

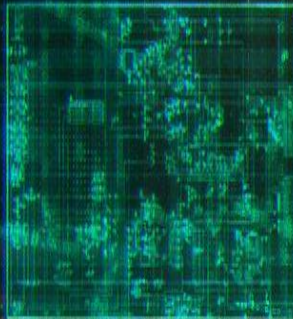
Malware Analysis

Muhamad.B

Contact us:



TARGETED ATTACK DISCOVERY



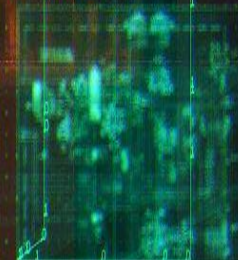
PENETRATION TESTING



THREAT DATA FEEDS



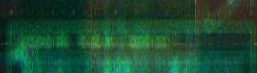
DIGITAL FORENSICS



MALWARE ANALYSIS



INCIDENT RESPONSE



پیشہ کی

- بوجی مالویر ئەنالسیس ؟

- دروستکردنی ناوهندیکی سهلامت بۆ مالویر ئەنالسیس.

- *Static Analysis* تەکنیکی
- *Dynamic Analysis* تەکنیکی
- *Packing*

- دۆزینەوی مالویر.

بۇچى مالوېر ئىنالىسىس ؟

بە گشتى:

- ھەر كۆدىك كە ھەلېستى بە ئەنجامدانى كارىكى خراپ، كە لە ئىستادا ئەمە زۆر باو.

- ھەر فەرمانى ھەلېسى بە ئەنجامدانى كارىكى نەزانراو، جىگىربىت لەناو سىستەمىك، وەك:

- Viruses
- Worms
- Intrusion Tools
- Spyware
- Rootkits

بۇچى مالوېر ئىنالىسىس ؟

- بۇ زانىنى زىانەكە.
- بۇ رېككەوتن لەنيوان ھەردولادا.
- بۇ ديارىكردى ئاستى ئەم كەسەى كە ھەلساوه بە دروستكردى.
- بۇ زانىنى ئاستى فايەكە.
- بۇ دۆزىنەوى ئەو كەسەى كە ئەم كارەى ئەنجامداوه.
- بۇ وھلامدانەوى پرسیارەكان.
- نیشاندانى نیت؟
- نیشاندانى شوینی ھۆستەكە؟
- بەردەوام چۆن كارئەكا؟

بۇچى مالوېر ئىنالىسىس ؟

- بۇ ماوى چەند ئەمىنئەتەو؟
- ئايا ئەمە بلاوئەبىتەو بو ئامىرەكانىتر؟
- چۇن بتوانم لەنىو ئامىرەكانىتر بىدۆزمەو؟
- چۇن رېگرى لىبكم لەوى كە لە داھاتوودا رووئەدات؟
- ئەم مالوېرە ئەنجامى چىيە؟
- چۇن ھاتە ناو كۆمپىوتەر؟
- كى ئەنجامى داو، وە ئاستى چۇنە؟
- چۇن لەو رزگارمبى؟
- چى شنىك ئەدزىت؟
- بەردەوام چۇن كارئەكا؟
- كاتى دروستكردنى؟

بۆچى مالوېر ئىنالىسىس ؟

- به چى زمانىك نوسراوه؟
- ئايا پارىزراوه؟
- ئايا ئەمه ئاماده كراوه بۆ بهرپېچى كردن له ئىنالىسىس؟
- ئايا هيچ فهرمانىكى روتكىتى تيايه؟
- كاتى دامهزراندنى؟



دروستکردنی ناوهندیکی سهلامهت بۆ مالویر ئنالیسیس.

- هیچ کاتیك مالویر له نیو کۆمپیوتهرهکته مهکهوه.
- ههولبه کۆمپیوتهرهکته له ژورهکهی خۆتیی نهوهک له بهردهست ئهئدامانی خیزانهکته دابیت، وه داتاكانت له نیو هاردیكدا ههلبگره بۆ ههر ئهگهریکی نهخواراو.
- ئهتوانیت کار له سههر ئهمانه بکهیت، ویندۆز وههمی بهکاربهینه بۆ ئهوهی کارهكانت به سهلامهتی ئهئجامدهیت.

- VMware Workstation
- Parallels
- Microsoft Virtual PC
- Xen

كەمكردنەۋەي مەترسى

- ئەگەر بىر ئىتاتىك ئىنالىسىس لە سىستەمىكىتر ئەنجامىدى بۇ ئەۋەي مەترسىيەكەي كەمبىرئەۋە.

- خۇ دورخستەۋە لە دەبىل كلىك كىردن لە

oh-\$@!7

- كاركىن بەشئىۋازىكى زىرەكانە.

دروستکردنی ناوچه‌یه‌کی سه‌کامه‌ت.

- ئەمه ئاسانه بۆ ئەو که دەست بەسەر هه‌موو شتی‌کت دا‌ب‌گریت.
- له‌وانه‌یه‌ ره‌وشتی هه‌رشه‌ره‌که‌ ب‌گ‌وریت، چ‌و‌ن؟!‌
- به‌ر‌ی‌گ‌ادان به‌ هه‌رشه‌ره‌که‌ بۆ ئەوه‌ی که‌ ده‌ست‌ب‌گریت به‌سەر سی‌رفه‌ره‌که‌، له‌و کاته‌یه‌ ئە‌چ‌یه‌ نی‌و جه‌نگ‌یه‌کی ر‌اس‌ته‌ق‌ینه‌ له‌گ‌ه‌ل مر‌و‌ف‌یک تا ئەوه‌ی ده‌ست ب‌گریت به‌سەر ئام‌یره‌که‌ت.
- هه‌ول‌به‌ برا‌وسه‌ری ت‌و‌ر به‌کاره‌ینیت.
- له‌وانه‌ی به‌ه‌وی ت‌و‌وه‌ زیان به‌ خه‌ل‌کی ت‌ری‌ش ب‌گه‌یه‌نیت.

دروستکردنی ناوچه‌یه‌کی سه‌کامه‌ت.

- به دُنیا یی‌وه ئی‌مه نامانه‌وی تۆ رِیگه به مالویره‌که بهیت بۆ ئه‌وه‌ی ده‌ستکاری ئینته‌رنیته دروسته‌که بکات.
- ته‌نیا هۆست-ئۆنلی به‌کار به‌ینه له فیرتوالیزاشن (ویندۆز وه‌می).
- دانانی (دنس، ویب، هتد...) له‌سه‌ر فیرتوالیزاشن (ویندۆز وه‌می).
- به‌کاره‌ینانی به‌رنامه‌ی نیّت که‌ت (ئه‌توانن له گوگ دایگرن).
- دروستکردنی سی‌رفه‌ر تایه‌ت به‌خۆت (ئه‌مه بۆ که‌سانیکه که له ئاستیکی به‌رزدا بن نه‌وه‌ک بۆ ئه‌وانه‌ی که له سه‌ره‌تان).

رېځخستنی ځیرتوالیزاشن (ویندوژ وههمی)

- پېویستی به شارهزاییه کی کم ههیه.
- به کارهینانی (هؤست-ئوئلی).
- گرنگی مهده به شیوازی ویندوژهکه.
- پېویست ناکا هیچ شتیکی شهخصی له نیو ویندوژهکه دابنییت.
- هیچ ئەکاونتیکی شهخصی له نیو ویندوژهکه به کارهیننه.

ئەنجامدانى مالوئېر ئىنالىسىس لەسەر وىندۆز

Static vs. Dynamic Analysis

Static Analysis:

- گىرنگى بە كۆد نادىت.
- ياخود كار لەسەر ئەو كۆدانە ئەكرىت كە وەك مردوو وان.

Dynamic Analysis:

- گىرنگى بە كۆد ئەدرىو راستەوخۇ كارى لەسەر ئەكرىت.
- شىۋەكەى وەك ناچەى مېرولە وايە.
- ئەى باشتىرىن و خىراتىرىن رېگا چىە؟
- باشتىرىن رېگا ئەوہىە كە كار لەسەر ھەردوو رېگا كە بگەين بۇ
- ئەوہى بگەين بە ئامانجەكەمان.

Static Analysis

- وهك ووتمان لېرېيا زۆر گرنگى به كۆد نادهين.
- وه گرنگى به (سهلامهتى) كردن نادهين كاتيك له سر ويندۆز كارئەكەين.



Static Code Analysis

فایلی شوین پهنجه (پهنجه مؤر)

- یه کم ریگا تاقیکردنه وه له سهر فایلی پهنجه مؤر (شوین پهنجه) ئەکەین،
وه وا ئەزانیت ئەگەر له کاتی ئنالسیس دا بگۆریت.
- به کارهینانی

`md5deep, md5deep, md5sum, flex, etc...`

وهك ئەم نمونهی خوارهوه،

```
krk@ws ~-> md5sum hello* > md5sum_hello_files.txt
```

```
krk@ws ~-> cat md5sum_hello_files.txt
```

```
611957bd6a2ad9612027904a65f3638e hello
```

```
7ab03b44ac6a20b0fa0cc80b636b0f51 hello.c
```

```
bel5bfe7ddf597c8ea86eeeb2cbf52a3 hello_debug
```

```
38e85544dd1319c523130923eafc86ac hello_static
```

- کاتیك له کارهکه تهواوبویت واتا ئنالسیس، وه له نرخیکان دئنیابوویت،

ئەگەرئیتته دواوه بۆ ئەوهی دئنیابیت که **نرخی** نهگۆراوه وهك خۆیهتی.

```
krk@ws ~-> md5sum _c md5sum_hello_files.txt
```

Virus Scan

- ھەموكات پشكىن بۇ مالوئىرىكى نوئا بىكە بە ئەنتىفايرۇسىك
كە ئەپدەيتى نوئا بىت.

- لەوانەيە كەسىكى تر ئەو بەرنامەيە دۇزىبىتەوھو
تاقىكدنەوى لەسەر كىردىت كە تۇ كارى لەسەر دەكەيت.

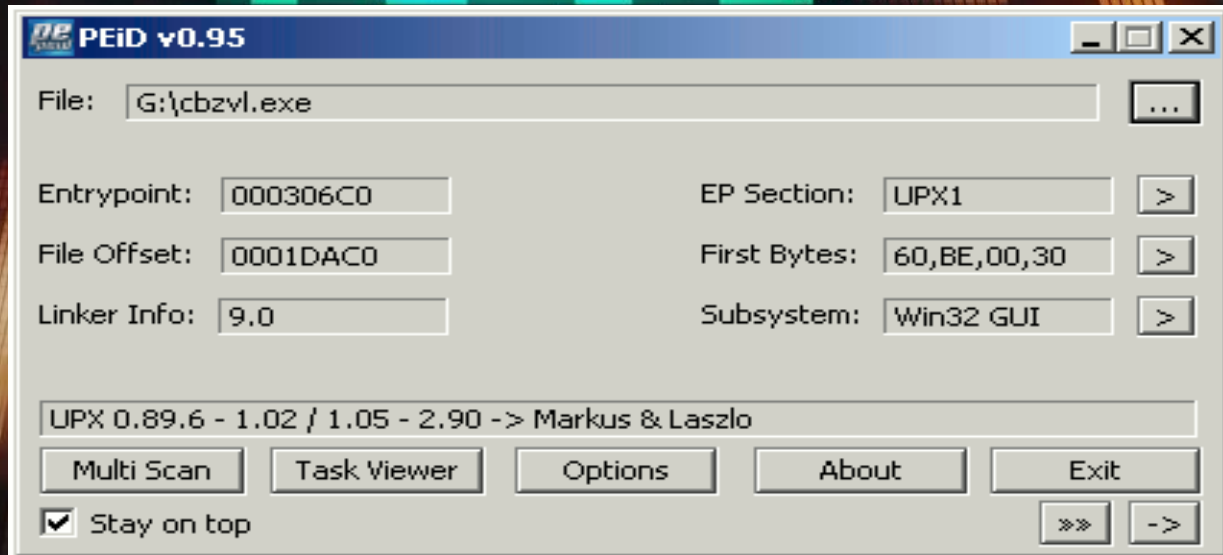
- ئەگەر دواى ئەم رىگاپەنەش ھەستت بە شتىك كىردو
دلىانەبويت ئەتوانىت لە

<http://www.virusotal.com>

پشكىنى بۇ بىكەيت.

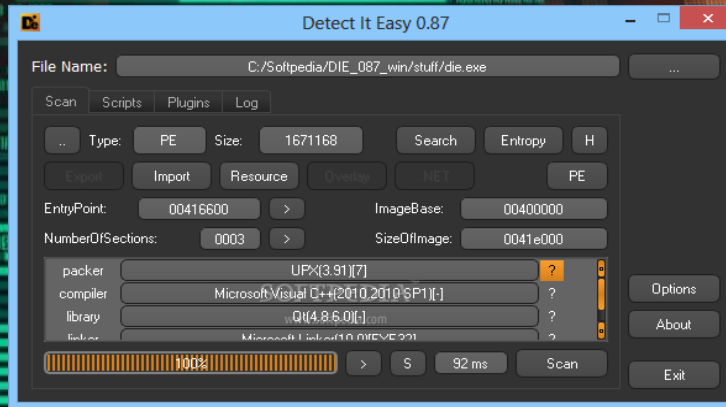
PEiD

- بهرنامه‌یه‌کی به‌خوږاییه که زانیاریت له‌سره هم بهرنامه‌ی پښت نه‌دات.
- وه پښت نه‌لښت که هم بهرنامه‌یه به چی پاک کړاوه (پارږیزاوه له نه‌پاک کردن) وه پښت نه‌لښت چوڼ نه‌پاکي بکه‌یت (نه‌گهر بکړیت).



