

Cisco.300-115.v2018-03-04.q139

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NEW QUESTION: 1

Which two protocols can be automatically negotiated between switches for trunking? (Choose two.)

- A. PPP
- B. DTP
- C. ISL
- D. HDLC
- E. DLCI
- F. DOT1Q

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

Switches such as the Catalyst 3550 that are capable of either 802.1Q or ISL trunking encapsulation, the switchport trunk encapsulation [dot1q | isl | negotiate] interface command must be used prior to the switchport mode trunk command.

Reference:

<https://learningnetwork.cisco.com/servlet/JiveServlet/previewBody/14792-102-1-57313/Dynamic%20Trunking%20Protocol.PDF>

NEW QUESTION: 2

In which portion of the frame is the 802.1q header found?

- A. within the Ethernet header
- B. within the Ethernet payload
- C. within the Ethernet FCS
- D. within the Ethernet source MAC address

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

Frame format



Insertion of 802.1Q tag in an Ethernet frame

802.1Q does not encapsulate the original frame. Instead, for Ethernet frames, it adds a 32-bit field between the source MAC address and the EtherType/length fields of the original frame Reference:

[http:// en.wikipedia.org/wiki/IEEE_802.1Q](http://en.wikipedia.org/wiki/IEEE_802.1Q)

NEW QUESTION: 3

Which command globally enables AAA on a device?

- A. aaa new-model
- B. aaa authentication
- C. aaa authorization
- D. aaa accounting

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

To configure AAA authentication, enable AAA by using the aaa new-model global configuration command.

AAA features are not available for use until you enable AAA globally by issuing the aaa new-model command.

Reference:

http://www.cisco.com/c/en/us/td/docs/ios/12_2/security/configuration/guide/fsecur_c/scfathen.html

NEW QUESTION: 4

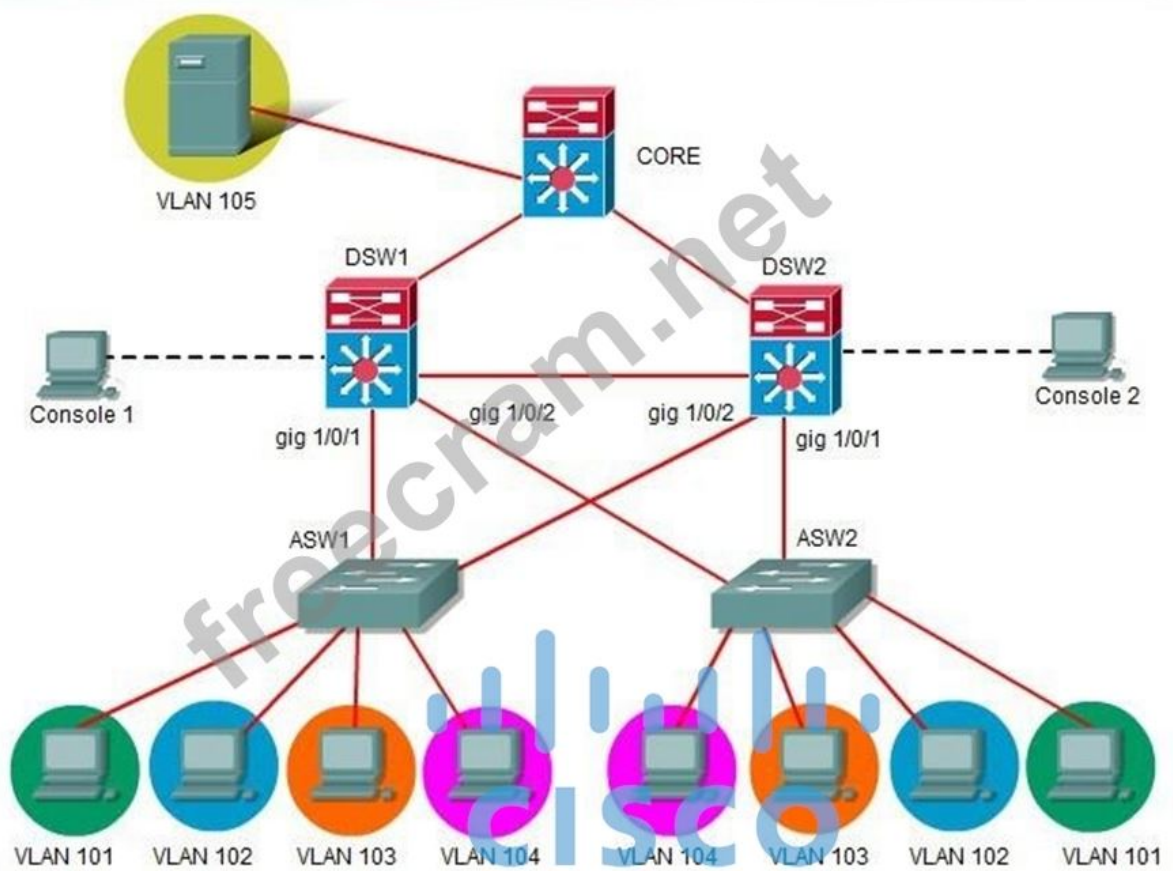
Ferris Plastics, Inc. is a medium sized company, with an enterprise network (access, distribution and core switches) that provides LAN connectivity from user PCs to corporate servers. The distribution switches are configured to use HSRP to provide a high availability solution.

DSW1 -primary device for VLAN 101 VLAN 102 and VLAN 105

DSW2 - primary device for VLAN 103 and VLAN 104

A failure of GigabitEthernet1/0/1 on primary device should cause the primary device to release its status as the primary device, unless GigabitEthernet1/0/1 on backup device has also failed.

Troubleshooting has identified several issues. Currently all interfaces are up. Using the running configurations and show commands, you have been asked to investigate and respond to the following question.





All interfaces are active. DSW2 has not become the active device for the VLAN 103 HSRP group. As related to the VLAN 103 HSRP group, what can be done to make the group function properly?

- A. On DSW1, disable preempt.
- B. On DSW1, decrease the priority value to a value less than 190 and greater than 150.
- C. On DSW2, increase the priority value to a value greater 200 and less than 250.
- D. On DSW2, increase the decrement value in the track command to a value greater than 10 and less than 50.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

From the output shown below of the HSRP status of DSW2, we see that the active router has a priority of

200, while the local priority is 190. We need to increase the priority of DSW2 to greater than 200, but it should be less than 250 so that if the gig 1/0/1 interface goes down, DSW1 will become active. DSW2 is configured to decrement the priority by 50 if this interface goes down, so the correct answer is to increase the priority to more than 200, but less than 250.

Console 2

```
Standby router is local
Priority 190 (configured 190)
  Track interface GigabitEthernet1/0/1 state Up decre
IP redundancy name is "hsrp-Vl102-2" (default)
Vlan103 - Group 3
State is Standby
  4 state changes, last state change 02:58:25
Virtual IP address is 192.168.103.254
Active virtual MAC address is 0000.0c07.ac03
  Local virtual MAC address is 0000.0c07.ac03 (v1 def
Hello time 3 sec, hold time 10 sec
  Next hello sent in 0.315 secs
Preemption enabled
Active router is 192.168.103.1, priority 200 (expires
Standby router is local
Priority 190 (configured 190)
  Track interface GigabitEthernet1/0/1 state Up decre
IP redundancy name is "hsrp-Vl103-3" (default)
```

NEW QUESTION: 5

When two MST instances (MST 1 and MST 2) are created on a switch, what is the total number of spanning-tree instances running on the switch?

- A. 1
- B. 2
- C. 3
- D. 4

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

Unlike other spanning tree protocols, in which all the spanning tree instances are independent, MST establishes and maintains IST, CIST, and CST spanning trees:

An IST is the spanning tree that runs in an MST region.

Within each MST region, MST maintains multiple spanning tree instances. Instance 0 is a special instance for a region, known as the IST. All other MST instances are numbered from 1 to 4094. In the case for this question, there will be the 2 defined MST instances, and the special 0 instance, for a total of 3 instances.

The IST is the only spanning tree instance that sends and receives BPDUs. All of the other spanning tree instance information is contained in MSTP records (M-records), which are encapsulated within MST BPDUs. Because the MST BPDU carries information for all instances, the number of BPDUs that need to be processed to support multiple spanning tree instances is significantly reduced.

All MST instances within the same region share the same protocol timers, but each MST instance has its own topology parameters, such as root bridge ID, root path cost, and so forth. By default, all VLANs are assigned to the IST.

An MST instance is local to the region; for example, MST instance 1 in region A is independent of MST instance 1 in region B, even if regions A and B are interconnected.

A CST is a collection of the ISTs in each MST region.

The CST interconnects the MST regions and single spanning trees.

Reference: <http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst6500/ios/12-2SX/configuration/guide/book/spantree.html>

NEW QUESTION: 6

A manager tells the network engineer to permit only certain VLANs across a specific trunk interface. Which option can be configured to accomplish this?

- A. allowed VLAN list
- B. VTP pruning
- C. VACL
- D. L2P tunneling

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

When a trunk link is established, all of the configured VLANs are allowed to send and receive traffic across the link. VLANs 1 through 1005 are allowed on each trunk by default. However, VLAN traffic can be removed from the allowed list. This keeps traffic from the VLANs from passing over the trunk link.

Note: The allowed VLAN list on both the ends of the trunk link should be the same. For Integrated Cisco IOS Software based switches, perform these steps:

1. To restrict the traffic that a trunk carries, issue the switchport trunk vlan-list interface configuration command.

This removes specific VLANs from the allowed list.

Reference: <https://supportforums.cisco.com/document/11836/how-define-vlans-allowed-trunk-link>

NEW QUESTION: 7

After the implementation of several different types of switches from different vendors, a network engineer notices that directly connected devices that use Cisco Discovery Protocol are not visible. Which vendor-neutral protocol could be used to resolve this issue?

- A. Local Area Mobility
- B. Link Layer Discovery Protocol
- C. NetFlow
- D. Directed Response Protocol

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

The Link Layer Discovery Protocol (LLDP) is a vendor-neutral link layer protocol in the Internet Protocol Suite used by network devices for advertising their identity, capabilities, and neighbors on an IEEE 802 local area network, principally wired Ethernet. LLDP performs functions similar to several proprietary protocols, such as the Cisco Discovery Protocol (CDP). Reference: http://en.wikipedia.org/wiki/Link_Layer_Discovery_Protocol

NEW QUESTION: 8

A DHCP configured router is connected directly to a switch that has been provisioned with DHCP snooping. IP Source Guard with the ip verify source port-security command is configured under the interfaces that connect to all DHCP clients on the switch. However, clients are not receiving an IP address via the DHCP server. Which option is the cause of this issue?

- A. The DHCP server does not support information option 82.
- B. The DHCP client interfaces have storm control configured.
- C. Static DHCP bindings are not configured on the switch.
- D. DHCP snooping must be enabled on all VLANs, even if they are not utilized for dynamic address allocation.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

When you enable both IP Source Guard and Port Security, using the ip verify source port- security interface configuration command, there are two caveats:

The DHCP server must support option 82, or the client is not assigned an IP address.

The MAC address in the DHCP packet is not learned as a secure address. The MAC address of the

DHCP client is learned as a secure address only when the switch receives non-DHCP data traffic.

Reference: http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3550/software/release/12-2_25_see/configuration/guide/3550SCG/swdhcp82.html#wp1069615

NEW QUESTION: 9

Which statement about restrictions for multichassis LACP is true?

- A. It is available only on a Cisco Catalyst 6500 Series chassis.
- B. It does not support 1Gb links.
- C. Converting a port channel to mLACP can cause a service disruption.

D. It is not available in VSS.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

When configuring mLACP for Server Access, follow these guidelines and restrictions:

PFC3A mode does not support the mLACP for server access feature.

VSS mode does not support the mLACP for server access feature.

No more than 100 VLANs can be active on a switch configured as a PoA.

mLACP does not support half-duplex links.

mLACP does not support multiple neighbors.

Converting a port channel to mLACP can cause a service disruption.

The DHD system priority must be lower (higher numerically) than the PoA system priority.

Reference:

http://www.cisco.com/en/US/docs/switches/lan/catalyst6500/ios/12.2SX/configuration/guide/mlacp_server_support.html

NEW QUESTION: 10

What is the maximum number of VLANs that can be assigned to an access switchport without a voice VLAN?

A. 0

B. 1

C. 2

D. 1024

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

A standard (non-voice VLAN port) access switch port can belong to only a single VLAN. If more than one VLAN is needed, the port should be configured as a trunk port.

NEW QUESTION: 11

After configuring new data VLANs 1020 through 1030 on the VTP server, a network engineer notices that none of the VTP clients are receiving the updates. What is the problem?

A. The VTP server must be reloaded.

B. The VTP version number must be set to version 3.

C. After each update to the VTP server, it takes up to 4 hours propagate.

D. VTP must be stopped and restarted on the server.

E. Another switch in the domain has a higher revision number than the server.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

VTP version 3 supports these features that are not supported in version 1 or version 2:

Enhanced authentication--You can configure the authentication as hidden or secret. When hidden, the

secret key from the password string is saved in the VLAN database file, but it does not appear in plain text in the configuration. Instead, the key associated with the password is saved in hexadecimal format in the running configuration. You must reenter the password if you enter a takeover command in the domain. When you enter the secret keyword, you can directly configure the password secret key.

Support for extended range VLAN (VLANs 1006 to 4094) database propagation. VTP versions 1 and 2

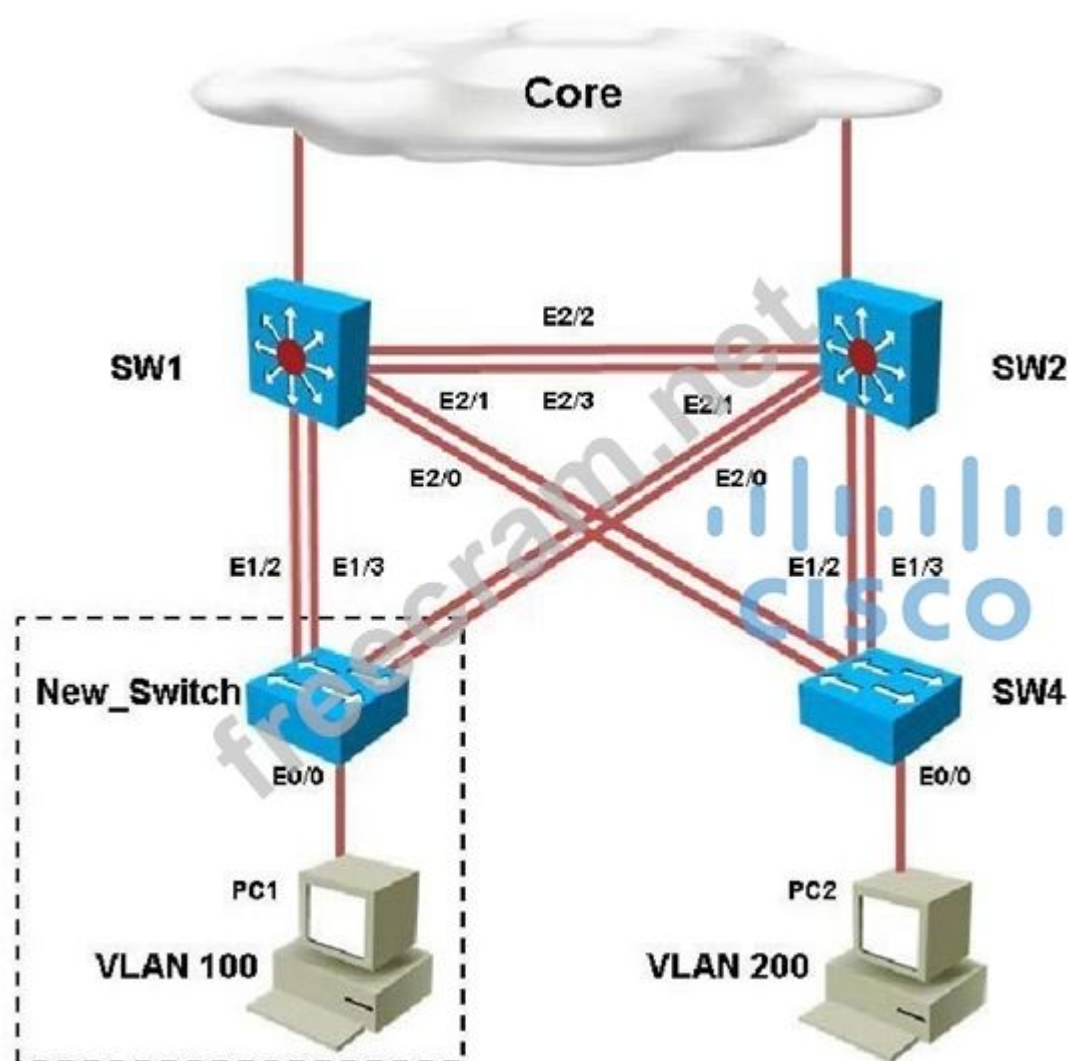
propagate only VLANs 1 to 1005. If extended VLANs are configured, you cannot convert from VTP version 3 to version 1 or 2.

Reference:

http://www.cisco.com/en/US/docs/switches/lan/catalyst3560/software/release/12.2_52_se/configuration/guide/swvtp.html#wp1316856

NEW QUESTION: 12

You have been asked to install and configure a new switch in a customer network. Use the console access to the existing and new switches to configure and verify correct device configuration.



SW1



SW1#

SW2



SW2#

New_Switch

freecram.net



New_Switch#

SW4



SW4#

Examine the VTP configuration. You are required to configure private VLANs for a new server deployment connecting to the SW4 switch. Which of the following configuration steps will allow creating private VLANs?

- A. Disable VTP pruning on SW1 only
- B. Disable VTP pruning on SW2 only
- C. Disable VTP pruning on SW4 only
- D. Disable VTP pruning on SW2, SW4 and New_Switch
- E. Disable VTP pruning on New_Switch and SW4 only.

Answer: C ([LEAVE A REPLY](#))

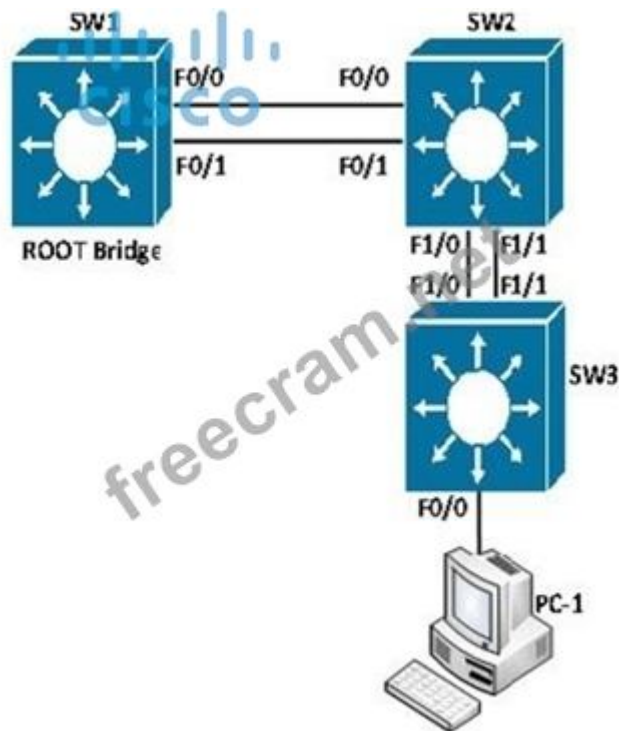
Explanation/Reference:

Explanation:

To create private VLANs, you will need to only disable pruning on the switch that contains the private VLANs. In this case, only SW4 will connect to servers in a private VLAN.

NEW QUESTION: 13

Refer to the exhibit.



f1/0 and f1/1 have the same end-to-end path cost to the designated bridge. Which action is needed to modify the Layer 2 spanning-tree network so that traffic for PC1 VLAN from switch SW3 uses switchport f1/1 as a primary port?

- A. Modify the spanning-tree port-priority on SW1 f1/1 to 0 and f1/0 to 16.
- B. Modify the spanning-tree port-priority on SW1 f1/1 to 16 and f1/0 to 0.
- C. Modify the spanning-tree port-priority on SW2 f1/1 to 0 and f1/0 to 16.
- D. Modify the spanning-tree port-priority on SW2 f1/1 to 16 and f1/0 to 0.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

If a loop occurs, STP considers port priority when selecting a LAN port to put into the forwarding state. You can assign higher priority values to LAN ports that you want STP to select first and lower priority values to LAN ports that you want STP to select last. If all LAN ports have the same priority value, STP puts the LAN port with the lowest LAN port number in the forwarding state and blocks other LAN ports. The possible priority range is 0 through 240 (default 128), configurable in increments of 16. A lower path cost represents higher-speed transmission and is preferred.

Reference:

http://www.cisco.com/en/US/docs/switches/lan/catalyst2950/software/release/12.1_9_ea1/configuration/guide/swstp.html#wp1105354

NEW QUESTION: 14

Which feature must be enabled to eliminate the broadcasting of all unknown traffic to switches that are not participating in the specific VLAN?

- A. VTP pruning
- B. port-security
- C. storm control
- D. bpdguard

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

VTP ensures that all switches in the VTP domain are aware of all VLANs. However, there are occasions when VTP can create unnecessary traffic. All unknown unicasts and broadcasts in a VLAN are flooded over the entire VLAN. All switches in the network receive all broadcasts, even in situations in which few users are connected in that VLAN. VTP pruning is a feature that you use in order to eliminate or prune this unnecessary traffic. Reference:

http://www.cisco.com/c/en/us/support/docs/lan-switching/vtp/10558-21.html#vtp_pruning

NEW QUESTION: 15

Which statement describes what happens if all VSL connections between the virtual switch members are lost?

- A. Both virtual switch members cease to forward traffic.
- B. The VSS transitions to the dual active recovery mode, and both virtual switch members continue to forward traffic independently.
- C. The virtual switch members reload.
- D. The VSS transitions to the dual active recovery mode, and only the new active virtual switch continues to forward traffic.

Answer: D (LEAVE A REPLY)

Explanation/Reference:

Explanation:

Q What happens if all VSL connections between the virtual switch members are lost? A VSLs can be configured with up to eight links between the two switches across any combination of line cards or supervisor ports to provide a high level of redundancy. If for some rare reason all VSL connections are lost between the virtual switch members leaving both the virtual switch members up, the VSS will transition to the dual active recovery mode. The dual active state is detected rapidly (subsecond) by any of the following three methods:

Enhancement to PAgP used in MEC with connecting Cisco switches

- L3 Bidirectional Forwarding Detection (BFD) configuration on a directly connected link (besides VSL)

- between virtual switch members or through an L2 link through an access layer switch L2 Fast-Hello Dual-Active Detection configuration on a directly connected link (besides VSL) between virtual switch members (supported with 12.2(33)SXI)

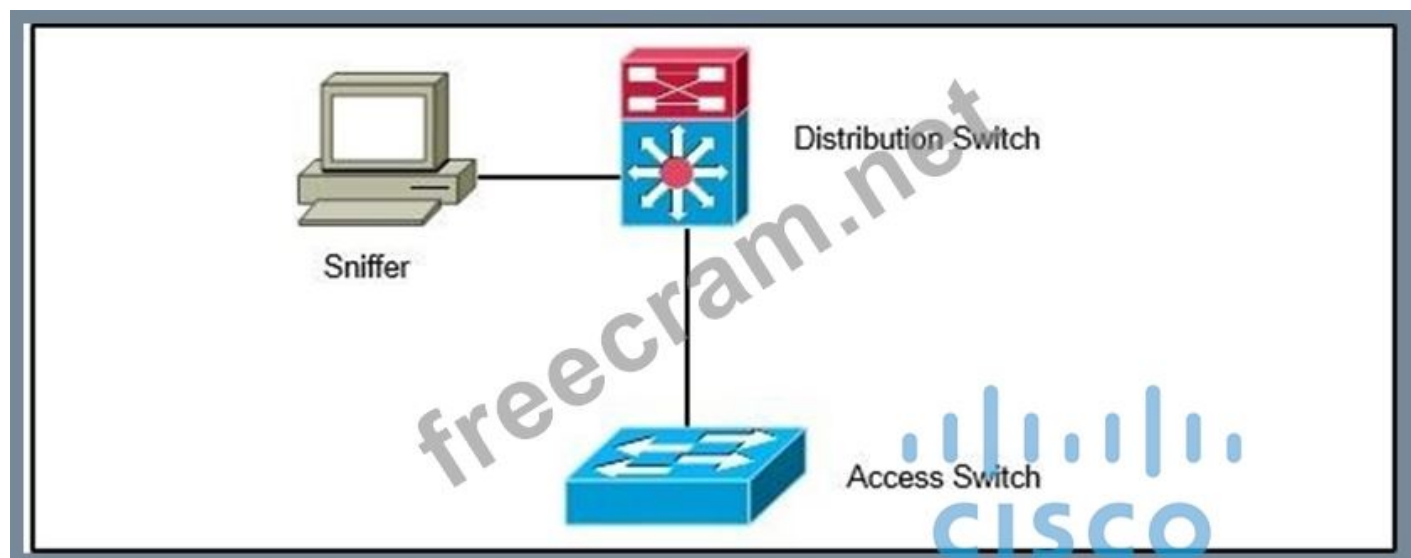
In the dual active recovery mode, all interfaces except the VSL interfaces are in an operationally shut down state in the formerly active virtual switch member. The new active virtual switch continues to forward traffic on all links.

Reference:

http://www.cisco.com/en/US/prod/collateral/switches/ps5718/ps9336/prod_qas0900aecd806ed74b.html

NEW QUESTION: 16

Refer to the exhibit.



A network engineer wants to analyze all incoming and outgoing packets for an interface that is connected to an access switch. Which three items must be configured to mirror traffic to a packet sniffer that is connected to the distribution switch? (Choose three.)

A. A monitor session on the distribution switch with a physical interface as the source and the remote SPAN VLAN as the destination

B. A remote SPAN VLAN on the distribution and access layer switch

- C. A monitor session on the access switch with a physical interface source and the remote SPAN VLAN as the destination
- D. A monitor session on the distribution switch with a remote SPAN VLAN as the source and physical interface as the destination
- E. A monitor session on the access switch with a remote SPAN VLAN source and the physical interface as the destination
- F. A monitor session on the distribution switch with a physical interface as the source and a physical interface as the destination

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

You can analyze network traffic passing through ports or VLANs by using SPAN or RSPAN to send a copy of the traffic to another port on the switch or on another switch that has been connected to a network analyzer or other monitoring or security device. SPAN copies (or mirrors) traffic received or sent (or both) on source ports or source VLANs to a destination port for analysis. RSPAN supports source ports, source VLANs, and destination ports on different switches (or different switch stacks), enabling remote monitoring of multiple switches across your network. The traffic for each RSPAN session is carried over a user-specified RSPAN VLAN that is dedicated for that RSPAN session in all participating switches. The RSPAN traffic from the source ports or VLANs is copied into the RSPAN VLAN and forwarded over trunk ports carrying the RSPAN VLAN to a destination session monitoring the RSPAN VLAN. Each RSPAN source switch must have either ports or VLANs as RSPAN sources. The destination is always a physical port Reference: http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3750x_3560x/software/release/12-2_55_se/configuration/guide/3750xscg/swspan.html

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NEW QUESTION: 17

What is required for a LAN switch to support 802.1q Q-in-Q encapsulation?

- A. Support less than 1500 MTU
- B. Support 1504 MTU or higher
- C. Support 1522 layer 3 IP and IPX packet
- D. Support 1547 MTU only

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

The default system MTU for traffic on Catalyst switches is 1500 bytes. Because the 802.1Q tunneling (Q-in-Q) feature increases the frame size by 4 bytes when the extra tag is added, you must configure all switches in the service-provider network to be able to process maximum frames by increasing the switch system MTU size to at least 1504 bytes.

Explanation:

http://www.cisco.com/en/US/docs/switches/lan/catalyst3550/software/release/12.1_13_ea1/configuration/guide/swtunnel.html

NEW QUESTION: 18

Which feature describes MAC addresses that are dynamically learned or manually configured, stored in the address table, and added to the running configuration?

