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QUESTION 1

How does a denial-of-service attack work?

- A. A hacker prevents a legitimate user (or group of users) from accessing a service
- B. A hacker uses every character, word, or letter he or she can think of to defeat authentication
- C. A hacker tries to decipher a password by using a system, which subsequently crashes the network
- D. A hacker attempts to imitate a legitimate user by confusing a computer or even another person

Correct Answer: A

QUESTION 2

What is the most common method to exploit the "Bash Bug" or "ShellShock" vulnerability?

- A. Through Web servers utilizing CGI (Common Gateway Interface) to send a malformed environment variable to a vulnerable Web server
- B. Manipulate format strings in text fields
- C. SSH
- D. SYN Flood

Correct Answer: A

Shellshock, also known as Bashdoor, is a family of security bugs in the widely used Unix Bash shell. One specific exploitation vector of the Shellshock bug is CGI-based web servers.

Note: When a web server uses the Common Gateway Interface (CGI) to handle a document request, it passes various details of the request to a handler program in the environment variable list. For example, the variable HTTP_USER_AGENT has a value that, in normal usage, identifies the program sending the request. If the request handler is a Bash script, or if it executes one for example using the system call, Bash will receive the environment variables passed by the server and will process them. This provides a means for an attacker to trigger the Shellshock vulnerability with a specially crafted server request.

References: [https://en.wikipedia.org/wiki/Shellshock_\(software_bug\)#Specific_exploitation_vectors](https://en.wikipedia.org/wiki/Shellshock_(software_bug)#Specific_exploitation_vectors)

QUESTION 3

Which of the following describes the characteristics of a Boot Sector Virus?

- A. Moves the MBR to another location on the RAM and copies itself to the original location of the MBR
- B. Moves the MBR to another location on the hard disk and copies itself to the original location of the MBR
- C. Modifies directory table entries so that directory entries point to the virus code instead of the actual program



D. Overwrites the original MBR and only executes the new virus code

Correct Answer: B

A boot sector virus is a computer virus that infects a storage device's master boot record (MBR). The virus moves the boot sector to another location on the hard drive.

References: <https://www.techopedia.com/definition/26655/boot-sector-virus>

QUESTION 4

An attacker gains access to a Web server's database and displays the contents of the table that holds all of the names, passwords, and other user information. The attacker did this by entering information into the Web site's user login page that the software's designers did not expect to be entered. This is an example of what kind of software design problem?

- A. Insufficient input validation
- B. Insufficient exception handling
- C. Insufficient database hardening
- D. Insufficient security management

Correct Answer: A

The most common web application security weakness is the failure to properly validate input coming from the client or from the environment before using it. This weakness leads to almost all of the major vulnerabilities in web applications, such as cross site scripting, SQL injection, interpreter injection, locale/ Unicode attacks, file system attacks, and buffer overflows.

References: https://www.owasp.org/index.php/Testing_for_Input_Validation

QUESTION 5

Which Nmap option would you use if you were not concerned about being detected and wanted to perform a very fast scan?

- A. -T0
- B. -T5
- C. -O
- D. -A

Correct Answer: B