نه‌مانه‌ش هه‌مان كاری ئه‌م به‌زنامه‌ی سه‌روه ئه‌كه‌ن،

Detect It Easy



pefile

```
C:\Windows\system32\cmd.exe
C:\Users\Administrator\Desktop\13_3_2013>PEFile32.exe -?
#####
PEfile - PE header dumper
(ver: 2.1.0.0 alpha)
#####
Copyrights(c) 2005-2013 by Ran Shnider.
http://www.pefile.net
#####
Special thanks to: Mikhail Kasinov
https://twitter.com/Benzin_KM
#####
pefile - PE header dumper (ver: 2.1.0.0 alpha)
Use:
pefile <file name> [options]
pefile -? or -h or -H - show this help
name: a file to dump it's header (.exe, .dll, .sys).
Options:
-o <output>: Optional output file are: html, txt.
#####
Example:
pefile file.exe -o html : will output a file.exe.html file.
pefile file.exe > out.txt : will output a text file: out.txt.
```

Strings

- هندیڭجار شتهکان ئاسانن.
- سهیریکی وینهکه بکه هندیڭجار وا ئاشکرایه.

```
$ strings unknown2.exe
...
<host> <port>
-install <host> <port>
-remove
EC.1
EC.2
cmd.exe
connect thread started!
...
```

Strings, Binted, HexWorkshop, IDAPro

- بهلام ئاڭداری کۆدهکانبه.

Strings

C:\analysis> strings

Strings v2.1

Copyright (C)1999-2003 Mark Russinovich

Systems Internals - www.sysinternals.com

usage: strings [-s] [-n length] [-a] [-u] [-q] <file or directory>

-S

Recurse subdirectories

-n

کمترین ریژه (تاسایی 3 به)

-a

گهران به دواى Ascii

-u

گهران به دواى Unicode

-q

دەرچون

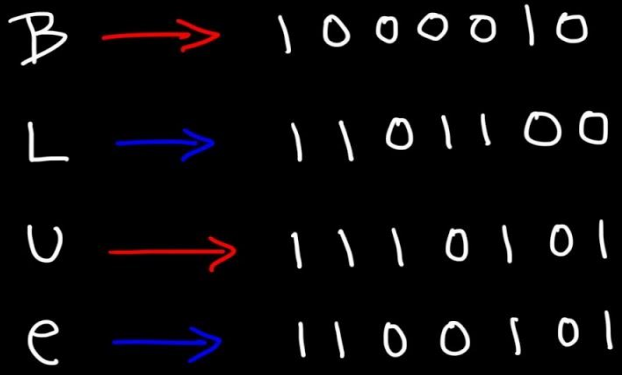
UNICODE

```
[root@parrot]-[~/home/pentest/Malware Analysis/Samples/Malware/Maldoc]
#cat Unicode
u00e8u0000u5d00uc583ub914u018bu0000u3db0u4530u4500u7549uebf9uad00uadaduadaduadadud4adu3dc1u3d3du5962u00
b0ub641u0155ucab6u3957ud564u3db2u3d3duc4dfu5255u3d53u553du4f48u5051uc269ub62bud5d5u3d44u3d3dueab6ubd7a
b63du6ce1u6e6fu3955u3d3cuc23du316bu6467u6f6cu3fb6u7e6ue06bdu483dubcc7uc146u5813u5845u3e48ud6beub435ufa
du6a6euc26du2d6buc5beu483du573bu6e3cu6bc2u6739ube64u39ffubd7cu3d07u8948u6bc2u6c35ub66bu0148u49b6u4513u
549uf6fcu3e30u7de7uccd6u2206uda48ub663u1963ue03eub65bu7631u63b6u3e21ub6e0ub639uf83eu6396ufe64uc2d5uc2c
u6c77u3d4eu4955u4d49u1207u0412u130fu0f0bu0c13u0d0du0b13u120bu505fu0212u0055u5c04u3d58u5a5eu0254u0405u5
04u0b0du0d0du0d0du0d0du0d0du0d0du0c5eu0d08u0c0e0e04u0d0du0c0du090du040du0d0du0d0du0d0du0d0du0a0cu3d0d
```

ASCII

ASCII Code

Char.	ASCII	Char.	ASCII	Char.	ASCII
@	64	U	85	j	106
A	65	V	86	k	107
B	66	W	87	l	108
C	67	X	88	m	109
D	68	Y	89	n	110
E	69	Z	90	o	111
F	70	[	91	p	112
G	71	\	92	q	113
H	72	]	93	r	114
I	73	^	94	s	115
J	74	_	95	t	116
K	75	`	96	u	117
L	76	a	97	v	118
M	77	b	98	w	119
N	78	c	99	x	120
O	79	d	100	y	121
P	80	e	101	z	122
Q	81	f	102	{	123
R	82	g	103	|	124
S	83	h	104	}	125
T	84	i	105	~	126



Recurse subdirectories

```
public function shcEnCry($key, $locate) {
    $data      = file_get_contents($locate);
    $iv        = mcrypt_create_iv(mcrypt_get_iv_size(MCRYPT_RIJNDAEL_128, MCRYPT_MODE_CBC), MCRYPT_DEV_URANDOM);
    $encrypted = base64_encode($iv . mcrypt_encrypt(MCRYPT_RIJNDAEL_128, hash('sha256', $key, true), $data, MCRYPT_MODE_CBC, $iv));
    if(file_put_contents($locate, $encrypted)) {
        echo '<i class="fa fa-lock"
aria-hidden="true"></i> <font
color="#00BCD4">Locked</font> (<font
color="#40CE08">Success</font> <font
color="#FF9800">|</font> <font
color="#2196F3">' . $locate . '</font> <br>';
    } else {
        echo '<i class="fa fa-lock"
aria-hidden="true"></i> <font
color="#00BCD4">Locked</font> (<font
color="red">Failed</font> <font
color="#FF9800">|</font> ' . $locate . '<br>';
    }
}
```

Encryption

```
public function shcDeCry($key, $locate) {
    $data      = base64_decode(file_get_contents($locate));
    $iv        = substr($data, 0, mcrypt_get_iv_size(MCRYPT_RIJNDAEL_128, MCRYPT_MODE_CBC));
    $decrypted = rtrim(mcrypt_decrypt(MCRYPT_RIJNDAEL_128, hash('sha256', $key, true), substr($data, mcrypt_get_iv_size(MCRYPT_RIJNDAEL_128,
MCRYPT_MODE_CBC)), MCRYPT_MODE_CBC, $iv), "\0");
    if(file_put_contents($locate, $decrypted)) {
        echo '<i class="fa fa-unlock"
aria-hidden="true"></i> <font
color="#FFEB3B">Unlock</font> (<font
color="#40CE08">Success</font> <font
color="#FF9800">|</font> <font
color="#2196F3">' . $locate . '</font> <br>';
    } else {
        echo '<i class="fa fa-unlock"
aria-hidden="true"></i> <font
color="#FFEB3B">Unlock</font> (<font
color="red">Failed</font> <font
color="#FF9800">|</font> <font
color="#2196F3">' . $locate . '</font> <br>';
    }
}
```

Decryption

```
public function kecuall($ext, $name) {
    $re = "/({$name})/";
    preg_match($re, $ext, $matches);
    if($matches[1]) {
        return false;
    }
    return true;
}
```

Strings

- به وریایه وه کاریکه.
- هیچ شتیک نیبه که هیرشبره که بوستینئ له هه لئه لاتندی شیکه ره وه که (ئنا لسیس).
- سترینگ بو سه رتا شتیکی باشه، وه ئه توانی بو دستکه وتنی زانیاریش سودی لیبینیت.

```
rem barok -loveletter(vbe) <i hate go to school>
rem by: spyder / ispyder@mail.com / \
      @GRAMMERSoft Group / Manila,Philippines
On Error Resume Next
dim fso,dirsystem,dirwin,dirtemp,eq,ctr,file,
    vbscopy,dow eq="" ctr=0
Set fso = CreateObject("Scripting.FileSystemObject")
set file = fso.OpenTextFile(WScript.ScriptFullName,1)
```

سوود وەرگرتن له گهرانی ئینتەرنیټدا.

- زانیاری لەسەر ستیرینگ پەیدا بکە، وە ئاگاداری ئیمەیل، نیټوۆرک بە.

- گهران له ئینتەرنیټ بۆ کۆکردنەوهی زانیاری یاخود ئاگاداری بون له ههوا له نوێیهکان.

- ههول به فیڕی زمانی ئینگلیزی، روسی، چینی بیت بۆ ئەمەش ئەتوانیت سوود له گوگل وەر بگریت.

<https://translate.google.com/>

- بهلام ئەبێ ئاگاداریت چونکە ئەتوانیت سەیرت بکات.

بەکارنە ھېناتى سترىنگ

- ئەتوانىت تەنيا سوود لە packers وەرگىت.

- بۇ وەرگرتى زانىارى لەسەر ئەم بەرنامەيە ياخود بەچى پارىزراوہ.

- کارەکانت بۇ ئاسان ئەکا.

دواتر بە دريژى باسى packers ئەکەين.

PE Format

زانیاریه‌کان له‌سه‌ر PE:

- بۆ ویندۆز

<https://docs.microsoft.com/en-us/windows/win32/debug/pe-format>

- بۆ لینۆکس:

www.skyfree.org/linux/references/ELF_Format.pdf

- چەند زانیاریه‌کی به‌سه‌ود که ئەم کارانه ئەکا،

- Imports
- Exports
- Metadata
- Resources

PE Format

- بهرنامه گان:

➤ PEview- Wayne Radburn:

<http://www.magma.ca/~wir/>

➤ PEBrowse Professional - Russ Osterlund:

<http://www.smidgeonsoft.com>

➤ Objdump-Cygwin:

<http://www.cygwin.com>

➤ IDA Pro - DataRescue:

<http://www.datarescue.be>

➤ Resource Hacker - Angus Johnson:

<http://www.angusj.com/resourcehacker/>

PF-view

Recycle Bin
Lab Book
Virus Total
Practical Malware A...
Tools
WireShark
H
Hysical
Winamp
Zamzar (Stu)
PE Explorer
Spender
Shortcut
RH
Resource
Hacker

Workstation
My Computer
CEN
Windows 7 - Hardware Ana...
OF 117
Ransomware
Windows 7 - Vic
M.X

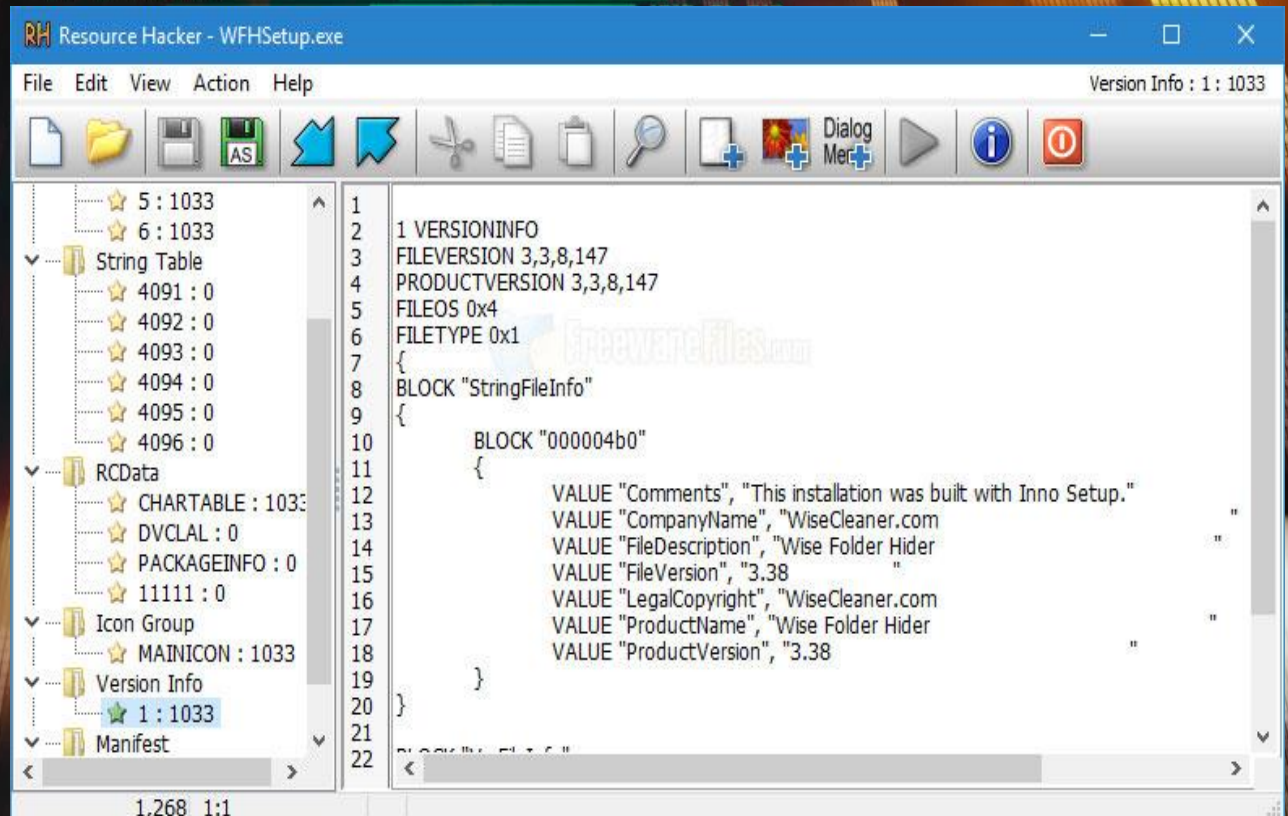
PF-view - C:\Users\Student\Desktop\Practical Malware Analysis Lab\Chapter_11\Lab01-01.exe

