Network Security - Review Q's

1): What are the differences between message confidentiality and message integrity?
2): What is the difference between an active and passive intruder?
3): What is an important difference between the symmetric and public key systems?
4): An intruder has an encrypted message as well as the decrypted message. Can he mount a ciphertext-only attack, a known-plaintext attack, or a chosen- plain text attack?
5): Suppose N people want to communicate with each of N-1 other people using symmetric key encryption. All communication between any two people, i and j is visible to all other people in the group of N. How many keys are required in this system? If public key encryption is used, how many keys are required?
6): What is the purpose of a nonce?
7): What does it mean to say a nonce is a once-in-lifetime value?
8): What is a man-in-middle attack? Can this occur when symmetric keys are used?
9): What does it mean for a signed document to be verifiable, nonrepudiable, and nonrepudiatable?
*10): Why does a message digest provide a better integrity check than the Internet checksum?
*11): In what way does a public key encrypted message provide a better digital signature than using the public key encrypted message?

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Review Questions

1) What are the differences between message confidentiality and message integrity?

Question 1.

Confidentiality is the property that the original plaintext message can not be determined by an attacker who intercepts the ciphertext-encryption of the original plaintext message. Message integrity is the property that the receiver can detect whether the message sent (whether encrypted or not) was altered in transit. The two are thus different concepts, and one can have one without the other. An encrypted message that is altered in transmit may still be confidential (the attacker can not determine the original plaintext) but will not have message integrity if the error is undetected. Similarly, a message that is altered in transit (and detected) could have been sent in plaintext and thus would not be confidential.

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2) What is the difference between an active and passive intruder?

Question 2.

A passive intruder only monitors ("sniffs", intercepts) messages. An active intruder can also monitor traffic, but will also actively send messages into the network.

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3) What is an important difference between the symmetric and public key systems?

Question 3.

One important difference between symmetric and public key systems is that in symmetric key systems both the sender and receiver must know the same (secret) key. In public key systems, the encryption and decryption keys are distinct. The encryption key is known by the entire world (including the sender), but the decryption key is known only by the receiver.

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4) An intruder has an encrypted message as well as the decrypted message. Can he mount a ciphertext-only attack, a known-plaintext attack, or a chosen- plaintext attack?

Question 4.

In this case, a known plaintext attack is performed. If, somehow, the message encrypted by the sender was chosen by the attacker, then this would be a chosen-plaintext attack.

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5) Suppose N people want to communicate with each of N-1 other people using symmetric key encryption. All communication between any two people, i and j is visible to all other people in the group of N. How many keys are required in this system? If public key encryption is used, how many keys are required?

Question 5.

If each user wants to communicate with N other users, then each pair of users must have a shared symmetric key. There are $N*(N-1)/2$ such pairs and thus there are $N*(N-1)/2$ keys. With a public key system, each user has a public key which is known to all, and a private key (which is secret and only known by the user). There are thus 2N keys in the public key system.

Guide To Network Security Review Answers

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