- A. sticky
- B. dynamic
- C. static
- D. secure

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

With port security, you can configure MAC addresses to be sticky. These can be dynamically learned or manually configured, stored in the address table, and added to the running configuration. If these addresses are saved in the configuration file, the interface does not need to dynamically relearn them when the switch restarts. Although sticky secure addresses can be manually configured, it is not recommended.

Reference:

http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst4500/12-2/25ew/configuration/guide/conf/port_sec.pdf

NEW QUESTION: 19

Refer to the exhibit.

%GLBP-4-DUPADDR: Duplicate address

Which option describes the reason for this message in a GLBP configuration?

- A. Unavailable GLBP active forwarder
- B. Incorrect GLBP IP address
- C. HSRP configured on same interface as GLBP
- D. Layer 2 loop

Answer: D (LEAVE A REPLY)

Explanation/Reference:

Explanation:

This section provides information you can use to troubleshoot your configuration.

%GLBP-4-DUPADDR: Duplicate address

The error message indicates a possible layer2 loop and STP configuration issues. In order to resolve this issue, issue the show interface command to verify the MAC address of the interface. If the MAC address of the interface is the same as the one reported in the error message, then it indicates that this router is receiving its own hello packets sent. Verify the spanning-tree topology and check if there is any layer2 loop. If the interface MAC address is different from the one reported in the error message, then some other device with a MAC address reports this error message.

Note: GLBP members communicate between each other through hello messages sent every 3 seconds to the multicast address 224.0.0.102 and User Datagram Protocol (UDP) port 3222 (source and destination).

When configuring the multicast boundary command, permit the Multicast address by permit 224.0.0.0

15.255.255.255.

Reference:

http://www.cisco.com/en/US/products/hw/switches/ps708/products_configuration_example09186a00807d2520.shtml#dr

NEW QUESTION: 20

Which authentication service is needed to configure 802.1x?

- A. RADIUS with EAP Extension
- B. TACACS+
- C. RADIUS with CoA
- D. RADIUS using VSA

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

With 802.1x, the authentication server--performs the actual authentication of the client. The authentication server validates the identity of the client and notifies the switch whether or not the client is authorized to access the LAN and switch services. Because the switch acts as the proxy, the authentication service is transparent to the client. The Remote Authentication Dial-In User Service (RADIUS) security system with Extensible Authentication Protocol (EAP) extensions is the only supported authentication server.

Reference: http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst2940/software/release/12-1_19_ea1/configuration/guide/2940scg_1/sw8021x.pdf

NEW QUESTION: 21

What is the maximum number of switches that can be stacked using Cisco StackWise?

- A. 4
- B. 5

- C. 8
- D. 9
- E. 10
- F. 13

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

Up to 9 Cisco Catalyst switches can be stacked together to build single logical StackWise switch since Cisco IOS XE Release 3.3.0SE. Prior to Cisco IOS XE Release 3.3.0SE, up to 4 Cisco Catalyst switches could be stacked together.

Reference: http://www.cisco.com/c/en/us/products/collateral/switches/catalyst-3850-series-switches/qa_c67-722110.html

NEW QUESTION: 22

Refer to the exhibit.

```
Switch#sh int g0/12
GigabitEthernet0/23 is up, line protocol is down (monitoring)
  Hardware is C6k 1000Mb 802.3, address is 001c.f9d4.7500 (bia 001c.f9d4.7500)
  MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
    Reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Full-duplex, 1000Mb/s
```

A network engineer investigates a recent network failure and notices that one of the interfaces on the switch is still down. What is causing the line protocol on this interface to be shown as down?

- A. There is a layer 1 physical issue.
- B. There is a speed mismatch on the interface.
- C. The interface is configured as the target of the SPAN session.
- D. The interface is configured as the source of the SPAN session.
- E. There is a duplex mismatch on the interface.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

With the SPAN destination port, the state of the destination port is up/down by design. The interface shows the port in this state in order to make it evident that the port is currently not usable as a production port.

This is the normal operational state for SPAN destinations.

Reference:

http://www.cisco.com/en/US/products/hw/switches/ps708/products_tech_note09186a008015c612.shtml

NEW QUESTION: 23

What is the default value for the errdisable recovery interval in a Cisco switch?

- A. 30 seconds
- B. 100 seconds
- C. 300 seconds
- D. 600 seconds

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

After you fix the root problem, the ports are still disabled if you have not configured errdisable recovery on the switch. In this case, you must reenable the ports manually. Issue the shutdown command and then the no shutdown interface mode command on the associated interface in order to manually reenable the ports.

The errdisable recovery command allows you to choose the type of errors that automatically reenable the ports after a specified amount of time. The show errdisable recovery command shows the default error- disable recovery state for all the possible conditions.

```
cat6knative#show errdisable recovery
```

```
ErrDisable Reason Timer Status
```

```
-----
```

```
udld Disabled
bpduguard Disabled
security-violatio Disabled
channel-misconfig Disabled
pagp-flap Disabled
dtp-flap Disabled
link-flap Disabled
l2ptguard Disabled
psecure-violation Disabled
gbic-invalid Disabled
dhcp-rate-limit Disabled
mac-limit Disabled
unicast-flood Disabled
arp-inspection Disabled
```

```
Timer interval: 300 seconds
```

Interfaces that will be enabled at the next timeout:

Note: The default timeout interval is 300 seconds and, by default, the timeout feature is disabled.

Reference:

http://www.cisco.com/en/US/tech/tk389/tk621/technologies_tech_note09186a00806cd87b.shtml

NEW QUESTION: 24

After UDLD is implemented, a Network Administrator noticed that one port stops receiving UDLD packets.

This port continues to reestablish until after eight failed retries. The port then transitions into the errdisable state. Which option describes what causes the port to go into the errdisable state?

- A. Normal UDLD operations that prevent traffic loops.
- B. UDLD port is configured in aggressive mode.
- C. UDLD is enabled globally.
- D. UDLD timers are inconsistent.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

With UDLD aggressive mode enabled, when a port on a bidirectional link that has a UDLD neighbor relationship established stops receiving UDLD packets, UDLD tries to reestablish the connection with the neighbor. After eight failed retries, the port is disabled. Reference:

<http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst6500/ios/12-2SX/configuration/guide/book/udld.html>

NEW QUESTION: 25

What effect does the mac address-table aging-time 180 command have on the MAC address-table?

- A. This is how long a dynamic MAC address will remain in the CAM table.
- B. The MAC address-table will be flushed every 3 minutes.
- C. The default timeout period will be 360 seconds.
- D. ARP requests will be processed less frequently by the switch.
- E. The MAC address-table will hold addresses 180 seconds longer than the default of 10 minutes.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

You can configure the amount of time that an entry (the packet source MAC address and port that packet ingresses) remain in the MAC table.

To configure the aging time for all MAC addresses, perform this task:

Command Purpose

Step 1 switch# configure Enters configuration mode.

terminal

Step 2 switch(config)# mac- Specifies the time before an entry ages out address-table aging- and is discarded from the MAC address table. time seconds [vlan The range is from 0 to 1000000; the default is vlan_id] 300 seconds. Entering the value 0 disables the MAC aging. If a VLAN is not specified, the

aging specification applies to all VLANs.

This example shows how to set the aging time for entries in the MAC address table to 600 seconds (10 minutes):

switch# configure terminal

switch(config)# mac-address-table aging-time 600

Reference:

<http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/configuration/guide/cli/CLIConfigurationGuide/MACAddress.html#wp1126206>

NEW QUESTION: 26

When IP Source Guard with source IP filtering is enabled on an interface, which feature must be enabled on the access VLAN for that interface?

- A. DHCP snooping
- B. storm control
- C. spanning-tree portfast
- D. private VLAN

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

IP Source Guard Configuration Guidelines

You can configure static IP bindings only on nonrouted ports. If you enter the ip source binding mac-

address vlan vlan-id ip-address interface interface-id global configuration command on a routed interface, this error message appears:

Static IP source binding can only be configured on switch port.

When IP source guard with source IP filtering is enabled on an interface, DHCP snooping must be enabled on the access VLAN for that interface.

If you are enabling IP source guard on a trunk interface with multiple VLANs and DHCP snooping is

enabled on all the VLANs, the source IP address filter is applied on all the VLANs.

You can enable this feature when 802.1x port-based authentication is enabled. Reference: http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst2960x/software/15-0_2_EX/security/configuration_guide/b_sec_152ex_2960-x_cg/b_sec_152ex_2960-x_cg_chapter_01110.html

NEW QUESTION: 27

A network engineer configured an Ethernet switch using these commands.

Switchone(config) # Spanning-tree portfast bpdupfilter default Which statement about the spanning-tree portfast feature on the switch is true?

- A. If an interface is enabled for portfast receives BPDU, the port goes through the spanning-tree listening, learning, and forwarding states.
- B. If an interface is enabled for portfast receives BPDU, the port does not go through the spanning-tree listening, learning, and forwarding states.

- C. If an interface is enabled for portfast receives BPDU, the port is shut down immediately.
- D. If an interface is enabled for portfast receives BPDU, the port goes into the spanning-tree inconsistent state.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

STP PortFast causes a Layer 2 LAN interface configured as an access port to enter the forwarding state immediately, bypassing the listening and learning states. However, the "Spanning-tree portfast bpdupfilter default" command specifies that if a BPDU is received on that port, then the default action of STP of listening, learning, and forwarding states should be used.

NEW QUESTION: 28

Which portion of AAA looks at what a user has access to?

- A. authorization
- B. authentication
- C. accounting
- D. auditing

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

AAA consists of the following three elements:

Authentication: Identifies users by login and password using challenge and response methodology before the user even gains access to the network. Depending on your security options, it can also support encryption. Authorization: After initial authentication, authorization looks at what that authenticated user has access to do. RADIUS or TACACS+ security servers perform authorization for specific privileges by defining attribute-value (AV) pairs, which would be specific to the individual user rights. In the Cisco IOS, you can define AAA authorization with a named list or authorization method.

Accounting: The last "A" is for accounting. It provides a way of collecting security information that you

can use for billing, auditing, and reporting. You can use accounting to see what users do once they are authenticated and authorized. For example, with accounting, you could get a log of when users logged in and when they logged out.

Reference: <http://www.techrepublic.com/blog/data-center/what-is-aaa-and-how-do-you-configure-it-in-the-cisco-ios/>

NEW QUESTION: 29

A network engineer configures port security and 802.1x on the same interface. Which option describes what this configuration allows?

- A. It allows port security to secure the MAC address that 802.1x authenticates.

- B.** It allows port security to secure the IP address that 802.1x authenticates.
- C.** It allows 802.1x to secure the MAC address that port security authenticates.
- D.** It allows 802.1x to secure the IP address that port security authenticates.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

802.1X and Port Security

You can configure port security and 802.1X on the same interfaces. Port security secures the MAC addresses that 802.1X authenticates. 802.1X processes packets before port security processes them, so when you enable both on an interface, 802.1X is already preventing inbound traffic on the interface from unknown MAC addresses.

Reference: http://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/4_1/nx-os/security/configuration/guide/sec_nx-os-cfg/sec_portsec.html

NEW QUESTION: 30

Scenario:

You work for SWITCH.com. They have just added a new switch (SwitchB) to the existing network as shown in the topology diagram.

RouterA is currently configured correctly and is providing the routing function for devices on SwitchA and SwitchB. SwitchA is currently configured correctly, but will need to be modified to support the addition of SwitchB. SwitchB has a minimal configuration. You have been tasked with completing the needed configuring of SwitchA and SwitchB. SwitchA and SwitchB use Cisco as the enable password.

Configuration Requirements for SwitchA

The VTP and STP configuration modes on SwitchA should not be modified.

- * SwitchA needs to be the root switch for vlans 11, 12, 13, 21, 22 and 23. All other vlans should be left at their default values.

Configuration Requirements for SwitchB

- * Vlan 21

- o Name: Marketing

- o will support two servers attached to fa0/9 and fa0/10

- * Vlan 22

- o Name: Sales

- o will support two servers attached to fa0/13 and fa0/14

- * Vlan 23

- o Name: Engineering

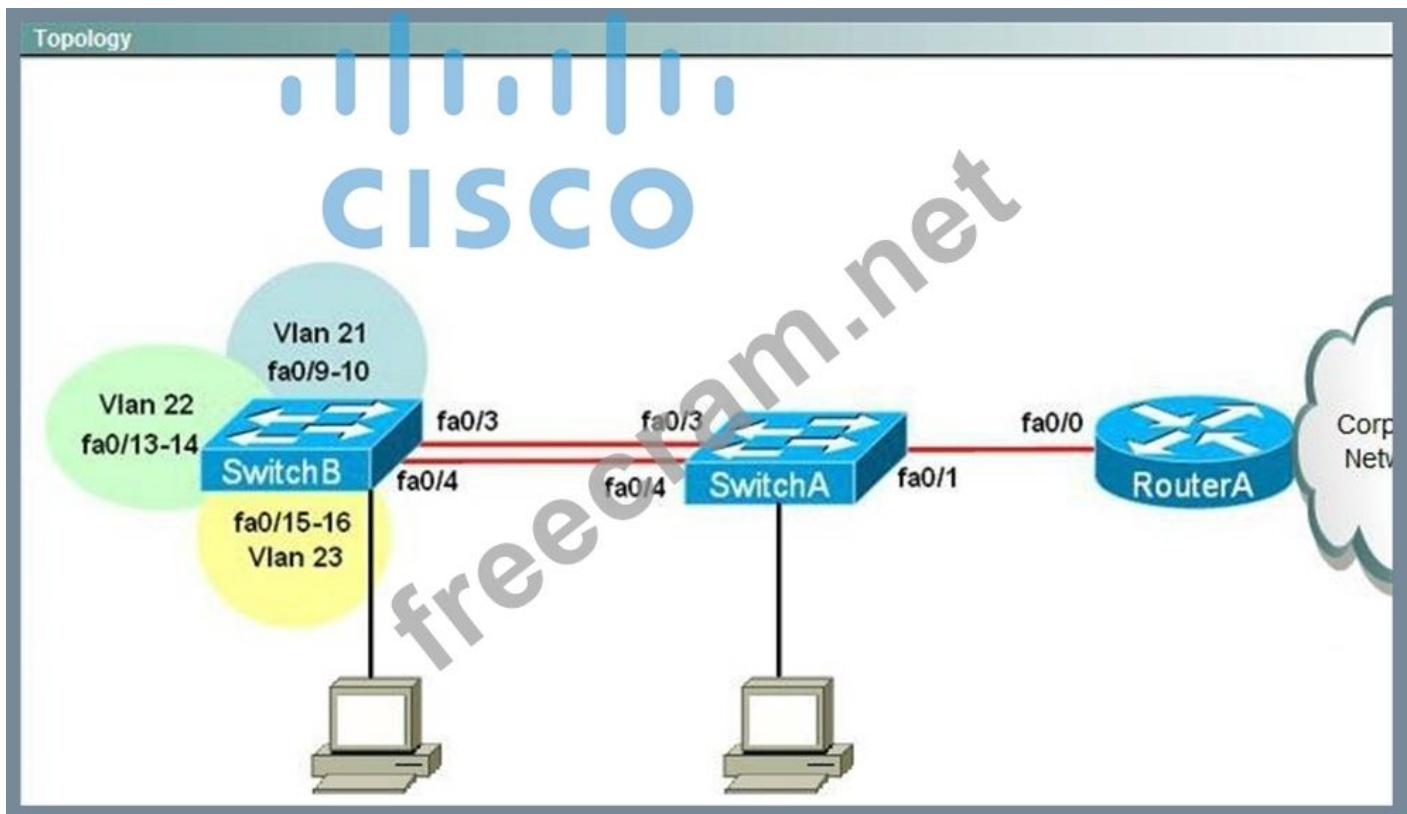
- o will support two servers attached to fa0/15 and fa0/16

- * Access ports that connect to server should transition immediately to forwarding state upon detecting the connection of a device.

- * SwitchB VTP mode needs to be the same as SwitchA.

- * SwitchB must operate in the same spanning tree mode as SwitchA

- * No routing is to be configured on SwitchB
- * Only the SVI vlan 1 is to be configured and it is to use address 192.168.1.11/24 Inter-switch Connectivity Configuration Requirements
- * For operational and security reasons trunking should be unconditional and Vlan 1, 21, 22 and 23 should tagged when traversing the trunk link.
- * The two trunks between SwitchA and SwitchB need to be configured in a mode that allows for the maximum use of their bandwidth for all vlans. This mode should be done with a non-proprietary protocol, with SwitchA controlling activation.
- * Propagation of unnecessary broadcasts should be limited using manual pruning on this trunk link.



Answer:

Here are steps:

Explanation/Reference:

```
hostname SWITCH_B
```

```
!
```

```
!
```

```
vlan 21
```

```
name Marketing
```

```
vlan 22
```

```
name Sales
```

```
vlan 23
```

```
name Engineering
```

```
!
```

```
!
```

```
interface FastEthernet0/3
switchport trunk allowed vlan 1,21-23
channel-protocol lacp
channel-group 1 mode passive
switchport mode trunk
!
interface FastEthernet0/4
switchport trunk allowed vlan 1,21-23
channel-protocol lacp
channel-group 1 mode passive
switchport mode trunk
!
interface FastEthernet0/9
switchport access vlan 21
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/10
switchport access vlan 21
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/13
switchport access vlan 22
switchport mode access
spanning-tree portfast
!
!
interface FastEthernet0/14
switchport access vlan 22
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/15
switchport access vlan 23
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/16
switchport access vlan 23
switchport mode access
```

```
spanning-tree portfast
!
!
interface GigabitEthernet1/1
!
interface GigabitEthernet1/2
!
interface Port-channel 1
switchport mode trunk
switchport trunk encapsulation dot1q
spanning-tree allowed vlans 1,21-23
!
interface Vlan1
ip address 192.168.1.11 255.255.255.0
!
end
SWITCH_B(config)#
hostname SWITCH_A
!
spanning-tree vlan 11 root primary
spanning-tree vlan 12 root primary
spanning-tree vlan 13 root primary
spanning-tree vlan 21 root primary
spanning-tree vlan 22 root primary
spanning-tree vlan 23 root primary
!
interface FastEthernet0/3
switchport trunk allowed vlan 1,21-23
channel-protocol lacp
channel-group 1 mode active
switchport mode trunk
!
interface FastEthernet0/4
switchport trunk allowed vlan 1,21-23
channel-protocol lacp
channel-group 1 mode active
switchport mode trunk
!
interface FastEthernet0/21
switchport access vlan 21
switchport mode access
```

```
!  
interface FastEthernet0/22  
switchport access vlan 22  
switchport mode access  
!  
interface FastEthernet0/23  
switchport access vlan 23  
switchport mode access  
!  
interface GigabitEthernet1/1  
!  
interface GigabitEthernet1/2  
!  
interface Port-channel 1  
!  
interface Vlan1  
no ip address  
shutdown  
!  
ip default-gateway 192.168.1.1  
!  
!  
End
```

NEW QUESTION: 31

A Cisco Catalyst switch that is prone to reboots continues to rebuild the DHCP snooping database. What is the solution to avoid the snooping database from being rebuilt after every device reboot?

- A. A DHCP snooping database agent should be configured.
- B. Enable DHCP snooping for all VLANs that are associated with the switch.
- C. Disable Option 82 for DHCP data insertion.
- D. Use IP Source Guard to protect the DHCP binding table entries from being lost upon rebooting.
- E. Apply ip dhcp snooping trust on all interfaces with dynamic addresses.

Answer: A ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

Minimum DHCP Snooping Configuration

The minimum configuration steps for the DHCP snooping feature are as follows:

1. Define and configure the DHCP server.
2. Enable DHCP snooping on at least one VLAN.

By default, DHCP snooping is inactive on all VLANs.

3. Ensure that DHCP server is connected through a trusted interface. By default, the trust state of all interfaces is untrusted.

4. Configure the DHCP snooping database agent.

This step ensures that database entries are restored after a restart or switchover.

5. Enable DHCP snooping globally.

The feature is not active until you complete this step.

Reference:

<http://www.cisco.com/en/US/docs/switches/lan/catalyst6500/ios/12.2SX/configuration/guide/snoodhcp.html#wp1090479>

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NEW QUESTION: 32

When you configure a private VLAN, which type of port must you configure the gateway router port as?

- A. promiscuous port
- B. isolated port
- C. community port
- D. access port

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

There are mainly two types of ports in a Private VLAN: Promiscuous port (P-Port) and Host port.

Host

port further divides in two types Isolated port (I-Port) and Community port (C-port). Promiscuous port (P-Port): The switch port connects to a router, firewall or other common gateway device. This port can communicate with anything else connected to the primary or any secondary VLAN. In other words, it is a type of a port that is allowed to send and receive frames from any other port on the VLAN.

Host Ports:

- o Isolated Port (I-Port): Connects to the regular host that resides on isolated VLAN. This port communicates only with P-Ports.

o Community Port (C-Port): Connects to the regular host that resides on community VLAN. This port communicates with P-Ports and ports on the same community VLAN.

Reference: http://en.wikipedia.org/wiki/Private_VLAN

NEW QUESTION: 33

Which gateway role is responsible for answering ARP requests for the virtual IP address in GLBP?

- A. active virtual forwarder
- B. active virtual router
- C. active virtual gateway
- D. designated router

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

GLBP Active Virtual Gateway

Members of a GLBP group elect one gateway to be the active virtual gateway (AVG) for that group. Other group members provide backup for the AVG in the event that the AVG becomes unavailable. The AVG assigns a virtual MAC address to each member of the GLBP group. Each gateway assumes responsibility for forwarding packets sent to the virtual MAC address assigned to it by the AVG. These gateways are known as active virtual forwarders (AVFs) for their virtual MAC address.

The AVG is responsible for answering Address Resolution Protocol (ARP) requests for the virtual IP address. Load sharing is achieved by the AVG replying to the ARP requests with different virtual MAC addresses.

Reference: http://www.cisco.com/en/US/docs/ios/12_2t/12_2t15/feature/guide/ft_glbp.html

NEW QUESTION: 34

Which VTP mode is needed to configure an extended VLAN, when a switch is configured to use VTP versions 1 or 2?

- A. transparent
- B. client
- C. server
- D. Extended VLANs are only supported in version 3 and not in versions 1 or 2.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

VTP version 1 and version 2 support VLANs 1 to 1000 only. Extended-range VLANs are supported only in VTP version 3. If converting from VTP version 3 to VTP version 2, VLANs in the range 1006 to 4094 are removed from VTP control.

Reference:

<http://www.cisco.com/en/US/docs/switches/lan/catalyst6500/ios/12.2SX/configuration/guide/vtp.html>

NEW QUESTION: 35

An EtherChannel bundle has been established between a Cisco switch and a corporate web server. The network administrator noticed that only one of the EtherChannel links is being utilized to reach the web server. What should be done on the Cisco switch to allow for better EtherChannel utilization to the corporate web server?

- A. Enable Cisco Express Forwarding to allow for more effective traffic sharing over the EtherChannel bundle.
- B. Adjust the EtherChannel load-balancing method based on destination IP addresses.
- C. Disable spanning tree on all interfaces that are participating in the EtherChannel bundle.
- D. Use link-state tracking to allow for improved load balancing of traffic upon link failure to the server.
- E. Adjust the EtherChannel load-balancing method based on source IP addresses.

Answer: (SHOW ANSWER)

Explanation/Reference:

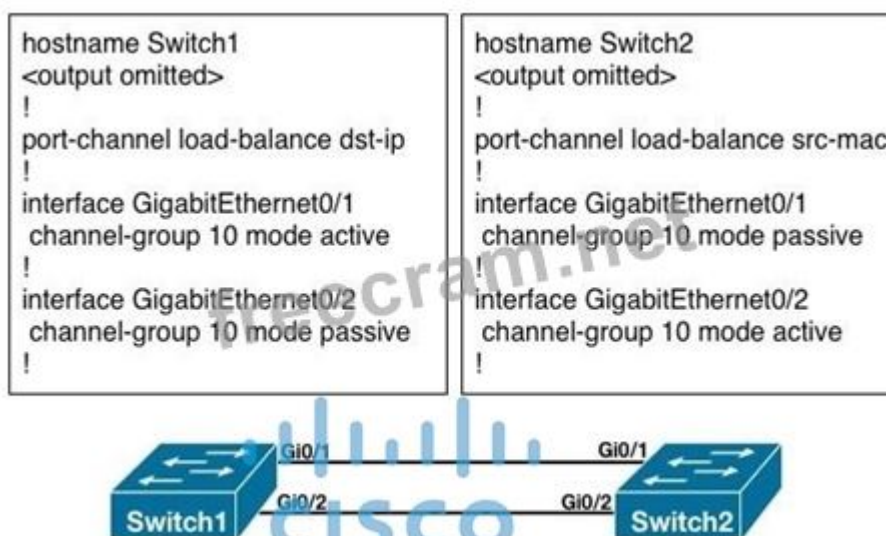
Explanation:

EtherChannel load balancing can use MAC addresses, IP addresses, or Layer 4 port numbers, and either source mode, destination mode, or both. The mode you select applies to all EtherChannels that you configure on the switch. Use the option that provides the greatest variety in your configuration. For example, if the traffic on a channel only goes to a single MAC address (which is the case in this example, since all traffic is going to the same web server), use of the destination MAC address results in the choice of the same link in the channel each time. Use of source addresses or IP addresses can result in a better load balance. Reference:

<http://www.cisco.com/c/en/us/support/docs/lan-switching/etherchannel/12023-4.html>

NEW QUESTION: 36

Refer to the exhibit.



What is the result of the configuration?

- A.** The EtherChannels would not form because the load-balancing method must match on the devices.
- B.** The EtherChannels would form and function properly even though the load-balancing and EtherChannel modes do not match.
- C.** The EtherChannels would form, but network loops would occur because the load-balancing methods do not match.
- D.** The EtherChannels would form and both devices would use the dst-ip load-balancing method because Switch1 is configured with EtherChannel mode active.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

An etherchannel will form if one end is active and the other is passive. The table below summarizes the results for LACP channel establishment based on the configuration of each side of a link:

LACP Channel Establishment

S1 S2 Established?

On On Yes

Active/Passive Active Yes

On/Active/Passive Not Configured No

On Active No

Passive/On Passive No

Load balancing can only be configured globally. As a result, all channels (manually configured, PagP, or LACP) use the same load-balancing. This is true for the switch globally, although each switch involved in the etherchannel can have non matching parameters for load balancing.

Reference: <http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst4500/12-2/54sg/configuration/guide/config/channel.html#wp1020804>

NEW QUESTION: 37

The network manager has requested that several new VLANs (VLAN 10, 20, and 30) are allowed to traverse the switch trunk interface. After the command `switchport trunk allowed vlan 10,20,30` is issued, all other existing VLANs no longer pass traffic over the trunk. What is the root cause of the problem?

- A.** The command effectively removed all other working VLANs and replaced them with the new VLANs.
- B.** VTP pruning removed all unused VLANs.
- C.** ISL was unable to encapsulate more than the already permitted VLANs across the trunk.
- D.** Allowing additional VLANs across the trunk introduced a loop in the network.

Answer: **A** ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

The "switchport trunk allowed vlan" command will only allow the specified VLANs, and overwrite any others that were previously defined. You would also need to explicitly allow the other working VLANs to this configuration command, or use the "issue the switchport trunk allowed vlan add vlan-list" command instead to add these 3 VLANs to the other defined allowed VLANs.

Reference: <https://supportforums.cisco.com/document/11836/how-define-vlans-allowed-trunk-link>

NEW QUESTION: 38

Which command configures an HSRP group to become a slave of another HSRP group?

- A. standby slave
- B. standby group track
- C. standby follow
- D. standby group backup

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

Perform this task to configure multiple HSRP client groups. The "standby follow" command configures an HSRP group to become a slave of another HSRP group.

HSRP client groups follow the master HSRP with a slight, random delay so that all client groups do not change at the same time.

Reference: http://www.cisco.com/en/US/docs/ios-xml/ios/ipapp_fhrp/configuration/15-mt/fhp-hsrp-mgo.html

NEW QUESTION: 39

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.