Address	pFile	Raw Data	Value
00000000	4D 5A 90 00 03 00 00 00	04 00 00 00 FF 00 00 00	MZ.....
00000010	E8 00 00 00 00 00 00 00	40 00 00 00 00 00 00 00@.....
00000020	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00000030	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00000040	0E 1F BA 0E 00 B4 09 CD	21 B9 01 4C C0 21 54 68	.....I..L.ITh
00000050	69 73 20 70 72 6F 67 72	61 6D 20 63 61 6E 6E 6F	.....is program cannot
00000060	74 20 62 65 20 72 75 6E	20 69 6E 20 44 4F 53 20	...t be run in DOS
00000070	6D 6F 64 65 2E 0D 0A 24	00 00 00 00 00 00 00 00	mode...\$
00000080	29 89 36 89 6D E8 58 DA	6D E8 58 DA 6D E8 58 DA	) 6 m X m X m X
00000090	16 F4 54 DA 6C E8 58 DA	85 F7 52 DA 6E E8 58 DA	. T I X R I X
000000A0	EE F4 66 DA 6C E8 58 DA	85 F7 5C DA 6F E8 58 DA	. V I X . . . o X
000000B0	6D E8 59 DA 76 E8 58 DA	0F F7 4B DA 6E E8 58 DA	m V X . K n X
000000C0	85 F7 53 DA 6F E8 58 DA	52 69 63 68 6D E8 58 DA	. S o X R i c h m X
000000D0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000000E0	00 00 00 00 00 00 00 00	50 45 00 00 4C 91 03 00	.....PE_L...
000000F0	D3 2F 0E 4D 00 00 00 00	00 00 00 00 E0 00 0F 01	.../..M.....
00000100	09 91 06 00 00 00 00 00	00 29 00 00 00 00 00 00	.....
00000110	23 18 00 00 00 10 00 00	00 29 00 00 00 00 40 00	.....
00000120	00 10 00 00 10 00 00 00	04 00 00 00 00 00 00 00	.....
00000130	04 00 00 00 00 00 00 00	00 48 00 00 00 10 00 00	.....
00000140	00 00 00 03 00 00 00 00	00 00 10 00 00 10 00 00	.....
00000150	00 00 10 00 00 10 00 00	00 00 00 00 19 00 00 00	.....
00000160	00 00 00 00 00 00 00 00	7C 29 00 00 3C 00 00 00	.....|<.....
00000170	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00000180	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00000190	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000001A0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000001B0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000001C0	00 20 00 00 6C 00 00 00	00 00 00 00 00 00 00 00	.....
000001D0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
000001E0	2E 74 65 78 74 00 00 00	70 69 00 00 00 10 00 00	...text...p...
000001F0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00000200	00 00 00 20 00 00 00 60	2E 72 64 61 74 61 00 00	.....:rdata...
00000210	E2 02 00 00 28 00 00 00	00 18 00 00 00 20 00 00	.....
00000220	00 00 00 00 00 00 00 00	00 00 00 00 48 00 00 48@..@
00000230	2E 64 61 74 61 00 00 00	FC 00 00 00 00 30 00 00	...data.....0
00000240	00 10 00 00 30 00 00 00	00 00 00 00 00 00 00 00	.....0.....
00000250	03 00 00 00 48 00 00 C0	00 00 00 00 00 00 00 00@.....
00000260	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00000270	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....
00000280	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	.....

Viewing Lab01-01.exe

5:32 AM
6/16/2017

Resource Hacker



Disassembly

- به بهکارهینانی *disassemblers* کان ئەتوانین کۆدی بەرنامەکان ببینین ئەمەش ئەچیتە ریزی *reverse* .
- چەندین بەرنامە ھەبە بۆ پیشاندانی کۆدەکانی *x86* وەك،
Objdump, *Python w/ libdisassemble*, *IDA Pro*
- بەلام زۆینەى خەلك تاوھكو ئیستاش *IDA Pro* بەكارئەھینن.
- كاری *disassembly* ئەكریت قورس بێت و ئازار بەخش بێت
و ھ كاتیكى زۆریشى ئەوئ.
- ئەوھى لەسەر تۆیە ئامانجەكات لە مێشك بێت و
ساردنەبیتەوھ.

IDA PRO

The screenshot displays the IDA Pro interface with the following components:

- Left Panel:** A list of functions, including various experimental file system operations like `create_symlink`, `create_directory`, `current_path`, `equivalent`, `file_size`, `hard_link`, `write_time`, `remove`, `rename`, `resize_file`, `space`, `status`, `create_dir`, `create_directory`, `is_empty`, `symlink_status`, `permissions`, and `remove_all`.
- Top Panel:** A control flow graph (CFG) showing the flow between code blocks. The current block is `loc_40C664`.
- Main Panel:** Assembly code for `loc_40C664`. The code includes instructions such as `sub rsp, 8`, `lea r9, aShooterSound`, `lea r8, aRecord`, `lea r14, [rsp+60h+var_44]`, `lea rsi, aGnomeShellExt`, `xor ecx, ecx`, `xor edi, edi`, `mov edx, 2`, `xor ebp, ebp`, `push r14`, `push 0`, `call _pa_simple_new`, `add rsp, 20h`, `test rax, rax`, `mov r13, rax`, and `js short loc_40C6C5`. Comments indicate the code is related to "Malware - EvilGnome".
- Bottom Panel:** A snippet of assembly code showing `mov rsi, [r12]`, `mov rdi, rax`, `mov rcx, r14`, `mov rdx, r2b`, `call _pa_simple_read`, `not eax`, `mov rdi, r13`, and `mov ebp, eax`.

Dynamic Analysis

- ئەتوانىت سود لە **Static Analysis** وەرگرت وە لە سەرەووە كەمىك زانىارىت پەيدا كەرد.
- بە ھۆى **Static Analysis** ئەتوانىت وەلامى پرسىارەگان بەیتەو بەلام بە گشتى سەختە.
- لىرەيا بە زۆرى گرنكى بەو ئەدەى كە ئايا مالوڤر جى ئەكا وە چۆن كارتەكا.
- لە **Dynamic Analysis** راستەوخۆ كار لەسەر بەرنامەگان ئەكرى واتا لەوكاتەى كە كراوھن.

دروستکردنی ناوچه‌یه‌کی سه‌کامه‌ت.

- له *static analysis* گزنگی به دروستکردنی ناوچه‌یه‌کی سه‌لامه‌ت نه ئه‌درا بو مالویر ئنالسیس.
- بیگومان وهک هه‌میشه پئویستت به VMware ئه‌بئ ئه‌توانیت چهند سیسته‌میک ناماده‌بکه‌یت بو ئه‌م کاره.
- بیگومان ئه‌بئ چهن‌دین جار به‌رنامه‌که بکه‌ینه‌وهو داخه‌ین به‌هوی به‌کاره‌ینانی *snapshots* کاره‌کان ئاسانتره.

System Monitoring

- له سهرت پښوېسته كا چاوډيرى نه مانه بگهيت:

Registry Activity
File Activity
Process Activity
Network Traffic

- بهرنامه كان:

SysInternals Process Monitor
Wireshark

- چه ندين بهرنامه يتتر كه له دواييدا باسيان نه كم.

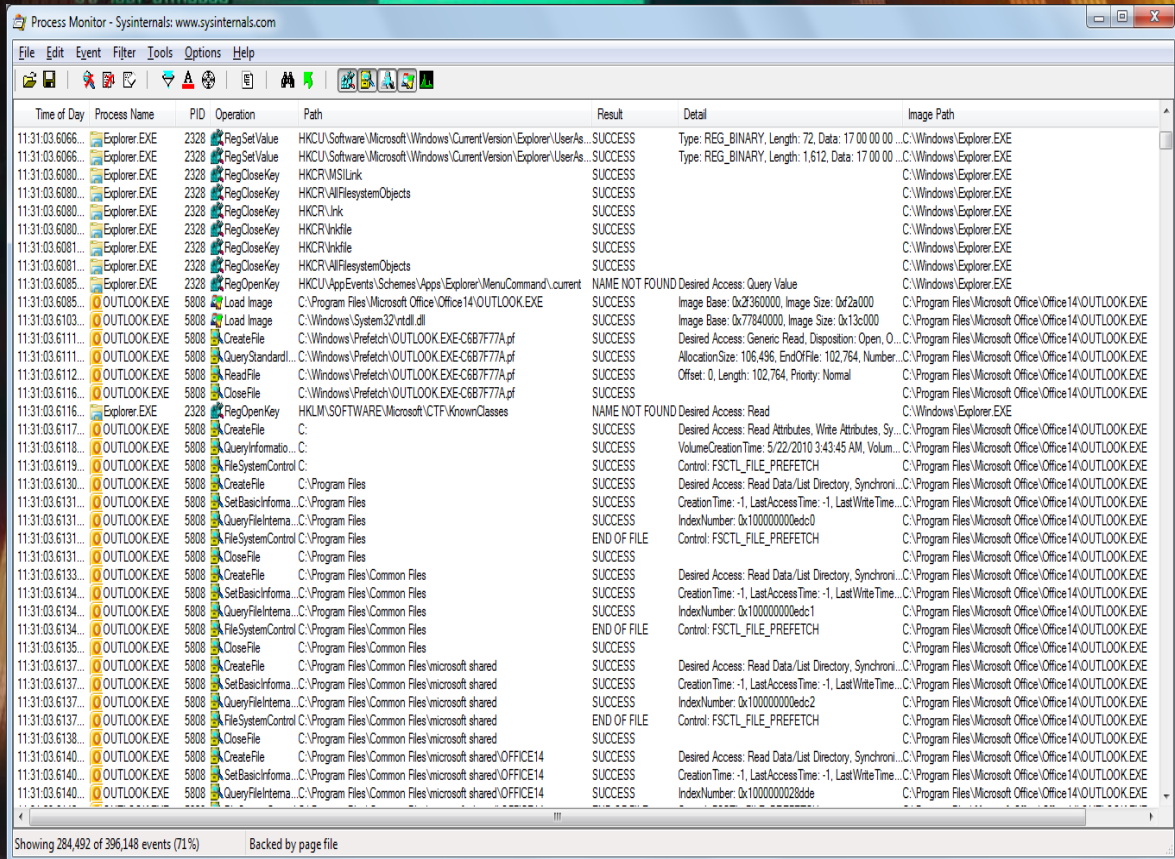
Process Monitor

- به گشتی چاودیږی یاخود ریکۆرد کردنی ئەو کارانه ئەکا
که له نیو کۆمپیوتەر ههکتدا ئەکرڤ وهک، *Registry*، هتد...
- هپچ کارڤک به بڤ *Process Monitor* ناکرڤ وه پڤویسته
به ردهوام چاودیږی ئەم به شه بکهیت.

- *Filemon/Regmon*:

به گشتی ئەمانه چاودیږی هه موو شتڤک ئەکه ن واتا
ئوهی رۆبدا ت ئەمانه ریکۆردی ئەکه ن.

