Digital Vengeance Exploiting the Most Notorious C&C Toolkits

@professor__plum







}\$ whoami plum)\$ finger TTY Login Name @Professor___Plum pts/2 plum @Professor___Plum pts/8 plum @Professor___Plum pts/3 plum >\$ 📃

Idle Byr 5yr

Login Sun Tue Fri

Time 09:39 18:21 02:48 Office bo.symantec.com gin.bluecoat.com 777.nsa.gov



Disclaimer

- my current or former employers.
- Implementation of the information given is at your own risk.

The views expressed herein do not necessarily state or reflect the views of

I am not responsible for any use or misuse of the information provided.

The sophisticated attack

"... identified an extremely sophisticated cyber attack"

RSA

"Government and non-government entities are under constant attack by evolving and advanced persistent threats and criminal actors. These adversaries are sophisticated, well-funded, and focused."

"The threat is very persistent, adaptive and sophisticated – and it is here to stay," SWIFT



"The malware that was used would have slipped or probably got past 90% of internet defenses that are out there today in private industry"

Joseph Demarest, assistant director of the FBI's cyber division

"It is simply not possible to beat these hackers" James A. Lewis Cybersecurity Expert at Center for Strategic and International Studies (CSIS)

Office of Personnel Management

"hackers obtained data on tens of millions of current and former customers and employees in a sophisticated attack"

Anthem



Hacking back

- 36% of BH 2012 attendees surveyed said they engaged in some form of hacking back
- Many feel justified in hacking back because their government isn't doing enough to protect them
- The ACDC would exempt victims from hacking laws when the aim is to identify the assailant, cut off attacks or discover stolen files.

[DISCUSSION DRAFT] ACTIVE CYBER DEFENSE CERTAINTY ACT - 2.0

To amend title 18, United States Code, to provide a defense to prosecution for fraud and related activity in connection with computers for personation defending against unauthorized intrusions into their computers, and for

IN THE HOUSE OF REPRESENTATIVES Mr. GRAVES of Georgia introduced the following bill; which was referred to

A BILL

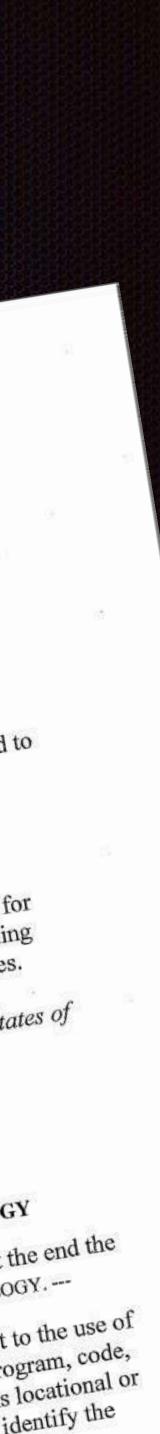
To amend title 18, United States Code, to provide a defense to prosecution for fraud and related activity in connection with computers for persons defending against unauthorized intrusions into their computers, and for other purposes. Be it enacted by the Senate and House of Representatives of the United States of

America in Congress assembled,

This Act may be cited as the "Active Cyber Defense Certainty Act". SECTION 1. SHORT TITLE.

SEC. 2. EXCEPTION FOR THE USE OF ATTRIBUTIONAL TECHNOLOGY Section 1030 of title 18, United States Code, is amended by adding at the end the

following: "(k) EXCEPTION FOR THE USE OF ATTRIBUTIONAL TECHNOLOGY. ---Why The provisions of this section shall not apply with respect to the use of



Hacking back

- Most likely Illegal
- Little to no gain
- Much at risk
 - Liability
 - Reputation
 - Productivity
 - Escalation



GREETINGS PROFESSOR FALKEN

A STRANGE GAME. THE ONLY WINNING MOVE IS NOT TO PLAY.

HELLO

HOW ABOUT A NICE GAME OF CHESS?



"(ii) does not include conduct that-

"(I) destroys or renders inoperable information that does not belong to the victim that is stored on a computers of another;

"(II) causes physical or financial injury to another person;

"(III) creates a threat to the public health or safety; or

"(IV) exceeds the level of activity required to perform reconnaissance on an intermediary computer to allow for attribution of the origin of the persistent cyber intrusion;

"(C) the term 'attacker' means a person or an entity that is the source of the persistent unauthorized intrusion into the victim's computer; and

"(D) the term 'intermediary computer' means a person or entity's computer that is not under the ownership or control of the attacker but has been used to launch or obscure the origin of the persistent cyber-attack.".



