FindWindow Injection



Header Files: It includes three header files, , , and , which are necessary for standard I/O operations and Windows API functions.

Shellcode Definition: The payload array contains a sequence of hexadecimal bytes. This array represents the shellcode that will be injected into a target process. This shellcode appears to be generated by Metasploit's Venom.

Main Function:

It declares several variables:

HANDLE ph: This will hold a handle to the target process

HANDLE rt: This will hold a handle to the remote thread.

DWORD pid: This will store the process ID of the target proce

HWND hw: This will hold a handle to a window with the title "Untitled - Notepad."

FindWindow: This function is used to find a window with the title "Untitled – Notepad." If it succeeds, it returns a handle to the window (hw), which is used to obtain the process ID of the associated process.

GetWindowThreadProcessId: This function retrieves the process ID (pid) associated with the window handle obtained from FindWindow.

OpenProcess: It opens a handle to the target process using the process ID obtained earlier. The PROCESS_ALL_ACCESS flag gives full access to the process.

VirtualAllocEx: This function allocates memory within the target process. The memory is allocated with MEM_RESERVE | MEM_COMMIT attributes, allowing it to be both reserved and committed, and it's marked as PAGE_EXECUTE_READWRITE, making it executable and writable.

WriteProcessMemory: This function writes the shellcode (payload) into the allocated memory within the target process.

CreateRemoteThread: This function creates a remote thread within the target process, with the starting address set to the allocated memory containing the shellcode (rb). This effectively triggers the execution of the shellcode in the context of the target process.

Finally, the program closes the handle to the target process with CloseHandle.

In summary, this code demonstrates a technique called process injection. It locates a running instance of Notepad by finding its window, retrieves the process ID, allocates memory within that process, writes shellcode into the allocated memory, and creates a remote thread that starts executing the injected shellcode This technique can be used for legitimate purposes, such as debugging or modifying the behavior of another process, but it's also a technique often used by malware for malicious purposes.