Process Monitor



Process Monitor - Sysinternals: www.sysinternals.com

File Edit Event Filter Tools Options Help

Time of Day	Process Name	PID	Operation	Path	Result	Detail	Image Path
11:31:03.6066...	Explorer EXE	2328	RegSetValue	HKCU\Software\Microsoft\Windows\CurrentVersion\Explorer\UserAs...	SUCCESS	Type: REG_BINARY, Length: 72, Data: 17 00 00 00 ...	C:\Windows\Explorer.EXE
11:31:03.6066...	Explorer EXE	2328	RegSetValue	HKCU\Software\Microsoft\Windows\CurrentVersion\Explorer\UserAs...	SUCCESS	Type: REG_BINARY, Length: 1,612, Data: 17 00 00 00 ...	C:\Windows\Explorer.EXE
11:31:03.6080...	Explorer EXE	2328	RegCloseKey	HKCR\MSLink	SUCCESS		C:\Windows\Explorer.EXE
11:31:03.6080...	Explorer EXE	2328	RegCloseKey	HKCR\WFilesystemObjects	SUCCESS		C:\Windows\Explorer.EXE
11:31:03.6080...	Explorer EXE	2328	RegCloseKey	HKCR\Link	SUCCESS		C:\Windows\Explorer.EXE
11:31:03.6080...	Explorer EXE	2328	RegCloseKey	HKCR\Inkfile	SUCCESS		C:\Windows\Explorer.EXE
11:31:03.6081...	Explorer EXE	2328	RegCloseKey	HKCR\Inkfile	SUCCESS		C:\Windows\Explorer.EXE
11:31:03.6081...	Explorer EXE	2328	RegCloseKey	HKCR\WFilesystemObjects	SUCCESS		C:\Windows\Explorer.EXE
11:31:03.6085...	Explorer EXE	2328	RegOpenKey	HKCU\AppEvents\Schemes\Apps\Explorer\MenuCommand\current	NAME NOT FOUND	Desired Access: Query Value	C:\Windows\Explorer.EXE
11:31:03.6085...	OUTLOOK EXE	5808	Load Image	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE	SUCCESS	Image Base: 0x2360000, Image Size: 0x2a000	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6103...	OUTLOOK EXE	5808	Load Image	C:\Windows\System32\ntdll.dll	SUCCESS	Image Base: 0x77840000, Image Size: 0x13c000	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6111...	OUTLOOK EXE	5808	CreateFile	C:\Windows\Prefetch\OUTLOOK.EXE-C6B7F77A.pf	SUCCESS	Desired Access: Generic Read, Disposition: Open, O...	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6111...	OUTLOOK EXE	5808	QueryStandardI...	C:\Windows\Prefetch\OUTLOOK.EXE-C6B7F77A.pf	SUCCESS	AllocationSize: 106,496, EndOfFile: 102,764, Number...	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6112...	OUTLOOK EXE	5808	ReadFile	C:\Windows\Prefetch\OUTLOOK.EXE-C6B7F77A.pf	SUCCESS	Offset: 0, Length: 102,764, Priority: Normal	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6116...	OUTLOOK EXE	5808	CloseFile	C:\Windows\Prefetch\OUTLOOK.EXE-C6B7F77A.pf	SUCCESS		C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6116...	Explorer EXE	2328	RegOpenKey	HKLM\SOFTWARE\Microsoft\CTF\KnownClasses	NAME NOT FOUND	Desired Access: Read	C:\Windows\Explorer.EXE
11:31:03.6117...	OUTLOOK EXE	5808	CreateFile	C:	SUCCESS	Desired Access: Read Attributes, Write Attributes, Sy...	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6118...	OUTLOOK EXE	5808	QueryInformatio...	C:	SUCCESS	VolumeCreationTime: 5/22/2010 3:43:45 AM, Volum...	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6119...	OUTLOOK EXE	5808	FileSystemControl	C:	SUCCESS	Control: FSCTL_FILE_PREFETCH	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6130...	OUTLOOK EXE	5808	CreateFile	C:\Program Files	SUCCESS	Desired Access: Read Data/List Directory, Synchroni...	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6131...	OUTLOOK EXE	5808	SetBasicInforma...	C:\Program Files	SUCCESS	CreationTime: -1, LastAccessTime: -1, LastWriteTime...	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6131...	OUTLOOK EXE	5808	QueryFileIntema...	C:\Program Files	SUCCESS	IndexNumber: 0x10000000dc0	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6131...	OUTLOOK EXE	5808	FileSystemControl	C:\Program Files	END OF FILE	Control: FSCTL_FILE_PREFETCH	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6131...	OUTLOOK EXE	5808	CloseFile	C:\Program Files	SUCCESS		C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6133...	OUTLOOK EXE	5808	CreateFile	C:\Program Files\Common Files	SUCCESS	Desired Access: Read Data/List Directory, Synchroni...	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6134...	OUTLOOK EXE	5808	SetBasicInforma...	C:\Program Files\Common Files	SUCCESS	CreationTime: -1, LastAccessTime: -1, LastWriteTime...	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6134...	OUTLOOK EXE	5808	QueryFileIntema...	C:\Program Files\Common Files	SUCCESS	IndexNumber: 0x10000000dc0	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6134...	OUTLOOK EXE	5808	FileSystemControl	C:\Program Files\Common Files	END OF FILE	Control: FSCTL_FILE_PREFETCH	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6135...	OUTLOOK EXE	5808	CloseFile	C:\Program Files\Common Files	SUCCESS		C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6137...	OUTLOOK EXE	5808	CreateFile	C:\Program Files\Common Files\microsoft shared	SUCCESS	Desired Access: Read Data/List Directory, Synchroni...	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6137...	OUTLOOK EXE	5808	SetBasicInforma...	C:\Program Files\Common Files\microsoft shared	SUCCESS	CreationTime: -1, LastAccessTime: -1, LastWriteTime...	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6137...	OUTLOOK EXE	5808	QueryFileIntema...	C:\Program Files\Common Files\microsoft shared	SUCCESS	IndexNumber: 0x10000000dc2	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6137...	OUTLOOK EXE	5808	FileSystemControl	C:\Program Files\Common Files\microsoft shared	END OF FILE	Control: FSCTL_FILE_PREFETCH	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6138...	OUTLOOK EXE	5808	CloseFile	C:\Program Files\Common Files\microsoft shared	SUCCESS		C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6140...	OUTLOOK EXE	5808	CreateFile	C:\Program Files\Common Files\microsoft shared\OFFICE14	SUCCESS	Desired Access: Read Data/List Directory, Synchroni...	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6140...	OUTLOOK EXE	5808	SetBasicInforma...	C:\Program Files\Common Files\microsoft shared\OFFICE14	SUCCESS	CreationTime: -1, LastAccessTime: -1, LastWriteTime...	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE
11:31:03.6140...	OUTLOOK EXE	5808	QueryFileIntema...	C:\Program Files\Common Files\microsoft shared\OFFICE14	SUCCESS	IndexNumber: 0x100000028dc	C:\Program Files\Microsoft Office\Office14\OUTLOOK.EXE

Showing 284,492 of 396,148 events (71%) Backed by page file

Wireshark

- به گشتی ئەمەیان پەيوەندی بە ئینتەرنیتهوه هەیه

چاودیژی یاخود ئەو کارانه ریکۆرد ئەکا که پەيوەندی بە

ئینتەرنیتهکهتهوه هەیه.

- ئەمەیان هیچ پەيوەندیەکی بە *Process Monitor* نییه.

- ئەوهی لەسەرتۆ پۆیسته بەکارهێنانی هەردوکیانە لە

بەك کاتدا.

باشترین رېځا بۇ *Dynamic Analysis*

- به كارهيځانې هردوو بهرنامه به له يه كاتدا بۇ نهوې
به تهواوې كوئترولې كارهكان بهميت.

چہند بہرنامہیہ کیتر

> Port Explorer

https://download.cnet.com/DiamondCS-Port-Explorer/3000-2085_4-10191769.html

> Malcode Analyst Pack

<https://github.com/dzzie/MAP>

> Paros

<https://sourceforge.net/projects/paros/>

> Fiddler

<https://www.telerik.com/fiddler>

> Norman Sandbox

<https://www.norman.com/en-ww/homepage>

چاودېرېکردنې سيستم

- به م رېگيانه ي که له سره ووه باس م کرد نه توانيت وهلامې زور به ي پرسيارهگان به يته وه به لام هيشتا ماوه تاوهکو وهلامې هه موو پرسيارهگان به يته وه.
- ليرها پيوستمان به چنډ Debugger نه بيت، نه توانيت نه مانه به کار به يت:

Windbg (Microsoft)

Ollydbg (OlehYuschuk)

Ida Pro (Datarescue)

Armored Malware

مہبہ ست لیڑہیا ٹہم مالویرانہیہ کا پاریزراون



تایہ تمہ ندیہ کانی

- Encryption
- Compression
- Obfuscation
- Anti-Patching:
- CRC Checking
- Anti-Tracing:
- SoftICE, ICEDump Detection Code
- Crashes OS if they are Found in Memory
- Anti-Unpacking
- Anti-Vmware
- Polymorphic/Self-Mutating
- Restrictive Dates
- Password Protected
- Configuration Files

Packers

- تېپەراندى دژە فايرۇس.
- پاراستنى لە *reverse engineering*.
- بە گشتى بە كارىكى پيويست دائەرنى بۇ پروگرامەر ئەگەر پروگرامەرىك نەتوانى بەرھەمەكى پارىزىت ئەوہ زىانىكى زۇرى پيئەگا.



Packers

- UPack by Dwing, 08.IV.2005.
- Mew by Northfox, 22.IX.2004.
- UPX by Laszlo & Markus, 03.VII.2004.
- Packman by bubba, 27.II.2005.
- EZIP by Jonathan Clark, 21.VII.2001.
- PE-PaCK by ANAKIN, 12.I.1999.
- FSG by bart, 24.V.2004.
- Dropper by Gem, 13.III.2005.
- VMProtect.
- Andromeda.
- The Enigma Protector.
- CExe by Scott, 20.III.2003.
- PE Diminisher by IERAPIY, 11.IX.1999.

• Packers

- PE Crypt32 by random, killal and acpizer. 12.I.1999.
- PEsPin by cyberbob. 09.III.2005.
- NSPack by North star Tech. 05.VI.2005.
- eXpressor by CCSoflLabs. 28.III.2005.
- ThinInstall by Jonathan Clark. 29.III.2005.
- PE Bundle by Jeremy Collake. 12.III.2004.
- PE Compact by DevelTek. 06.IV.2005.
- AS-Pack (shareware) by Solodovnikov Alexey. 07.I.2002.
- NeoLife (shareware) by NeoWorx Inc. 04.IV.1999.
- WWPack 32 by Piotr Warezak. 07.VII.2000.
- ARM Protector by SMOKE. 22.IX.2004.

کاربره ریہ گانی Packing

- ہیج strings نامیئی.

- ئەمانەش دیارنامیئن.

- Kernel32.dll
- LoadLibrary
- GetProcAddress
- VirtualAlloc
- VirtualFree

- شاردهنوهی کۆدهکان یاخود تێکدانی کۆدهکان.

- گۆرینی کیشی بهرنامەکه بۆ کیشیکی نائاسیی.

- لهگهڵ چەند بەشیکیتەر.

Packing کاریگریه گانی

Packed:

RVA	Name	RVA	Hint	Name
0101AE3Ch	kernel32.dll	0101AE00h	0000h	LoadLibraryA
		0101AE04h	0000h	GetProcAddress
		0101AE08h	0000h	VirtualAlloc
		0101AE0Ch	0000h	VirtualFree

Unpacked:

RVA	Name	RVA	Hint	Name
01007AACH	comdlg32.dll	010012C4h	000Fh	PageSetupDlgW
01007AFAh	SHELL32.dll	010012C8h	0006h	FindTextW
01007B3Ah	WINSPOOL.DRV	010012CCh	0012h	PrintDlgExW
01007B5Eh	COMCTL32.dll	010012D0h	0003h	ChooseFontW
01007C76h	msvcrt.dll	010012D4h	0008h	GetFileTitleW
01007D08h	ADVAPI32.dll	010012D8h	000Ah	GetOpenFileNameW
010080ECh	KERNEL32.dll	010012DCh	0015h	ReplaceTextW
0100825Eh	GDI32.dll	010012E0h	0004h	CommDlgExtendedError
0100873Ch	USER32.dll	010012E4h	000Ch	GetSaveFileNameW

Packing کاربره ریبه گانی

Unpacked: Entropy (st dev) 0.7653

Name	Virtual Size	Virtual Address	Size of Raw Data	Pointer to Raw Data	Characteristics	Pointing Directories
<input checked="" type="checkbox"/> text	00007748h	01001000h	00007800h	00000400h	60000020h	Import Table; Debug Data; Load Config...
<input checked="" type="checkbox"/> .data	00001BA8h	01009000h	00000800h	00007C00h	C0000040h	
<input checked="" type="checkbox"/> .rsrc	00008958h	0100B000h	00008A00h	00008400h	40000040h	Resource Table

Packed: Entropy (st dev) 1.0666

Name	Virtual Size	Virtual Address	Size of Raw Data	Pointer to Raw Data	Characteristics	Pointing Directories
<input checked="" type="checkbox"/> .text	00013000h	01001000h	00004200h	00000400h	E0000060h	
<input checked="" type="checkbox"/> .rsrc	00008000h	01014000h	00007C00h	00004600h	E0000020h	Import Table; Resource Table

Strings in Packed Binary

```
C:\analysis>strings sak.exe
Strings v2.1
Copyright (C) 1999-2003 Mark Russinovich
Systems Internals - www.sysinternals.com
!Windows Program
$PE
@.data
.idata
$s!
;Ot
(!B
KERNEL32.dll
LoadLibraryA
GetProcAddress
DM.D
&DS
d'D
~E-
```


باشه Packing خراپه يا خود زياني ههيه؟

- نهخير بهلكو كارىكى باشه و سودىكى زورى بو ئه و كهسه ههيه كه بهرنامهكهى دروستكردوه.
- چهندين بهرنامهى بهناوبهنگ ههن كه پاك كراون وهك، بهرنامهكانى گوگل، ئه دووب، هتد...
- باشه لهوانهيه بپرسيت جياوازيان چيهه؟

جياوازيان چيه؟

- زانياري كۆبكرهوه لهسه *Static & PL*.
- ههولبه زانياري دهرهكيشته ههيت.
- لهگهه ناسينهوه كۆدهكان ياخود ريزهكان.