"(i) means any measure-

C 4

"(I) undertaken by, or at the direction of, a victim; and

"(II) consisting of accessing without authorization the computer of the attacker to the victim' own network to gather information in order to:

- responsible for cybersecurity;
- 2) own network; or
- 3) but;

establish attribution of criminal activity to share with law enforcement and other United States Government agencies

disrupt continued unauthorized activity against the victim's

monitor the behavior of an attacker to assist in developing future intrusion prevention or cyber defense techniques,



>\$ killall -s SIGKILL rants

RAT terminology

Client Victim

Retaliator - one who returns assault in kind



C2 Server
Attacker
Victim
Adversary

*icons credit Open Security Architecture

Sophisticated attack hit list



Armin Buescher @armbues

#APT reports: Poison Ivy Gh0st RAT PlugX **Xtreme RAT** Enfal Derusbi DarkComet Shady RAT NJRat Wipbot

Likes

18

Retweets 42







Top 10 malware counted by occurrence in



Home - Downloads - Screenshots - Development - Customer Portal - Links - Contact

Poison Ivy 2.3.2 (latest version)

File name: PI2.3.2.rar 1536750 bytes File size: Mirror 1: poisonivy-rat.com

Poison Ivy 2.3.0 (old, unsupported)

File name: PI2.3.0.rar File size: 1679943 bytes

 Buffer overflow exploit by Andrzej Dereszowski • Follow on work by Jos Wetzels

Plugins

Optix Screen Capture (Screenshot)

th3 s13az3 Author: Language: Delphi 2.0.0 Version: Download Binary: Download Source:

APT1 & Poison ky

malware.lu



itrust consulting

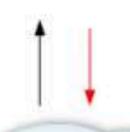




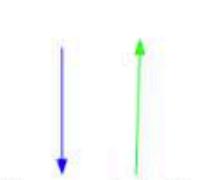




Poison Ivy server





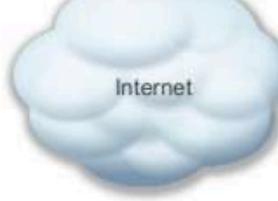


VMWare remote desktop



Attacker machine





Port 80, 443, 8080 or 3460



Infected network



DARG **REMOTE ADMINISTRATION TOOL**

Remote file download exploit by Shawn Denbow and Jesse Hertz Follow on work by Jos Wetzels