Answer: (SHOW ANSWER)

Explanation/Reference:

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 man-in-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

NEW QUESTION: 40

Which feature is automatically enabled when a voice VLAN is configured, but not automatically disabled when a voice VLAN is removed?

- A. portfast
- B. port-security
- C. spanning tree
- D. storm control

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

Voice VLAN Configuration Guidelines

You should configure voice VLAN on switch access ports.

- The voice VLAN should be present and active on the switch for the IP phone to correctly communicate

- on the voice VLAN. Use the show vlan privileged EXEC command to see if the VLAN is present (listed in the display).

The Port Fast feature is automatically enabled when voice VLAN is configured. When you disable voice

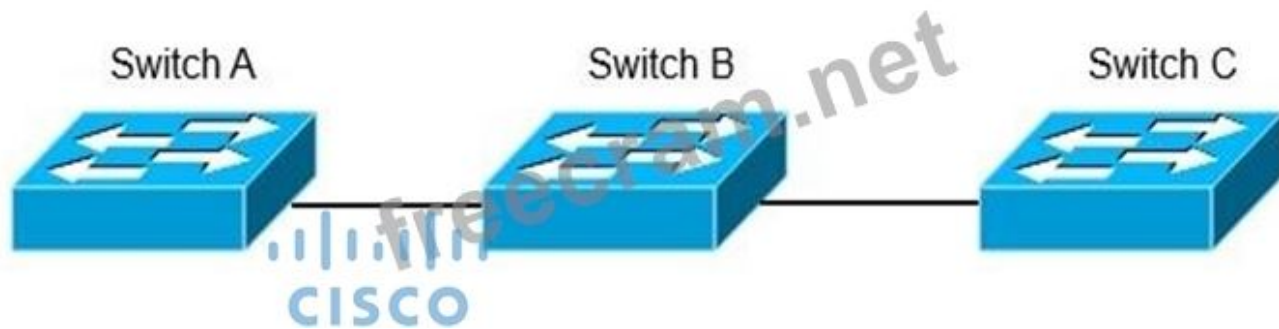
- VLAN, the Port Fast feature is not automatically disabled.

Reference:

http://www.cisco.com/en/US/docs/switches/lan/catalyst2950/software/release/12.1_22_ea11x/configuration/guide/swvoip.html

NEW QUESTION: 41

Refer to the exhibit.



Switch A, B, and C are trunked together and have been properly configured for VTP. Switch B has all VLANs, but Switch C is not receiving traffic from certain VLANs. What would cause this issue?

- A. A VTP authentication mismatch occurred between Switch A and Switch B.
- B. The VTP revision number of Switch B is higher than that of Switch A.
- C. VTP pruning is configured globally on all switches and it removed VLANs from the trunk interface that is connected to Switch C.
- D. The trunk between Switch A and Switch B is misconfigured.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

VTP pruning increases network available bandwidth by restricting flooded traffic to those trunk links that the traffic must use to reach the destination devices. Without VTP pruning, a switch floods broadcast, multicast, and unknown unicast traffic across all trunk links within a VTP domain even though receiving switches might discard them. VTP pruning is disabled by default. VTP pruning blocks unneeded flooded traffic to VLANs on trunk ports that are included in the pruning-eligible list. The best explanation for why switch C is not seeing traffic from only some of the VLANs, is that VTP pruning has been configured.

NEW QUESTION: 42

After reviewing UDLD status on switch ports, an engineer notices that the "unknown" status is present. Which statement describes what this indicates about the status of the port?

- A. The port is fully operational and no known issues are detected.
- B. The bidirectional status of "unknown" indicates that the port will go into the disabled state because it stopped receiving UDLD packets from its neighbor.
- C. UDLD moved into aggressive mode after inconsistent acknowledgements were detected.
- D. The UDLD port is placed in the "unknown" state for 5 seconds until the next UDLD packet is received on the interface.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

By default, UDLD is disabled on all interfaces. We can enable UDLD globally on the device, or individually on specific interfaces with the command `udld port`. This enables UDLD in normal mode.

It would be prohibitively difficult to coordinate the configuration of UDLD on both ends of a link at the same time, so when UDLD is first enabled and does not detect a neighbor the link state is considered unknown, which is not necessarily an error condition. The port will remain operational during this time. When UDLD is finally enabled on the other end, the status will transition to bidirectional.

Reference: <http://packetlife.net/blog/2011/mar/7/udld/>

NEW QUESTION: 43

Which statement describes what happens when a switch enters dual active recovery mode?

- A.** The switch shuts down and waits for the VSL link to be restored before sending traffic.
- B.** All interfaces are shut down in the formerly active virtual switch member, but the new active virtual switch forwards traffic on all links.
- C.** The switch continues to forward traffic out all links and enables spanning tree on VSL link and all other links to prevent loops.
- D.** The VSS detects which system was last in active state and shuts down the other switch.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

In the dual active recovery mode, all interfaces except the VSL interfaces are in an operationally shut down state in the formerly active virtual switch member. The new active virtual switch continues to forward traffic on all links.

Reference:

http://www.cisco.com/en/US/prod/collateral/switches/ps5718/ps9336/prod_qas0900aecd806ed74b.html

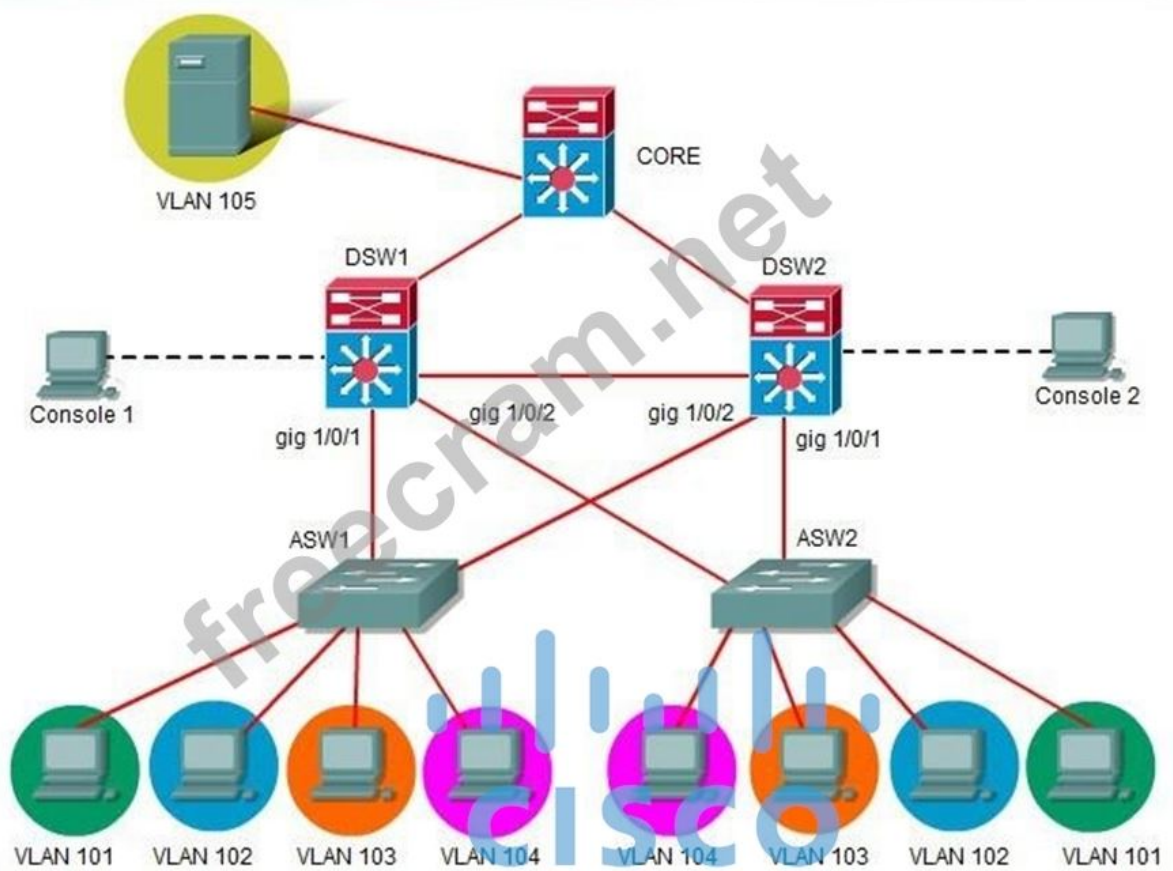
NEW QUESTION: 44

Ferris Plastics, Inc. is a medium sized company, with an enterprise network (access, distribution and core switches) that provides LAN connectivity from user PCs to corporate servers. The distribution switches are configured to use HSRP to provide a high availability solution.

DSW1 -primary device for VLAN 101 VLAN 102 and VLAN 105

DSW2 - primary device for VLAN 103 and VLAN 104

A failure of GigabitEthernet1/0/1 on primary device should cause the primary device to release its status as the primary device, unless GigabitEthernet1/0/1 on backup device has also failed. Troubleshooting has identified several issues. Currently all interfaces are up. Using the running configurations and show commands, you have been asked to investigate and respond to the following question.





If GigabitEthernet1/0/1 on DSW2 is shutdown, what will be the resulting priority value of the VLAN 105 HSRP group on router DSW2?

- A. 90
- B. 100
- C. 150
- D. 200

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation

As seen below, the current priority for VLAN 105 is 100, and the tracking feature for Gig 1/0/0 is enabled which will decrement the priority by 10 if this interface goes down for a priority value of 90.

```
Vlan105 - Group 5
  State is Standby
    10 state changes, last state change 02:54:51
  Virtual IP address is 192.168.105.254
  Active virtual MAC address is 0000.0c07.ac05
    Local virtual MAC address is 0000.0c07.ac05 (v1 default)
  Hello time 3 sec, hold time 10 sec
    Next hello sent in 1.516 secs
  Preemption enabled
  Active router is 192.168.105.1, priority 150 (expires in 10.000 sec)
  Standby router is local
  Priority 100 (default 100)
    Track interface GigabitEthernet1/0/1 state Up decrement priority 10
  IP redundancy name is "hsrp-Vl105-5" (default)
```

DSW2#

NEW QUESTION: 45

Refer to the exhibit.

```

SW1#show spanning-tree vlan 1
VLAN0001
Spanning tree enabled protocol ieee
Root ID Priority 1
Address 001b.bbbb.dddd
This bridge is the root
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID Priority 1 (priority 0 sys-id-ext 1)
Address 001b.bbbb.dddd

Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Aging Time 300

```

Interface	Role	Sts	Cost	Prio.Nbr	Type
Fa0/1	Desg	FWD	19	128.15	P2p
Fa0/2	Desg	FWD	19	128.16	P2p
Fa0/3	Desg	FWD	19	128.17	P2p
Fa0/4	Desg	FWD	19	128.18	P2p
Fa0/5	Desg	FWD	19	128.19	P2p
Fa0/6	Desg	FWD	19	128.19	P2p

Why would the switch be considered as a root bridge?

- A. The bridge priority is 1 and all ports are forwarding.
- B. The switch priority for VLAN 1 and the macro specifies "This Bridge is the root".
- C. The bridge priority is 128.19 and all ports are forwarding.
- D. The switch priority value is zero, it has the lowest priority value for VLAN 1.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

For priority, the range is 0 to 61440 in increments of 4096; the default is 32768. The lower the number, the more likely the switch will be chosen as the root switch.

Reference:

http://www.cisco.com/en/US/docs/switches/lan/catalyst2950/software/release/12.1_9_ea1/configuration/guide/swstp.html#wp1020666

NEW QUESTION: 46

Refer to the exhibit.

```
username cisco password cisco
!
aaa new-model
radius-server host 10.1.1.50 auth-port 1812 key C1sc0123
aaa authentication login default group radius local line
aaa authentication logging NO_AUTH none
!
line vty 0 15
login authentication default
password linepass
line console 0
login authentication NO_AUTH
```

Which login credentials are required when connecting to the console port in this output?

- A. none required
- B. username cisco with password cisco
- C. no username with password linepass
- D. login authentication default

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

Here the console has been configured with the NO_AUTH name, which lists none as the authentication method. None means no authentication, meaning that credentials are not required and all sessions are allowed access immediately.

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NEW QUESTION: 47

For security reasons, the IT manager has prohibited users from dynamically establishing trunks with their associated upstream switch. Which two actions can prevent interface trunking? (Choose two.)

- A. Configure trunk and access interfaces manually.
- B. Disable DTP on a per interface basis.
- C. Apply BPDU guard and BPDU filter.
- D. Enable switchport block on access ports.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

The Dynamic Trunking Protocol (DTP) is used to negotiate forming a trunk between two Cisco devices.

DTP causes increased traffic, and is enabled by default, but may be disabled. To disable DTP, configure

"switchport nonegotiate." This prevents the interface from generating DTP frames. You can use this command only when the interface switchport mode is access or trunk. You must manually configure the neighboring interface as a trunk interface to establish a trunk link, otherwise the link will be a non-trunking link.

Reference: <http://www.ciscopress.com/articles/article.asp?p=2181837&seqNum=8>

NEW QUESTION: 48

After an EtherChannel is configured between two Cisco switches, interface port channel 1 is in the down/ down state. Switch A is configured with channel-group 1 mode active, while Switch B is configured with channel-group 1 mode desirable. Why is the EtherChannel bundle not working?

- A. The switches are using mismatched EtherChannel negotiation modes.
- B. The switch ports are not configured in trunking mode.
- C. LACP priority must be configured on both switches.
- D. The channel group identifier must be different for Switch A and Switch B.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

Here we have a situation where one switch is using active mode, which is an LACP mode, and the other is using desirable, which is a PAGP mode. You can not mix the LACP and PAGP protocols to form an etherchannel. Here is a summary of the various etherchannel modes:

EtherChannel PAgP Modes

Mode Description

auto Places a port into a passive negotiating state, in which the port responds to PAgP packets it receives but does not start PAgP packet negotiation. This setting minimizes the transmission of PAgP packets.

This mode is not supported when the EtherChannel members are from different switches in the switch stack (cross-stack EtherChannel).

desirable Places a port into an active negotiating state, in which the port starts negotiations with other ports by sending PAgP packets.

This mode is not supported when the EtherChannel members are from different switches in the switch stack (cross-stack EtherChannel).

EtherChannel LACP Modes

Mode Description

active Places a port into an active negotiating state in which the port starts negotiations with other ports by sending LACP packets.

passive Places a port into a passive negotiating state in which the port responds to LACP packets that it receives, but does not start LACP packet negotiation. This setting minimizes the transmission of LACP packets.

Reference: http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst2960/software/release/12-2_55_se/configuration/guide/scg_2960/swethchl.html

NEW QUESTION: 49

Refer to the exhibit.

```
Company A# show vtp status
VTP Version                : 2
Configuration Revision      : 0
Maximum VLANs supported locally: 1005
Number of existing VLANs    : 9
VTP Operating Mode          : Server
VTP Domain Name             : company
VTP Pruning Mode            : Disabled
VTP V2 Mode                 : Disabled
VTP Traps Generation        : Disabled

Company B# show vtp status
VTP Version                : 2
Configuration Revision      : 2
Maximum VLANs supported locally: 1005
Number of existing VLANs    : 42
VTP Operating Mode          : Server
VTP Domain Name             : company
VTP Pruning Mode            : Disabled
VTP V2 Mode                 : Disabled
VTP Traps Generation        : Disable
```

The network switches for two companies have been connected and manually configured for the required VLANs, but users in company A are not able to access network resources in company B when DTP is enabled. Which action resolves this problem?

- A. Delete vlan.dat and ensure that the switch with lowest MAC address is the VTP server.
- B. Disable DTP and document the VTP domain mismatch.
- C. Manually force trunking with switchport mode trunk on both switches.
- D. Enable the company B switch with the vtp mode server command.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

Since the number of existing VLANs differ on the switches (9 on A and 42 on B) we know that there is a problem with VTP or the trunking interfaces. The VTP domain names do match and they are both VTP servers so there are no issues there. The only viable solution is that there is a DTP issues and so you must instead manually configure the trunk ports between these two switches so that the VLAN information can be sent to each switch.

NEW QUESTION: 50

Refer to the exhibit.

```
3512xl(config)#int fastEthernet 0/1
3512xl(config-if)#switchport mode trunk
3512xl(config-if)#switchport trunk encapsulation dot1q
```

How many bytes are added to each frame as a result of the configuration?

- A. 4-bytes except the native VLAN
- B. 8-bytes except the native VLAN
- C. 4-bytes including native VLAN
- D. 8-bytes including native VLAN

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

In 802.1Q trunking, all VLAN packets are tagged on the trunk link, except the native VLAN. A VLAN tag adds 4 bytes to the frame. Two bytes are used for the tag protocol identifier (TPID), the other two bytes for tag control information (TCI).

NEW QUESTION: 51

A network engineer wants to ensure Layer 2 isolation of customer traffic using a private VLAN. Which configuration must be made before the private VLAN is configured?

- A. Disable VTP and manually assign VLANs.
- B. Ensure all switches are configured as VTP server mode.
- C. Configure VTP Transparent Mode.
- D. Enable VTP version 3.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

You must configure VTP to transparent mode before you can create a private VLAN. Private VLANs are configured in the context of a single switch and cannot have members on other switches. Private VLANs also carry TLVs that are not known to all types of Cisco switches.

Reference: <http://www.ciscopress.com/articles/article.asp?p=29803&seqNum=6>

NEW QUESTION: 52

A network engineer configured a fault-tolerance link on Gigabit Ethernet links G0/1, G0/2, G0/3, and G0/4 between two switches using Ethernet port-channel. Which action allows interface G0/1 to always actively forward traffic in the port-channel?

- A. Configure G0/1 as half duplex and G0/2 as full duplex.
- B. Configure LACP port-priority on G0/1 to 1.
- C. Configure LACP port-priority on G0/1 to 65535.
- D. LACP traffic goes through G0/4 because it is the highest interface ID.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

A LACP port priority is configured on each port using LACP. The port priority can be configured automatically or through the CLI. LACP uses the port priority with the port number to form the port identifier. The port priority determines which ports should be put in standby mode when there is a hardware limitation that prevents all compatible ports from aggregating. The higher the number, the lower the priority.

The valid range is from 1 to 65535. The default is 32768.

Reference:

http://www.cisco.com/c/en/us/td/docs/ios/12_2sb/feature/guide/gigeth.html#wp1081491

NEW QUESTION: 53

For client server failover purposes, the application server team has indicated that they must not have the standard 30 second delay before their switchport enters a forwarding state. For their disaster recovery feature to operate successfully, they require the switchport to enter a forwarding state immediately. Which spanning-tree feature satisfies this requirement?

- A. Rapid Spanning-Tree
- B. Spanning-Tree Timers
- C. Spanning-Tree FastPort
- D. Spanning-Tree PortFast
- E. Spanning-Tree Fast Forward

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

In order to allow immediate transition of the port into forwarding state, enable the STP PortFast feature.

PortFast immediately transitions the port into STP forwarding mode upon linkup. The port still participates in STP. So if the port is to be a part of the loop, the port eventually transitions into STP blocking mode.

Example configuration:

Switch-C# configure terminal

Switch-C(config)# interface range fa0/3 - 24

Switch-C(config-if-range)# spanning-tree portfast

Reference: http://www.informit.com/library/content.aspx?b=CCNP_Studies_Switching&seqNum=36

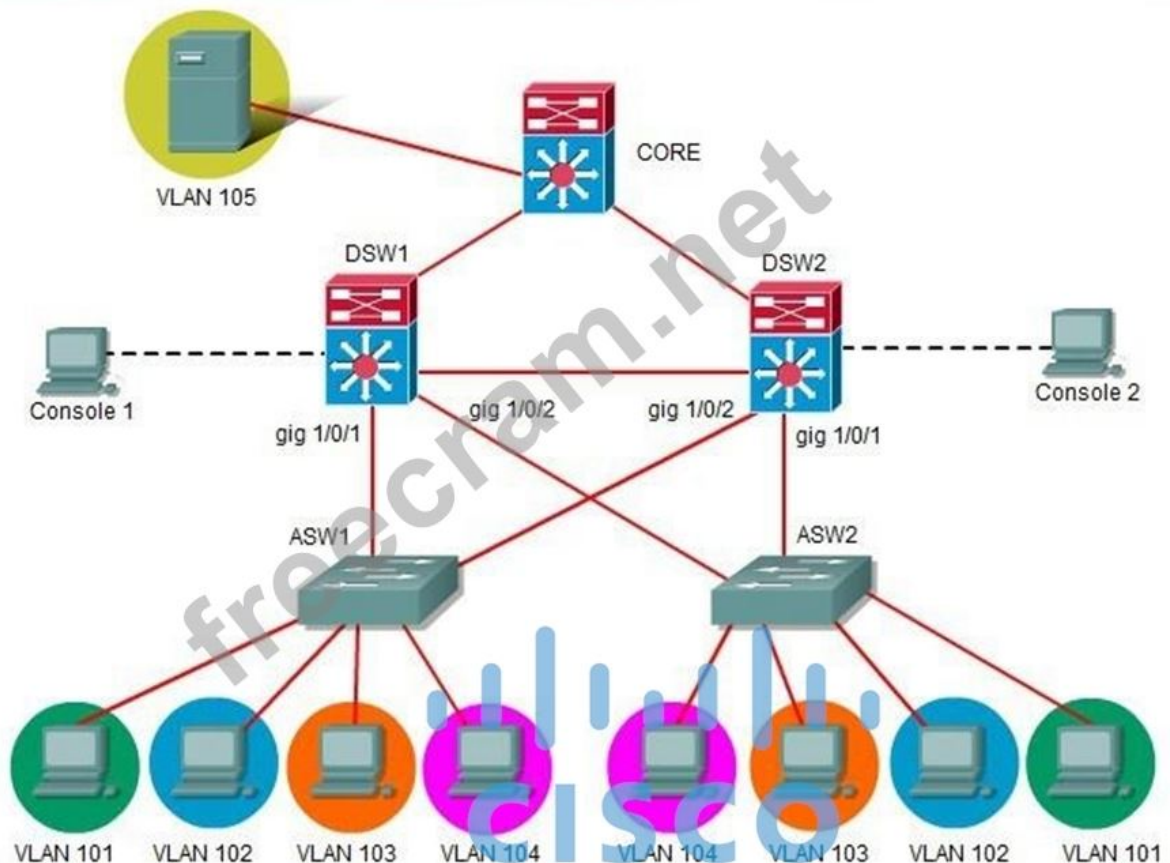
NEW QUESTION: 54

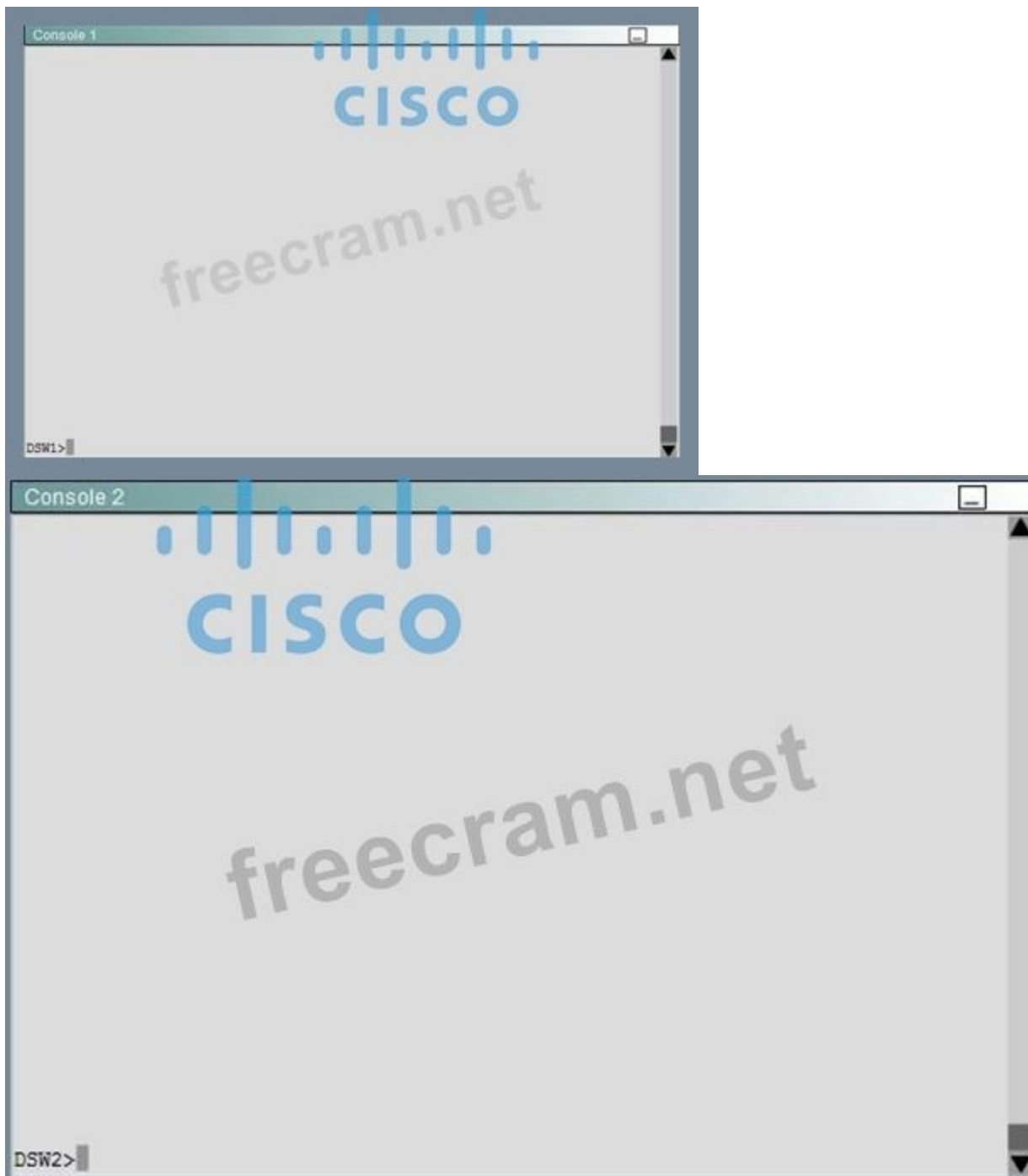
Ferris Plastics, Inc. is a medium sized company, with an enterprise network (access, distribution and core switches) that provides LAN connectivity from user PCs to corporate servers. The distribution switches are configured to use HSRP to provide a high availability solution.

DSW1 -primary device for VLAN 101 VLAN 102 and VLAN 105

DSW2 - primary device for VLAN 103 and VLAN 104

A failure of GigabitEthernet1/0/1 on primary device should cause the primary device to release its status as the primary device, unless GigabitEthernet1/0/1 on backup device has also failed. Troubleshooting has identified several issues. Currently all interfaces are up. Using the running configurations and show commands, you have been asked to investigate and respond to the following question.





During routine maintenance, it became necessary to shut down the GigabitEthernet1/0/1 interface on DSW1. All other interfaces were up. During this time, DSW1 remained the active device for the VLAN 102 HSRP group. You have determined that there is an issue with the decrement value in the track command for the VLAN 102 HSRP group. What needs to be done to make the group function properly?

- A. The decrement value on DSW1 should be greater than 5 and less than 15. 0
- B. The decrement value on DSW1 should be greater than 9 and less than 15.
- C. The decrement value on DSW1 should be greater than 11 and less than 19.
- D. The decrement value on DSWTs should be greater than 190 and less than 200.
- E. The decrement value on DSWTs should be greater than 195 and less than 205.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

```
interface Vlan102
ip address 192.168.102.1 255.255.255.0
standby 2 ip 192.168.102.254
standby 2 priority 200
standby 2 preempt
standby 2 track GigabitEthernet1/0/1 5

interface Vlan102
ip address 192.168.102.2 255.255.255.0
standby 2 ip 192.168.102.254
standby 2 priority 190
standby 2 preempt
standby 2 track GigabitEthernet1/0/1
```

Use "show run" command to show. The left Vlan102 is console1 of DS1. Priority value is 200, we should decrement value in the track command from 11 to 18. Because $200 - 11 = 189 < 190$ (priority of Vlan102 on DS2).

