



# 640-554<sup>Q&As</sup>

Implementing Cisco IOS Network Security (IINS v2.0)

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### QUESTION 1

If the native VLAN on a trunk is different on each end of the link, what is a potential consequence?

- A. The interface on both switches may shut down.
- B. STP loops may occur.
- C. The switch with the higher native VLAN may shut down.
- D. The interface with the lower native VLAN may shut down.

Correct Answer: B

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### QUESTION 2

Which protocol secures router management session traffic?

- A. SSTP
- B. POP
- C. Telnet
- D. SSH

Correct Answer: D

[http://www.cisco.com/en/US/tech/tk648/tk361/technologies\\_tech\\_note09186a0080120f48.shtml](http://www.cisco.com/en/US/tech/tk648/tk361/technologies_tech_note09186a0080120f48.shtml)

#### Encrypting Management Sessions

Because information can be disclosed during an interactive management session, this traffic must be encrypted so that a malicious user cannot gain access to the data being transmitted. Encrypting the traffic allows a secure remote access connection to the device. If the traffic for a management session is sent over the network in cleartext, an attacker can obtain sensitive information about the device and the network. An administrator is able to establish an encrypted and secure remote access management connection to a device by using the SSH or HTTPS (Secure Hypertext Transfer Protocol) features. Cisco IOS software supports SSH version 1.0 (SSHv1), SSH version 2.0 (SSHv2), and HTTPS that uses Secure Sockets Layer (SSL) and Transport Layer Security (TLS) for authentication and data encryption. Note that SSHv1 and SSHv2 are not compatible.

Cisco IOS software also supports the Secure Copy Protocol (SCP), which allows an encrypted and secure connection for copying device configurations or software images. SCP relies on SSH. This example configuration enables SSH on a Cisco IOS device: ! ip domain-name example.com ! crypto key generate rsa modulus 2048 ! ip ssh time-out 60 ip ssh authentication-retries 3 ip ssh source-interface GigabitEthernet 0/1 ! line vty 0 4 transport input ssh !

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### QUESTION 3

What does the MD5 algorithm do?

- A. takes a message less than  $2^{64}$  bits as input and produces a 160-bit message digest



- B. takes a variable-length message and produces a 168-bit message digest
- C. takes a variable-length message and produces a 128-bit message digest
- D. takes a fixed-length message and produces a 128-bit message digest

Correct Answer: C

[http://www.cisco.com/en/US/tech/tk583/tk372/technologies\\_tech\\_note09186a0080094203.shtml](http://www.cisco.com/en/US/tech/tk583/tk372/technologies_tech_note09186a0080094203.shtml)

Message Digest 5 (MD5) -- This is a one way hashing algorithm that produces a 128-bit hash. Both MD5 and Secure Hash Algorithm (SHA) are variations on MD4, which is designed to strengthen the security of this hashing algorithm. SHA is more secure than MD4 and MD5. Cisco uses hashes for authentication within the IPsec framework.

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#### QUESTION 4

Which of the following are features of IPsec transport mode? (Choose three.)

- A. IPsec transport mode is used between end stations
- B. IPsec transport mode is used between gateways
- C. IPsec transport mode supports multicast
- D. IPsec transport mode supports unicast
- E. IPsec transport mode encrypts only the payload
- F. IPsec transport mode encrypts the entire packet

Correct Answer: ADE

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#### QUESTION 5

Which AAA feature can automate record keeping within a network?

- A. TACACS+
- B. authentication
- C. authorization
- D. accounting

Correct Answer: D

In AAA, accounting refers to the record-keeping and tracking of user activities on a computer network. For a given time period this may include, but is not limited to, real-time accounting of time spent accessing the network, the network services employed or accessed, capacity and trend analysis, network cost allocations, billing data, login data for user authentication and authorization, and the data or data amount accessed or transferred. Reference: <http://www.techopedia.com/definition/24130/authentication-authorization-and-accounting-aaa>



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