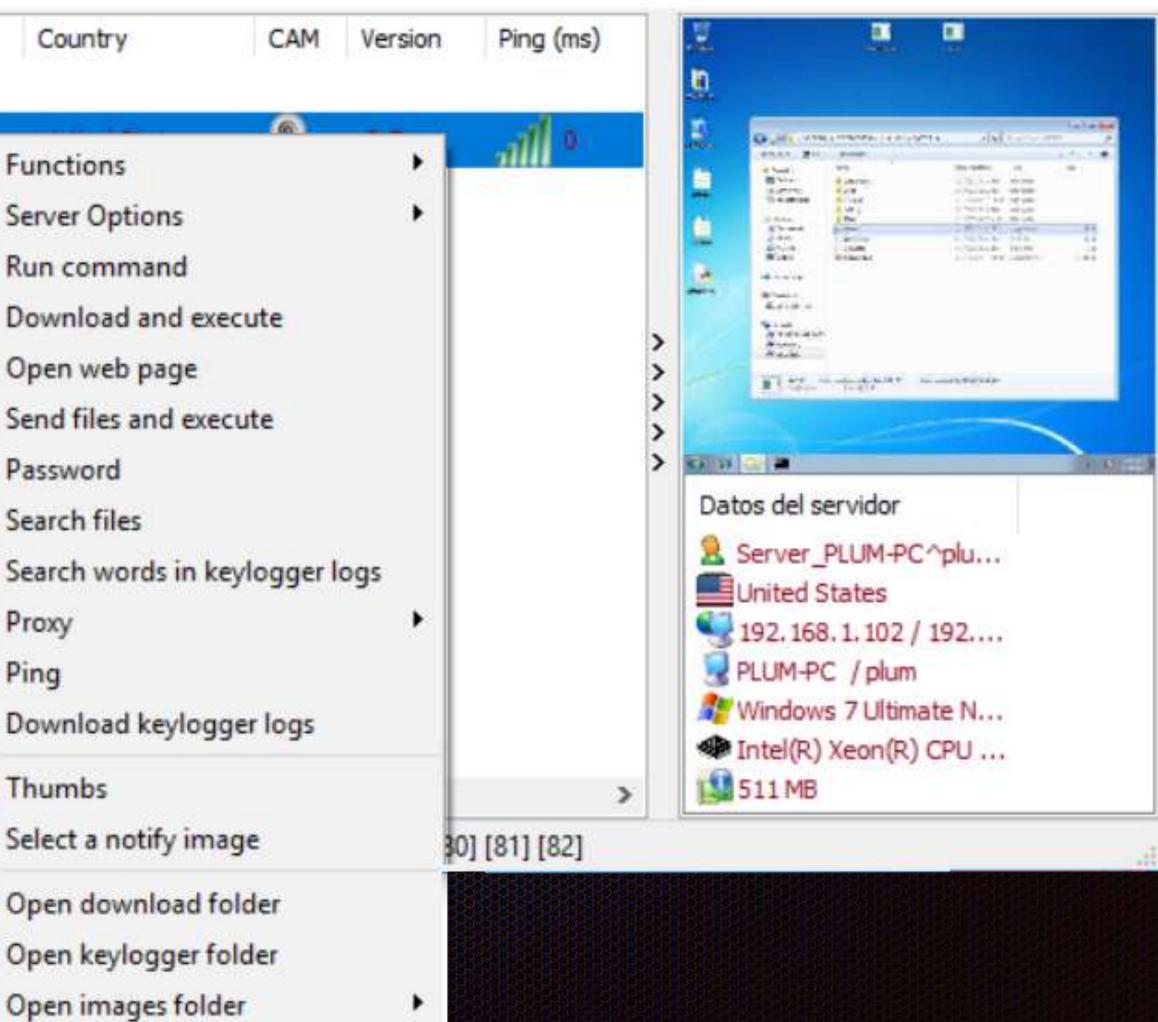




Xtreme RAT

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to use a freely available remote access trojan called Xtreme RAT for their exploits.

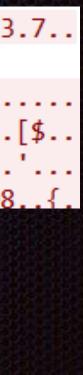
attack campaign, dubbed "Molerats," has been ongoing since October 2011.

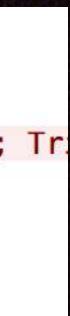
Xtreme Rat

- TCP connection starts with the string "myversion 3.x\r\n"
- C2 responds with " $X\r\n$ "
- Alternatively Xtreme rat can use a fake HTTP request of the form GET /[0-9]{1,10}.functions

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0000002F	02	1d	92	ee	24	ec	98	02	62	88	98	27	b1	0 9	a4	13	\$	b
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*******	252525	95952	233	888	25252	2525	22223	55555	575759	19395	22.2	0.00	625%	石石建		5839 P 2		

GET /1234567890.functions HTTP/1.1 Accept: */* Accept-Encoding: gzip, deflate User-Agent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Tr .NET CLR 3.0.04506.648; .NET CLR 3.5.21022) Host: shittway.zapto.org:336 Connection: Keep-Alive Cache-Control: no-cache







Remote file upload Get ready to receive tool\bad.exe and save it to C:\temp\calc.exe

Here is the [data]