NEW QUESTION: 55

Refer to the exhibit.

```
interface GigabitEthernet0/1
switchport
switchport mode trunk
switchport trunk allowed vlan 1-100

interface GigabitEthernet0/48
switchport
switchport mode access

!
monitor session 1 source interface GigabitEthernet0/1
monitor session 1 destination interface GigabitEthernet0/48
```

How can the traffic that is mirrored out the GigabitEthernet0/48 port be limited to only traffic that is received or transmitted in VLAN 10 on the GigabitEthernet0/1 port?

- A. Change the configuration for GigabitEthernet0/48 so that it is a member of VLAN 10.
- B. Add an access list to GigabitEthernet0/48 to filter out traffic that is not in VLAN 10.
- C. Apply the monitor session filter globally to allow only traffic from VLAN 10.
- D. Change the monitor session source to VLAN 10 instead of the physical interface.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

To start a new flow-based SPAN (FSPAN) session or flow-based RSPAN (FRSPAN) source or destination session, or to limit (filter) SPAN source traffic to specific VLANs, use the monitor session filter global configuration command.

Usage Guidelines

You can set a combined maximum of two local SPAN sessions and RSPAN source sessions. You can have a total of 66 SPAN and RSPAN sessions on a switch or switch stack. You can monitor traffic on a single VLAN or on a series or range of ports or VLANs. You select a series or range of VLANs by using the

[, | -] options.

If you specify a series of VLANs, you must enter a space before and after the comma. If you specify a range of VLANs, you must enter a space before and after the hyphen (-). VLAN filtering refers to analyzing network traffic on a selected set of VLANs on trunk source ports. By default, all

VLANs are monitored on trunk source ports. You can use the monitor session session_number filter vlan vlan-id command to limit SPAN traffic on trunk source ports to only the specified VLANs. VLAN monitoring and VLAN filtering are mutually exclusive. If a VLAN is a source, VLAN filtering cannot be enabled. If VLAN filtering is configured, a VLAN cannot become a source.

Reference:

http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3850/software/release/3se/network_management/command_reference/b_nm_3se_3850_cr/b_nm_3se_3850_cr_chapter_010.html#wp3875419997

NEW QUESTION: 56

Which statement about the UDLD protocol is true?

- A.** UDLD is a Cisco-proprietary Layer 2 protocol that enables devices to monitor the physical status of links and detect unidirectional failures.
- B.** UDLD is a Cisco-proprietary Layer 2 protocol that enables devices to advertise their identity, capabilities, and neighbors on a local area network.
- C.** UDLD is a standardized Layer 2 protocol that enables devices to monitor the physical status of links and detect unidirectional failures.
- D.** UDLD is a standardized Layer 2 protocol that enables devices to advertise their identity, capabilities, and neighbors on a local area network.

Answer: A (LEAVE A REPLY)

Explanation/Reference:

Explanation:

The Cisco-proprietary UDLD protocol monitors the physical configuration of the links between devices and ports that support UDLD. UDLD detects the existence of unidirectional links. When a unidirectional link is detected, UDLD puts the affected port into the errdisabled state and alerts the user.

Reference:

<http://www.cisco.com/en/US/docs/switches/lan/catalyst6500/ios/12.2SX/configuration/guide/udld.html>

NEW QUESTION: 57

Which option is a possible cause for an errdisabled interface?

- A.** routing loop
- B.** cable unplugged
- C.** STP loop guard
- D.** security violation

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

There are various reasons for the interface to go into errdisable. The reason can be:

Duplex mismatch

-
- Port channel misconfiguration
-
- BPDU guard violation
-
- UniDirectional Link Detection (UDLD) condition
-
- Late-collision detection
-
- Link-flap detection
-
- Security violation
-
- Port Aggregation Protocol (PAgP) flap
-
- Layer 2 Tunneling Protocol (L2TP) guard
-
- DHCP snooping rate-limit
-
- Incorrect GBIC / Small Form-Factor Pluggable (SFP) module or cable Address Resolution Protocol (ARP) inspection
-
- Inline power
-
- Reference:

http://www.cisco.com/en/US/tech/tk389/tk621/technologies_tech_note09186a00806cd87b.shtml

NEW QUESTION: 58

What is the default interval at which Cisco devices send Cisco Discovery Protocol advertisements?

- A. 30 seconds
- B. 60 seconds
- C. 120 seconds
- D. 300 seconds

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

Cisco Discovery Protocol is a Layer 2, media-independent, and network-independent protocol that networking applications use to learn about nearby, directly connected devices. Cisco Discovery Protocol is enabled by default. Each device configured for Cisco Discovery Protocol advertises at least one address at which the device can receive messages and sends periodic advertisements (messages) to the well-known multicast address 01:00:0C:CC:CC:CC. Devices discover each other by listening at that address. They also listen to messages to learn when interfaces on other devices are up or go down.

Advertisements contain time-to-live information, which indicates the length of time a receiving device should hold Cisco Discovery Protocol information before discarding it. Advertisements supported and configured in Cisco software are sent, by default, every 60 seconds. Reference: <http://www.cisco.com/en/US/docs/ios-xml/ios/cdp/configuration/15-mt/nm-cdp-discover.html>

NEW QUESTION: 59

A network is running VTPv2. After verifying all VTP settings, the network engineer notices that the new switch is not receiving the list of VLANs from the server. Which action resolves this problem?

- A. Reload the new switch.
- B. Restart the VTP process on the new switch.
- C. Reload the VTP server.
- D. Verify connected trunk ports.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

VTP should never need to have the switch reloaded or the VTP process to restart in order for it to work.

The first thing that should be done is to verify that the trunk ports are connected and up.

NEW QUESTION: 60

Which command is needed to enable DHCP snooping if a switchport is connected to a DHCP server?

- A. ip dhcp snooping trust
- B. ip dhcp snooping
- C. ip dhcp trust
- D. ip dhcp snooping information

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

When configuring DHCP snooping, follow these guidelines:

DHCP snooping is not active until you enable the feature on at least one VLAN, and enable DHCP globally on the switch.

Before globally enabling DHCP snooping on the switch, make sure that the devices acting as the DHCP

server and the DHCP relay agent are configured and enabled.

If a Layer 2 LAN port is connected to a DHCP server, configure the port as trusted by entering the "ip

dhcp snooping trust" interface configuration command.

If a Layer 2 LAN port is connected to a DHCP client, configure the port as untrusted by entering the no

ip dhcp snooping trust interface configuration command. Reference:

<http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst6500/ios/12-2SX/configuration/guide/book/snoodhcp.html>

NEW QUESTION: 61

Which private VLAN access port belongs to the primary VLAN and can communicate with all interfaces, including the community and isolated host ports?

- A. promiscuous port
- B. isolated port
- C. community port
- D. trunk port

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

The types of private VLAN ports are as follows:

Promiscuous--A promiscuous port belongs to the primary VLAN. The promiscuous port can communicate with all interfaces, including the community and isolated host ports, that belong to those secondary VLANs associated to the promiscuous port and associated with the primary VLAN. You can have several promiscuous ports in a primary VLAN. Each promiscuous port can have several secondary VLANs, or no secondary VLANs, associated to that port. You can associate a secondary VLAN to more than one promiscuous port, as long as the promiscuous port and secondary VLANs are within the same primary VLAN. You may want to do this for load-balancing or redundancy purposes.

You can also have secondary VLANs that are not associated to any promiscuous port.

Isolated--An isolated port is a host port that belongs to an isolated secondary VLAN. This port has complete isolation from other ports within the same private VLAN domain, except that it can communicate with associated promiscuous ports. Private VLANs block all traffic to isolated ports except traffic from promiscuous ports. Traffic received from an isolated port is forwarded only to promiscuous ports. You can have more than one isolated port in a specified isolated VLAN. Each port is completely isolated from all other ports in the isolated VLAN.

Community--A community port is a host port that belongs to a community secondary VLAN.

Community

ports communicate with other ports in the same community VLAN and with associated promiscuous ports. These interfaces are isolated from all other interfaces in other communities and from all isolated ports within the private VLAN domain.

Reference:

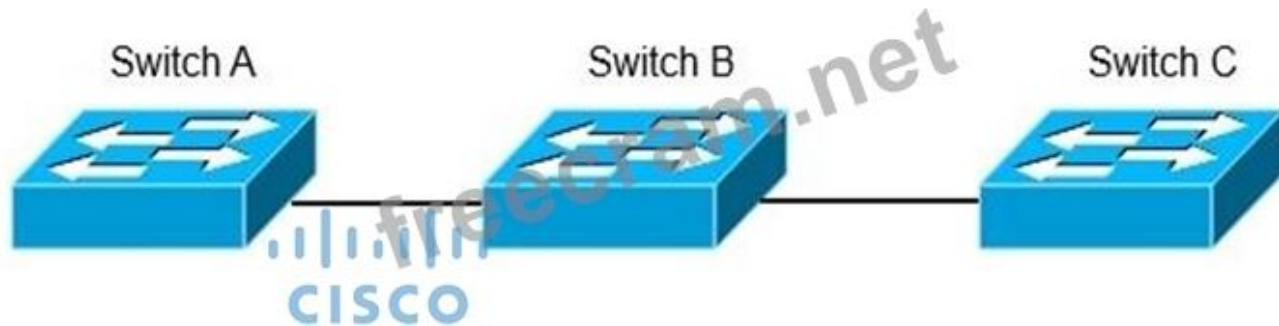
<http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/configuration/guide/cli/CLIConfigurationGuide/PrivateVLANs.html>

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NEW QUESTION: 62

Refer to the exhibit.



Switch A, B, and C are trunked together and have been properly configured for VTP. Switch C receives VLAN information from the VTP server Switch A, but Switch B does not receive any VLAN information.

What is the most probable cause of this behavior?

- A. Switch B is configured in transparent mode.
- B. Switch B is configured with an access port to Switch A, while Switch C is configured with a trunk port to Switch B.
- C. The VTP revision number of the Switch B is higher than that of Switch A.
- D. The trunk between Switch A and Switch B is misconfigured.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

VTP transparent switches do not participate in VTP. A VTP transparent switch does not advertise its VLAN configuration and does not synchronize its VLAN configuration based on received advertisements, but transparent switches do forward VTP advertisements that they receive out their trunk ports in VTP Version

2.

Reference:

http://www.cisco.com/en/US/tech/tk389/tk689/technologies_tech_note09186a0080094c52.shtml

NEW QUESTION: 63

Refer to the exhibit.

```
username cisco password cisco
!
aaa new-model
radius-server host 10.1.1.50 auth-port 1812 key C1sc0123
aaa authentication login default group radius local line
aaa authentication logging NO_AUTH none
!
line vty 0 15
login authentication default
password linepass
line console 0
login authentication NO_AUTH
```

When a network administrator is attempting an SSH connection to the device, in which order does the device check the login credentials?

- A. RADIUS server, local username, line password
- B. RADIUS server, line password, local username
- C. Line password, local username, RADIUS server
- D. Line password, RADIUS server, local username

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

SSH sessions use the vty lines, where the configured authentication method is named "default." The AAA default login preference is stated in order from first to last, so here the "aaa authentication login default group radius local line" means to use RADIUS first, then if that fails use the local user database. Finally, if that fails use the line password.

NEW QUESTION: 64

Which option lists the information that is contained in a Cisco Discovery Protocol advertisement?

- A. native VLAN IDs, port-duplex, hardware platform
- B. native VLAN IDs, port-duplex, memory errors
- C. native VLAN IDs, memory errors, hardware platform
- D. port-duplex, hardware platform, memory errors

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

Type-Length-Value fields (TLVs) are blocks of information embedded in CDP advertisements.

Table 21 summarizes the TLV definitions for CDP advertisements.

Table 21 Type-Length-Value Definitions for CDPv2

TLV Definition

Device-ID TLV Identifies the device name in the form of a character string.

Address TLV Contains a list of network addresses of both receiving and sending devices.

Port-ID TLV Identifies the port on which the CDP packet is sent.

Capabilities TLV Describes the functional capability for the device in the form of a device type, for example, a switch.

Version TLV Contains information about the software release version on which the device is running.

Platform TLV Describes the hardware platform name of the device, for example, Cisco 4500.

IP Network Prefix Contains a list of network prefixes to which the sending device can forward IP packets. This information is in the form of the interface protocol and port number, for example, Eth 1/0.

VTP Management Advertises the system's configured VTP management domain name- Domain TLV string. Used by network operators to verify VTP domain configuration in adjacent network nodes.

Native VLAN TLV Indicates, per interface, the assumed VLAN for untagged packets on the interface. CDP learns the native VLAN for an interface. This feature is implemented only for interfaces that support the IEEE 802.1Q protocol.

Full/Half Duplex Indicates status (duplex configuration) of CDP broadcast interface. TLV Used by network operators to diagnose connectivity problems between adjacent network elements.

Reference:

http://www.cisco.com/en/US/docs/ios/12_2/configfun/configuration/guide/fcf015.html

NEW QUESTION: 65

Which statement about using native VLANs to carry untagged frames is true?

- A.** Cisco Discovery Protocol version 2 carries native VLAN information, but version 1 does not.
- B.** Cisco Discovery Protocol version 1 carries native VLAN information, but version 2 does not.
- C.** Cisco Discovery Protocol version 1 and version 2 carry native VLAN information.
- D.** Cisco Discovery Protocol version 3 carries native VLAN information, but versions 1 and 2 do not.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

Cisco Discovery Protocol (CDP) version 2 passes native VLAN information between Cisco switches. If you have a native VLAN mismatch, you will see CDP error messages on the console output.

Reference: <http://www.ciscopress.com/articles/article.asp?p=29803&seqNum=3>

NEW QUESTION: 66

Which AAA Authorization type includes PPP, SLIP, and ARAP connections?

- A.** network
- B.** IP mobile
- C.** EXEC
- D.** auth-proxy

Answer: **A** ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

Method lists for authorization define the ways that authorization will be performed and the sequence in which these methods will be performed. A method list is simply a named list describing the authorization methods to be queried (such as RADIUS or TACACS+), in sequence. Method lists enable you to designate one or more security protocols to be used for authorization, thus ensuring a backup system in case the initial method fails. Cisco IOS software uses the first method listed to authorize users for specific network services; if that method fails to respond, the Cisco IOS software selects the next method listed in the method list. This process continues until there is successful communication with a listed authorization method, or all methods defined are exhausted.

Method lists are specific to the authorization type requested:

- Auth-proxy--Applies specific security policies on a per-user basis. For detailed information on the authentication proxy feature, refer to the chapter "Configuring Authentication Proxy" in the "Traffic Filtering and Firewalls" part of this book.

- Commands--Applies to the EXEC mode commands a user issues. Command authorization attempts

authorization for all EXEC mode commands, including global configuration commands, associated with a specific privilege level.

- EXEC--Applies to the attributes associated with a user EXEC terminal session. Network--Applies to

network connections. This can include a PPP, SLIP, or ARAP connection.

- Reverse Access--Applies to reverse Telnet sessions.

When you create a named method list, you are defining a particular list of authorization methods for the indicated authorization type.

Reference:

http://www.cisco.com/c/en/us/td/docs/ios/12_2/security/configuration/guide/fsecur_c/scfathor.html

NEW QUESTION: 67

A network engineer is setting up a new switched network. The network is expected to grow and add many new VLANs in the future. Which Spanning Tree Protocol should be used to reduce switch resources and managerial burdens that are associated with multiple spanning-tree instances?

- A. RSTP
- B. PVST
- C. MST
- D. PVST+
- E. RPVST+

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

Multiple Spanning Tree (MST) extends the IEEE 802.1w RST algorithm to multiple spanning trees. The main purpose of MST is to reduce the total number of spanning-tree instances to match the physical topology of the network and thus reduce the CPU cycles of a switch.

PVRST+ runs STP instances for each VLAN and does not take into consideration the physical topology that might not require many different STP topologies. MST, on the other hand, uses a minimum number of STP instances to match the number of physical topologies present.

Figure 3-15 shows a common network design, featuring an access Switch A, connected to two Building Distribution submodule Switches D1 and D2. In this setup, there are 1000 VLANs, and the network administrator typically seeks to achieve load balancing on the access switch uplinks based on even or odd VLANs--or any other scheme deemed appropriate.

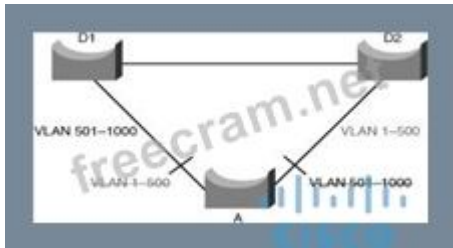


Figure 3-15: VLAN Load Balancing

Figure 3-15 illustrates two links and 1000 VLANs. The 1000 VLANs map to two MST instances. Rather than maintaining 1000 spanning trees, each switch needs to maintain only two spanning trees, reducing the need for switch resources.

Reference: http://ciscodocuments.blogspot.com/2011/05/chapter-03-implementing-spanning-tree_19.html

NEW QUESTION: 68

What is the size of the VLAN field inside an 802.1q frame?

- A. 8-bit
- B. 12-bit
- C. 16-bit
- D. 32-bit

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

The VLAN field is a 12-bit field specifying the VLAN to which the frame belongs. The hexadecimal values of 0x000 and 0xFFFF are reserved. All other values may be used as VLAN identifiers, allowing up to 4,094 VLANs Reference: http://en.wikipedia.org/wiki/IEEE_802.1Q

NEW QUESTION: 69

A network engineer must adjust the STP interface attributes to influence root port selection. Which two elements are used to accomplish this? (Choose two.)

- A. port-priority
- B. cost

- C. forward-timers
- D. link type
- E. root guard

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

Spanning tree forces redundant data paths into a standby (blocked) state. If a network segment in the spanning tree fails and a redundant path exists, the spanning-tree algorithm recalculates the spanning-tree topology and activates the standby path. Switches send and receive spanning-tree frames, called bridge protocol data units (BPDUs), at regular intervals. The switches do not forward these frames but use them to construct a loop-free path. BPDUs contain information about the sending switch and its ports, including switch and MAC addresses, switch priority, port priority, and path cost. Spanning tree uses this information to elect the root switch and root port for the switched network and the root port and designated port for each switched segment. When two ports on a switch are part of a loop, the spanning-tree port priority and path cost settings control which port is put in the forwarding state and which is put in the blocking state.

The spanning-tree port priority value represents the location of a port in the network topology and how well it is located to pass traffic. The path cost value represents the media speed.

Reference:

http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3750x_3560x/software/release/12-2_55_se/configuration/guide/3750xscg/swstp.html

NEW QUESTION: 70

What happens on a Cisco switch that runs Cisco IOS when an RSTP-configured switch receives 802.1d BPDU?

- A. 802.1d does not understand RSTP BPDUs because they are different versions, but when a RSTP switch receives an 802.1d BPDU, it responds with an 802.1d BPDU and eventually the two switches run 802.1d to communicate.
- B. 802.1d understands RSTP BPDUs because they are the same version, but when a RSTP switch receives a 802.1d BPDU, it responds with a 802.1d BPDU and eventually the two switches run 802.1d to communicate.
- C. 802.1d does not understand RSTP BPDUs because they are different versions, but when a RSTP switch receives a 802.1d BPDU, it does not respond with a 802.1d BPDU.
- D. 802.1d understands RSTP BPDUs because they are the same version, but when a RSTP switch receives a 802.1d BPDU, it does not respond with a 802.1d BPDU and eventually the two switches run 802.1d to communicate.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

For backward compatibility with 802.1D switches, RSTP selectively sends 802.1D configuration BPDUs and TCN BPDUs on a per-port basis.

When a port is initialized, the migrate-delay timer is started (specifies the minimum time during which RSTP BPDUs are sent), and RSTP BPDUs are sent. While this timer is active, the switch processes all BPDUs received on that port and ignores the protocol type. If the switch receives an 802.1D BPDU after the port migration-delay timer has expired, it assumes that it is connected to an 802.1D switch and starts using only 802.1D BPDUs. However, if the RSTP switch is using 802.1D BPDUs on a port and receives an RSTP BPDU after the timer has expired, it restarts the timer and starts using RSTP BPDUs on that port.

Reference: <http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst6500/ios/12-2SX/configuration/guide/book/spantree.html>

NEW QUESTION: 71

Which type of information does the DHCP snooping binding database contain?

- A. untrusted hosts with leased IP addresses
- B. trusted hosts with leased IP addresses
- C. untrusted hosts with available IP addresses
- D. trusted hosts with available IP addresses

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

DHCP snooping is a security feature that acts like a firewall between untrusted hosts and trusted DHCP servers. The DHCP snooping feature performs the following activities:

- Validates DHCP messages received from untrusted sources and filters out invalid messages.

- Rate-limits DHCP traffic from trusted and untrusted sources. Builds and maintains the DHCP snooping binding database, which contains information about untrusted hosts with leased IP addresses.

- Utilizes the DHCP snooping binding database to validate subsequent requests from untrusted hosts.

Reference: <http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst6500/ios/12-2SX/configuration/guide/book/snoodhcp.pdf>

NEW QUESTION: 72

A network engineer changed the port speed and duplex setting of an existing EtherChannel bundle that uses the PAgP protocol. Which statement describes what happens to all ports in the bundle?

- A. PAgP changes the port speed and duplex for all ports in the bundle.
- B. PAgP drops the ports that do not match the configuration.
- C. PAgP does not change the port speed and duplex for all ports in the bundle until the switch is rebooted.

D. PAgP changes the port speed but not the duplex for all ports in the bundle.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

PAgP aids in the automatic creation of EtherChannel links. PAgP packets are sent between EtherChannel- capable ports in order to negotiate the formation of a channel. Some restrictions are deliberately introduced into PAgP. The restrictions are:

PAgP does not form a bundle on ports that are configured for dynamic VLANs. PAgP requires that all

ports in the channel belong to the same VLAN or are configured as trunk ports. When a bundle already exists and a VLAN of a port is modified, all ports in the bundle are modified to match that VLAN.

PAgP does not group ports that operate at different speeds or port duplex. If speed and duplex change

when a bundle exists, PAgP changes the port speed and duplex for all ports in the bundle.

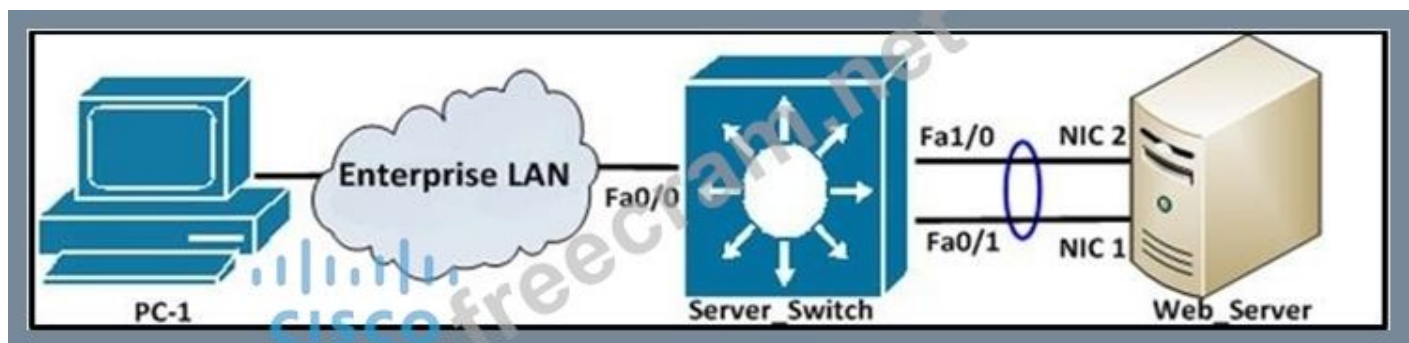
PAgP modes are off, auto, desirable, and on. Only the combinations auto-desirable, desirable-desirable, and on-on allow the formation of a channel. The device on the other side must have PAgP set to on if a device on one side of the channel does not support PAgP, such as a router.

Reference:

<http://www.cisco.com/c/en/us/support/docs/lan-switching/etherchannel/12023-4.html>

NEW QUESTION: 73

Refer to the exhibit.



Users of PC-1 experience slow connection when a webpage is requested from the server. To increase bandwidth, the network engineer configured an EtherChannel on interfaces Fa1/0 and Fa0/1 of the server farm switch, as shown here:

```
Server_Switch#sh etherchannel load-balance
```

EtherChannel Load-Balancing Operational State (src-mac):

Non-IP: Source MAC address

IPv4: Source MAC address

IPv6: Source IP address

```
Server_Switch#
```

However, traffic is still slow. Which action can the engineer take to resolve this issue?

- A. Disable EtherChannel load balancing.
- B. Upgrade the switch IOS to IP services image.
- C. Change the load-balance method to dst-mac.
- D. Contact Cisco TAC to report a bug on the switch.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

Since this traffic is coming from PC-1, the source MAC address will always be that of PC-1, and since the load balancing method is source MAC, traffic will only be using one of the port channel links. The load balancing method should be changed to destination MAC, since the web server has two NICs traffic will be load balanced across both MAC addresses.

NEW QUESTION: 74

The command storm-control broadcast level 75 65 is configured under the switch port connected to the corporate mail server. In which three ways does this command impact the traffic? (Choose three.)

- A. SNMP traps are sent by default when broadcast traffic reaches 65% of the lower-level threshold.
- B. The switchport is disabled when unicast traffic reaches 75% of the total interface bandwidth.
- C. The switch resumes forwarding broadcasts when they are below 65% of bandwidth.
- D. Only broadcast traffic is limited by this particular storm control configuration.
- E. Multicast traffic is dropped at 65% and broadcast traffic is dropped at 75% of the total interface bandwidth.
- F. The switch drops broadcasts when they reach 75% of bandwidth.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

storm-control {broad- Configure broadcast, multicast, or unicast storm control. By de- cast | multicast | uni- fault, storm control is disabled.

cast} level {level [lev-

The keywords have these meanings:

el-low] | pps pps [pps-

low]]

For level, specify the rising threshold level for broadcast, multicast, or unicast traffic as a percentage

(up to two decimal places) of the bandwidth. The port blocks traffic when the rising threshold is reached. The range is 0.00 to 100.00.

(Optional) For level-low, specify the falling threshold level as a percentage (up to two decimal places) of

the bandwidth. This value must be less than or equal to the rising suppression value. The port forwards traffic when traffic drops below this level. If you do not configure a falling suppression level, it is set to the rising suppression level. The range is 0.00 to 100.00.

In this case, the broadcast keyword was used so only broadcast traffic is limited. Reference: http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3550/software/release/12-2_25_see/configuration/guide/3550SCG/swtrafc.html

NEW QUESTION: 75

Which statement describes what happens when a port configured with root guard receives a superior BPDU?

- A. The port goes into errdisabled state and stops forwarding traffic.
- B. The port goes into BPDU-inconsistent state and stops forwarding traffic.
- C. The port goes into loop-inconsistent state and stops forwarding traffic.
- D. The port goes into root-inconsistent state and stops forwarding traffic.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

The root guard ensures that the port on which root guard is enabled is the designated port. Normally, root bridge ports are all designated ports, unless two or more ports of the root bridge are connected together. If the bridge receives superior STP Bridge Protocol Data Units (BPDUs) on a root guard-enabled port, root guard moves this port to a root-inconsistent STP state. This root-inconsistent state is effectively equal to a listening state. No traffic is forwarded across this port. In this way, the root guard enforces the position of the root bridge.

Reference:

http://www.cisco.com/en/US/tech/tk389/tk621/technologies_tech_note09186a00800ae96b.shtml

NEW QUESTION: 76

While troubleshooting a network outage, a network engineer discovered an unusually high level of broadcast traffic coming from one of the switch interfaces. Which option decreases consumption of bandwidth used by broadcast traffic?

- A. storm control
- B. SDM routing
- C. Cisco IOS parser
- D. integrated routing and bridging
- E. Dynamic ARP Inspection

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

Storm control prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port. A LAN storm occurs when packets flood the LAN, creating excessive traffic and degrading network performance. Errors in the protocol-stack implementation, mistakes in network

configuration, or users issuing a denial-of-service attack can cause a storm. Storm control is configured for the switch as a whole but operates on a per-port basis. By default, storm control is disabled.

