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Interconnecting Cisco Networking Devices Part 2 (ICND2)

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QUESTION 1

Refer to the exhibit.

What three actions will the switch take when a frame with an unknown source MAC address arrives at the interface? (Choose three.)

```
Switch# show port-security interface fa0/20
Port Security            : Enabled
Port Status              : Secure-up
Violation Mode           : Restrict
Aging Time               : 3 mins
Aging Type               : Inactivity
SecureStatic Address Aging : Disabled
Maximum MAC Addresses    : 2
Total MAC Addresses      : 2
Configured MAC Addresses : 0
Sticky MAC Addresses     : 2
Last Source Address:Vlan : 0009.7C10.8E8C:50
Security Violation Count : 1
```

A. Send an SNMP trap.

B. Send a syslog message.

C. Increment the Security Violation counter.

D. Forward the traffic.

E. Write the MAC address to the startup-config.

F. Shut down the port.

Correct Answer: ABC

Switchport Security Concepts and Configuration

The second piece of switchport port-security that must be understood is a security violation including what it is what causes it and what the different violation modes that exist. A switchport violation occurs in one of two situations:

When the maximum number of secure MAC addresses has been reached (by default, the maximum number of secure MAC addresses per switchport is limited to 1).

An address learned or configured on one secure interface is seen on another secure interface in the same VLAN.

The action that the device takes when one of these violations occurs can be configured:

Protect--This mode permits traffic from known MAC addresses to continue to be forwarded while dropping traffic from unknown MAC addresses when over the allowed MAC address limit. When configured with this mode, no notification action

is taken when traffic is dropped.

Restrict--This mode permits traffic from known MAC addresses to continue to be forwarded while dropping traffic from unknown MAC addresses when over the allowed MAC address limit. When configured with this mode, a syslog message is

logged, a Simple Network Management Protocol (SNMP) trap is sent, and a violation counter is incremented when traffic is dropped. Shutdown--This mode is the default violation mode; when in this mode, the switch will automatically force

the switchport into an error disabled (err-disable) state when a violation occurs. While in this state, the switchport forwards no traffic. The switchport can be brought out of this error disabled state by issuing the errdisable recovery cause CLI

command or by disabling and re-enabling the switchport. Shutdown VLAN--This mode mimics the behavior of the shutdown mode but limits the error disabled state the specific violating VLAN.

Reference:

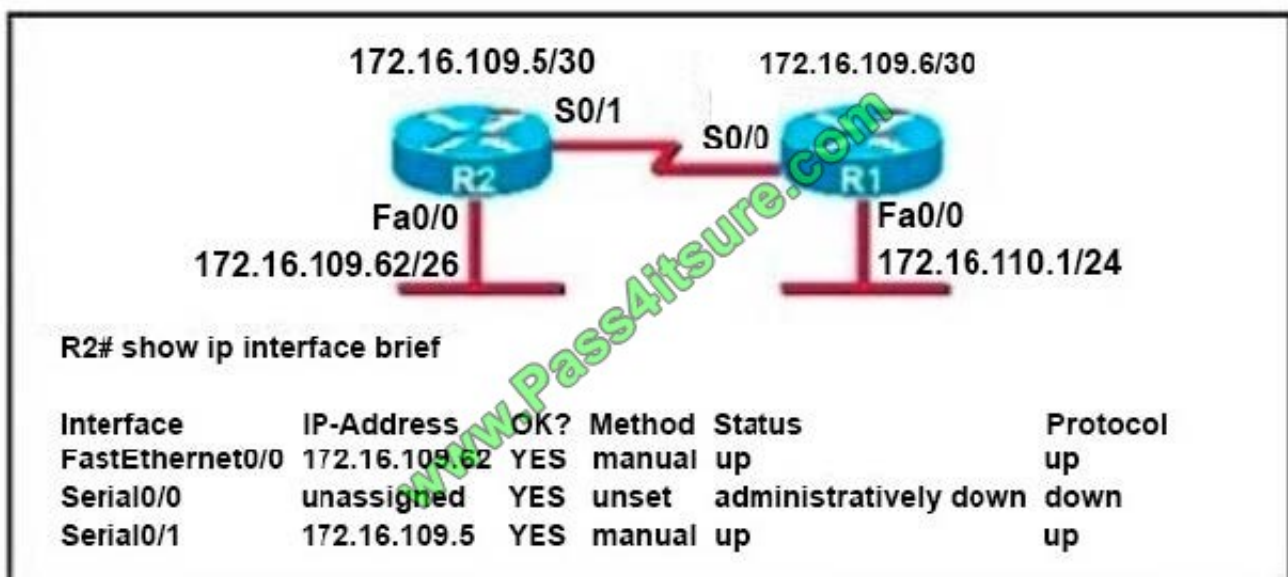http://www.ciscopress.com/articles/article.asp?p=1722561

Switchport Security Violations

QUESTION 2

Refer to the exhibit.

Assuming that the entire network topology is shown, what is the operational status of the interfaces of R2 as indicated by the command output shown?

A. One interface has a problem.

B. Two interfaces have problems.

C. The interfaces are functioning correctly.

D. The operational status of the interfaces cannot be determined from the output shown.

Correct Answer: C

R2 has setup with two interface s0/1 and fa0/0 and both are interfaces configured with IP address and up. "show ip interface brief" showing the status of R2 interfaces.

QUESTION 3

DRAG DROP

Drag and drop the descriptions of ACLs from the left onto the correct ACL types on the right.

Select and Place:

applies to IP traffic only		Named ACLs
provides greater flexibility than other ACL types		
requires the entire list to be recreated when entries are moved		Numbered ACLs
supported on vty lines		
supports permit and deny statements		Named and Numbered ACLs
supports the ability to remove individual entries		

Correct Answer:

Named ACLs
supports the ability to remove individual entries
provides greater flexibility than other ACL types

Numbered ACLs
supported on vty lines
requires the entire list to be recreated when entries are moved

Named and Numbered ACLs
supports permit and deny statements
applies to IP traffic only

QUESTION 4

How does using the service password-encryption command on a router provide additional security?

A. by encrypting all passwords passing through the router

B. by encrypting passwords in the plain text configuration file

C. by requiring entry of encrypted passwords for access to the device

D. by configuring an MD5 encrypted key to be used by routing protocols to validate routing exchanges

E. by automatically suggesting encrypted passwords for use in configuring the router

Correct Answer: B

QUESTION 5

Which two functions are performed by DHCP snooping? (Choose two.)

A. It determines which DHCP messages are valid

B. It hands out DHCP IP addresses to clients requesting access to the network

C. It rate-limits certain traffic

D. It listens to multicast traffic to support packet forwarding

E. It propagates VLAN information between switches

F. It provides DDoS mitigation

Correct Answer: AC

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