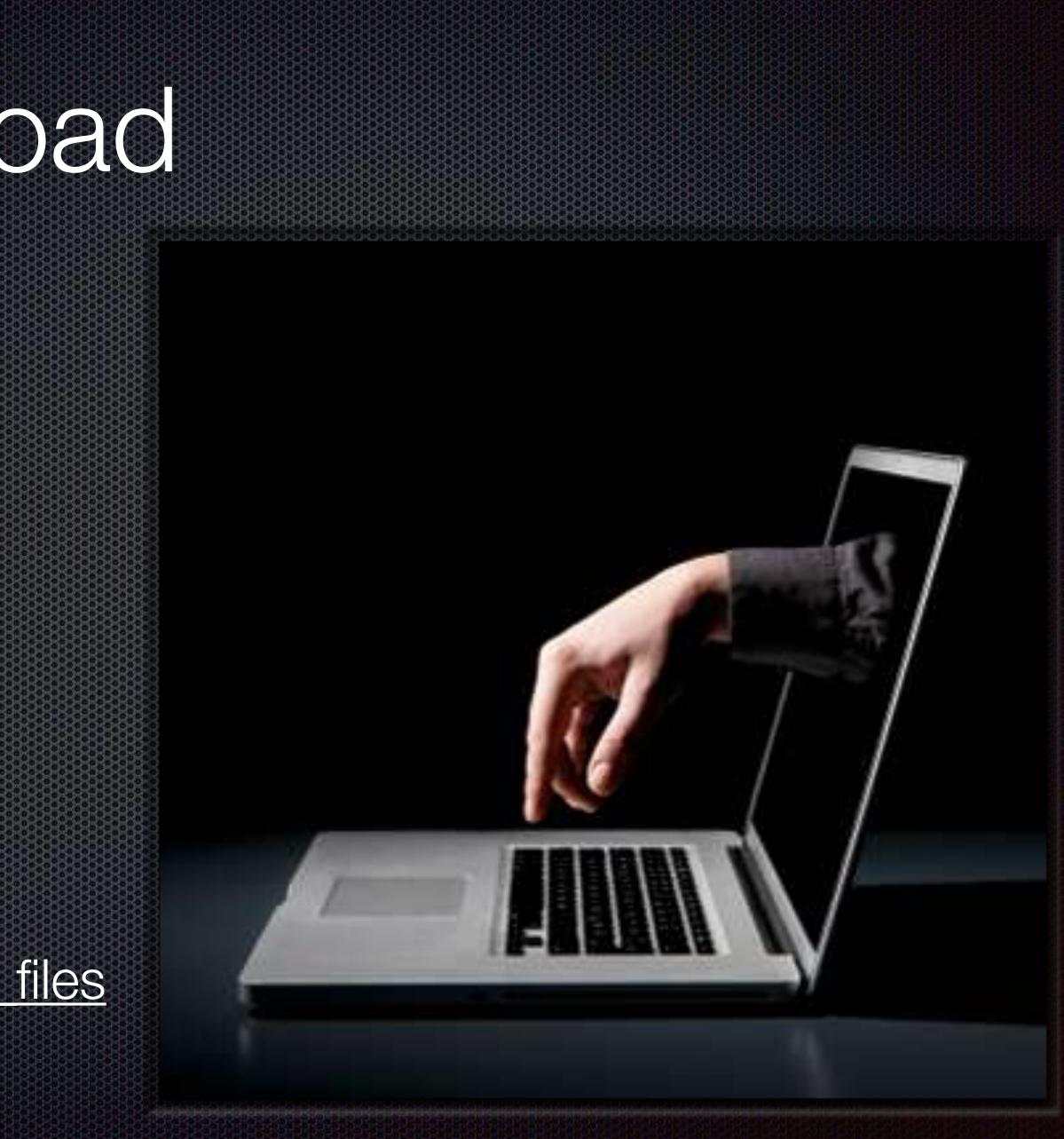


I'm ready to receive tool\bad.exe



Remote file download

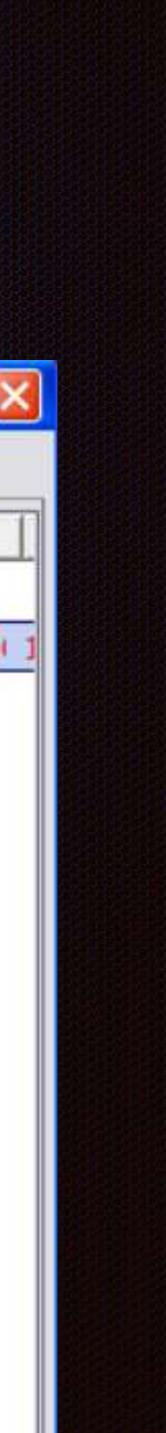
- Win.ini (Sanity check)
- Event logs
- desktop.ini
- %SYSTEMROOT%\repair\SAM
- %SYSTEMROOT%\repair\system
- https://attackerkb.com/Windows/blind_files



PlugX / Korplug / Destory

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Users	Listener Make			
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Korplug military targeted attacks: Afghanistan & Tajikistan