Storm control uses rising and falling thresholds to block and then restore the forwarding of broadcast, unicast, or multicast packets. You can also set the switch to shut down the port when the rising threshold is reached.

Reference: http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst2950/software/release/12-1_22ea/SCG/scg/swtrafc.html

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NEW QUESTION: 77

On which interface can port security be configured?

- A.** static trunk ports
- B.** destination port for SPAN
- C.** EtherChannel port group
- D.** dynamic access point

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

Port Security and Port Types

You can configure port security only on Layer 2 interfaces. Details about port security and different types of interfaces or ports are as follows:

Access ports--You can configure port security on interfaces that you have configured as Layer 2 access

ports. On an access port, port security applies only to the access VLAN. Trunk ports--You can configure port security on interfaces that you have configured as Layer 2 trunk ports. VLAN maximums are not useful for access ports. The device allows VLAN maximums only for VLANs associated with the trunk port.

SPAN ports--You can configure port security on SPAN source ports but not on SPAN destination ports.

Ethernet Port Channels--Port security is not supported on Ethernet port channels. Reference:

<http://>

www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/4_1/nx-os/security/configuration/guide/sec_nx-os-cfg/sec_portsec.html

NEW QUESTION: 78

Which configuration command ties the router hot standby priority to the availability of its interfaces?

- A. standby group
- B. standby priority
- C. backup interface
- D. standby track

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

The standby track interface configuration command ties the router hot standby priority to the availability of its interfaces and is useful for tracking interfaces that are not configured for HSRP. When a tracked interface fails, the hot standby priority on the device on which tracking has been configured decreases by

10. If an interface is not tracked, its state changes do not affect the hot standby priority of the configured device. For each interface configured for hot standby, you can configure a separate list of interfaces to be tracked.

Reference:

http://www.cisco.com/en/US/docs/switches/lan/catalyst3550/software/release/12.1_19_ea1/configuration/guide/swhsrp.html

NEW QUESTION: 79

Refer to the exhibit.

```

Switch# Show run
interface FastEthernet0/13
spanning-tree cost 1000
!
interface FastEthernet0/14
spanning-tree cost 1000
!
interface FastEthernet0/15
spanning-tree cost 1000
!
interface FastEthernet0/20
spanning-tree cost 2
!
interface FastEthernet0/21
spanning-tree cost 1

```

All ports are members of VLAN 10. Considering the default cost of upstream bridges to the root bridge is equal, which option will be the new root port for VLAN 10?

- A. interface f0/13
- B. interface f0/14
- C. interface f0/15
- D. interface f0/21

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

Root Port election on each bridge

Each (non-Root) bridge has exactly one Root Port, which represents the best path to the Root Bridge.

Total Path Cost to root - lowest prevails (local Root Port cost added o upon receipt of Configuration BPDUs on that port, from the direction of Root Bridge) Connected Bridge ID - lowest prevails o

Connected Port ID (Port Priority + Port#) - lowest prevails o

Local Port ID - lowest prevails

o

In this case, fa0/21 has the lowest cost, so it will be the root port.

Reference:

https://community.extremenetworks.com/extreme/topics/802_1d_spanning_tree_election_rules

NEW QUESTION: 80

DHCP snooping and IP Source Guard have been configured on a switch that connects to several client workstations. The IP address of one of the workstations does not match any entries found in the DHCP binding database. Which statement describes the outcome of this scenario?

- A. Packets from the workstation will be rate limited according to the default values set on the switch.
- B. The interface that is connected to the workstation in question will be put into the errdisabled state.
- C. Traffic will pass accordingly after the new IP address is populated into the binding database.
- D. The packets originating from the workstation are assumed to be spoofed and will be discarded.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

The IP source binding table has bindings that are learned by DHCP snooping or are manually configured (static IP source bindings). An entry in this table has an IP address, its associated MAC address, and its associated VLAN number. The switch uses the IP source binding table only when IP source guard is enabled.

You can configure IP source guard with source IP address filtering, or with source IP and MAC address filtering. When IP source guard is enabled with this option, IP traffic is filtered based on the source IP address. The switch forwards IP traffic when the source IP address matches an entry in the DHCP snooping binding database or a binding in the IP source binding table. When IP source guard is enabled with this option, IP traffic is filtered based on the source IP and MAC addresses. The switch forwards traffic only when the source IP and MAC addresses match an entry in the IP source binding table. If there is no match, the packets are assumed to be spoofed and will be discarded.

Reference: <http://www.cisco.com/c/en/us/support/docs/switches/catalyst-3750-series-switches/72846-layer2-secftrs-catl3fixed.html#ipsourceguard>

NEW QUESTION: 81

A network engineer wants to add a new switch to an existing switch stack. Which configuration must be added to the new switch before it can be added to the switch stack?

- A. No configuration must be added.
- B. stack ID
- C. IP address
- D. VLAN information
- E. VTP information

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

Switch Stack Offline Configuration

You can use the offline configuration feature to provision (to supply a configuration to) a new switch before it joins the switch stack. You can configure in advance the stack member number, the switch type, and the interfaces associated with a switch that is not currently part of the stack. The configuration that you create on the switch stack is called the provisioned configuration. The

switch that is added to the switch stack and that receives this configuration is called the provisioned switch .

You manually create the provisioned configuration through the switch stack-member-number provision type global configuration command. The provisioned configuration is automatically created when a switch is added to a switch stack and when no provisioned configuration exists. When you configure the interfaces associated with a provisioned switch (for example, as part of a VLAN), the switch stack accepts the configuration, and the information appears in the running configuration. The interface associated with the provisioned switch is not active, operates as if it is administratively shut down, and the no shutdown interface configuration command does not return it to active service. The interface associated with the provisioned switch does not appear in the display of the specific feature; for example, it does not appear in the show vlan user EXEC command output.

The switch stack retains the provisioned configuration in the running configuration whether or not the provisioned switch is part of the stack. You can save the provisioned configuration to the startup configuration file by entering the copy running-config startup-config privileged EXEC command. The startup configuration file ensures that the switch stack can reload and can use the saved information whether or not the provisioned switch is part of the switch stack.

Effects of Adding a Provisioned Switch to a Switch Stack

When you add a provisioned switch to the switch stack, the stack applies either the provisioned configuration or the default configuration. Table 5-1 lists the events that occur when the switch stack compares the provisioned configuration with the provisioned switch.

Table 5-1 Results of Comparing the Provisioned Configuration with the Provisioned Switch

Scenario	Result
1. If the stack member number matches and the switch types of the provisioned switch match.	The switch stack applies the provisioned configuration to the provisioned switch and adds it to the stack, and stack.

2. If the switch type of the provisioned switch matches the switch type in the provisioned configuration on the stack.	
--	--

1. If the stack member number matches but the switch type of the provisioned switch does not match.	The switch stack applies the default configuration to the provisioned switch and adds it to the stack, but adds it to the stack.
---	--

2. The switch type of the provisioned switch does not match the configuration on the stack.	The provisioned configuration is changed to reflect switch type in the provisioned new information.
---	---

The stack member number is not found in the provisioned configuration.	The switch stack applies the default configuration to the provisioned switch and adds it to the stack.
--	--

The provisioned configuration is changed to reflect the new information.

The stack member number of the provisioned switch is in conflict with an existing switch.

The stack master assigns a new stack member number to the provisioned switch and adds it to the stack.

the switch types match:

The provisioned configuration

1. If the new stack member number of the provisioned switch matches the stack member number in the provisioned configuration on the stack, and

the new information.

2. If the switch type of the provisioned switch matches the switch type in the provisioned configuration on the stack.

The stack member numbers The switch stack applies

match, but the switch types do not match: the provisioned switch and adds it to the stack.

1. If the stack member number of the provisioned switch matches the stack member number in the provisioned configuration on the stack, but

2. The switch type of the provisioned switch does not match the switch type in the provisioned configuration on the stack.

The switch stack applies the default configuration to the provisioned switch and adds it to the stack.

Reference:

http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3750x_3560x/software/release/12-2_55_se/configuration/guide/3750xscg/swstack.html

NEW QUESTION: 82

Which command would a network engineer apply to error-disable a switchport when a packet-storm is detected?

- A. router(config-if)#storm-control action shutdown
- B. router(config-if)#storm-control action trap
- C. router(config-if)#storm-control action error
- D. router(config-if)#storm-control action enable

Answer: A (LEAVE A REPLY)

Explanation/Reference:

Explanation:

Configuring the Traffic Storm Control Shutdown Mode

To configure the traffic storm control shutdown mode on an interface, perform this task:

Command Purpose

Step 1 Router(config)# interface {{type1 slot/port} | {port-channel number}}

Step 2 Router(config-if)# storm-control (Optional) Configures traffic storm control to action shutdown error- disable ports when a traffic storm occurs.

Enter the no storm-control action shutdown command to revert to the default action (drop).

Use the error disable detection and recovery feature, or the shutdown and no shutdown commands to reenabling ports.

Reference: <http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst6500/ios/12-2SX/configuration/guide/book/storm.html>

NEW QUESTION: 83

Which statement about the use of SDM templates in a Cisco switch is true?

- A. SDM templates are used to configure system resources in the switch to optimize support for specific features, depending on how the switch is used in the network.
- B. SDM templates are used to create Layer 3 interfaces (switch virtual interfaces) to permit hosts in one VLAN to communicate with hosts in another VLAN.
- C. SDM templates are used to configure ACLs that protect networks and specific hosts from unnecessary or unwanted traffic.
- D. SDM templates are used to configure a set of ACLs that allows the users to manage the flow of traffic handled by the route processor.
- E. SDM templates are configured by accessing the switch using the web interface.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

You can use SDM templates to configure system resources in the switch to optimize support for specific features, depending on how the switch is used in the network. You can select a template to provide maximum system usage for some functions; for example, use the default template to balance resources, and use access template to obtain maximum ACL usage. To allocate hardware resources for different usages, the switch SDM templates prioritize system resources to optimize support for certain features.

Reference:

http://www.cisco.com/en/US/docs/switches/lan/catalyst3750x_3560x/software/release/12.2_55_se/configuration/guide/swsdm.pdf

NEW QUESTION: 84

Refer to the exhibit.

```
S1# show etherchannel summary
Flags: D - down      P - bundled in port-channel
      I - stand-alone s - suspended
      H - Hot-standby (LACP only)
      R - Layer3      S - Layer2
      U - in use      f - failed to allocate aggregator

      M - not in use, minimum links not met
      u - unsuitable for bundling
      w - waiting to be aggregated
      d - default port

Number of channel-groups in use: 1
Number of aggregators:          1

Group  Port-channel  Protocol  Ports
-----+-----+-----+-----
1     Po1(SU)        LACP     Fa0/13(P) Fa0/14(P) Fa0/15(P)
```

Which statement about switch S1 is true?

- A. Physical port Fa0/13, Fa0/14, and Fa0/15 successfully formed a Layer 2 port-channel interface using an open standard protocol.
- B. Logical port Fa0/13, Fa0/14, and Fa0/15 successfully formed a Layer 2 physical port-channel interface using a Cisco proprietary protocol.
- C. Physical port Fa0/13, Fa0/14, and Fa0/15 successfully formed a Layer 3 port-channel interface using a Cisco proprietary protocol.
- D. Logical port Fa0/13, Fa0/14, and Fa0/15 successfully formed a Layer 3 physical port-channel interface using an open standard protocol.

Answer: A ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

These three ports show that they are in Port Channel 1, and the (SU) means they are in use and operating at layer 2. The protocol used for this port channel shows as LACP, which is a standards based protocol, as opposed to PAgP, which is Cisco proprietary.

NEW QUESTION: 85

What is the default amount by which the hot standby priority for the router is decremented or incremented when the interface goes down or comes back up?

- A. 1**
- B. 5**
- C. 10**
- D. 15**

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

The standby track interface configuration command ties the router hot standby priority to the availability of its interfaces and is useful for tracking interfaces that are not configured for HSRP. When a tracked interface fails, the hot standby priority on the device on which tracking has been configured decreases by

10. If an interface is not tracked, its state changes do not affect the hot standby priority of the configured device. For each interface configured for hot standby, you can configure a separate list of interfaces to be tracked.

Reference:

http://www.cisco.com/en/US/docs/switches/lan/catalyst3550/software/release/12.1_19_ea1/configuration/guide/swhsrp.html

NEW QUESTION: 86

Which statement about the use of PagP link aggregation on a Cisco switch that is running Cisco IOS Software is true?

- A. PagP modes are off, auto, desirable, and on. Only the combinations auto-desirable, desirable-desirable, and on-on allow the formation of a channel.**
- B. PagP modes are active, desirable, and on. Only the combinations active-desirable, desirable-desirable, and on-on allow the formation of a channel.**
- C. PagP modes are active, desirable, and on. Only the combinations active-active, desirable-desirable, and on-on allow the formation of a channel.**
- D. PagP modes are off, active, desirable, and on. Only the combinations auto-auto, desirable-desirable, and on-on allow the formation of a channel.**

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

PagP modes are off, auto, desirable, and on. Only the combinations auto-desirable, desirable-desirable, and on-on will allow a channel to be formed.

The PagP modes are explained below.

1. on: PagP will not run. The channel is forced to come up.
 2. off: PagP will not run. The channel is forced to remain down.
 3. auto: PagP is running passively. The formation of a channel is desired; however, it is not initiated.
 4. desirable: PagP is running actively. The formation of a channel is desired and initiated.
- Only the combinations of auto-desirable, desirable-desirable, and on-on will allow a channel to be formed.

If a device on one side of the channel does not support PagP, such as a router, the device on the other side must have PagP set to on.

Reference: <http://www.cisco.com/c/en/us/support/docs/switches/catalyst-2900-xl-series-switches/21041-131.html>

NEW QUESTION: 87

A network engineer tries to configure storm control on an EtherChannel bundle. What is the result of the configuration?

- A.** The storm control settings will appear on the EtherChannel, but not on the associated physical ports.
- B.** The configuration will be rejected because storm control is not supported for EtherChannel.
- C.** The storm control configuration will be accepted, but will only be present on the physical interfaces.
- D.** The settings will be applied to the EtherChannel bundle and all associated physical interfaces.

Answer: (SHOW ANSWER)

Explanation/Reference:

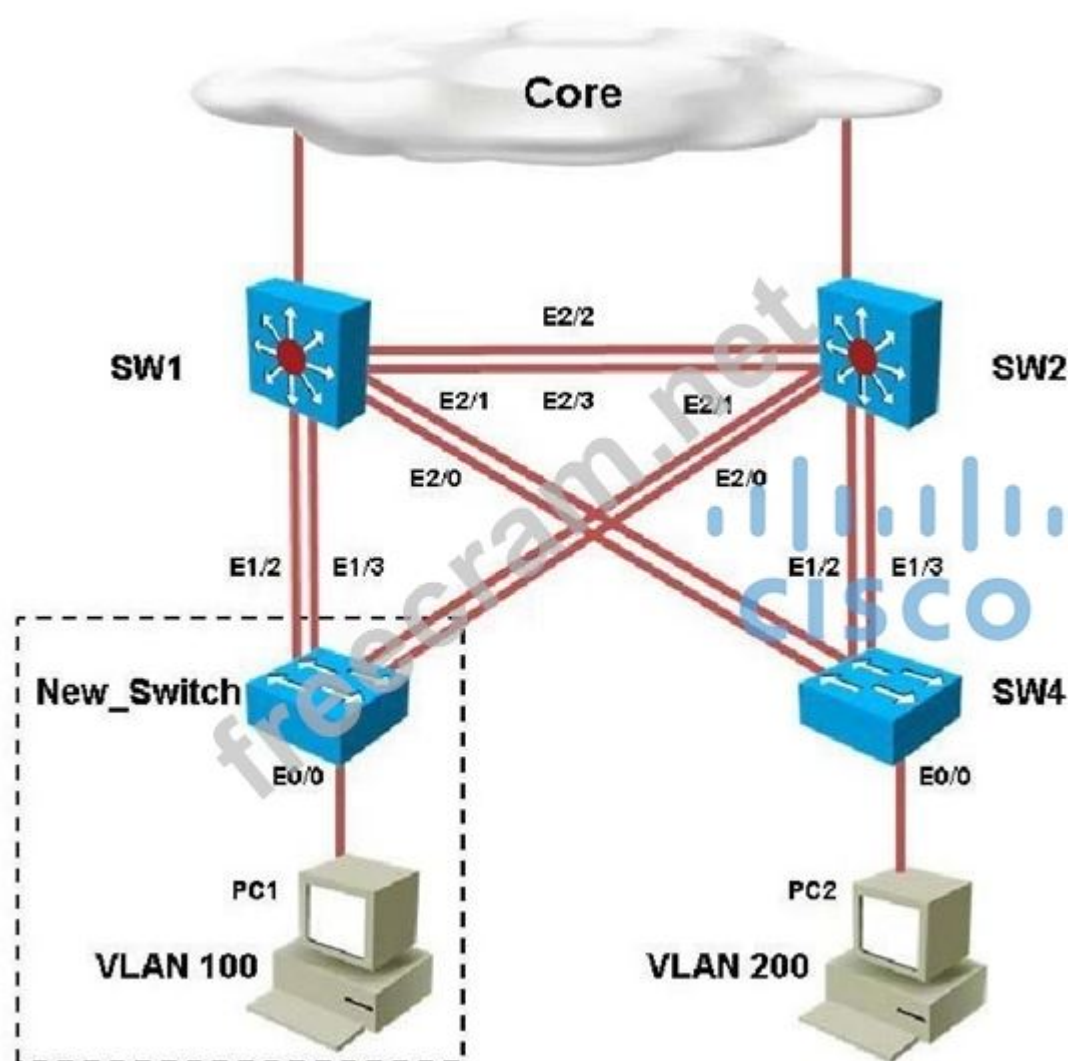
Explanation:

After you configure an EtherChannel, any configuration that you apply to the port-channel interface affects the EtherChannel; any configuration that you apply to the physical interfaces affects only the interface where you apply the configuration. Storm Control is an exception to this rule. For example, you cannot configure Storm Control on some of the members of an EtherChannel; Storm Control must be configured on all or none of the ports. If you configure Storm Control on only some of the ports, those ports will be dropped from the EtherChannel interface (put in suspended state). Therefore, you should configure Storm Control at the EtherChannel Interface level, and not at the physical interface level. Reference: [http://](http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst4500/12-2/31sg/configuration/guide/conf/channel.html)

www.cisco.com/c/en/us/td/docs/switches/lan/catalyst4500/12-2/31sg/configuration/guide/conf/channel.html

NEW QUESTION: 88

You have been asked to install and configure a new switch in a customer network. Use the console access to the existing and new switches to configure and verify correct device configuration.



SW1



SW1#

SW2



SW2#

New_Switch

freecram.net



New_Switch#

SW4



SW4#

You are connecting the New_Switch to the LAN topology; the switch has been partially configured and you need to complete the rest of configuration to enable PC1 communication with PC2. Which of the configuration is correct?

☐ vtp domain CCNP_TEST
vtp password cisco123
vtp version 3
vtp mode server
int e0/0
switchport mode access
switchport access vlan 100

☐ vtp domain CCNP_TEST
vtp password cisco123
vtp version 3
vtp mode client
int e0/0
switchport mode access
switchport access vlan 200

☐ vtp domain CCNP_TEST
vtp password cisco123
vtp version 2
vtp mode client
int e0/0
switchport mode access
switchport access vlan 100

☐ vtp domain CCNP
vtp password cisco
vtp version 3
vtp mode client
int e0/0
switchport mode access
switchport access vlan 100

☐ vtp domain CCNP
vtp password cisco
vtp version 2
vtp mode transparent
int e0/0
switchport mode access
switchport access vlan 200

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

Within any VTP, the VTP domain name must match. So, step one is to find the correct VTP name on the other switches. Logging in to SW1 and using the "show vtp status" command we see this:

SW1

```
SW1#show vtp status
VTP Version capable          : 1 to 3
VTP version running          : 3
VTP Domain Name               : CCNP
VTP Pruning Mode              : Enabled
VTP Traps Generation          : Disabled
Device ID                     : aabb.cc00.2500

Feature VLAN:
-----
VTP Operating Mode            : Server
Number of existing VLANs      : 8
Number of existing extended VLANs : 0
Maximum VLANs supported locally : 4096
Configuration Revision         : 11
Primary ID                    : aabb.cc00.2b00
Primary Description            : SW1
MD5 digest                    : 0xA2 0xFA 0x6E 0x8D 0
                               0xE3 0x65 0x9A 0xF7 0

Feature MST:
```

So we know that the VTP domain must be CCNP. This leaves only choice D and E.

We also see from the topology diagram that eth 0/0 of the new switch connects to a PC in VLAN 100, so we know that this port must be an access port in VLAN 100, leaving only choice D as correct. Note that the VTP versions supported in this network are 1, 2, 3 so either VTP version 2 or 3 can be configured on the new switch.

NEW QUESTION: 89

After the recent upgrade of the switching infrastructure, the network engineer notices that the port roles that were once "blocking" are now defined as "alternate" and "backup." What is the reason for this change?

- A. The new switches are using RSTP instead of legacy IEEE 802.1D STP.
- B. IEEE 802.1D STP and PortFast have been configured by default on all newly implemented Cisco Catalyst switches.
- C. The administrator has defined the switch as the root in the STP domain.
- D. The port roles have been adjusted based on the interface bandwidth and timers of the new Cisco Catalyst switches.

Answer: A ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

RSTP works by adding an alternative port and a backup port compared to STP. These ports are allowed to immediately enter the forwarding state rather than passively wait for the network to converge.

RSTP bridge port roles:

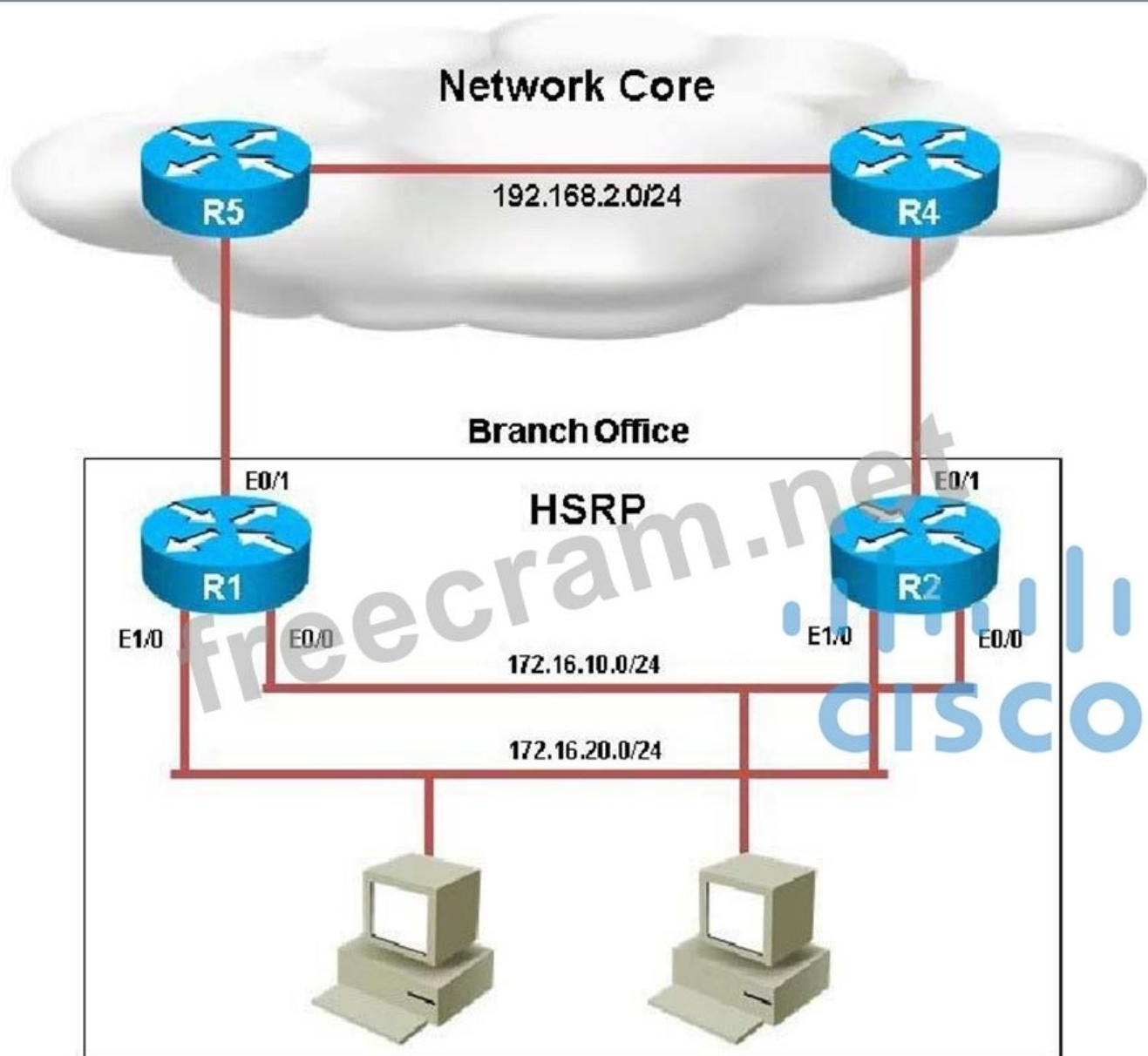
- * Root port A forwarding port that is the closest to the root bridge in terms of path cost
- * Designated port A forwarding port for every LAN segment
- * Alternate port A best alternate path to the root bridge. This path is different than using the root port. The alternative port moves to the forwarding state if there is a failure on the designated port for the segment.
- * Backup port A backup/redundant path to a segment where another bridge port already connects. The backup port applies only when a single switch has two links to the same segment (collision domain). To have two links to the same collision domain, the switch must be attached to a hub.
- * Disabled port Not strictly part of STP, a network administrator can manually disable a port

Reference:

<http://www.cisco.com/c/en/us/support/docs/lan-switching/spanning-tree-protocol/24062-146.html>

NEW QUESTION: 90

Your customer has asked you to come in and verify the operation of routers R1 and R2 which are configured to use HSRP. They have questions about how these two devices will perform in the event of a device failure.



R1

freecram.net



R1#

CISCO

R2

freecram.net



R2#

CISCO

What issue is causing Router R1 and R2 to both be displayed as the HSRP active router for group 2?

- A. The HSRP group number mismatch
- B. The HSRP group authentication is misconfigured
- C. The HSRP Hello packets are blocked
- D. The HSRP timers mismatch
- E. The HSRP group priorities are different

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

Based on the configuration output, we see that authentication is configured on R2, but not on R1:

```
R1
!
interface Ethernet1/0
  description Link to R2
  ip address 172.16.20.2 255.255.255.0
  standby 2 ip 172.16.20.254
!
```

```
R2
!
interface Ethernet1/0
  description Link to R1
  ip address 172.16.20.1 255.255.255.0
  standby 2 ip 172.16.20.254
  standby 2 priority 130
  standby 2 preempt delay reload 180
  standby 2 authentication cisco123
  standby 2 track 1 decrement 40
!
```

This can be further verified by issuing the "show standby" command on each router.

R1	R2
<pre> Ethernet1/0 - Group 2 State is Active 2 state changes, last state change 00:05:03 Virtual IP address is 172.16.20.254 Active virtual MAC address is 0000.0c07.ac02 (MAC In Use) Local virtual MAC address is 0000.0c07.ac02 (v1 default) Hello time 3 sec, hold time 10 sec Next hello sent in 0.656 secs Preemption disabled Active router is local Standby router is unknown Priority 100 (default 100) Group name is "hsrp-Et1/0-2" (default) R1# % Ambiguous command R1# </pre>	<pre> Ethernet1/0 - Group 2 State is Active 2 state changes, last Virtual IP address is 17 Active virtual MAC addre Local virtual MAC addr Hello time 3 sec, hold t Next hello sent in 2.4 Authentication text, str Preemption enabled, dela Active router is local Standby router is unknow Priority 130 (configured Track object 1 state U Group name is "hsrp-Et1/ R2# </pre>

NEW QUESTION: 91

An administrator recently configured all ports for rapid transition using PortFast. After testing, it has been determined that several ports are not transitioning as they should. What is the reason for this?

