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QUESTION 1

John wishes to install a new application onto his Windows 2000 server. He wants to ensure that any application he uses has not been Trojaned. What can he do to help ensure this?

- A. Compare the file's MD5 signature with the one published on the distribution media
- B. Obtain the application via SSL
- C. Compare the file's virus signature with the one published on the distribution media
- D. Obtain the application from a CD-ROM disc

Correct Answer: A

MD5 was developed by Professor Ronald L. Rivest of MIT. What it does, to quote the executive summary of rfc1321, is:

[The MD5 algorithm] takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input. It is conjectured that it is computationally infeasible to produce two messages having the same

message digest, or to produce any message having a given prespecified target message digest. The MD5 algorithm is intended for digital signature applications, where a large file must be "compressed" in a secure manner before being

encrypted with a private (secret) key under a public-key cryptosystem such as RSA. In essence, MD5 is a way to verify data integrity, and is much more reliable than checksum and many other commonly used methods.

QUESTION 2

While performing a ping sweep of a subnet you receive an ICMP reply of Code 3/Type 13 for all the pings sent out. What is the most likely cause behind this response?

- A. The firewall is dropping the packets.
- B. An in-line IDS is dropping the packets.
- C. A router is blocking ICMP.
- D. The host does not respond to ICMP packets.

Correct Answer: C

Type 3 message = Destination Unreachable [RFC792], Code 13 (cause) = Communication Administratively Prohibited [RFC1812]

QUESTION 3

How does traceroute map the route a packet travels from point A to point B?

- A. Uses a TCP timestamp packet that will elicit a time exceeded in transit message



- B. Manipulates the value of the time to live (TTL) within packet to elicit a time exceeded in transit message
- C. Uses a protocol that will be rejected by gateways on its way to the destination
- D. Manipulates the flags within packets to force gateways into generating error messages

Correct Answer: B

QUESTION 4

Jack Hackers wants to break into Brown's Computers and obtain their secret double fudge cookie recipe. Jack calls Jane, an accountant at Brown Co. pretending to be an administrator from Brown Co. Jack tell Jane that there has been a problem with some accounts and asks her to verify her password with him "just to double check our records". Jane does not suspect anything amiss and parts her password. Jack can now access Brown Co.'s computer with a valid username and password to steal the cookie recipe. What kind of attack is being illustrated here?

- A. Faking Identity
- B. Spoofing Identity
- C. Social Engineering
- D. Reverse Psychology
- E. Reverse Engineering

Correct Answer: C

Social engineering is a collection of techniques used to manipulate people into performing actions or divulging confidential information. While similar to a confidence trick or simple fraud, the term typically applies to trickery for information gathering or computer system access and in most cases the attacker never comes face-to-face with the victim.

QUESTION 5

Why attackers use proxy servers?

- A. To ensure the exploits used in the attacks always flip reverse vectors
- B. Faster bandwidth performance and increase in attack speed
- C. Interrupt the remote victim's network traffic and reroute the packets to attackers machine
- D. To hide the source IP address so that an attacker can hack without any legal corollary

Correct Answer: D

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