Unpacking

- Ollydbg>OllyScript>OllyDump
- Ollydbg>bp in Library>OllyDump
- UnESG, upx, etc
- PEID
- ProcDump
- OEPFinder
- Etc...

Unpackers

- Ollydbg with the Ollydumpplugin and a variety of OllyScripts.
- IDAPro with the "Universal UnpackerPlugin."
- Generic Unpacker Win32 by ChristophGabler, 31.VII.2001.Win32 Intro by VitalyEvseenko, 21.IX.1999.
- UN_PACK by Snow Panther, 21.IV.2003.
- UNPE_SHIELD by G_RoM, 1.VI.1999 de_CodeCrypt by xOANINO, 10.V.2000.
- Ni2Untelock by Ni2, 31.XII.2000.
- DeYoda by C_ripper, 18.II.2001.

- UnPEProt by Lorian, 23.I.1999.
- DePE_PACK by Unknown One, 03.V.2002.
- Un_FSG by SMOKE, 12.I.2003.
- un_ASPack by dtg, 26.VIII.1999.
- StealthKiller by Snow Panther, 04.IX.2002.

بېگومان لمانه زياتر هيه وه ريځاي ئاسان بۇ ههمويان، بۇ
ئمه ئهتوانن سوود له يوتوب و گوگل وهرگرن.

تہ توان سوود ہم خستانه وەر بگرن بۆ تہ وهی بزانه ریزهی تهم 14 کۆده چۆنه

Opcode	Goodware	Kernel RK	User RK	Tools	Bot	Trojan	Virus	Worms
mov	25.3%	37.0%	29.0%	25.4%	34.6%	30.5%	16.1%	22.2%
push	19.5%	15.6%	16.6%	19.0%	14.1%	15.4%	22.7%	20.7%
call	8.7%	5.5%	8.9%	8.2%	11.0%	10.0%	9.1%	8.7%
pop	6.3%	2.7%	5.1%	5.9%	6.8%	7.3%	7.0%	6.2%
cmp	5.1%	6.4%	4.9%	5.3%	3.6%	3.6%	5.9%	5.0%
jz	4.3%	3.3%	3.9%	4.3%	3.3%	3.5%	4.4%	4.0%
lea	3.9%	1.8%	3.3%	3.1%	2.6%	2.7%	5.5%	4.2%
test	3.2%	1.8%	3.2%	3.7%	2.6%	3.4%	3.1%	3.0%
jmp	3.0%	4.1%	3.8%	3.4%	3.0%	3.4%	2.7%	4.5%
add	3.0%	5.8%	3.7%	3.4%	2.5%	3.0%	3.5%	3.0%
jnz	2.6%	3.7%	3.1%	3.4%	2.2%	2.6%	3.2%	3.2%
retn	2.2%	1.7%	2.3%	2.9%	3.0%	3.2%	2.0%	2.3%
xor	1.9%	1.1%	2.3%	2.1%	3.2%	2.7%	2.1%	2.3%
and	1.3%	1.5%	1.0%	1.3%	0.5%	0.6%	1.5%	1.6%

Opcode	Goodware	Kernel RK	User RK	Tools	Bot	Trojan	Virus	Worms
bt	30	0	34	47	70	83	0	118
fdivp	37	0	0	35	52	52	0	59
fild	357	0	45	0	133	115	0	438
fstew	11	0	0	0	22	21	0	12
imul	1182	1629	1849	708	726	406	755	1126
int	25	4028	981	921	0	0	108	0
nop	216	136	101	71	7	42	647	83
pushf	116	0	11	59	0	0	54	12
rdtsc	12	0	0	0	11	0	108	0
sbb	1078	588	1330	1523	431	458	1133	782
setb	6	0	68	12	22	52	0	24
setle	20	0	0	0	0	21	0	0
shld	22	0	45	35	4	0	54	24
std	20	272	56	35	48	31	0	95

چەند بەرنامەيەك كە ھى تەم ساڭن بۆ

كارى مالوېر ئانالىسىس بەكارىيەن

- Cuckoo Sandbox Automated Malware Analysis Tool
- Zeek Network Security Monitor
- Netcat Dynamic Malware Analysis Tool
- Yara Rules
- Netcat Dynamic Malware Analysis Tool

Cuckoo Sandbox Automated Malware Analysis Tool



Automated Malware Analysis

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Download Cuckoo Sandbox 2.0.7



Contribute to Cuckoo



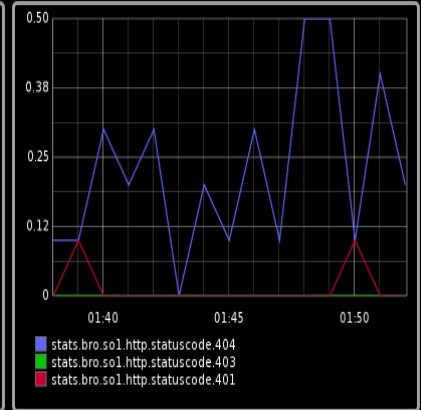
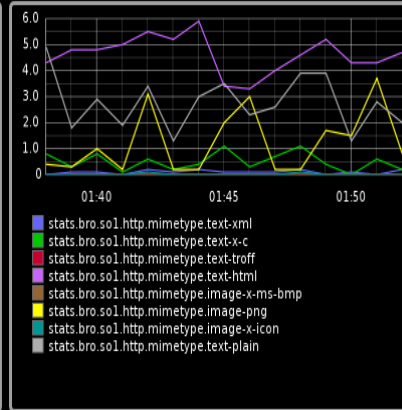
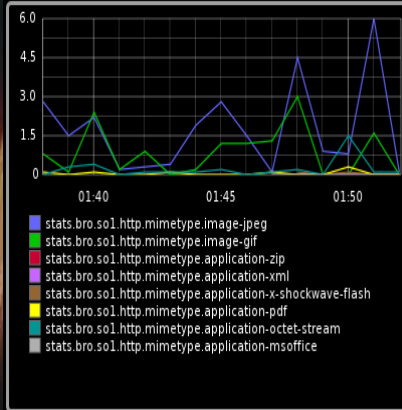
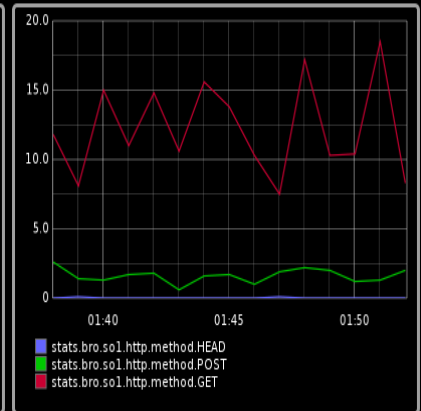
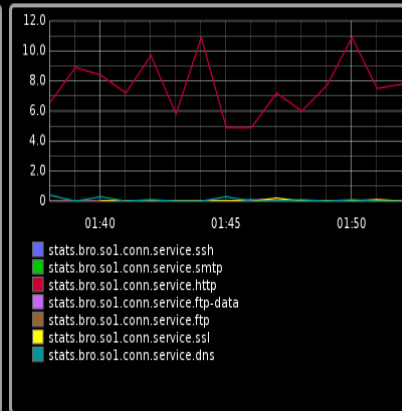
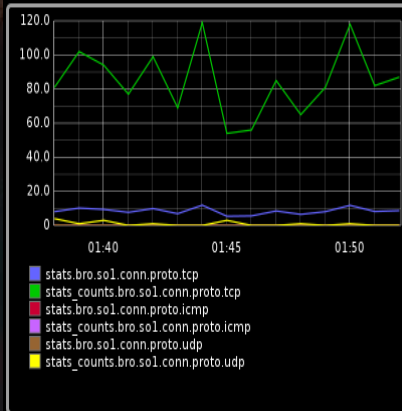
More downloads

| What is Cuckoo?

Cuckoo Sandbox is the leading open source automated malware analysis system.



Zeek Network Security Monitor



Netcat Dynamic Malware Analysis Tool



Yara Rules



Dependency Walker Malware Analysis

Dependency Walker - [Stooges.exe]

File Edit View Options Profile Window Help

STOOGES.EXE

- LARRY.DLL
- KERNEL32.DLL
 - NTDLL.DLL
 - NTDLL.DLL
 - CURLY.DLL**
 - SHEMP.DLL
- MOE.DLL
 - KERNEL32.DLL
 - NTDLL.DLL

PI^	Ordinal	Hint	Function	Entry Point
0x00000000	N/A	N/A	IsKnucklehead	Not Bound
0x00000001	N/A	N/A	int SaySoitenly(char *,...)	Not Bound

E^	Ordinal	Hint	Function	Entry Point
0x00000004	4 (0x0004)	1 (0x0001)	int SaySoitenly(char *,...)	SHEMP.?SaySoitenly@@YAHP/
0x00000005	5 (0x0005)	2 (0x0002)	DoinkLarrysEye	0x00001010
0x00000003	3 (0x0003)	0 (0x0000)	void SayPoifect(_int64)	0x00001020
0x00000001	1 (0x0001)	N/A	N/A	0x00001020
0x00000002	2 (0x0002)	3 (0x0003)	DoinkMoesEye	SHEMP.DoinkMoesEye

Module ^	File Time Stamp	Link Time Stamp	File Size	Attr.	Link Checksum	Real Checksum	CPU	Subsyste ^
CURLY.DLL	11/14/2006 5:17p	11/14/2006 5:13p	2,560	A	0x0000F739	0x0000F759	x86	GUI
KERNEL32.DLL	08/30/2006 1:22a	08/30/2006 1:20a	871,424	A	0x000E388E	0x000E388E	x86	Console
LARRY.DLL	11/14/2006 5:13p	11/14/2006 5:13p	2,560	A	0x000053DB	0x000053DB	x86	GUI
MOE.DLL	11/14/2006 5:15p	11/14/2006 5:15p	2,560	A	0x0000B191	0x0000B191	x86	GUI
NTDLL.DLL	08/30/2006 1:23a	08/30/2006 1:21a	1,147,664	A	0x00125FA5	0x00125FA5	x86	Console
SHEMP.DLL	11/14/2006 5:13p	11/14/2006 5:13p	2,560	A	0x00001CE7	0x00001CE7	x86	GUI

00:00:00.093: LoadLibraryA("Moe.dll") called from "STOOGES.EXE" at address 0x00401024 by thread 1.
 00:00:00.093: Loaded "MOE.DLL" at address 0x00020000 by thread 1. Successfully hooked module.
 00:00:00.093: DllMain(0x00020000, DLL_PROCESS_ATTACH, 0x00000000) in "MOE.DLL" called by thread 1.
 00:00:00.093: DllMain(0x00020000, DLL_PROCESS_ATTACH, 0x00000000) in "MOE.DLL" returned 1 (0x1) by thread 1.
 00:00:00.093: LoadLibraryA("Moe.dll") returned 0x00020000 by thread 1.
 00:00:00.109: GetProcAddress(0x00020000 [MOE.DLL], "SmackCurly") called from "STOOGES.EXE" at address 0x0040102B and returne

For Help, press F1

ئېرەيا ھەموو ئەو بەرنامانەم كۆكرىدۆتەوہ كە بۆ كارى مالىوېر ئنالسىس بەكارىەن

Encoding > Barcodes/QR > Clear Image Barcode Reader >

<http://online-barcode-reader.inliteresearch.com/>

Encoding Java Script > JS Beautifier >

<http://jsbeautifier.org/>

Encoding > Java Script > JS NICE >

<http://jsnice.org/>

Encoding > Java Script > Firebug (T) >

<https://getfirebug.com/downloads/>

Encoding > Java Script > SpiderMonkey (T) >

<https://developer.mozilla.org/en-US/docs/Mozilla/Projects/SpiderMonkey>

Encoding/Decoding > Java Script > Kahu Revelo >

<http://www.kahusecurity.com/tools/>

Encoding > Java Script > JavaScript Deobfuscator (T) >

<https://addons.mozilla.org/en-US/firefox/addon/javascript-deobfuscator/>

Encoding > PHP > DDecode - PHP Decoder >

<http://ddecode.com/phpdecoder/>

Encoding/Decoding > XOR > Unix > XORSearch & XORStrings (T) >

<http://blog.didierstevens.com/programs/xorsearch/>

Encoding/Decoding > XOR > Unix > xortool (T) >

<https://github.com/hellman/xortool>

Encoding/Decoding > XOR > Unix > unxor (T) >

<https://github.com/tomchop/unxor>

Encoding/Decoding > XOR > Windows > Kahu Converter Utilities (T) >
<http://www.kahusecurity.com/tools/>

Encoding/Decoding > XOR > Python > iheartxor.py (T) >
<http://hooked-on-mnemonics.blogspot.com/p/iheartxor.html>