- A. RSTP has been enabled per interface and not globally.
- B. The STP root bridge selection is forcing key ports to remain in non-rapid transitioning mode.
- C. STP is unable to achieve rapid transition for trunk links.
- D. The switch does not have the processing power to ensure rapid transition for all ports.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

RSTP can only achieve rapid transition to the forwarding state on edge ports and on point-to-point links, not on trunk links. The link type is automatically derived from the duplex mode of a port. A port that operates in full-duplex is assumed to be point-to-point, while a half-duplex port is considered as a shared port by default. This automatic link type setting can be overridden by explicit configuration. In switched networks today, most links operate in full-duplex mode and are treated as point-to-point links by RSTP.

This makes them candidates for rapid transition to the forwarding state.

Reference: <http://www.cisco.com/c/en/us/support/docs/lan-switching/spanning-tree-protocol/24062-146.html>

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NEW QUESTION: 92

Refer to the exhibit.

```
SW1#show etherchannel summary
Flags: D - down P - in port-channel
I - stand-alone s - suspended
H - Hot-standby (LACP only)
R - Layer3 S - Layer2
U - in use f - failed to allocate aggregator
u - unsuitable for bundling
w - waiting to be aggregated
d - default port
Number of channel-groups in use: 3
Number of aggregators: 3
Group  Port-channel  Protocol    Ports
-----+-----+-----+-----
12      Po12 (SU)        -           Fa0/13(P) Fa0/14(P) Fa0/15(P)
13      Po13 (SU)        -           Fa0/16(P) Fa0/17(P) Fa0/18(P)
14      Po14 (SU)        -           Fa0/19(P) Fa0/20(P) Fa0/21(P)

SW1#show interface trunk
Port Mode Encapsulation Status Native vlan
Po12 desirable n-isl trunking 1
Po13 desirable n-isl trunking 1
Po14 desirable n-isl trunking 1
Port Vlans allowed on trunk
Po12 1-4094
Po13 1-4094
Po14 1-4094
```

Which EtherChannel negotiation protocol is configured on the interface f0/13 f0/15?

- A. Link Combination Control Protocol
- B. Port Aggregation Protocol
- C. Port Combination Protocol
- D. Link Aggregation Control Protocol

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

PAgP modes are off, auto, desirable, and on. Only the combinations auto-desirable, desirable-desirable, and on-on will allow a channel to be formed. .

1. on: PAgP will not run. The channel is forced to come up.
 2. off: PAgP will not run. The channel is forced to remain down.
 3. auto: PAgP is running passively. The formation of a channel is desired; however, it is not initiated.
 4. desirable: PAgP is running actively. The formation of a channel is desired and initiated.
- The Link Aggregate Control Protocol (LACP) trunking supports four modes of operation:
- On: The link aggregation is forced to be formed without any LACP negotiation .In other words, the

switch neither sends the LACP packet nor processes any inbound LACP packet. This is similar to the on state for PAgP.

Off: The link aggregation is not formed. We do not send or understand the LACP packet.

This is similar to the off state for PAgP.

Passive: The switch does not initiate the channel but does understand inbound LACP packets.

The

peer (in active state) initiates negotiation (when it sends out an LACP packet) which we receive and answer, eventually to form the aggregation channel with the peer. This is similar to the auto mode in PAgP.

Active: We can form an aggregate link and initiate the negotiation. The link aggregate is formed if the

other end runs in LACP active or passive mode. This is similar to the desirable mode of PAgP.

In this example, we see that fa 0/13, fa0/14, and fa0/15 are all in Port Channel 12, which is operating in desirable mode, which is only a PAgP mode.

NEW QUESTION: 93

Which command does a network engineer use to verify the spanning-tree status for VLAN 10?

- A. switch# show spanning-tree vlan 10
- B. switch# show spanning-tree bridge
- C. switch# show spanning-tree brief
- D. switch# show spanning-tree summary
- E. switch# show spanning-tree vlan 10 brief

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

Command Description

show spanning-tree Displays information about the spanning-tree state.

Example output:

```
SW2#show spanning-tree vlan 10
```

```
VLAN0010
```

```
Spanning tree enabled protocol rstp
```

```
Root ID Priority 24586
```

```
Address 0014.f2d2.4180
```

```
Cost 9
```

```
Port 216 (Port-channel21)
```

```
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
```

```
Bridge ID Priority 32778 (priority 32768 sys-id-ext 10)
```

```
Address 001c.57d8.9000
```

```
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
```

```
Aging Time 300 sec
```

Interface Role Sts Cost Prio.Nbr Type

----- Po21 Root FWD 9 128.216 P2p Po23

Altn BLK 9 128.232 P2p Reference:

http://www.cisco.com/en/US/docs/ios/lanswitch/command/reference/lsw_s2.html

NEW QUESTION: 94

Which VLAN range is eligible to be pruned when a network engineer enables VTP pruning on a switch?

- A. VLANs 1-1001
- B. VLANs 1-4094
- C. VLANs 2-1001
- D. VLANs 2-4094

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

VTP pruning should only be enabled on VTP servers, all the clients in the VTP domain will automatically enable VTP pruning. By default, VLANs 2 - 1001 are pruning eligible, but VLAN 1 can't be pruned because it's an administrative VLAN. Both VTP versions 1 and 2 supports pruning.

Reference: <http://www.orbit-computer-solutions.com/VTP-Pruning.php>

NEW QUESTION: 95

Which switch feature prevents traffic on a LAN from being overwhelmed by continuous multicast or broadcast traffic?

- A. storm control
- B. port security
- C. VTP pruning
- D. VLAN trunking

Answer: (SHOW ANSWER)

Explanation/Reference:

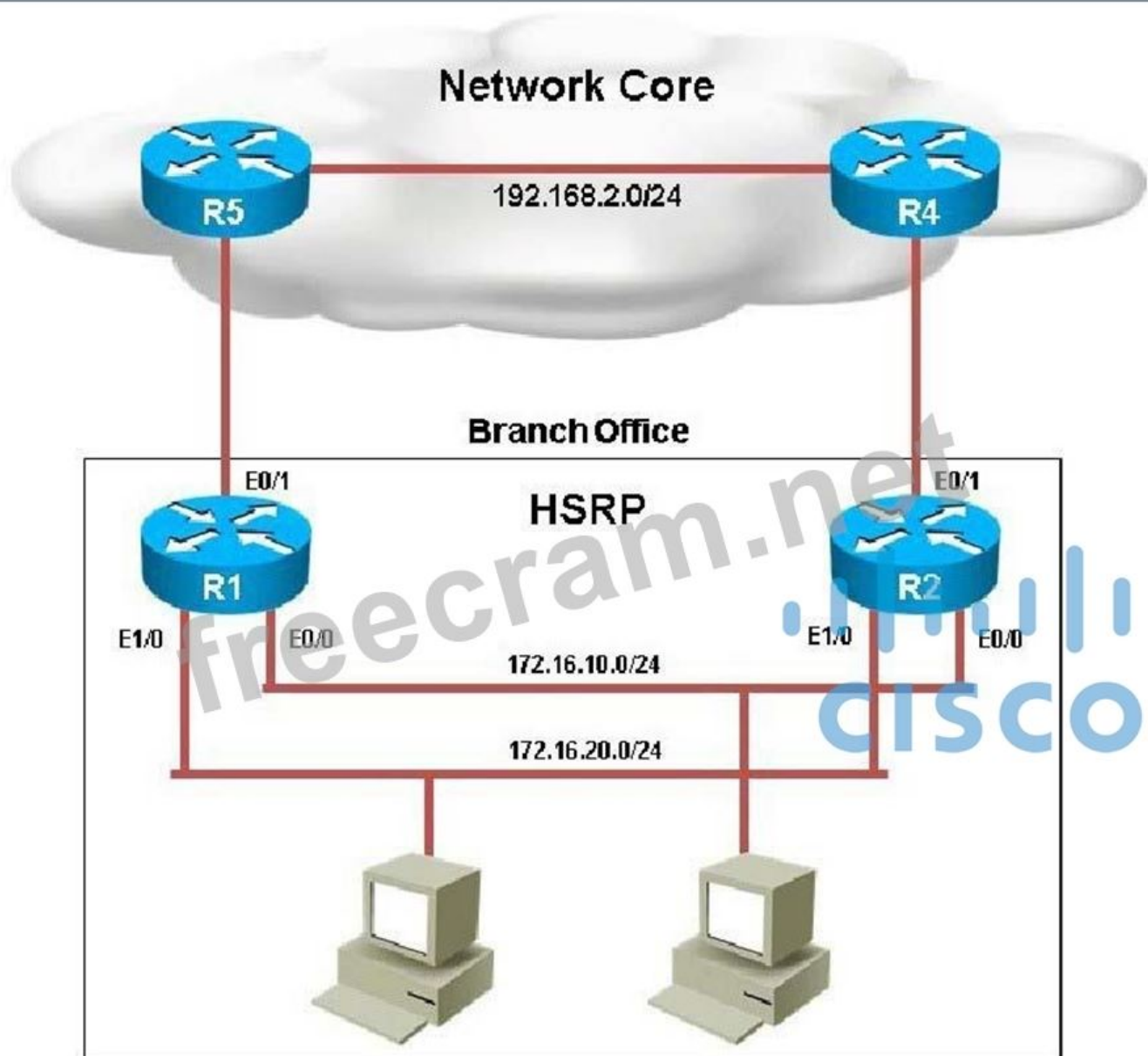
Explanation:

A traffic storm occurs when packets flood the LAN, which creates excessive traffic and degrades network performance. The traffic storm control feature prevents LAN ports from being disrupted by a broadcast, multicast, or unicast traffic storm on physical interfaces from either mistakes in network configurations or from users issuing a DoS attack.

Reference: <http://3c3cc.com/c/en/us/td/docs/routers/7600/ios/122SR/configuration/guide/swcg/dos.pdf>

NEW QUESTION: 96

Your customer has asked you to come in and verify the operation of routers R1 and R2 which are configured to use HSRP. They have questions about how these two devices will perform in the event of a device failure.



R1

freecram.net



R1#

CISCO

R2

freecram.net



R2#

CISCO

Refer to the exhibit. If router R1 interface Ethernet0/0 goes down and recovers, which of the statement regarding HSRP priority is true?

- A. The interface will have the priority decremented by 40 for HSRP group 1.
- B. The interface will have the priority decremented by 60 for HSRP group 1
- C. The interface will have its current priority incremented by 40 for HSRP group 1
- D. The interface will have its current priority incremented by 60 for HSRP group 1
- E. The interface will default to the a priority of 100 for HSRP group 1

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

Here is the HSRP configuration seen on R1:

```
R1
!
interface Ethernet0/0
  description Link to R2
  ip address 172.16.10.2 255.255.255.0
  standby 1 ip 172.16.10.254
  standby 1 priority 130
  standby 1 preempt delay reload 180
  standby 1 authentication cisco123
  standby 1 mac-address 4000.0000.0010
  standby 1 track 1 decrement 40
!
interface Ethernet0/1
```

Here, when the Ethernet 0/0 interface goes down, the standby 1 track decrement command will lower the priority from 130 to 90. However, when it comes back up, it will then increment it by 40 back to 130 for HSRP group 1.

NEW QUESTION: 97

What is the maximum number of 10 Gigabit Ethernet connections that can be utilized in an EtherChannel for the virtual switch link?

- A. 4
- B. 6
- C. 8
- D. 12

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

The VSS is made up of the following:

Virtual switch members: Cisco Catalyst 6500 Series Switches (up to two switches with initial release)

▪
deployed with the Virtual Switching Supervisor 720 10GE

Virtual switch link (VSL): 10 Gigabit Ethernet connections (up to eight using EtherChannel) between

▪
the virtual switch members.

Reference:

http://www.cisco.com/en/US/prod/collateral/switches/ps5718/ps9336/prod_qas0900aecd806ed74b.html

NEW QUESTION: 98

A network engineer deployed a switch that operates the LAN base feature set and decides to use the SDM VLAN template. The SDM template is causing the CPU of the switch to spike during peak working hours.

What is the root cause of this issue?

- A. The VLAN receives additional frames from neighboring switches.
- B. The SDM VLAN template causes the MAC address-table to overflow.
- C. The VLAN template disables routing in hardware.
- D. The switch needs to be rebooted before the SDM template takes effect.

Answer: C ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

SDM Template Notes:

▪ All templates are predefined. There is no way to edit template category individual values.

▪ The switch reload is required to use a new SDM template.

▪ The ACL merge algorithm, as opposed to the original access control entries (ACEs) configured by the

user, generate the number of TCAM entries listed for security and QoS ACEs.

▪ The first eight lines (up to Security ACEs) represent approximate hardware boundaries set when a template is used. If the boundary is exceeded, all processing overflow is sent to the CPU which can have a major impact on the performance of the switch. Choosing the VLAN template will actually disable routing (number of entry for unicast or multicast route is zero) in hardware.

Reference: <http://www.cisco.com/c/en/us/support/docs/switches/catalyst-3750-series-switches/44921-swdatabase-3750ss-44921.html>

NEW QUESTION: 99

After port security is deployed throughout an enterprise campus, the network team has been overwhelmed with port reset requests. They decide to configure the network to automate the process of re-enabling user ports. Which command accomplishes this task?

- A. switch(config)# errdisable recovery interval 180
- B. switch(config)# errdisable recovery cause psecure-violation
- C. switch(config)# switchport port-security protect
- D. switch(config)# switchport port-security aging type inactivity
- E. switch(config)# errdisable recovery cause security-violation

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

When a secure port is in the error-disabled state, you can bring it out of this state automatically by configuring the errdisable recovery cause psecure-violation global configuration command or you can manually reenabling it by entering the shutdown and no shutdown interface configuration commands. This is the default mode. If a port is in per-VLAN errdisable mode, you can also use clear errdisable interface name vlan range command to re-enable the VLAN on the port. You can also customize the time to recover from the specified error disable cause (default is 300 seconds) by entering the errdisable recovery interval interval command. Reference:

http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst4500/12-2/53SG/configuration/config/port_sec.pdf

NEW QUESTION: 100

Interface FastEthernet0/1 is configured as a trunk interface that allows all VLANs. This command is configured globally:

monitor session 2 filter vlan 1 - 8, 39, 52

What is the result of the implemented command?

- A. All VLAN traffic is sent to the SPAN destination interface.
- B. Traffic from VLAN 4 is not sent to the SPAN destination interface.
- C. Filtering a trunked SPAN port effectively disables SPAN operations for all VLANs.
- D. The trunk's native VLAN must be changed to something other than VLAN 1.
- E. Traffic from VLANs 1 to 8, 39, and 52 is replicated to the SPAN destination port.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

The "monitor session filter" command is used to specify which VLANs are to be port mirrored using SPAN.

This example shows how to monitor VLANs 1 through 5 and VLAN 9 when the SPAN source is a trunk interface:

Switch(config)# monitor session 2 filter vlan 1 - 5 , 9

Reference:

<http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst4500/12-2/25ew/configuration/guide/conf/span.html/index.html#wp1066836>

NEW QUESTION: 101

When you configure private VLANs on a switch, which port type connects the switch to the gateway router?

- A. promiscuous
- B. community
- C. isolated
- D. trunked

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

There are mainly two types of ports in a Private VLAN: Promiscuous port (P-Port) and Host port.

Host

port further divides in two types Isolated port (I-Port) and Community port (C-port). Promiscuous port (P-Port): The switch port connects to a router, firewall or other common gateway device. This port can communicate with anything else connected to the primary or any secondary VLAN. In other words, it is a type of a port that is allowed to send and receive frames from any other port on the VLAN.

Host Ports:

- o Isolated Port (I-Port): Connects to the regular host that resides on isolated VLAN. This port communicates only with P-Ports.
- o Community Port (C-Port): Connects to the regular host that resides on community VLAN. This port communicates with P-Ports and ports on the same community VLAN.

Reference: http://en.wikipedia.org/wiki/Private_VLAN

NEW QUESTION: 102

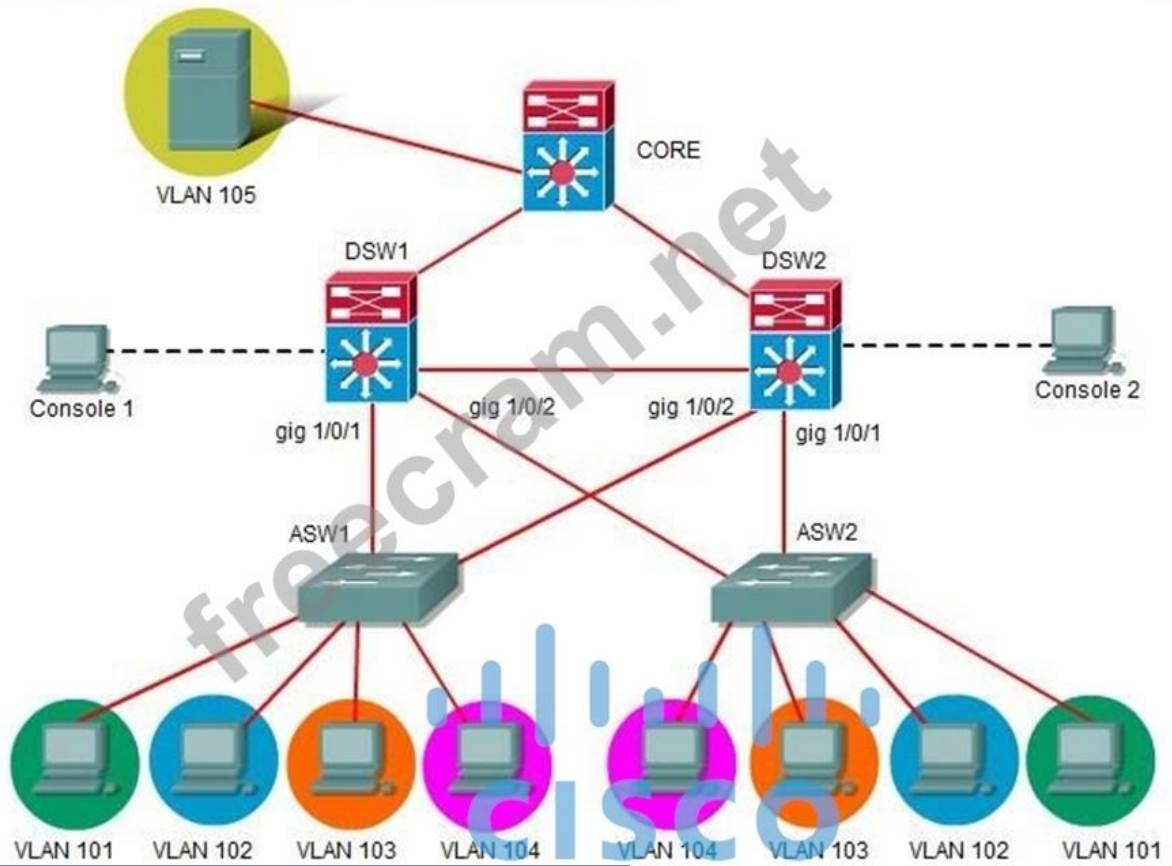
Ferris Plastics, Inc. is a medium sized company, with an enterprise network (access, distribution and core switches) that provides LAN connectivity from user PCs to corporate servers. The distribution switches are configured to use HSRP to provide a high availability solution.

DSW1 -primary device for VLAN 101 VLAN 102 and VLAN 105

DSW2 - primary device for VLAN 103 and VLAN 104

A failure of GigabitEthernet1/0/1 on primary device should cause the primary device to release its status as the primary device, unless GigabitEthernet1/0/1 on backup device has also failed.

Troubleshooting has identified several issues. Currently all interfaces are up. Using the running configurations and show commands, you have been asked to investigate and respond to the following question.





What is the priority value of the VLAN 105 HSRP group on DSW2?

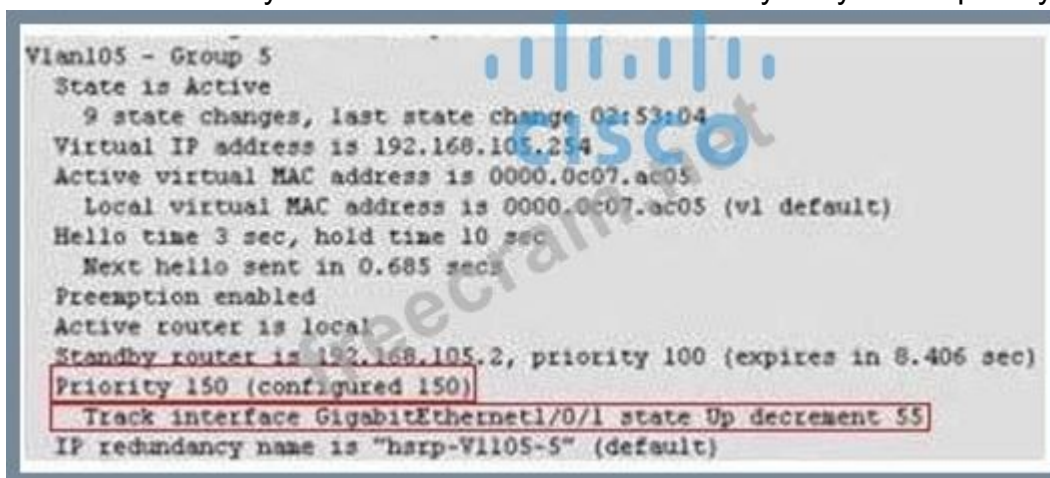
- A. 50
- B. 100
- C. 150
- D. 200

Answer: B ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

Use "show standby brief" command on console2. Very easy to see priority of Vlan105 is 100.



NEW QUESTION: 103

Which technique automatically limits VLAN traffic to only the switches that require it?

- A. access lists

- B. DTP in nonegotiate
- C. VTP pruning
- D. PBR

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

VTP pruning enhances network bandwidth use by reducing unnecessary flooded traffic, such as broadcast, multicast, unknown, and flooded unicast packets to only the switches that require it. VTP pruning increases available bandwidth by restricting flooded traffic to those trunk links that the traffic must use to access the appropriate network devices. By default, VTP pruning is disabled.

Reference:

<http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst6500/ios/12-2SX/configuration/guide/book/vtp.html#wp1020444>

NEW QUESTION: 104

A switch is added into the production network to increase port capacity. A network engineer is configuring the switch for DHCP snooping and IP Source Guard, but is unable to configure ip verify source under several of the interfaces. Which option is the cause of the problem?

- A. The local DHCP server is disabled prior to enabling IP Source Guard.
- B. The interfaces are configured as Layer 3 using the no switchport command.
- C. No VLANs exist on the switch and/or the switch is configured in VTP transparent mode.
- D. The switch is configured for sdm prefer routing as the switched database management template.
- E. The configured SVIs on the switch have been removed for the associated interfaces.

Answer: B ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

IP source guard is a security feature that restricts IP traffic on nonrouted, Layer 2 interfaces by filtering traffic based on the DHCP snooping binding database and on manually configured IP source bindings. You can use IP source guard to prevent traffic attacks caused when a host tries to use the IP address of its neighbor.

You can enable IP source guard when DHCP snooping is enabled on an untrusted interface. After IP source guard is enabled on an interface, the switch blocks all IP traffic received on the interface, except for DHCP packets allowed by DHCP snooping. A port access control list (ACL) is applied to the interface. The port ACL allows only IP traffic with a source IP address in the IP source binding table and denies all other traffic.

The IP source binding table has bindings that are learned by DHCP snooping or are manually configured (static IP source bindings). An entry in this table has an IP address, its associated MAC address, and its associated VLAN number. The switch uses the IP source binding table only when IP source guard is enabled.

IP source guard is supported only on Layer 2 ports, including access and trunk ports. You can configure IP source guard with source IP address filtering or with source IP and MAC address filtering.

Reference: http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3550/software/release/12-2_25_see/configuration/guide/3550SCG/swdhcp82.html#wp1069615

NEW QUESTION: 105

SWITCH.com is an IT company that has an existing enterprise network comprised of two layer 2 only switches; DSW1 and ASW1. The topology diagram indicates their layer 2 mapping. VLAN 20 is a new VLAN that will be used to provide the shipping personnel access to the server.

Corporate policies do not allow layer 3 functionality to be enabled on the switches. For security reasons, it is necessary to restrict access to VLAN 20 in the following manner:

- * Users connecting to VLAN 20 via portfO/1 on ASW1 must be authenticated before they are given access to the network. Authentication is to be done via a Radius server:

- * Radius server host: 172.120.40.46

- * Radius key: rad123

- * Authentication should be implemented as close to the host as possible.

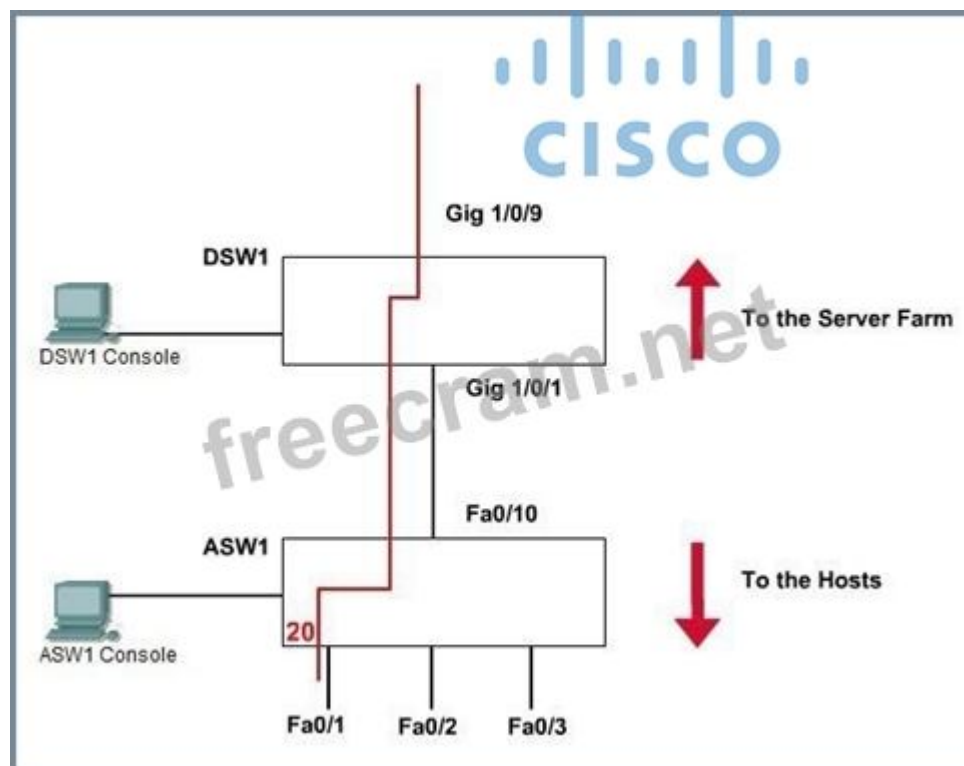
- * Devices on VLAN 20 are restricted to the subnet of 172.120.40.0/24.

- * Packets from devices in the subnet of 172.120.40.0/24 should be allowed on VLAN 20.

- * Packets from devices in any other address range should be dropped on VLAN 20.

- * Filtering should be implemented as close to the serverfarm as possible.

The Radius server and application servers will be installed at a future date. You have been tasked with implementing the above access control as a pre-condition to installing the servers. You must use the available IOS switch features.



