MAC address is 0000.0c07.ac28 (MAC Not In Use)
    Local virtual MAC address is 0000.0c07.ac28 (v1 default)
  Hello time 3 sec, hold time 10 sec
    Next hello sent in 1.856 sec
  Preemption disabled
  Active router is 10.10.1.3, priority 85 (expires in 8.672 sec)
  Standby router is local
  Priority 90 (configured 90)
    Track interface FastEthernet0/0 state Up decrement 10
  Group name is "hsrp-Fa1/0-40" (default)
```

Which two statement can be derived from the output of the show standby command? (Choose two.)

A. R2 Fai/O regains mastership when the link comes back up.

B. R2 becomes the active router after the hold time expires.

C. Router with IP 10.10 1 3 is active because it has a higher IP address.

D. If Fa0/0 is shut down, the HSRP priority on R2 becomes 80.

E. R2 is using the default HSRP hello and hold timers.

Correct Answer: DE

QUESTION 11

Which two statements about SDM templates are true?

A. They are used to allocate system resources

B. Changing the SDM template will not disturb switch operation.

C. You can verify the SDM template that is in use with the show sdm prefer command

Correct Answer: AC

QUESTION 12

A server with a statically assigned IP address is attached to a switch that is provisioned for DHCP snooping. For more protection against malicious attacks, the network team is considering enabling dynamic ARP inspection alongside DHCP snooping. Which solution ensures that the server maintains network reachability in the future?

A. Disable DHCP snooping information option.

B. Configure a static DHCP snooping binding entry on the switch.

C. Trust the interface that is connected to the server with the ip dhcp snooping trust command.

D. Verify the source MAC address of all untrusted interfaces with ip dhcp snooping verify mac- address command.

Correct Answer: B

Explanation: Dynamic ARP inspection is a security feature that validates ARP packets in a network. It intercepts, logs, and discards ARP packets with invalid IP-to- MAC address bindings. This capability protects the network from certain manin-the-middle attacks. Dynamic ARP inspection ensures that only valid ARP requests and responses are relayed. The switch performs these activities:

Intercepts all ARP requests and responses on untrusted ports

Verifies that each of these intercepted packets has a valid IP-to-MAC address binding before updating the local ARP cache or before forwarding the packet to the appropriate destination.

Drops invalid ARP packets Dynamic ARP inspection determines the validity of an ARP packet based on valid IP-to-MAC address bindings stored in a trusted database, the DHCP snooping binding database. This database is built by DHCP snooping if DHCP snooping is enabled on the VLANs and on the switch. If the ARP packet is received on a trusted interface, the switch forwards the packet without any checks. On untrusted interfaces, the switch forwards the packet only if it is valid. To ensure network reachability to the server, configure a static DHCP snooping binding entry on the switch. Reference: http://www.cisco.com/c/ en/us/td/ docs/switches/lan/catalyst3750/software/release/12-2_55_se/configuration/ guide/scg3750/ swdynarp.html

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