



300-115^{Q&As}

Implementing Cisco IP Switched Networks

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QUESTION 1

Which two statements about Cisco Discovery Protocol are true? (Choose two)

- A. It is not supported with SNMP
- B. It runs on OSI Layer 2
- C. It is supported on Frame Relay subinterfaces
- D. It uses a TLV to advertise the native VLAN
- E. It runs on OSI Layer 1

Correct Answer: BD

QUESTION 2

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

- A. VLAN hopping
- B. DHCP spoofing
- C. Rogue device
- D. MAC flooding

Correct Answer: B

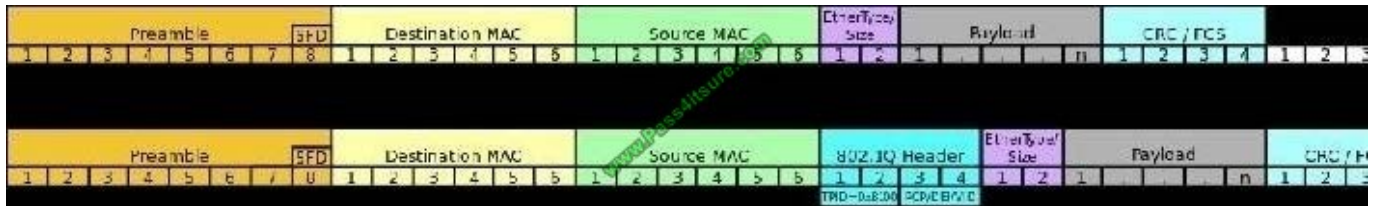
QUESTION 3

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

Correct Answer: A

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

QUESTION 4

A question about RSPAN command replicate incoming and outgoing traffic in a single interface. (Choose two.)

- A. monitor session 1 destination
- B. monitor session 1 destination interface...
- C. monitor session 1 source interface g0/1 tx
- D. monitor session 1 source interface g0/2 rx
- E. monitor session 1 source interface g0/1 both

Correct Answer: CE

QUESTION 5

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

Correct Answer: A

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 TLV 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

QUESTION 6

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

Correct Answer: B

: 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>

QUESTION 7

Lab Simulation - AAA dot1x

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.

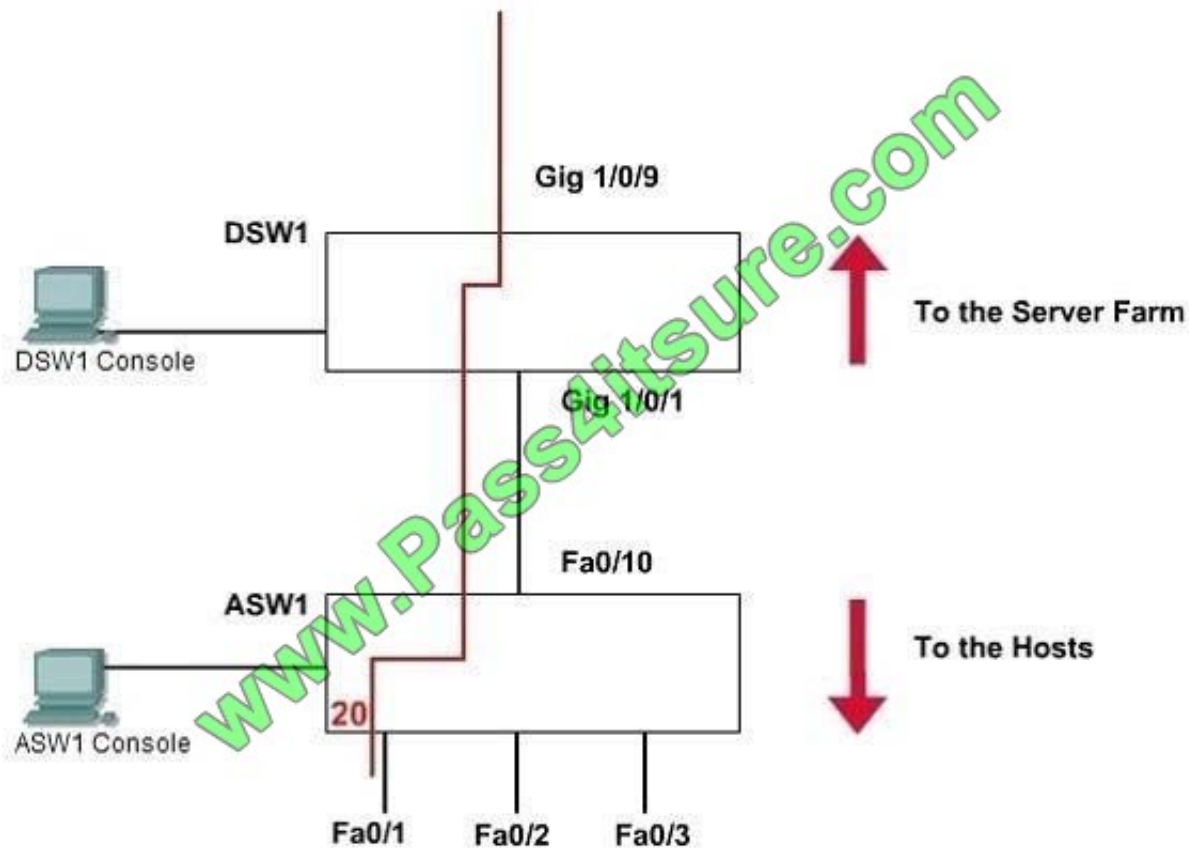
-Filtering should be implemented as close to the serverfarm as possible The Radius server and application servers will be installed at a future date. You have been tasked with implementing the above access control as a pre-condition to installing the servers. You must use the available IOS switch features.

