



# JK0-022<sup>Q&As</sup>

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### QUESTION 1

A security administrator wishes to change their wireless network so that IPSec is built into the protocol and NAT is no longer required for address range extension. Which of the following protocols should be used in this scenario?

- A. WPA2
- B. WPA
- C. IPv6
- D. IPv4

Correct Answer: C

IPSec security is built into IPv6.

Incorrect Answers:

A: WPA2 makes use of CCMP

B: WPA makes use of the RC4 encryption algorithm with TKIP.

D: IPSec is an add-on to IPv4.

References:

Dulaney, Emmett and Chuck Eastton, CompTIA Security+ Study Guide, Sixth Edition, Sybex, Indianapolis, 2014, pp 145, 172.

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### QUESTION 2

A company wants to ensure that its hot site is prepared and functioning. Which of the following would be the BEST process to verify the backup datacenter is prepared for such a scenario?

- A. Site visit to the backup data center
- B. Disaster recovery plan review
- C. Disaster recovery exercise
- D. Restore from backup

Correct Answer: C

A hot site is a location that can provide operations within hours of a failure. This type of site would have servers, networks, and telecommunications equipment in place to reestablish service in a short time. Hot sites provide network connectivity, systems, and preconfigured software to meet the needs of an organization. This means that an actual exercise run would test the abilities of your hot site best.

Incorrect Answers:

A: A site visit is not the same as actual testing that the site can act as a hot site, you need to run a disaster recovery



exercise to test the hot site ability.

B: A review is not actual testing of the disaster recovery plan.

D: Restoring from backups can be done on any other type of site as well.

References:

Dulaney, Emmett and Chuck Eastton, CompTIA Security+ Study Guide, Sixth Edition, Sybex, Indianapolis, 2014, pp 443-444

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### QUESTION 3

Which of the following is an important step in the initial stages of deploying a host-based firewall?

- A. Selecting identification versus authentication
- B. Determining the list of exceptions
- C. Choosing an encryption algorithm
- D. Setting time of day restrictions

Correct Answer: B

A host-based firewall is installed on a client system and is used to protect the client system from the activities of the user as well as from communication from the network or Internet. These firewalls manage network traffic using filters to block certain ports and protocols while allowing others to pass through the system.

Incorrect Answers:

A: A host-based firewall is used to filter network traffic; it does not perform identification or authentication.

C: A host-based firewall is used to filter network traffic; it does not provide encryption functions.

D: A host-based firewall is used to filter and restrict network traffic based on ports and protocols, not on time of day.

References:

Stewart, James Michael, CompTIA Security+ Review Guide, Sybex, Indianapolis, 2014, pp 246

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### QUESTION 4

A security analyst discovered data such as images and word documents hidden within different types of files. Which of the following cryptographic concepts describes what was discovered?

- A. Symmetric encryption
- B. Non-repudiation
- C. Steganography
- D. Hashing



Correct Answer: C

Steganography is the process of concealing a file, message, image, or video within another file, message, image, or video. Note: The advantage of steganography over cryptography alone is that the intended secret message does not attract attention to itself as an object of scrutiny. Plainly visible encrypted messages, no matter how unbreakable will arouse interest, and may in themselves be incriminating in countries where encryption is illegal. Thus, whereas cryptography is the practice of protecting the contents of a message alone, steganography is concerned with concealing the fact that a secret message is being sent, as well as concealing the contents of the message.

Incorrect Answers:

A: Symmetric-key algorithms are algorithms for cryptography that use the same cryptographic keys for both encryption of plaintext and decryption of ciphertext.

B: Nonrepudiation prevents one party from denying actions they carried out.

D: A hash function is used to map digital data of variable size to digital data of fixed length.

References:

Dulaney, Emmett and Chuck Eastton, CompTIA Security+ Study Guide, Sixth Edition, Sybex, Indianapolis, 2014, pp 249-252, 255, 262, 323 <http://en.wikipedia.org/wiki/Steganography>

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## QUESTION 5

Which of the following devices is MOST likely being used when processing the following?

1 PERMIT IP ANY ANY EQ 80 2 DENY IP ANY ANY

A. Firewall

B. NIPS

C. Load balancer

D. URL filter

Correct Answer: A

Firewalls, routers, and even switches can use ACLs as a method of security management. An access control list has a deny ip any any implicitly at the end of any access control list. ACLs deny by default and allow by exception.

Incorrect Answers:

B: Network-based intrusion prevention system (NIPS) monitors the entire network for suspicious traffic by analyzing protocol activity.

C: A load balancer is used to distribute network traffic load across several network links or network devices.

D: A URL filter is used to block URLs (websites) to prevent users accessing the website.

References:

Stewart, James Michael, CompTIA Security+ Review Guide, Sybex, Indianapolis, 2014, pp 10, 24.  
<http://www.cisco.com/c/en/us/support/docs/security/ios-firewall/23602-confaccesslists.html> <http://en.wikipedia.org/wiki/>



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