ASW1 Console

freecram.net



ASW1>

ASW1 Console



freecram.net

ASW1>

Answer:

The configuration:

Explanation/Reference:

Step1: Console to ASW1 from PC console 1

```
ASW1(config)#aaa new-model
```

```
ASW1(config)#radius-server host 172.120.39.46 key rad123
```

```
ASW1(config)#aaa authentication dot1x default group radius
```

```
ASW1(config)#dot1x system-auth-control
```

```
ASW1(config)#inter fastEthernet 0/1
```

```
ASW1(config-if)#switchport mode access
```

```
ASW1(config-if)#dot1x port-control auto
```

```
ASW1(config-if)#exit
```

```
ASW1#copy run start
```

Step2: Console to DSW1 from PC console 2

```
DSW1(config)#ip access-list standard 10
```

```
DSW1(config-ext-nacl)#permit 172.120.40.0 0.0.0.255
```

```
DSW1(config-ext-nacl)#exit
```

```
DSW1(config)#vlan access-map PASS 10
```

```
DSW1(config-access-map)#match ip address 10
```

```
DSW1(config-access-map)#action forward
```

```
DSW1(config-access-map)#exit
```

```
DSW1(config)#vlan access-map PASS 20
```

```
DSW1(config-access-map)#action drop
```

```
DSW1(config-access-map)#exit
```

```
DSW1(config)#vlan filter PASS vlan-list 20
```

```
DSW1#copy run start
```

Question Set 1

NEW QUESTION: 106

A network engineer is trying to deploy a PC on a network. The engineer observes that when the PC is connected to the network, it takes 30 to 60 seconds for the PC to see any activity on the network interface card. Which Layer 2 enhancement can be used to eliminate this delay?

- A. Configure port duplex and speed to auto negotiation.
- B. Configure port to duplex full and speed 1000.
- C. Configure spanning-tree portfast.
- D. Configure no switchport.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

When first powered on, each port goes through 4 states to ensure that there are no physical loops in the layer 2 broadcast domain. These steps are outlined as follows. With the initial version of spanning tree, this process could take from 30-60 seconds. 1.Blocking - A port that would cause a

switching loop, no user data is sent or received but it may go into forwarding mode if the other links in use were to fail and the spanning tree algorithm determines the port may transition to the forwarding state. BPDU data is still received in blocking state.

2. Listening - The switch processes BPDUs and awaits possible new information that would cause it to return to the blocking state.

3. Learning - While the port does not yet forward frames (packets) it does learn source addresses from frames received and adds them to the filtering database (switching database)

4. Forwarding - A port receiving and sending data, normal operation. STP still monitors incoming BPDUs that would indicate it should return to the blocking state to prevent a loop.

STP PortFast causes a Layer 2 LAN interface configured as an access port to enter the forwarding state immediately, bypassing the listening and learning states. Reference:

<http://net.cmed.us/Home/ethernet-and-ip/spanning-tree-protocol>

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NEW QUESTION: 107

Which SDM template is the most appropriate for a Layer 2 switch that provides connectivity to a large number of clients?

- A. VLAN
- B. default
- C. access
- D. routing

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

To allocate ternary content addressable memory (TCAM) resources for different usages, the switch SDM templates prioritize system resources to optimize support for certain features. You can select SDM templates to optimize these features:

Access--The access template maximizes system resources for access control lists (ACLs) to accommodate a large number of ACLs.

Default--The default template gives balance to all functions.

Routing--The routing template maximizes system resources for IPv4 unicast routing, typically required

for a router or aggregator in the center of a network.

VLANs--The VLAN template disables routing and supports the maximum number of unicast MAC addresses (clients). It would typically be selected for a Layer 2 switch.

Reference:

http://www.cisco.com/en/US/docs/switches/lan/catalyst3560/software/release/12.2_55_se/configuration/guide/swsdm.pdf

NEW QUESTION: 108

What is the default HSRP priority?

- A. 50
- B. 100
- C. 120
- D. 1024

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

standby [group-num- Set a priority value used in choosing the active router. The ber] priority priority range is 1 to 255; the default priority is 100. The highest [preempt [delay delay]] number represents the highest priority.

(Optional) group-number--The group number to which the command applies.

(Optional) preempt--Select so that when the local router has a higher priority than the active router, it assumes control as the active router.

(Optional) delay--Set to cause the local router to post- pone taking over the active role for the shown

number of sec- onds. The range is 0 to 36000 (1 hour); the default is 0 (no de- lay before taking over).

Use the no form of the command to restore the default values.

Reference:

http://www.cisco.com/en/US/docs/switches/lan/catalyst3550/software/release/12.1_19_ea1/configuration/guide/swhsrp.html#wp1044327

NEW QUESTION: 109

Which command creates a login authentication method named "login" that will primarily use RADIUS and fail over to the local user database?

- A. (config)# aaa authentication login default radius local
- B. (config)# aaa authentication login login radius local
- C. (config)# aaa authentication login default local radius
- D. (config)# aaa authentication login radius local

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

In the command "aaa authentication login login radius local" the second login is the name of the AAA method. It also lists radius first then local, so it will primarily use RADIUS for authentication and fail over to the local user database only if the RADIUS server is unreachable.

NEW QUESTION: 110

What is the maximum number of virtual MAC addresses that GLBP allows per group?

- A. 2
- B. 4
- C. 6
- D. 8

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

GLBP Virtual MAC Address Assignment

A GLBP group allows up to four virtual MAC addresses per group. The AVG is responsible for assigning the virtual MAC addresses to each member of the group. Other group members request a virtual MAC address after they discover the AVG through hello messages. Gateways are assigned the next MAC address in sequence. A virtual forwarder that is assigned a virtual MAC address by the AVG is known as a primary virtual forwarder. Other members of the GLBP group learn the virtual MAC addresses from hello messages. A virtual forwarder that has learned the virtual MAC address is referred to as a secondary virtual forwarder.

Reference:

http://www.cisco.com/en/US/docs/ios/12_2t/12_2t15/feature/guide/ft_glb主.html#wp1039651

NEW QUESTION: 111

Which First Hop Redundancy Protocol is an IEEE Standard?

- A. GLBP
- B. HSRP
- C. VRRP
- D. OSPF

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

A comparison of the three First Hop Redundancy Protocols are listed below:

GLBP

HSRP VRRP

Protocol

(Gateway Load

(Hot Standby Router (Virtual Redundancy

Features

Balancing Pro-

protocol) Router Protocol)

tol)

- 1 AVG (Ac-

tive Virtual

Gateway).- up

to 4 AVF

routers on the

- 1 active router.- 1 group (Active

- 1 master router.- 1

standby router.- 1 or Virtual For-

or more backup

more listening warder) passing

routers.

routers. traffic.- up to

Router role

1024 virtual

routers (GLBP

groups) per

physical inter-

face.

- Can use real router

- Use virtual ip address, if not, the - Use virtual ip address. one with highest priority become master.

Cisco propri-

etary Cisco proprietary IEEE standard

etary

Active Virtual

Active Router: Master Router: (*) Gateway:

1-Highest Priority 1-Highest Priority 1-Highest Pri-

Election

2-Highest IP 2-Highest IP ority

(tiebreaker) (tiebreaker) 2-Highest IP

(tiebreaker)

Tracking yes yes yes

Optimization

Preempt yes yes yes

features

Timer ad-

yes yes yes

justments

Traffic type 224.0.0.2 udp 1985 224.0.0.18 IP 112 224.0.0.102 udp (version1) 3222

224.0.0.102-udp 1985

(version2)

Advertisement 1 Hello 3 sec-

Hello 3 seconds

second onds

(Master Down Inter-

Timers val)3 * Advertisement

(Hold) 10 sec-

+ skew time

(Hold) 10 seconds

onds

(Skew time)(256-pri-

ority) / 256

Load-balancing

oriented-

Weighted algo-

- Multiple HSRP - Multiple VRRP

rithm.- Host-de-

group per in- group per in-

pendent algo-

terface/SVI/routed terface/SVI/routed

rithm.

int. int.

- Round-Robin

algorithm (de-

fault).

Load-balancing functional-

Clients are

ity

transparently

updated with

Requires appropriate Requires appropriate

virtual MAC

distribution of Virtual distribution of Virtual

according to

GW IP per Clients for GW IP per Clients for

load-balancing

optimal load-balanc- optimal load-balanc-

algorithm

ing.(generally through ing.(generally through

through ARP

DHCP) DHCP)

requesting a

unique virtual

gateway.

Reference: <http://cciethebeginning.wordpress.com/2008/08/23/router-high-availability-protocol-comparison-2/>

NEW QUESTION: 112

Which statement about using EtherChannel on Cisco IOS switches is true?

A. A switch can support up to eight compatibly configured Ethernet interfaces in an EtherChannel. The EtherChannel provides full-duplex bandwidth up to 800 Mbps only for Fast EtherChannel or 8 Gbps only for Gigabit EtherChannel.

B. A switch can support up to 10 compatibly configured Ethernet interfaces in an EtherChannel. The EtherChannel provides full-duplex bandwidth up to 1000 Mbps only for Fast EtherChannel or 8 Gbps only for Gigabit EtherChannel.

C. A switch can support up to eight compatibly configured Ethernet interfaces in an EtherChannel. The EtherChannel provides full-duplex bandwidth up to 800 Mbps only for Fast EtherChannel or 16 Gbps only for Gigabit EtherChannel.

D. A switch can support up to 10 compatibly configured Ethernet interfaces in an EtherChannel. The EtherChannel provides full-duplex bandwidth up to 1000 Mbps only for Fast EtherChannel or 10 Gbps only for Gigabit EtherChannel.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

An EtherChannel consists of individual Fast Ethernet or Gigabit Ethernet links bundled into a single logical link. The EtherChannel provides full-duplex bandwidth up to 800 Mbps (Fast EtherChannel) or 8 Gbps (Gigabit EtherChannel) between your switch and another switch or host. Each EtherChannel can consist of up to eight compatibly configured Ethernet interfaces. All interfaces in each EtherChannel must be the same speed, and all must be configured as either Layer 2 or Layer 3 interfaces.

Reference: <http://www.cisco.com/c/en/us/support/docs/lan-switching/etherchannel/12023-4.html>

NEW QUESTION: 113

Which technique allows specific VLANs to be strictly permitted by the administrator?

A. VTP pruning

B. transparent bridging

C. trunk allowed VLANs

D. VLAN access-list

E. L2P tunneling

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

By default, a trunk port sends traffic to and receives traffic from all VLANs. All VLAN IDs, 1 to 4094, are allowed on each trunk. However, you can remove VLANs from the allowed list, preventing traffic from those VLANs from passing over the trunk. To restrict the traffic a trunk carries, use the "switchport trunk allowed vlan remove vlan-list" interface configuration command to remove specific VLANs from the allowed list.

Reference:

http://www.cisco.com/en/US/docs/switches/lan/catalyst3550/software/release/12.1_13_ea1/configuration/guide/swvlan.html

NEW QUESTION: 114

Which action allows a network engineer to limit a default VLAN from being propagated across all trunks?

- A. Upgrade to VTP version 3 for advanced feature set support.
- B. Enable VTP pruning on the VTP server.
- C. Manually prune default VLAN with switchport trunk allowed vlans remove.
- D. Use trunk pruning vlan 1.

Answer: C ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

Manually pruning the default VLAN (1) can only be done with the "switchport trunk allowed vlans remove" command. VLAN 1 is not VTP pruning eligible so it cannot be done via VTP pruning. The "trunk pruning vlan 1" option is not a valid command.

NEW QUESTION: 115

SIMULATION

SWITCH.com is an IT company that has an existing enterprise network comprised of two layer 2 only switches; DSW1 and ASW1. The topology diagram indicates their layer 2 mapping. VLAN 20 is a new VLAN that will be used to provide the shipping personnel access to the server. Corporate policies do not allow layer 3 functionality to be enabled on the switches. For security reasons, it is necessary to restrict access to VLAN 20 in the following manner:

Users connecting to VLAN 20 via portfO/1 on ASW1 must be authenticated before they are given access to the network. Authentication is to be done via a Radius server:

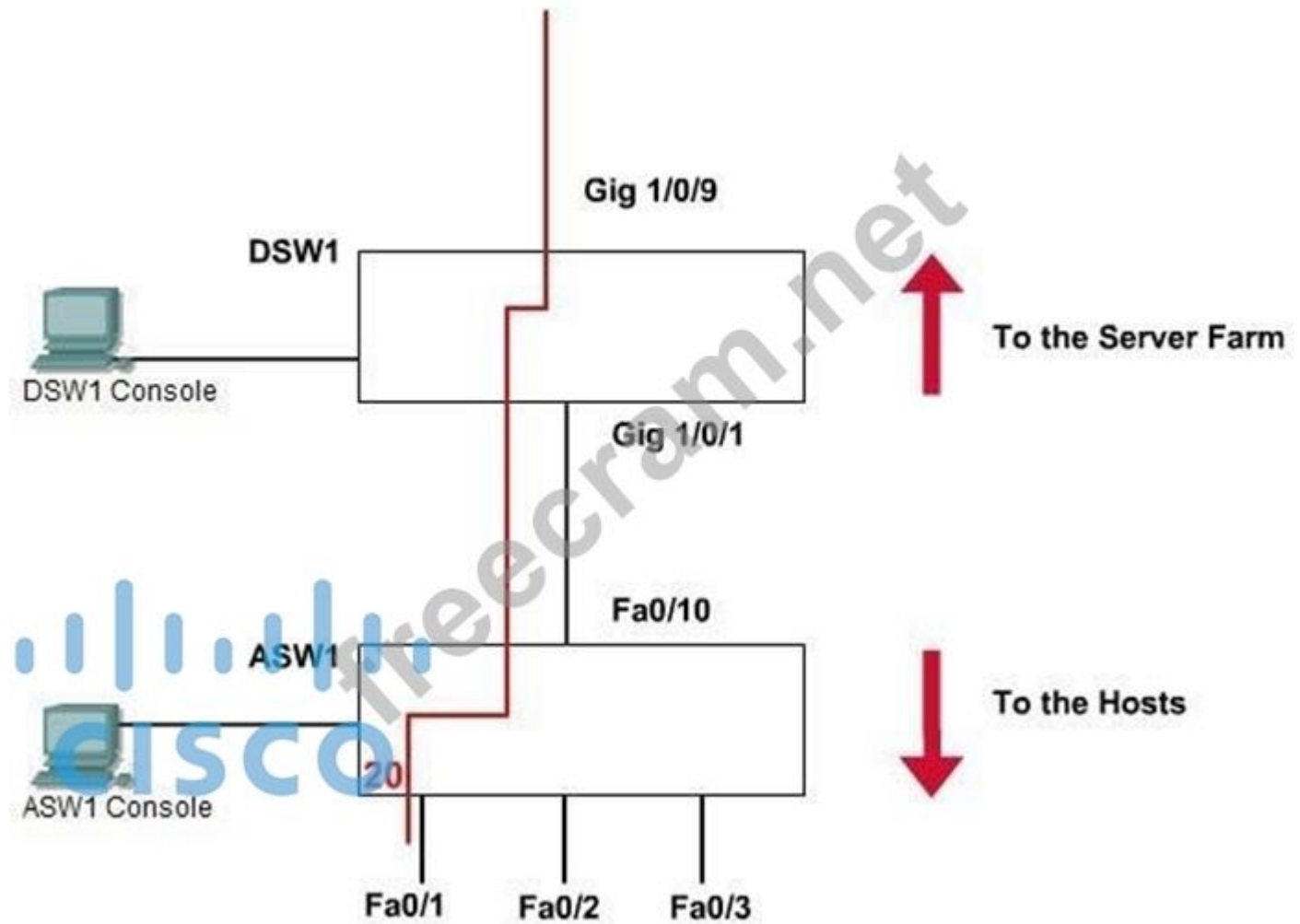
Radius server host: 172.120.40.46

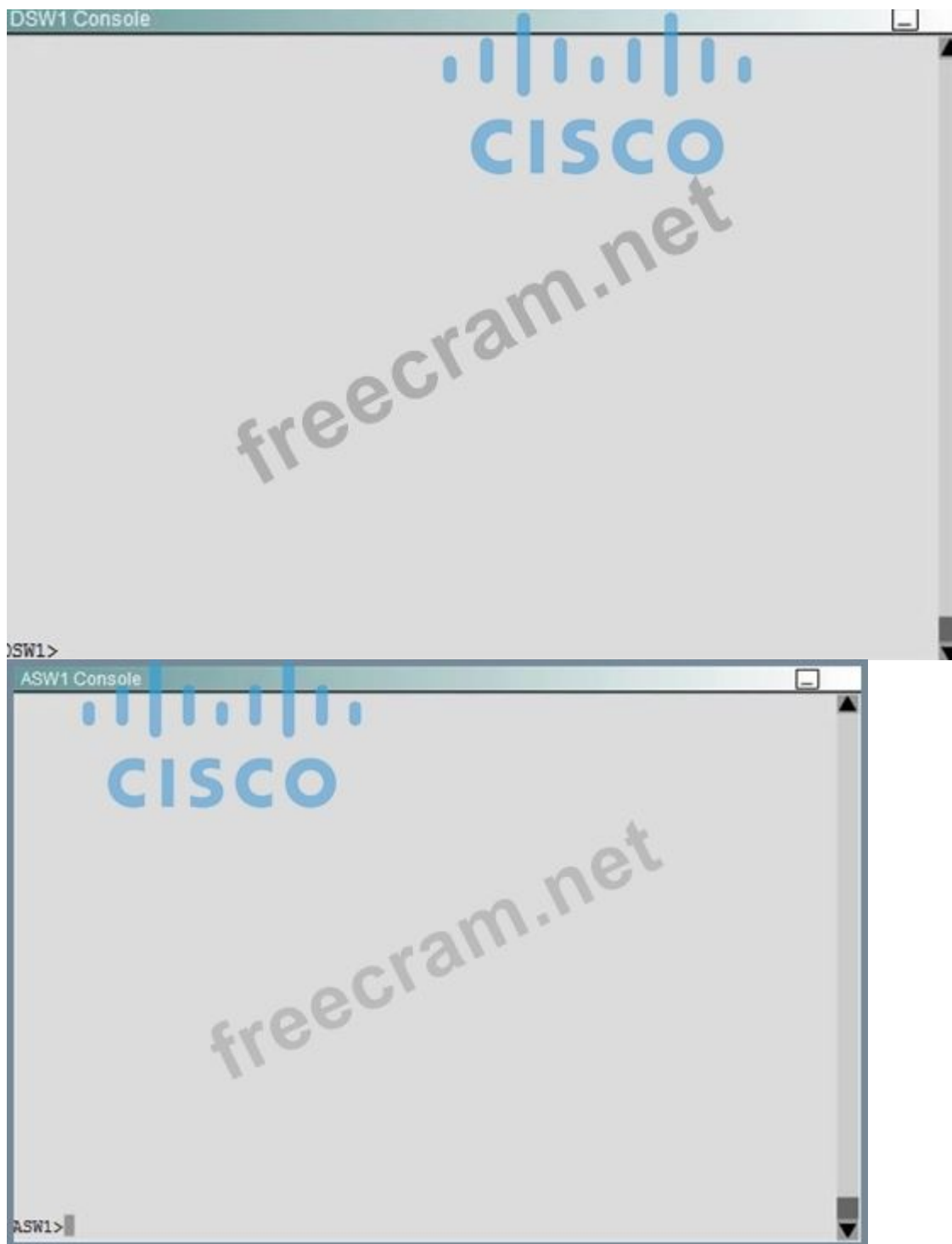
Radius key: rad123

Authentication should be implemented as close to the host as possible. Devices on VLAN 20 are restricted to the subnet of 172.120.40.0/24. Packets from devices in the subnet of 172.120.40.0/24

should be allowed on VLAN 20. Packets from devices in any other address range should be dropped on VLAN

20. Filtering should be implemented as close to the serverfarm as possible. The Radius server and application servers will be installed at a future date. You have been tasked with implementing the above access control as a pre-condition to installing the servers. You must use the available IOS switch features.





Answer:

The configuration:

Step1: Console to ASW1 from PC console 1

```
ASW1(config)#aaa new-model
```

```
ASW1(config)#radius-server host 172.120.39.46 key rad123
```

```
ASW1(config)#aaa authentication dot1x default group radius
```

```
ASW1(config)#dot1x system-auth-control
```

```
ASW1(config)#inter fastEthernet 0/1
```

```
ASW1(config-if)#switchport mode access
```

```
ASW1(config-if)#dot1x port-control auto
```

```
ASW1(config-if)#exit
ASW1#copy run start
Step2: Console to DSW1 from PC console 2
DSW1(config)#ip access-list standard 10
DSW1(config-ext-nacl)#permit 172.120.40.0 0.0.0.255
DSW1(config-ext-nacl)#exit
DSW1(config)#vlan access-map PASS 10
DSW1(config-access-map)#match ip address 10
DSW1(config-access-map)#action forward
DSW1(config-access-map)#exit
DSW1(config)#vlan access-map PASS 20
DSW1(config-access-map)#action drop
DSW1(config-access-map)#exit
DSW1(config)#vlan filter PASS vlan-list 20
DSW1#copy run start
```

NEW QUESTION: 116

An access switch has been configured with an EtherChannel port. After configuring SPAN to monitor this port, the network administrator notices that not all traffic is being replicated to the management server.

What is a cause for this issue?

- A.** VLAN filters are required to ensure traffic mirrors effectively.
- B.** SPAN encapsulation replication must be enabled to capture EtherChannel destination traffic.
- C.** The port channel can be used as a SPAN source, but not a destination.
- D.** RSPAN must be used to capture EtherChannel bidirectional traffic.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

A source port or EtherChannel is a port or EtherChannel monitored for traffic analysis. You can configure both Layer 2 and Layer 3 ports and EtherChannels as SPAN sources. SPAN can monitor one or more source ports or EtherChannels in a single SPAN session. You can configure ports or EtherChannels in any VLAN as SPAN sources. Trunk ports or EtherChannels can be configured as sources and mixed with nontrunk sources. A port-channel interface (an EtherChannel) can be a SPAN source, but not a destination. Reference:

<http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst6500/ios/12-2SX/configuration/guide/book/span.html#wp1040905>

NEW QUESTION: 117

A network engineer notices inconsistent Cisco Discovery Protocol neighbors according to the diagram that is provided. The engineer notices only a single neighbor that uses Cisco Discovery

Protocol, but it has several routing neighbor relationships. What would cause the output to show only the single neighbor?

- A. The routers are connected via a Layer 2 switch.
- B. IP routing is disabled on neighboring devices.
- C. Cisco Express Forwarding is enabled locally.
- D. Cisco Discovery Protocol advertisements are inconsistent between the local and remote devices.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

If all of the routers are connected to each other using a layer 2 switch, then each router will only have the single switch port that it connects to as its neighbor. Even though multiple routing neighbors can be formed over a layer 2 network, only the physical port that it connects to will be seen as a CDP neighbor. CDP can be used to determine the physical topology, but not necessarily the logical topology.

NEW QUESTION: 118

Which option lists the modes that are available for configuring UDLD on a Cisco switch?

- A. normal and aggressive
- B. active and aggressive
- C. normal and active
- D. normal and passive
- E. normal and standby

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

The Cisco-proprietary UDLD protocol monitors the physical configuration of the links between devices and ports that support UDLD. UDLD detects the existence of unidirectional links. When a unidirectional link is detected, UDLD puts the affected port into the errdisabled state and alerts the user. UDLD can operate in either normal or aggressive mode.

Reference:

<http://www.cisco.com/en/US/docs/switches/lan/catalyst6500/ios/12.2SX/configuration/guide/udld.html>

NEW QUESTION: 119

Which statement about LLDP-MED is true?

- A. LLDP-MED is an extension to LLDP that operates between endpoint devices and network devices.
- B. LLDP-MED is an extension to LLDP that operates only between network devices.
- C. LLDP-MED is an extension to LLDP that operates only between endpoint devices.
- D. LLDP-MED is an extension to LLDP that operates between routers that run BGP.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

LLDP for Media Endpoint Devices (LLDP-MED) is an extension to LLDP that operates between endpoint devices such as IP phones and network devices such as switches. It specifically provides support for voice over IP (VoIP) applications and provides additional TLVs for capabilities discovery, network policy, Power over Ethernet, and inventory management.

Reference:

http://www.cisco.com/en/US/docs/switches/metro/me3400/software/release/12.2_58_se/configuration/guide/swlldp.pdf

NEW QUESTION: 120

A network engineer has just deployed a non-Cisco device in the network and wants to get information about it from a connected device. Cisco Discovery Protocol is not supported, so the open standard protocol must be configured. Which protocol does the network engineer configure on both devices to accomplish this?

- A. IRDP
- B. LLDP
- C. NDP
- D. LLTD

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

The Link Layer Discovery Protocol (LLDP) is a vendor-neutral link layer protocol in the Internet Protocol Suite used by network devices for advertising their identity, capabilities, and neighbors on an IEEE 802 local area network, principally wired Ethernet. LLDP performs functions similar to several proprietary protocols, such as the Cisco Discovery Protocol (CDP). Reference:

http://en.wikipedia.org/wiki/Link_Layer_Discovery_Protocol

NEW QUESTION: 121

Which statement about Cisco Discovery Protocol configuration on a Cisco switch is true?

- A. CDP is enabled by default and can be disabled globally with the command `no cdp run`.
- B. CDP is disabled by default and can be enabled globally with the command `cdp enable`.
- C. CDP is enabled by default and can be disabled globally with the command `no cdp enable`.
- D. CDP is disabled by default and can be enabled globally with the command `cdp run`.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

CDP is enabled on your router by default, which means the Cisco IOS software will receive CDP information. CDP also is enabled on supported interfaces by default. To disable CDP on an

interface, use the "no cdp enable interface" configuration command. To disable it globally, use the "no cdp run" command.

Reference:

http://www.cisco.com/en/US/docs/ios/12_2/configfun/command/reference/frf015.html#wp10175

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NEW QUESTION: 122

Which statement about Cisco devices learning about each other through Cisco Discovery Protocol is true?

- A. Each device sends periodic advertisements to multicast address 01:00:0C:CC:CC:CC.
- B. Each device broadcasts periodic advertisements to all of its neighbors.
- C. Each device sends periodic advertisements to a central device that builds the network topology.
- D. Each device sends periodic advertisements to all IP addresses in its ARP table.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

Cisco devices send periodic CDP announcements to the multicast destination address 01-00-0c-cc-cc-cc, out each connected network interface. These multicast packets may be received by Cisco switches and other networking devices that support CDP into their connected network interface.

Reference: <http://network.spravcesite.net/subdom/network/index.php?id=cdp>

NEW QUESTION: 123

Which SDM template disables routing and supports the maximum number of unicast MAC addresses?

- A. VLAN
- B. access
- C. default
- D. routing

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

To allocate ternary content addressable memory (TCAM) resources for different usages, the switch SDM templates prioritize system resources to optimize support for certain features. You can select SDM templates to optimize these features:

Access--The access template maximizes system resources for access control lists (ACLs) to accommodate a large number of ACLs.

Default--The default template gives balance to all functions.

Routing--The routing template maximizes system resources for IPv4 unicast routing, typically required

for a router or aggregator in the center of a network.

VLANs--The VLAN template disables routing and supports the maximum number of unicast MAC addresses. It would typically be selected for a Layer 2 switch.

Reference:

http://www.cisco.com/en/US/docs/switches/lan/catalyst3560/software/release/12.2_55_se/configuration/guide/swsdm.pdf

NEW QUESTION: 124

Refer to the exhibit.

```
Switch1 (config)#vlan 10
VTP vlan configuration not allowed when device is in CLIENT mode.
Switch1#show interfaces trunk
Switch1#
```

The users in an engineering department that connect to the same access switch cannot access the network. The network engineer found that the engineering VLAN is missing from the database. Which action resolves this problem?

- A. Disable VTP pruning and disable 802.1q.
- B. Update the VTP revision number.
- C. Change VTP mode to server and enable 802.1q.
- D. Enable VTP pruning and disable 802.1q.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

Only VTP servers can add new VLANs to the switched network, so to enable vlan 10 on this switch you will first need to change the VTP mode from client to server. Then, you will need to enable 802.1Q trunking to pass this new VLAN along to the other switches.

NEW QUESTION: 125

After implementing VTP, the extended VLANs are not being propagated to other VTP switches. What should be configured for extended VLANs?

- A. VTP does not support extended VLANs and should be manually added to all switches.
- B. Enable VTP version 3, which supports extended VLAN propagation.