Encoding/Decoding > XOR > Python > XORBruteForcer.py (T) >
<http://eternal-todo.com/var/scripts/xorbruteforcer>

Encoding/Decoding > XOR > Python > NoMoreXOR.py (T) >
<https://github.com/hiddenillusion/NoMoreXOR>

Encoding/Decoding > XOR > Python > Balbuzard (T) >
<https://bitbucket.org/decalage/balbuzard>

Malicious File Analysis > Search > Decalage Malware Search >
<http://decalage.info/en/mwsearch>

Malicious File Analysis > Search > VirusShare.com >
<https://virusshare.com/>

Malicious File Analysis > Search > #totalhash >
<https://totalhash.cymru.com/>

Malicious File Analysis > Search > VX Vault >
<http://vxvault.net/ViriList.php>

Malicious File Analysis > Hosted Automated Analysis > Office Files > XecScan >
<http://scan.xecure-lab.com/>

Malicious File Analysis > Hosted Automated Analysis > Office Files > JoeSandbox Document >

<http://www.document-analyzer.net/>

Malicious File Analysis > Hosted Automated Analysis > PDFs > Wepawet >

<https://wepawet.iseclab.org/>

Malicious File Analysis > Hosted Automated Analysis > PDFs > ViCheck >

<https://www.vicheck.ca/>

Malicious File Analysis > Hosted Automated Analysis > VirusTotal >

<https://www.virustotal.com/>

Malicious File Analysis > Hosted Automated Analysis > Malwr >

<https://malwr.com/>

Malicious File Analysis > Hosted Automated Analysis > Hybrid Analysis >

<https://www.hybrid-analysis.com/>

Malicious File Analysis > Hosted Automated Analysis > MalwareViz >

<https://www.malwareviz.com/>

Malicious File Analysis > Hosted Automated Analysis > Ether >

http://ether.gtisc.gatech.edu/web_unpack

Malicious File Analysis > Hosted Automated Analysis > Eureka >

<http://eureka.cyber-ta.org/>

Malicious File Analysis > Hosted Automated Analysis > Blueliv Sandbox >
<https://community.blueliv.com/#!/sandbox>

Malicious File Analysis > Hosted Automated Analysis > Valkyrie File Analysis >
<https://consumer.valkyrie.comodo.com/>

Malicious File Analysis > Hosted Automated Analysis > Deepviz Sandbox >
<https://sandbox.deepviz.com/>

Malicious File Analysis > Hosted Automated Analysis > detux Linux Sandbox >
<https://detux.org/>

Malicious File Analysis > Hosted Automated Analysis > Joe File Analyzer >
<https://www.file-analyzer.net/>

Malicious File Analysis > Hosted Automated Analysis > Pikker.ee Cuckoo Sandbox >
<http://sandbox.pikker.ee/>

Malicious File Analysis > Hosted Automated Analysis > ThreatExpert Sandbox >
<http://www.threatexpert.com/submit.aspx>

Malicious File Analysis > Office Files > Office Mal Scanner (T) >
<http://www.reconstrucster.org/>

Malicious File Analysis > Office Files > OffVis (T) >
<http://go.microsoft.com/fwlink/?LinkID=158791>

Malicious File Analysis > Office Files > Oletools >
<https://github.com/decalage2/oletools>

Malicious File Analysis > PDFs > PDF (Tools) (T) >

<http://blog.didierstevens.com/programs/pdf-tools/>

Malicious File Analysis > PDFs > Origami Framework (T) >

<https://code.google.com/archive/p/origami-pdf/>

Malicious File Analysis > PCAPs > Malware-Traffic-Analysis.net >

<http://www.malware-traffic-analysis.net/index.html>

Android Tools > Dynamic Analysis Tools > droidbox >

<https://github.com/pjplantz/droidbox>

Android Tools > Dynamic Analysis Tools > maldroidyzer >

<https://github.com/maldroid/maldroidyzer>

Android Tools > Dynamic Analysis Tools > MobSF >

<https://github.com/MobSF/Mobile-Security-Framework-MobSF>

Android Tools > Dynamic Analysis Tools > Androl4b >

<https://github.com/sh4hin/Androl4b>

Android Tools > Static Analysis Tools > Android Decompiler >

<https://www.pnfsoftware.com/>

Android Tools > Static Analysis Tools > apkinspector >

<https://github.com/honeynet/apkinspector/>

Android Tools > Static Analysis Tools > ApkAnalyser >

<https://github.com/sonyxperiadev/ApkAnalyser>

Android Tools > Static Analysis Tools > androwarn >

<https://github.com/maaaaz/androwarn/>

Android Tools > Essential Android Tools > Androl4b (android security virtual machine based on ubuntu-m >

<https://github.com/sh4hin/Androl4b>

Android Tools > Essential Android Tools > Androguard (Great for reversing and refined serches) >

<https://github.com/androguard/androguard>

Android Tools > Essential Android Tools > Wireshark >

<https://www.wireshark.org/>

Android Tools > Essential Android Tools > APKtool (reverse engineering Android APK format using Java r >

<https://ibotpeaches.github.io/Apktool/>

Android Tools > Essential Android Tools > apkinspector (Not supported anymore but still works great.) >

<https://github.com/honeynet/apkinspector/>

Android Tools > Essential Android Tools > smali (smali is a disassembler for the dex format used by dalvik >

<https://github.com/JesusFreke/smali>

Android Tools > Essential Android Tools > android-x86 (Android VM's) >

<http://www.android-x86.org/>

File Carving Tools > bulk_extractor >

https://github.com/simsong/bulk_extractor

File Carving Tools > EVTtract >

<https://github.com/williballenthin/EVTtract>

File Carving Tools > foremost >

<http://foremost.sourceforge.net/>

File Carving Tools > hachoir >

<https://bitbucket.org/haypo/hachoir>

File Carving Tools > scalpel >

<https://github.com/sleuthkit/scalpel>

Memory Forensics > VolUtility >

<https://github.com/kevthehermit/VolUtility>

Memory Forensics > volatility >

<https://github.com/volatilityfoundation/volatility>

Memory Forensics > evolve >

<https://github.com/JamesHabben/evolve>

Memory Forensics > DAMM >

<https://github.com/504ensicsLabs/DAMM>

Memory Forensics > blacklight >

<https://www.blackbagtech.com/blacklight.html>

Online Scanners > virustotal >

<https://www.virustotal.com/>

Online Scanners > hybrid-analysis >

<https://www.hybrid-analysis.com/>

Online Scanners > url-analyzer >

<https://www.url-analyzer.net/>

Online Scanners > malwr >

<https://malwr.com/>

Online Scanners > pdfexaminer >

<http://www.pdfexaminer.com/>

Essential Tools For Malware Analysis > sysinternals >

<https://technet.microsoft.com/en-us/sysinternals/bb842062.aspx>

Essential Tools For Malware Analysis > Process Hacker >

<http://processhacker.sourceforge.net/>

Essential Tools For Malware Analysis > Hexinator (Hex Editor) >

<https://hexinator.com/>

Essential Tools For Malware Analysis > PEstudio >

<https://www.winator.com/>

Essential Tools For Malware Analysis > x64dbg >

<http://x64dbg.com/#start>

Essential Tools For Malware Analysis > PE file Explorer >

<https://mzrst.com/#top>

Places to Get Malware Samples > Hybrid Analysis >

<https://malwareanalysis.tools/hybrid-analysis.com>

Places to Get Malware Samples > Das Malwerk >

<http://dasmalwerk.eu/>

Places to Get Malware Samples > contagiodump >

<http://contagiodump.blogspot.com/>

Places to Get Malware Samples > Tekdefense >

<http://www.tekdefense.com/downloads/malware-samples/>

Places to Get Malware Samples > OpenMalware (You need a hash to find malware)

>

<http://openmalware.org/>

Places to Get Malware Samples > Assortment of Random Samples >

<http://dasmalwerk.eu/>

Places to Get Malware Samples > The Zoo (Best option for beginners) >

<http://thezoo.morirt.com/>

Places to Get Malware Samples > Android Malware Samples >

<https://github.com/ashishb/android-malware>

Programming Language Specific > Java > Krakatau (Java Decompiler) >

<https://github.com/Storyyeller/Krakatau>

Programming Language Specific > Java > Java IDX Parses Java IDX cache files. >

https://github.com/Rurik/Java_IDX_Parser/

Programming Language Specific > Java > Java Decompiler >

<http://jd.benow.ca/>

Programming Language Specific > .NET > de4dot >

<https://github.com/Oxd4d/de4dot>

Programming Language Specific > .NET > dnSpy >

<https://github.com/Oxd4d/dnSpy>

Debuggers/Decompilers > Hopper >

<http://www.hopperapp.com/>

Debuggers/Decompilers > x64dbg >

<http://x64dbg.com/>

Debuggers/Decompilers > Visual DuxDebugger >

<http://www.softpedia.com/get/Programming/Debuggers-Decompilers-Dissassemblers/Visual-DuxDebugger.shtml>

Debuggers/Decompilers > ImmunityDbg >

<http://www.immunityinc.com/products/debugger/>

Debuggers/Decompilers > PE Explorer Disassembler >

http://www.heaventools.com/PE_Explorer_disassembler.htm

Debuggers/Decompilers > Hiew >

<http://www.hiew.ru/>

Debuggers/Decompilers > radare >

<http://radare.org/y/>

Debuggers/Decompilers > ODA >

<http://www.onlinedisassembler.com/>

Debuggers/Decompilers > W32Dasm >

<http://www.softpedia.com/get/Programming/Debuggers-Decompilers-Dissassemblers/WDASM.shtml>

Debuggers/Decompilers > Capstone >

<http://www.capstone-engine.org/>

Debuggers/Decompilers > BORG Disassembler >

<http://www.caesum.com/download.php>

Debuggers/Decompilers > DSM Studio Disassembler >

<http://www.softpedia.com/get/Programming/Debuggers-Decompilers-Dissassemblers/DSM-Studio.shtml>

Debuggers/Decompilers > Decompiler >

<http://www.softpedia.com/get/Programming/Debuggers-Decompilers-Dissassemblers/Decompiler.shtml>

Debuggers/Decompilers > Lida - linux interactive disassembler >

<http://sourceforge.net/projects/lida/>

Debuggers/Decompilers > BugDbg x64 >

<http://www.pespın.com/>

Debuggers/Decompilers > distorm3 >

<http://www.ragestorm.net/distorm/>

Debuggers/Decompilers > udis86 >

<http://udis86.sourceforge.net/>

Debuggers/Decompilers > Beaengine >

<http://www.beaengine.org/>

Debuggers/Decompilers > C4 Decompiler >

<http://www.c4decompiler.com/>

Debuggers/Decompilers > REC Studio 4 - interactive decompiler >

<http://www.backerstreet.com/rec/rec.htm>

Debuggers/Decompilers > Retargetable Decompiler >

<http://decompiler.fit.vutbr.cz/>

Debuggers/Decompilers > miasm >

<https://code.google.com/p/miasm/>

Debuggers/Decompilers > Free Code Manipulation Library >

<http://fcml-lib.com/index.html>

Debuggers/Decompilers > Intel X86 Encoder Decoder Software Library >

<https://software.intel.com/en-us/articles/xed-x86-encoder-decoder-software-library>

Debuggers/Decompilers > angr >

<http://angr.io/>

سەرچاوه:

<https://malwareanalysis.tools/>

گرنگه:

به هیچ شیوهیهك كار له سەر ویندۆزی سەرەکی مەكە چونكە هەر شتیك رووبا به ئەگەری زۆرەوه فایلەكانت لەدەست ئەدەیت یاخود زیان به سیستمەكەت ئەگەیهنیت، بۆیه وا باشتره كار له سەر ویندۆز وهەمی بكەیت كه ئەتوانیت سوود لەمانه وەر بگریت،

VirtualBox

VMware Workstation

<https://alternativeto.net/software/vmware-workstation/>

ئەتوانن سوود لەم سیستەمە وەرگرن کە تایبەت بوو کاری
مالوێر ئنالسیس رێکخستووە. زۆرەکی پێداویستیەکانی
مالوێر ئنالسیس تیاپە ئەمەووی بەبێ کێشە کارئەکا،

- کێشی بە ئامادەکراوی: **30 کێشابایت**

واتا ئامادەکراوو پێویستی بە ئینستالکردن نییە.

- کێشی سیستەمەکە: **6 کێشابایت**

بەبێ ئینستالکردن واتا ئەبێ ئینستالی بکەیت.