LIPOVSKY POSTED 12 NOV 2014 - 03:17PM

RAT Report: PlugX Is RAT of Choice for Nation States

By Sean Michael Kerner, Posted February 13, 2015

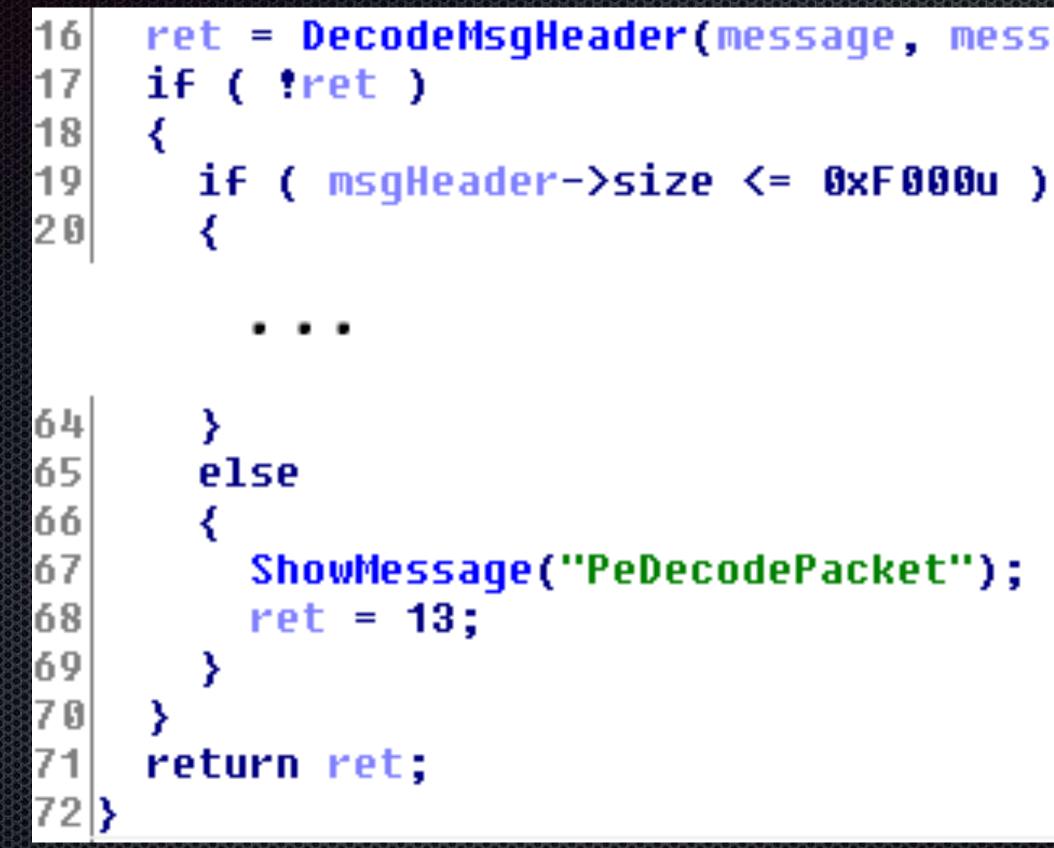
tactics used in nation-state attacks.

Operation Cloud Hopper – APT10 goes after Managed Service Providers

April 6, 2017 By Pierluigi Paganini

12 FEB 2015 NEWS China, Vietnam and PlugX Dominate A	APT Lar
The connection between the Plugx Chinese gang and the latest Internet Explorer Zeroday	COOP DEBRI SOPHOS Security made s
SEPTEMENT PlugX RAT Used to Gather Intel on Afghan, Russian Military: Report Stare 26 26 941 Share 26 26 941 Share 26 26 941 Share 26 26 941 26 941 26 941 26 941 9 100 100 100 100 100 100 100 100 100 100 100 100 100	Plu The Ger

