



640-554^{Q&As}

Implementing Cisco IOS Network Security (IINS v2.0)

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**QUESTION 1**

If a router configuration includes the line `aaa authentication login default group tacacs+ enable`, which events will occur when the TACACS+ server returns an error? (Choose two.)

- A. The user will be prompted to authenticate using the enable password
- B. Authentication attempts to the router will be denied
- C. Authentication will use the router's local database
- D. Authentication attempts will be sent to the TACACS+ server

Correct Answer: AD

The method argument refers to the actual method the authentication algorithm tries. The additional methods of authentication are used only if the previous method returns an error, not if it fails. To specify that the authentication should succeed even if all methods return an error, specify `none` as the final method in the command line.

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

QUESTION 2

Which statement about rule-based policies in Cisco Security Manager is true?

- A. Rule-based policies contain one or more rules that are related to a device's security and operations parameters.
- B. Rule-based policies contain one or more rules that control how traffic is filtered and inspected on a device.
- C. Rule-based policies contain one or more user roles that are related to a device's security and operations parameters.
- D. Rule-based policies contain one or more user roles that control how user traffic is filtered and inspected on a device.

Correct Answer: B

QUESTION 3

When a network transitions from IPv4 to IPv6, how many bits does the address expand to?

- A. 64 bits
- B. 128 bits
- C. 96 bits
- D. 156 bits

Correct Answer: B

IPv6 uses a 128-bit address, allowing 2^{128} , or approximately 3.4×10^{38} addresses, or more than 7.9×10^{28} times as many



as IPv4, which uses 32-bit addresses and provides approximately 4.3 billion addresses. Reference: <http://en.wikipedia.org/wiki/IPv6>

QUESTION 4

Which two considerations about secure network management are important? (Choose two.)

- A. log tampering
- B. encryption algorithm strength
- C. accurate time stamping
- D. off-site storage
- E. Use RADIUS for router commands authorization.
- F. Do not use a loopback interface for device management access.

Correct Answer: AC

<http://www.cisco.com/en/US/docs/switches/lan/catalyst6500/ios/12.2SX/best/practices/recommendations.html>

Enable Timestamped Messages Enable timestamps on log messages: Router(config)# service timestamps log datetime localtime show-timezone msec Enable timestamps on system debug messages: Router(config)# service timestamps debug datetime localtime show-timezone msec

QUESTION 5

Which two functions are required for IPsec operation? (Choose two.)

- A. using SHA for encryption
- B. using PKI for pre-shared key authentication
- C. using IKE to negotiate the SA
- D. using AH protocols for encryption and authentication
- E. using Diffie-Hellman to establish a shared-secret key

Correct Answer: CE

http://www.cisco.com/en/US/tech/tk583/tk372/technologies_tech_note09186a0080094203.shtml

Configure ISAKMP IKE exists only to establish SAs for IPsec. Before it can do this, IKE must negotiate an SA (an ISAKMP SA) relationship with the peer. Since IKE negotiates its own policy, it is possible to configure multiple policy statements with different configuration statements, then let the two hosts come to an agreement. ISAKMP negotiates: Oakley This is a key exchange protocol that defines how to acquire authenticated keying material. The basic mechanism for Oakley is the Diffie-Hellman key exchange algorithm. You can find the standard in RFC 2412: The OAKLEY Key Determination Protocol leavingcisco.com.



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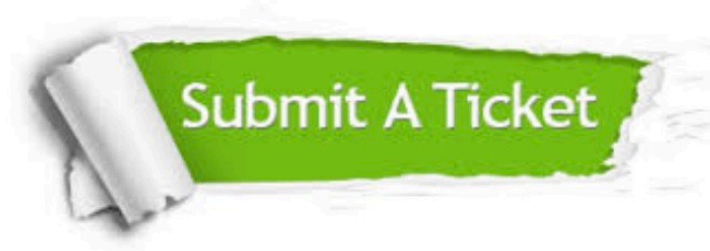
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