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 0xD0 0xDE 0x5A 0xEF
                       : 0xE3 0x65 0x9A 0xF7 0x03 0xBF 0xBA 0x10
```

Feature MST:



A.

Correct Answer: A

1. Verification of Pre-configuration:

a.

Check that the denoted vlan [vlan20] is created in both switches and ports [fa0/1 of ASW1] are assigned.

b.

Take down the radius-server ip [172.120.39.46] and the key [rad123].

c.

Take down the IP range [172.120.40.0/24] to be allowed the given vlan [vlan20]

2.

Configure the Port based authentication on ASW1: Enable AAA on the switch: ASW1> enable ASW1# conf t ASW1(config)# aaa new-model The new-model keyword refers to the use of method lists, by which authentication methods and sources can be grouped or organized. Define the server along with its secret shared password: ASW1(config)# aaa authentication dot1x default group radius ASW1(config)# radius-server host 172.120.39.46 key rad123 This command causes the RADIUS server defined on the switch to be used for 802.1x authentication. Enable



802.1x on the switch: ASW1(config)# dot1x system-auth-control Configure Fa0/1 to use 802.1x: ASW1(config)# interface fastEthernet 0/1 ASW1(config-if)# switchport mode access ASW1(config-if)# dot1x port-control auto Notice that the word "auto" will force connected PC to authenticate through the 802.1x exchange. ASW1(config-if)# exit ASW1# copy running-config startup-config

3.

Filter the traffic and create vlan access-map to restrict the traffic only for a range on DSW1 Define an access-list: DSW1> enable DSW1# conf t (syntax: ip access-list {standard | extended} acl-name) 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 Define an access-map which uses the access-list above: (syntax: vlan access-map map_name [0-65535]) DSW1(config)# vlan access-map MYACCMAP 10 (syntax: match ip address {acl_number | acl_name}) DSW1(config-access-map)# match ip address 10 DSW1(config-access-map)# action forward DSW1(config-access-map)# exit DSW1(config)# vlan access-map MYACCMAP 20 (drop other networks) DSW1(config-access-map)# action drop DSW1(config-access-map)# exit

Apply a vlan-map into a vlan:

(syntax: vlan filter mapname vlan-list list)

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

```
DSW1# copy running-config startup-config
```

4.

Note:

It is not possible to verify the configuration in this lab. All we have do the correct configurations. Most of the exam takers report that " copy running-config startup- config" is not working. It does not a matter.

Do not try unwanted/wrong commands in the consoles. They are not real switches.

QUESTION 8

Which two statements about VRRP are true? (Choose two.)

- A. It is assigned multicast address 224.0.0.8.
- B. The TTL for VRRP packets must be 255.
- C. It is assigned multicast address 224.0.0.9.
- D. Its IP address number is 115.
- E. Three versions of the VRRP protocol have been defined.
- F. It supports both MD5 and SHA1 authentication.

Correct Answer: BE

QUESTION 9

A question about how port security can be configured in?



- A. static trunk port
- B. dynamic trunk port
- C. dynamic access port
- D. <http://certbus.com>

Correct Answer: A

QUESTION 10

A question related to Cisco StackWise Virtual.

- A. single control and management plane
- B. distributed data plane
- C. www.certbus.com
- D. www.certbus.com

Correct Answer: A

QUESTION 11

What SPAN configuration is required to enable on a switch?

- A. A monitor VLAN is created for the SPAN traffic.
- B. Configure a source and destination port
- C. Disable VTP pruning on trunk links

Correct Answer: B

QUESTION 12

Which vtp2 mode does the switch operate without participating in vtp?

- A. Client
- B. Server
- C. Transparent
- D. Off



Correct Answer: C

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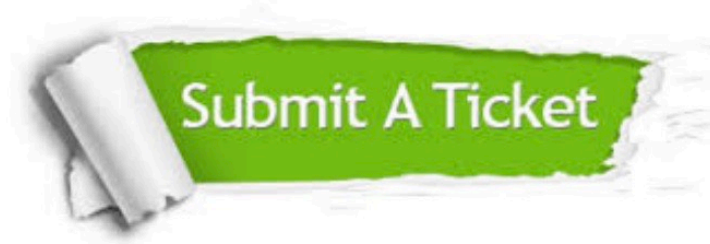
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