



640-554^{Q&As}

Implementing Cisco IOS Network Security (IINS v2.0)

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QUESTION 1

What is the function of an IPS signature?

- A. It determines the best course of action to mitigate a threat.
- B. It detects network intrusions by matching specified criteria.
- C. It provides logging data for allowed connections.
- D. It provides threat-avoidance controls.

Correct Answer: B

QUESTION 2

What will be disabled as a result of the no service password-recovery command?

- A. changes to the config-register setting
- B. ROMMON
- C. password encryption service
- D. aaa new-model global configuration command
- E. the xmodem privilege EXEC mode command to recover the Cisco IOS image

Correct Answer: B

http://www.cisco.com/en/US/products/hw/routers/ps274/products_configuration_example09186a00801d8113.shtml

Background

ROMMON security is designed not to allow a person with physical access to the router view the configuration file. ROMMON security disables access to the ROMMON, so that a person cannot set the configuration register to ignore the startup configuration. ROMMON security is enabled when the router is configured with the no service password-recovery command.

Caution: Because password recovery that uses ROMMON security destroys the configuration, it is recommended that you save the router configuration somewhere off the router, such as on a TFTP server.

Risks

If a router is configured with the no service password-recovery command, this disables all access to the ROMMON. If there is no valid Cisco IOS software image in the Flash memory of the router, the user is not able to use the ROMMON

XMODEM command in order to load a new Flash image. In order to fix the router, you must get a new Cisco IOS software image on a Flash SIMM, or on a PCMCIA card, for example on the 3600 Series Routers. In order to minimize this risk,

a customer who uses ROMMON security must also use dual Flash bank memory and put a backup Cisco IOS software image in a separate partition.



QUESTION 3

Which monitoring protocol uses TCP port 1470 or UDP port 514?

- A. RELP
- B. Syslog
- C. SDEE
- D. IMAP
- E. SNMP
- F. CSM

Correct Answer: B

QUESTION 4

DRAG DROP

Select and Place:

Drag the disaster recovery concepts from the left and drop them on their definitions on the right.

recovery point objective	the age of the data you want the ability to recover in event of a system outage
maximum tolerable downtime	the amount of downtime accepted for a system resource outage
recovery time objective	the amount of downtime accepted for a mission-critical business process outage

Correct Answer:

Drag the disaster recovery concepts from the left and drop them on their definitions on the right.

	recovery point objective
	recovery time objective
	maximum tolerable downtime

QUESTION 5



Which type of Layer 2 attack causes a switch to flood all incoming traffic to all ports?

- A. MAC spoofing attack
- B. CAM overflow attack
- C. VLAN hopping attack
- D. STP attack

Correct Answer: B

http://www.cisco.com/en/US/prod/collateral/switches/ps5718/ps708/white_paper_c11_603836.html Summary The MAC Address Overflow attack is effective if the proper mitigation techniques are not in place on the Cisco Catalyst 6500 series switch. By using publicly (free) and available Layer 2 attack tools found on the Internet, anyone who understands how to setup and run these tools could potentially launch an attack on your network.

MAC address monitoring is a feature present on Cisco Catalyst 6500 Series switches. This feature helps mitigate MAC address flooding and other CAM overflow attacks by limiting the total number of MAC addresses learned by the switch on per-port or per-VLAN basis. With MAC Address Monitoring, a maximum threshold for the total number of MAC addresses can be configured and enforced on a per-port and/or per-VLAN basis.

MAC address monitoring in Cisco IOS Software allows the definition of a single upper (maximum) threshold. In addition, the number of MAC addresses learned can only be monitored on a per-port or per-VLAN basis, and not a per-port-per-VLAN. By default, MAC address monitoring is disabled in Cisco IOS Software. However, the maximum threshold for all ports and VLANs is configured to 500 MAC address entries, and when the threshold is exceeded the system is set to generate a system message along with a syslog trap. These default values take effect only when MAC address monitoring is enabled. The system can be configured to notify or disable the port or VLAN every time the number of learned MAC addresses exceeds the predefined threshold. In our test, we used the "mac-address-table limit" command on the access layer port interface to configure the MAC address monitoring feature.

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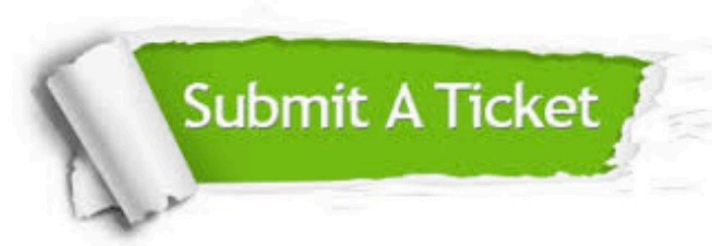
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