C. VTP authentication is required when using extended VLANs because of their ability to cause network instability.

D. Ensure that all switches run the same Cisco IOS version. Extended VLANs will not propagate to different IOS versions when extended VLANs are in use.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

VTP version 1 and VTP version 2 do not propagate configuration information for extended-range VLANs (VLAN numbers 1006 to 4094). You must configure extended-range VLANs manually on each network device.

VTP version 3 supports extended-range VLANs (VLAN numbers 1006 to 4094). If you convert from

VTP version 3 to VTP version 2, the VLANs in the range 1006 to 4094 are removed from VTP control.

Reference:

[http://www.cisco.com/en/US/docs/switches/lan/catalyst6500/ios/15.1SY/config_guide/sup2T/vtp .pdf](http://www.cisco.com/en/US/docs/switches/lan/catalyst6500/ios/15.1SY/config_guide/sup2T/vtp.pdf)

NEW QUESTION: 126

If a network engineer applies the command `mac-address-table notification mac-move` on a Cisco switch port, when is a syslog message generated?

A. A MAC address or host moves between different switch ports.

B. A new MAC address is added to the content-addressable memory.

C. A new MAC address is removed from the content-addressable memory.

D. More than 64 MAC addresses are added to the content-addressable memory.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

`mac-address-table notification mac-move`

To enable MAC-move notification, use the `mac-address-table notification mac-move` command in global configuration mode. To disable MAC-move notification, use the `no` form of this command.

`mac-address-table notification mac-move [counter [syslog]] no mac-address-table notification mac-move`

`[counter [syslog]]` Syntax Description

`counter` (Optional) Specifies the MAC-move counter feature. `syslog` (Optional) Specifies the syslogging facility when the MAC-move notification detects the first instance of the MAC move.

Usage Guidelines

MAC-move notification generates a syslog message whenever a MAC address or host moves between different switch ports.

Reference: http://www.cisco.com/en/US/docs/ios/lanswitch/command/reference/lsw_m1.html

NEW QUESTION: 127

What does the command `vlan dot1q tag native` accomplish when configured under global configuration?

- A. All frames within the native VLAN are tagged, except when the native VLAN is set to 1.
- B. It allows control traffic to pass using the non-default VLAN.
- C. It removes the 4-byte dot1q tag from every frame that traverses the trunk interface(s).
- D. Control traffic is tagged.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

The "vlan dot1q tag native" will tag all untagged frames, including control traffic, with the defined native VLAN.

NEW QUESTION: 128

Which private VLAN can have only one VLAN and be a secondary VLAN that carries unidirectional traffic upstream from the hosts toward the promiscuous ports and the gateway?

- A. isolated VLAN
- B. primary VLAN
- C. community VLAN
- D. promiscuous VLAN

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

Understanding Primary, Isolated, and Community Private VLANs Primary VLANs and the two types of secondary VLANs (isolated and community) have these characteristics:

Primary VLAN-- The primary VLAN carries traffic from the promiscuous ports to the host ports, both

isolated and community, and to other promiscuous ports.

Isolated VLAN --An isolated VLAN is a secondary VLAN that carries unidirectional traffic upstream from

the hosts toward the promiscuous ports. You can configure multiple isolated VLANs in a private VLAN domain; all the traffic remains isolated within each one. Each isolated VLAN can have several isolated ports, and the traffic from each isolated port also remains completely separate.

Community VLAN--A community VLAN is a secondary VLAN that carries upstream traffic from the community ports to the promiscuous port and to other host ports in the same community. You can configure multiple community VLANs in a private VLAN domain. The ports within one community can communicate, but these ports cannot communicate with ports in any other community or isolated VLAN in the private VLAN.

Reference:

<http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/configuration/guide/cli/CLIConfigurationGuide/PrivateVLANs.html>

NEW QUESTION: 129

Which command correctly configures standby tracking for group 1 using the default decrement priority value?

- A. standby 1 track 100
- B. standby 1 track 100 decrement 1
- C. standby 1 track 100 decrement 5
- D. standby 1 track 100 decrement 20

Answer: ([SHOW ANSWER](#))

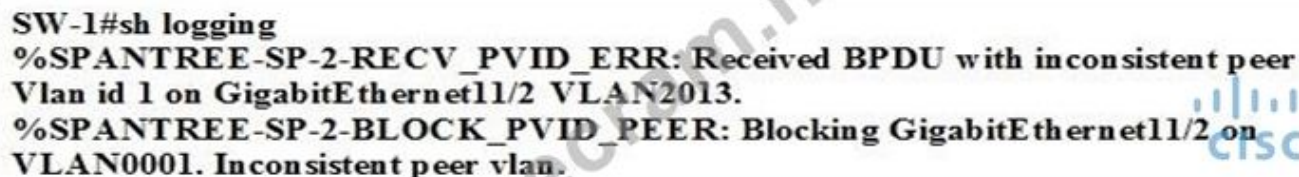
Explanation/Reference:

Explanation:

The default decrement value for HSRP standby tracking is 10. There is no need to explicitly state the value if the desired value is the default value.

NEW QUESTION: 130

Refer to the exhibit.



```
SW-1#sh logging
%SPANTREE-SP-2-RECV_PVID_ERR: Received BPDU with inconsistent peer
Vlan id 1 on GigabitEthernet11/2 VLAN2013.
%SPANTREE-SP-2-BLOCK_PVID_PEER: Blocking GigabitEthernet11/2 on
VLAN0001. Inconsistent peer vlan.
```

A multilayer switch has been configured to send and receive encapsulated and tagged frames. VLAN 2013 on the multilayer switch is configured as the native VLAN. Which option is the cause of the spanning-tree error?

- A. VLAN spanning-tree in SW-2 is configured.
- B. spanning-tree bpd-filter is enabled.
- C. 802.1q trunks are on both sides, both with native VLAN mismatch.
- D. VLAN ID 1 should not be used for management traffic because its unsafe.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Here we see that the native VLAN has been configured as 2013 on one switch, but 1 (the default native VLAN) on the other switch. If you use 802.1Q trunks, you must ensure that you choose a common native VLAN for each port in the trunk. Failure to do this causes Cisco switches to partially shut down the trunk port because having mismatched native VLANs can result in spanning-tree loops. Native VLAN mismatches are detected via spanning tree and Cisco Discovery Protocol (CDP), not via DTP messages. If spanning tree detects a native VLAN mismatch, spanning tree blocks local native VLAN traffic and the remote switch native VLAN traffic on the trunk; however, the trunk still remains up for other VLANs.

Reference: http://www.informit.com/library/content.aspx?b=CCNP_Studies_Switching&seqNum=25

NEW QUESTION: 131

Ferris Plastics, Inc. is a medium sized company, with an enterprise network (access, distribution and core switches) that provides LAN connectivity from user PCs to corporate servers. The distribution switches are configured to use HSRP to provide a high availability solution.

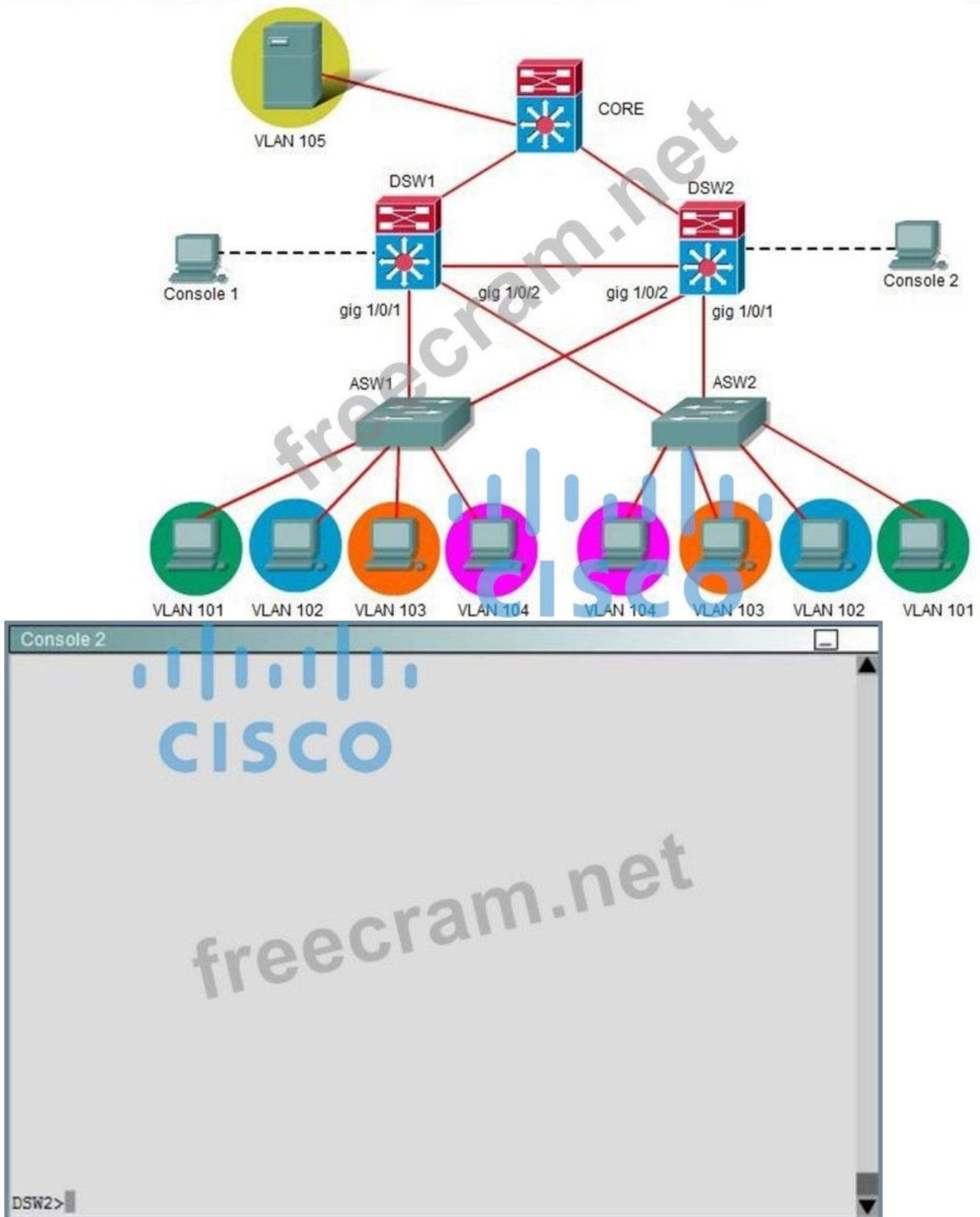
DSW1 -primary device for VLAN 101 VLAN 102 and VLAN 105

DSW2 - primary device for VLAN 103 and VLAN 104

A failure of GigabitEthernet1/0/1 on primary device should cause the primary device to release its status as the primary device, unless GigabitEthernet1/0/1 on backup device has also failed.

Troubleshooting has identified several issues. Currently all interfaces are up. Using the running configurations and show commands, you have been asked to investigate and respond to the following question.





During routine maintenance, it became necessary to shut down the GigabitEthernet1/0/1 interface on DSW1 and DSW2. All other interfaces were up. During this time, DSW1 became the active router for the VLAN 104 HSRP group. As related to the VLAN 104 HSRP group, what can be done to make the group function properly?

- A. On DSW1, disable preempt.
- B. On DSW2 decrease the priority value to a value less than 150.
- C. On DSW1, increase the decrement value in the track command to a value greater than 6.
- D. On DSW1, decrease the decrement value in the track command to a value less than 1.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

```

interface Vlan104
ip address 192.168.104.1 255.255.255.0
standby 4 ip 192.168.104.254
standby 4 priority 150
standby 4 preempt
standby 4 track GigabitEthernet1/0/1 1
interface Vlan104
ip address 192.168.104.2 255.255.255.0
standby 4 ip 192.168.104.254
standby 4 priority 200
standby 4 preempt
standby 4 track GigabitEthernet1/0/1 55

```

We should NOT disable preempt on DS1. By do that, you will make Vlan104's HSRP group fail function.

Example: if we are disable preempt on DS1. It can not become active device when G1/0/1 on DS2 fail. In this question, G0/1/0 on DS1 & DS2 is shutdown. Vlan104 (left): 150 1 = 149. Vlan104 (right): 200 155

145. Result is priority 149 > 145 (Vlan104 on DS1 is active). If increase the decrement in the track value to a value greater than 6 (> or = 6). Vlan104 (left): 150 6 = 144. Result is priority 144 < 145 (vlan104 on DS2 is active).

NEW QUESTION: 132

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.

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

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/>

NEW QUESTION: 133

When you design a switched network using VTPv2, how many VLANs can be used to carry user traffic?

- A. 1000
- B. 1001
- C. 1024
- D. 2048
- E. 4095
- F. 4096

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

VTP versions 1 and 2 Supports normal VLAN numbers (1-1001). Only VTP version 3 supports extended VLANs (1-4095).

Reference: <http://cciememo.blogspot.com/2012/11/difference-between-vtp-versions.html>

NEW QUESTION: 134

A network engineer must set the load balance method on an existing port channel. Which action must be done to apply a new load balancing method?

- A. Configure the new load balancing method using port-channel load-balance.
- B. Adjust the switch SDM back to "default".
- C. Ensure that IP CEF is enabled globally to support all load balancing methods.
- D. Upgrade the PFC to support the latest load balancing methods.

Answer: A ([LEAVE A REPLY](#))

Explanation/Reference:

Example:

EtherChannel balances the traffic load across the links in a channel through the reduction of part of the binary pattern that the addresses in the frame form to a numerical value that selects one of the links in the channel. EtherChannel load balancing can use MAC addresses or IP addresses, source or destination addresses, or both source and destination addresses. The mode applies to all EtherChannels that are configured on the switch. You configure the load balancing and forwarding method with use of the port- channel load-balance {dst-ip | dst-mac | src-dst-ip | src-dst-mac | src-ip | src-mac} global configuration command. Reference:

<http://www.cisco.com/c/en/us/support/docs/lan-switching/etherchannel/12023-4.html>

NEW QUESTION: 135

Several new switches have been added to the existing network as VTP clients. All of the new switches have been configured with the same VTP domain, password, and version. However, VLANs are not passing from the VTP server (existing network) to the VTP clients. What must be done to fix this?

- A.** Remove the VTP domain name from all switches with "null" and then replace it with the new domain name.
- B.** Configure a different native VLAN on all new switches that are configured as VTP clients.
- C.** Provision one of the new switches to be the VTP server and duplicate information from the existing network.
- D.** Ensure that all switch interconnects are configured as trunks to allow VTP information to be transferred.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

VTP allows switches to advertise VLAN information between other members of the same VTP domain.

VTP allows a consistent view of the switched network across all switches. There are several reasons why the VLAN information can fail to be exchanged. Verify these items if switches that run VTP fail to exchange VLAN information:

VTP information only passes through a trunk port. Make sure that all ports that interconnect switches

- are configured as trunks and are actually trunking. Make sure that if EtherChannels are created between two switches, only Layer 2 EtherChannels propagate VLAN information.

Make sure that the VLANs are active in all the devices.

- One of the switches must be the VTP server in a VTP domain. All VLAN changes must be done on this

- switch in order to have them propagated to the VTP clients. The VTP domain name must match and it is case sensitive. CISCO and cisco are two different domain names.

Make sure that no password is set between the server and client. If any password is set, make sure

- that the password is the same on both sides.

Reference:

http://www.cisco.com/en/US/tech/tk389/tk689/technologies_tech_note09186a0080890613.shtml

NEW QUESTION: 136

What is the function of NSF?

- A.** forward traffic simultaneously using both supervisors
- B.** forward traffic based on Cisco Express Forwarding
- C.** provide automatic failover to back up supervisor in VSS mode
- D.** provide nonstop forwarding in the event of failure of one of the member supervisors

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

VSS is network system virtualization technology that pools multiple Cisco Catalyst 6500 Series Switches into one virtual switch, increasing operational efficiency, boosting nonstop communications, and scaling system bandwidth capacity to 1.4 Tbps. Switches would operate as a single logical virtual switch called a virtual switching system 1440 (VSS1440). VSS formed by two Cisco Catalyst 6500 Series Switches with the Virtual Switching Supervisor 720-10GE. In a VSS, the data plane and switch fabric with capacity of 720 Gbps of supervisor engine in each chassis are active at the same time on both chassis, combining for an active 1400-Gbps switching capacity per VSS. Only one of the virtual switch members has the active control plane. Both chassis are kept in sync with the inter-chassis Stateful Switchover (SSO) mechanism along with Nonstop Forwarding (NSF) to provide nonstop communication even in the event of failure of one of the member supervisor engines or chassis.

Reference: <http://ciscorouterswitch.over-blog.com/article-cisco-catalyst-6500-series-vss-1440-124536783.html>

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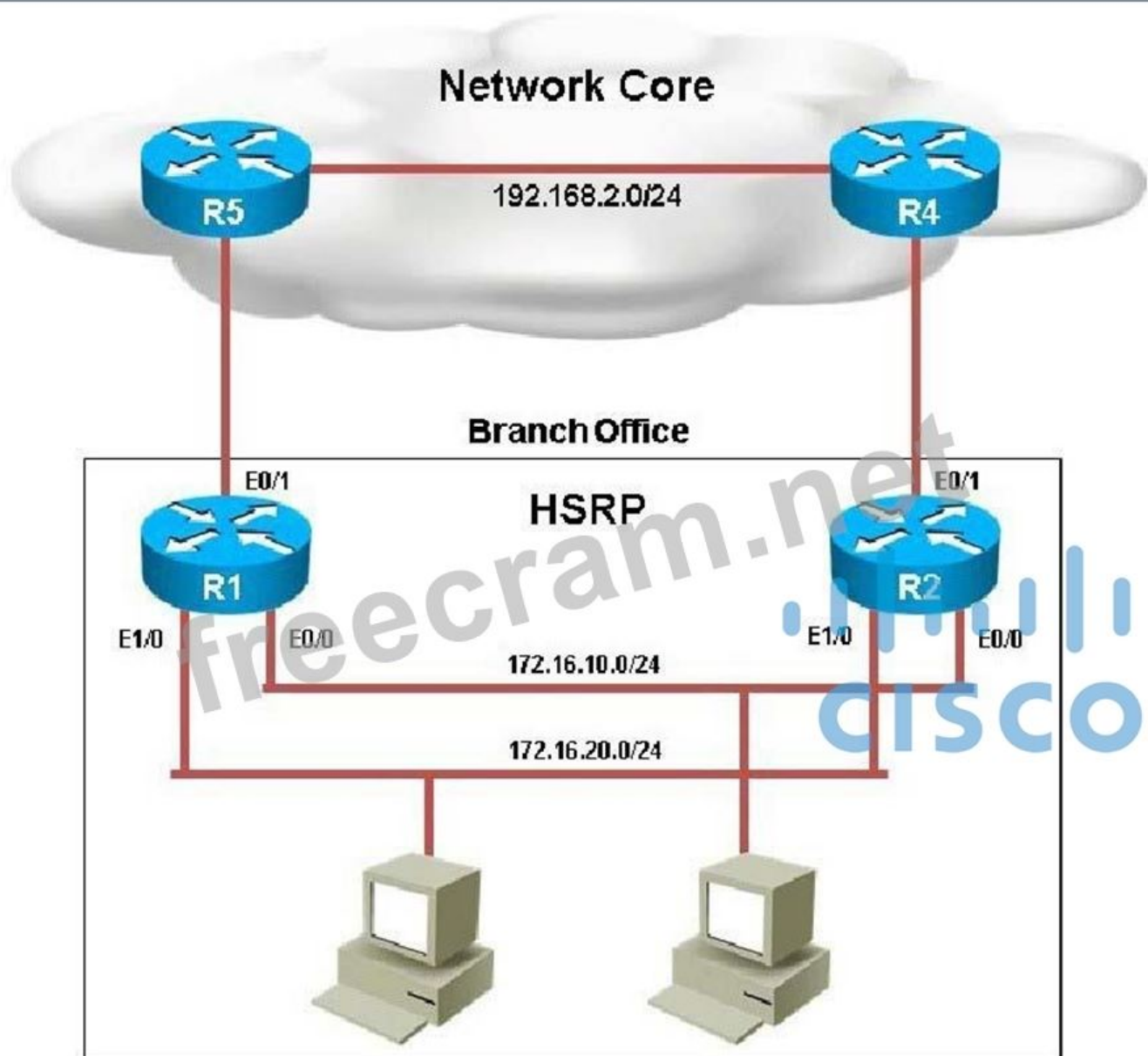
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NEW QUESTION: 137

Your customer has asked you to come in and verify the operation of routers R1 and R2 which are configured to use HSRP. They have questions about how these two devices will perform in the event of a device failure.



R1

freecram.net



R1#

CISCO

R2

freecram.net



R2#

CISCO

What percentage of the outgoing traffic from the 172.16.10.0/24 subnet is being forwarded through R1?

- A. R1-0%
- B. R1-50 %, R2-50%
- C. R2-100%
- D. R1-100%

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

Based on the following output, we see that R1 is the active standby router for the Ethernet 0/0 link, so all outgoing traffic will be forwarded to R1.

```
R1
R1#show standby
Ethernet0/0 - Group 1
  State is Active
    2 state changes, last state change 00:05:01
  Virtual IP address is 172.16.10.254
  Active virtual MAC address is 4000.0000.0010 (MAC In
    Local virtual MAC address is 4000.0000.0010 (cfgd)
  Hello time 3 sec, hold time 10 sec
    Next hello sent in 1.936 secs
  Authentication text, string "cisco123"
  Preemption enabled, delay reload 180 secs
  Active router is local
  Standby router is 172.16.10.1, priority 100 (expires
  Priority 130 (configured 130)
    Track object 1 state Up decrement 40
  Group name is "hsrp-Et0/0-1" (default)
```

NEW QUESTION: 138

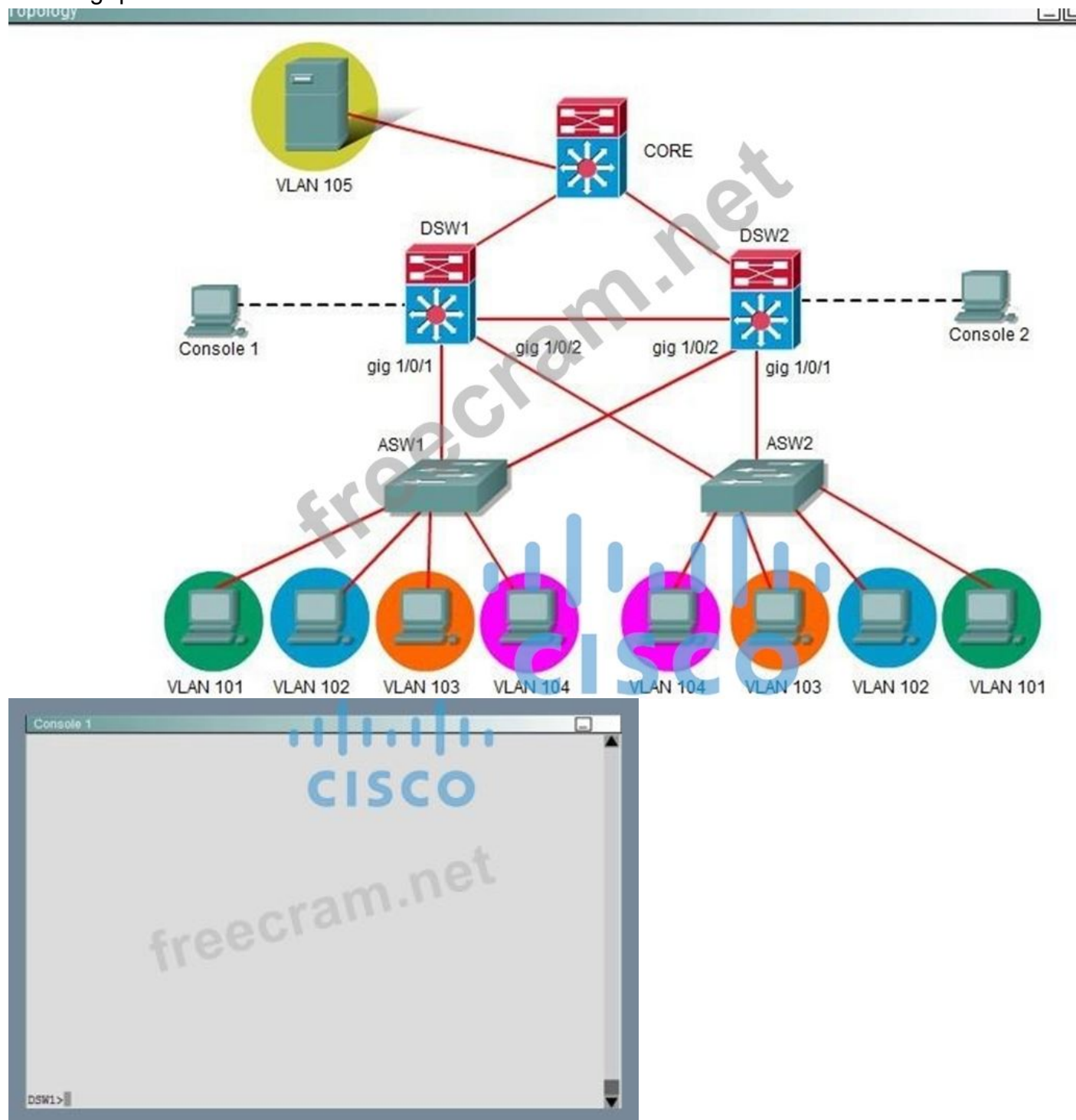
Ferris Plastics, Inc. is a medium sized company, with an enterprise network (access, distribution and core switches) that provides LAN connectivity from user PCs to corporate servers. The distribution switches are configured to use HSRP to provide a high availability solution.

DSW1 -primary device for VLAN 101 VLAN 102 and VLAN 105

DSW2 - primary device for VLAN 103 and VLAN 104

A failure of GigabitEthernet1/0/1 on primary device should cause the primary device to release its status as the primary device, unless GigabitEthernet1/0/1 on backup device has also failed.

Troubleshooting has identified several issues. Currently all interfaces are up. Using the running configurations and show commands, you have been asked to investigate and respond to the following question.





During routine maintenance, GigabitEthernet1/0/1 on DSW1 was shut down. All other interfaces were up.

DSW2 became the active HSRP device for VLAN 101 as desired. However, after GigabitEthernet1/0/1 on DSW1 was reactivated, DSW1 did not become the active router for VLAN 101 as desired. What needs to be done to make the group for VLAN 101 function properly?

- A. Enable preempt in the VLAN 101 HSRP group on DSW1.
- B. Disable preempt in the VLAN 101 HSRP group on DSW2's.
- C. In the VLAN 101 HSRP group on DSW1, decrease the priority value to a value that is less than the priority value configured in the VLAN 101 HSRP group on DSW2.
- D. Decrease the decrement value in the track command for the VLAN 101 HSRP group on DSW1 to a value less than the value in the track command for the VLAN 101 HSRP group on DSW2.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

<pre>interface Vlan101 ip address 192.168.101.1 255.255.255.0 standby 1 ip 192.168.101.254 standby 1 priority 200 standby 1 track GigabitEthernet1/0/1 55</pre>	<pre>interface Vlan101 ip address 192.168.101.2 255.255.255.0 standby 1 ip 192.168.101.254 standby 1 priority 150 standby 1 preempt standby 1 track GigabitEthernet1/0/1</pre>
---	--

NEW QUESTION: 139

In a Cisco switch, what is the default period of time after which a MAC address ages out and is discarded?

- A. 100 seconds

- B. 180 seconds
- C. 300 seconds
- D. 600 seconds

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

To configure the aging time for all MAC addresses, perform this task:

Command Purpose

Step 1 switch# configure ter- Enters configuration mode.

minal

Step 2 switch(config)# mac-ad- Specifies the time before an entry ages out and is dis- dress-table aging- time carded from the MAC address table. The range is from seconds [vlan vlan_id] 0 to 1000000; the default is 300 seconds. Entering the value 0 disables the MAC aging. If a VLAN is not specified, the aging specification applies to all VLANs.

Reference:

<http://www.cisco.com/en/US/docs/switches/datacenter/nexus5000/sw/configuration/guide/cli/MACAddress.html>

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