ئەتوانن لێرەوێ دایگرن:

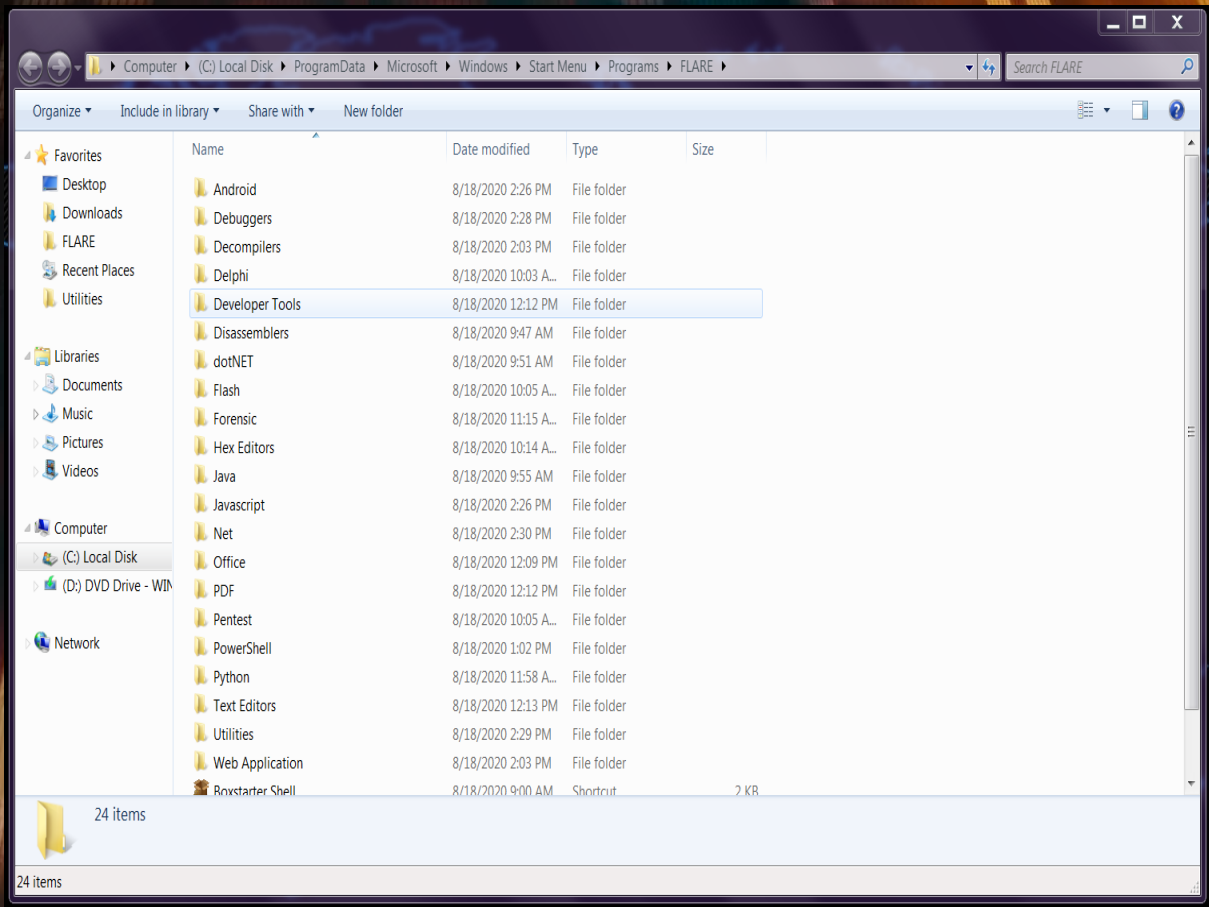
<https://mega.nz/file/5ggmbzC7AsIWziZTiQbEB-LyBi2gNoIfRIDmPlxalIou33S0cBNo>

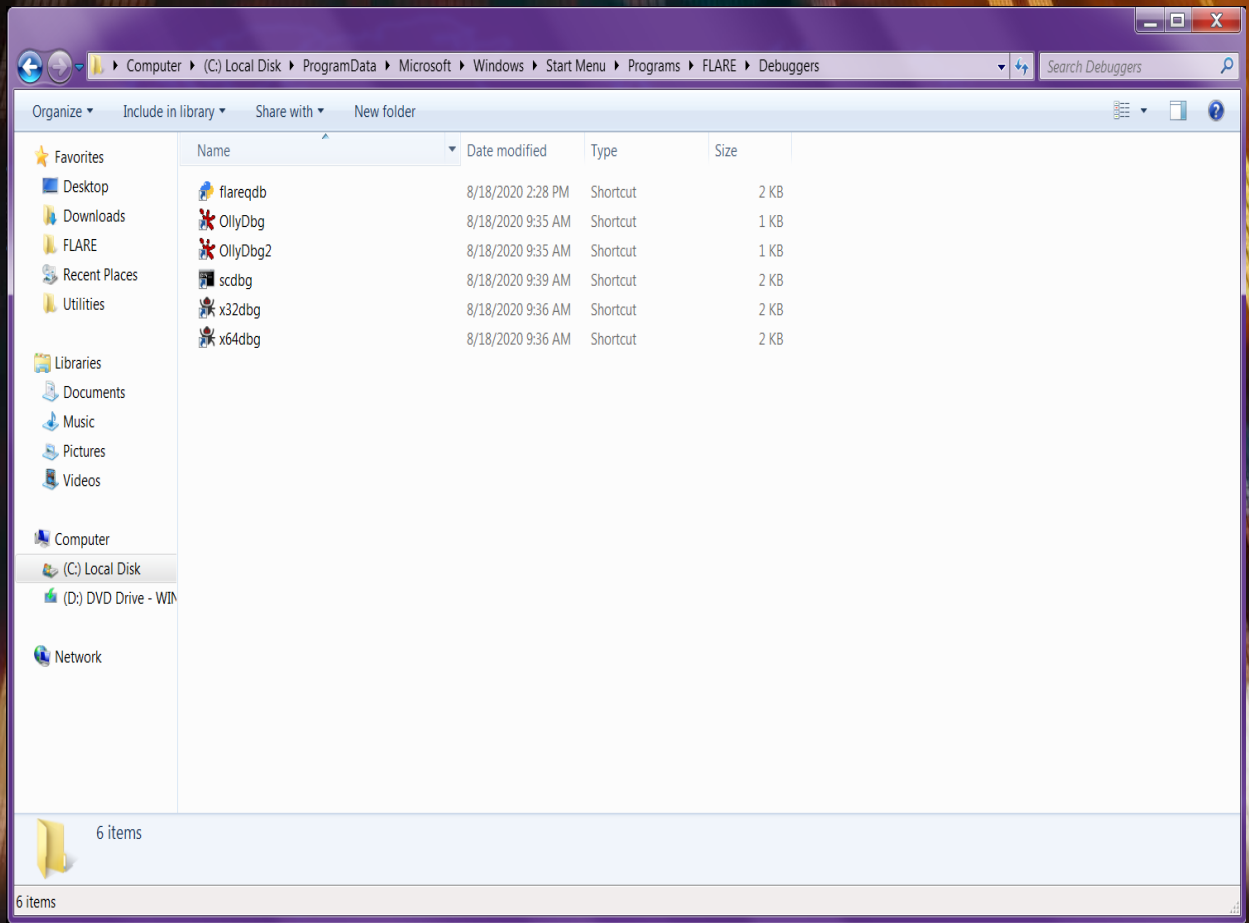
فێرکاری:

<https://youtu.be/ZirxPO62A6o>

چہند ویئہہ کی سیستہ مہ کہ





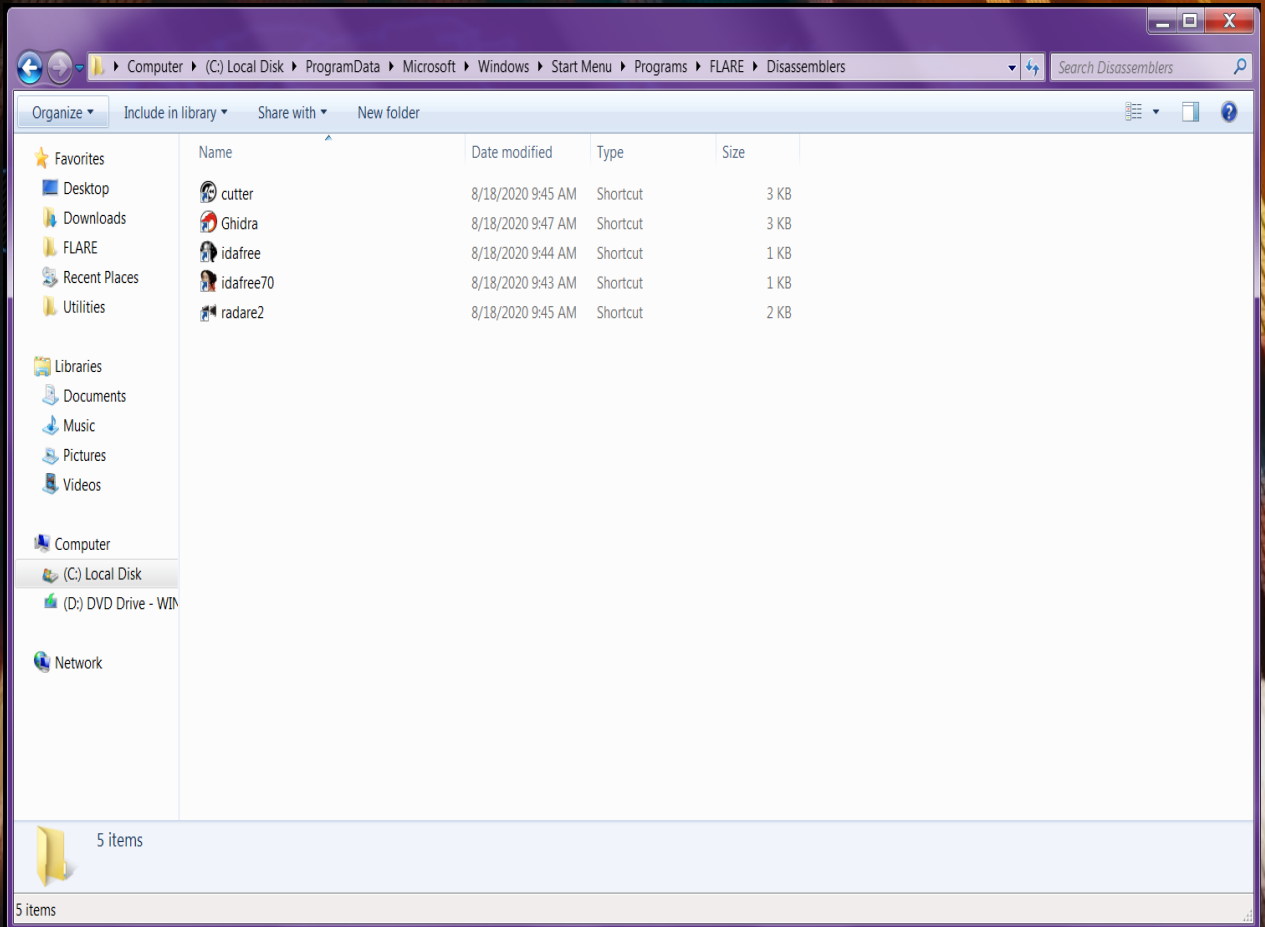


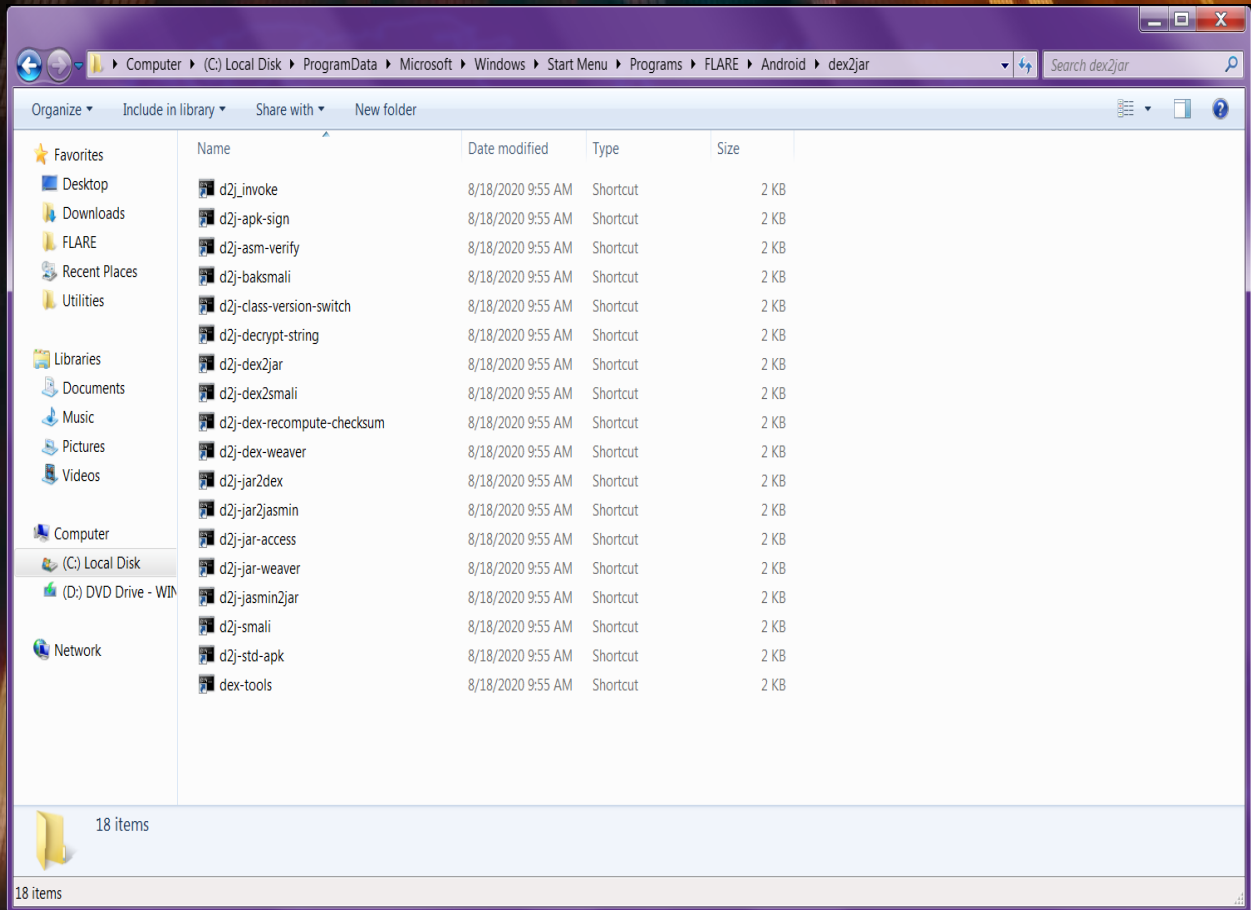
Computer > (C:) Local Disk > ProgramData > Microsoft > Windows > Start Menu > Programs > FLARE > Office

Organize Include in library Share with New folder Search Office

Name	Date modified	Type	Size
crypto	8/18/2020 12:09 PM	Shortcut	2 KB
ezhexviewer	8/18/2020 12:09 PM	Shortcut	2 KB
mraptor	8/18/2020 12:09 PM	Shortcut	2 KB
mraptor_milter	8/18/2020 12:09 PM	Shortcut	2 KB
msodde	8/18/2020 12:09 PM	Shortcut	2 KB
msoffcrypto-crack	8/18/2020 12:09 PM	Shortcut	2 KB
officemalscanner	8/18/2020 12:06 PM	Shortcut	1 KB
offvis	8/18/2020 12:06 PM	Shortcut	1 KB
olebrowse	8/18/2020 12:09 PM	Shortcut	2 KB
oledir	8/18/2020 12:09 PM	Shortcut	2 KB
oledump	8/18/2020 12:07 PM	Shortcut	2 KB
oleform	8/18/2020 12:09 PM	Shortcut	2 KB
oleid	8/18/2020 12:09 PM	Shortcut	2 KB
olemap	8/18/2020 12:09 PM	Shortcut	2 KB
olemeta	8/18/2020 12:09 PM	Shortcut	2 KB
oleobj	8/18/2020 12:09 PM	Shortcut	2 KB
oletimes	8/18/2020 12:09 PM	Shortcut	2 KB
olevba	8/18/2020 12:09 PM	Shortcut	2 KB
ooxml	8/18/2020 12:09 PM	Shortcut	2 KB
ppt_parser	8/18/2020 12:09 PM	Shortcut	2 KB
ppt_record_parser	8/18/2020 12:09 PM	Shortcut	2 KB
nvxswf	8/18/2020 12:09 PM	Shortcut	2 KB

26 items





لیستی تھو بهرنامانی که له سهه

سیسته مه که دانراون

➤ Android

- dex2jar
- apktool

➤ Debuggers

- flare-qdb
- scdbg
- OllyDbg + OllyDump + OllyDumpEx
- OllyDbg2 + OllyDumpEx
- x64dbg
- WinDbg + OllyDumpex + pykd

➤ **Decompilers**

- RetDec

➤ **Delphi**

- Interactive Delphi Reconstructor (IDR)

➤ **Developer Tools**

- VC Build Tools
- NASM

➤ **Disassemblers**

- Ghidra
- IDA Free (5.0 & 7.0)

- Binary Ninja Demo
- radare2
- Cutter
- **.NET**
- de4dot
- Dot Net String Decoder (DNSD)
- dnSpy
- DotPeek
- ILSpy
- RunDotNetDll

- **Autolt**
 - AutoltExtractor

- **Flash**
 - FFDec

- **Forensic**
 - Volatility
 - Autopsy

- **Hex Editors**
 - FileInsight
 - HxD

- 010 Editor

➤ **Java**

- JD-GUI
- Bytecode-Viewer
- Java-Deobfuscator

➤ **JavaScript**

- malware-jail

➤ **Networking**

- FakeNet-NG
- ncat

- nmap
- Wireshark

➤ Office

- Offvis
- OfficeMalScanner
- oledump.py
- rtfldump.py
- msoffcrypto-crack.py

➤ PDF

- PDFiD
- PDFParser

- PDFStreamDumper

➤ PE

- PEiD

- ExplorerSuite (CFF Explorer)

- PEview

- DIE

- PeStudio

- PEBear

- ResourceHacker

- LordPE

- PPEE(puppy)

➤ **Pentest**

- Windows binaries from Kali Linux

➤ **Powershell**

- PSDecode

➤ **Text Editors**

- SublimeText3
- Notepad++
- Vim

➤ **Visual Basic**

- VBDecompiler

➤ Web Application

- BurpSuite Free Edition
- HTTrack

➤ Utilities

- FLOSS
- HashCalc
- HashMyFiles
- Checksum
- 7-Zip
- Far Manager
- Putty
- Wget

- RawCap
- UPX
- RegShot
- Process Hacker
- Sysinternals Suite
- API Monitor
- SpyStudio
- Shellcode Launcher
- Cygwin
- Unxutils
- Malcode Analyst Pack (MAP)
- XORSearch
- XORStrings

- Yara
- CyberChef
- KernelModeDriverLoader
- Process Dump
- Exe2Aut
- Innounp
- InnoExtract
- UniExtract2
- Hollows-Hunter
- PE-sieve
- ImpRec
- ProcDot

➤ Python Modules, Tools

- Py2ExeDecompiler
- pyinstxtractor

❖ Python 2.7

- hexdump
- pefile
- winappdbg
- pycryptodome
- vivisect
- binwalk
- capstone-windows
- unicorn
- oletools

- olefile
- unpy2exe
- uncompyle6
- pycrypto
- pyftplib
- pyasn1
- pyOpenSSL
- ldapdomaindump
- pyreadline
- flask
- networkx
- requests
- msotfcrypto-tool

- yara-python
- mkyara
- ❖ Python 3.7
- binwalk
- unpy2exe
- uncompile6
- StringSifter
- hexdump
- pycryptodome
- oletools
- olefile
- msofficecrypto-tool
- pyftplib

- pyasn1
- pyOpenSSL
- acefile
- requests
- yara-python
- mkyara

Other































- VC Redistributable Modules (2005, 2008, 2010, 2012, 2013, 2015, 2017)
- .NET Framework versions 4.8
- Practical Malware Analysis Labs
- Google Chrome & Cmdr

- له گهڙ چندين بهرنامه يتر كه وهك فاييكيك دامناوه نه توانن سوډيان لايبينن.

Name	Size	Packed	Type	Modified	CRC32
..			File folder		
Autoruns.zip	2,674,525	2,668,080	WinRAR ZIP archive	8/15/2020 10:0...	28885739
BytecodeViewer.2.9.8.zip	2,344,916	2,321,142	WinRAR ZIP archive	8/15/2020 10:0...	77CCB5A4
Bytecode-Viewer-2.9.22.jar	28,351,228	25,326,899	WinRAR archive	8/15/2020 10:0...	BE90517F
dnSpy-netcore-win64.zip	85,149,416	84,088,642	WinRAR ZIP archive	8/15/2020 10:0...	03DD9BA0
exeinfope.zip	2,069,093	2,069,093	WinRAR ZIP archive	8/15/2020 11:1...	04B8C067
flare-vm-master.zip	42,102	40,251	WinRAR ZIP archive	8/17/2020 11:4...	69D87D4D
ghidra_9.1.2_PUBLIC_202002...	302,233,568	284,179,233	WinRAR ZIP archive	8/15/2020 9:57 ...	916C11E2
odbg110.zip	1,333,471	1,333,471	WinRAR ZIP archive	8/15/2020 11:2...	B3B6856A
PEiD-0.95-20081103.zip	398,311	397,596	WinRAR ZIP archive	8/15/2020 11:1...	D06DD9E...
pestudio.zip	938,695	938,695	WinRAR ZIP archive	8/18/2020 12:2...	E2F144E9
PEview.zip	31,521	31,521	WinRAR ZIP archive	8/15/2020 11:0...	96CA23A4
PracticalMalwareAnalysis-La...	1,921,158	1,921,158	WinRAR ZIP archive	8/15/2020 9:49 ...	809C09EF
ProcessMonitor.zip	1,567,005	1,567,005	WinRAR ZIP archive	8/15/2020 10:0...	68223954
sitespy-511nulled.rar	52,046,727	50,594,300	WinRAR archive	8/15/2020 9:53 ...	99B8412D
snapshot_2020-08-07_14-32....	32,125,214	31,789,052	WinRAR ZIP archive	8/15/2020 9:49 ...	F203EDE3
Win7AndW2K8R2-KB319156...	68,076,477	68,076,477	WinRAR ZIP archive	8/18/2020 6:41 ...	E643FBD2
autopsy-4.15.0-64bit.msi	866,508,288	817,956,523	Windows Installer P...	8/23/2020 6:03 ...	176D7EF7
ExplorerSuite.exe	3,613,174	3,531,741	Application	8/18/2020 12:2...	C773E1BC
filealzy-2.0.5.57.exe	4,333,832	4,312,503	Application	8/15/2020 11:0...	5566BB4C
idafree70_windows.exe	60,955,032	57,387,018	Application	8/15/2020 10:1...	A8D4BC0C
ImmunityDebugger_1_85_set...	22,749,412	22,688,216	Application	8/15/2020 10:0...	5EA6BAB1
JavaSetup8u261.exe	2,083,464	706,727	Application	8/15/2020 10:5...	2FE9041E
jdk-14.0.2_windows-x64_bin...	169,989,784	168,341,442	Application	8/15/2020 10:5...	517428BB
NM34_x64.exe	6,837,560	6,791,743	Application	8/15/2020 10:4...	4713AD7A
npp.7.8.9.Installer.exe	3,774,904	3,687,709	Application	8/15/2020 11:1...	7B344424
processhacker-2.39-setup.exe	2,267,848	2,224,463	Application	8/15/2020 10:0...	D91BEB8F
python-3.8.5-amd64.exe	27,864,320	27,589,708	Application	8/15/2020 10:5...	50423392
reshacker_setup.exe	2,961,328	2,913,595	Application	8/15/2020 11:1...	331C9A11
Wireshark-win64-3.2.6.exe	60,127,072	59,981,857	Application	8/15/2020 10:1...	4FA007E1

تہ توانن لیڑوہ بینہری کورسی مالویئر ٹنالسیس بن،

https://my.sharepoint.com/:f/g/personal/lonewolf0_5th_live/E5vnakgDPKIEqSeei9RPFoBviSESMMYI8pNIxXK2mBVg?e=puRvmP

	 Flare-On FireEye 2018 CTF - Malware Analy...	5 minutes ago	lonewolf0	259 MB	♾ Shared
	 How To Setup A Sandbox Environment For ...	7 minutes ago	lonewolf0	64.1 MB	♾ Shared
	 Malware Analysis Bootcamp - Analyzing Th...	7 minutes ago	lonewolf0	74.2 MB	♾ Shared
	 Malware Analysis Bootcamp - Creating YAR...	7 minutes ago	lonewolf0	63.4 MB	♾ Shared
	 Malware Analysis Bootcamp - Examining Th...	3 minutes ago	lonewolf0	38.5 MB	♾ Shared
	 Malware Analysis Bootcamp - Extracting Str...	6 minutes ago	lonewolf0	22.0 MB	♾ Shared
	 Malware Analysis Bootcamp - Generating ...	6 minutes ago	lonewolf0	20.8 MB	♾ Shared
	 Malware Analysis Bootcamp - Introduction ...	6 minutes ago	lonewolf0	38.7 MB	♾ Shared
	 Malware Analysis Bootcamp - Introduction ...	5 minutes ago	lonewolf0	10.3 MB	♾ Shared
	 Malware Analysis Bootcamp - Introduction ...	5 minutes ago	lonewolf0	6.50 MB	♾ Shared
	 Malware Analysis Bootcamp - Malware Clas...	5 minutes ago	lonewolf0	30.8 MB	♾ Shared
	 Malware Analysis Bootcamp - Packers & Un...	About a minute ago	lonewolf0	30.4 MB	♾ Shared
	 Malware Analysis Bootcamp - Setting Up O...	3 minutes ago	lonewolf0	62.4 MB	♾ Shared
	 Malware Analysis Bootcamp - Understandin...	3 minutes ago	lonewolf0	17.2 MB	♾ Shared
	 Malware Analysis With Ghidra - Stuxnet An...	About a minute ago	lonewolf0	104 MB	♾ Shared

ئەتوانن سوود لەم راپۆرتە بېين،

راپۆرتيک دەربارەى: رېگاکانى ھاک و خۇپاراستن

<https://www.home4t.com/2019/12/blog-post.html>

کۆتايى.

بەھىوای سوود