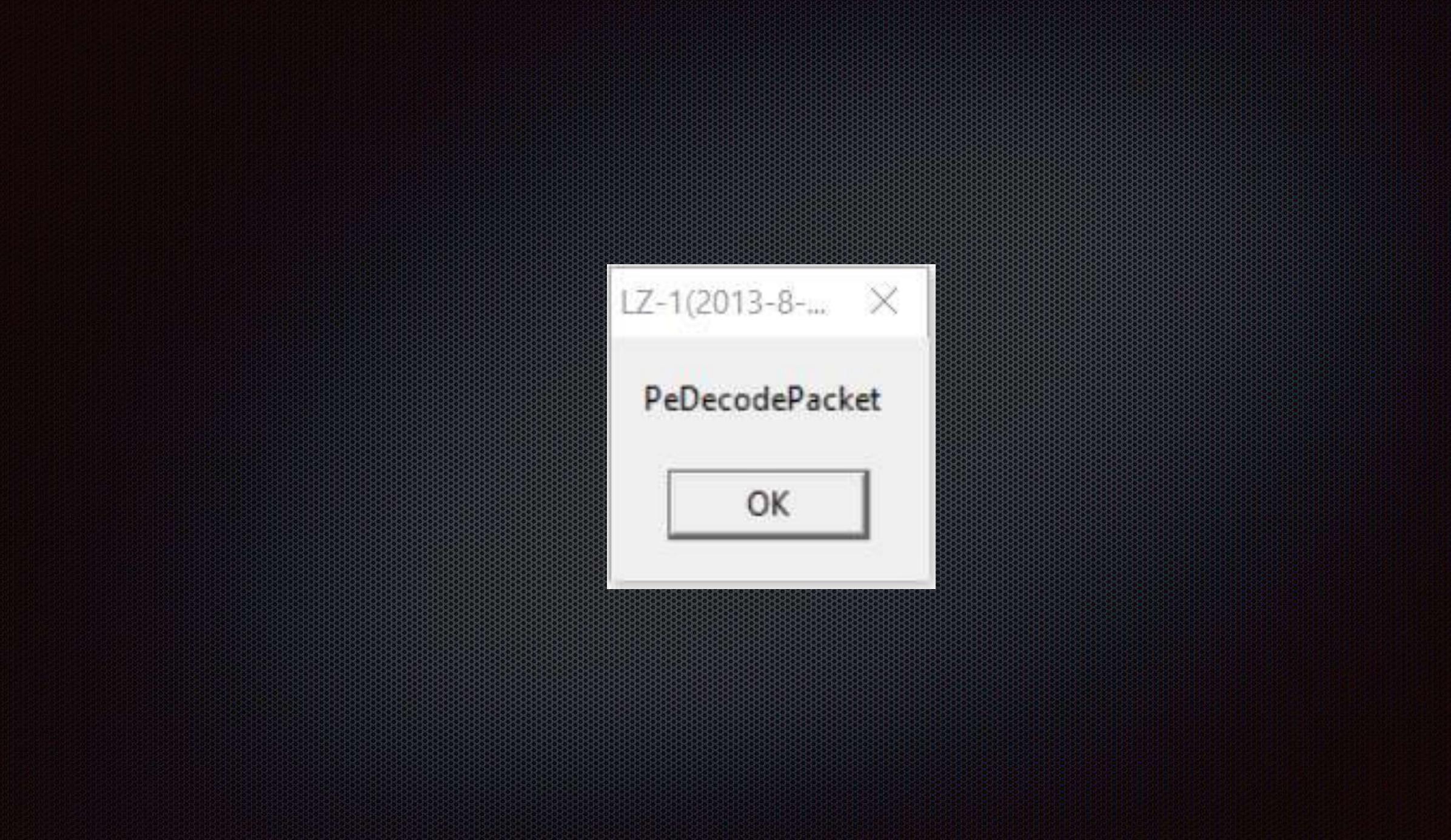




ret = DecodeMsgHeader(message, message);

ShowMessage("PeDecodePacket");

```
19
     streamSize = TStream_GetSize();
20
21
22
23
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30
    if ( streamSize < 16 )
       return READ_MORE_DATA;
     v6 = *global_struct;
     result = DecodeMsgHeader(&msgHeader, v2->TStream->buffer);
     if ( !result )
       messageSize = msgHeader.size + 16;
       if ( messageSize <= streamSize )</pre>
         memcopy(stackvar, msgHeader.size + 16, v2->TStream->buffer);
         v8 = v2->TStream;
31
         currentSize = TStream_GetSize();
32
         memcopy(v2->TStream->buffer, currentSize - messageSize, &v2->TStream->buffer[messageSize]);
33
34
35
36
37
         TStream = v2->TStream;
         newStreamSize = TStream_GetSize();
         (*TStream->SetSize)(TStream->SetSize, newStreamSize - messageSize);
         result = DecodePacket_(*global_struct, stackuar);
38
39
       else
40
         result = READ_MORE_DATA;
41
42
43
     return result;
44 }
```



```
Oracle VM VirtualBox Manager
```

💿 😑 🔋 plum@Ballroom: ~

```
plum@Ballroom:~$ msfconsole
```

```
The PGconn, PGresult, and PGError constants are deprecated, and will be
removed as of version 1.0.
```

You should use PG::Connection, PG::Result, and PG::Error instead, respectively.

Called from /opt/metasploit-framework/embedded/lib/ruby/gems/2.4.0/gems/activesupport-4 .2.8/lib/active_support/dependencies.rb:274:in `block in require'



<u>msf</u> > 🗌



🐵 💿 💿 Windows 10 (Gh0st) [Running] - Oracle VM VirtualBox

e 📄

C:N---



Recycle Bin

RATs



PlugX.exe



data

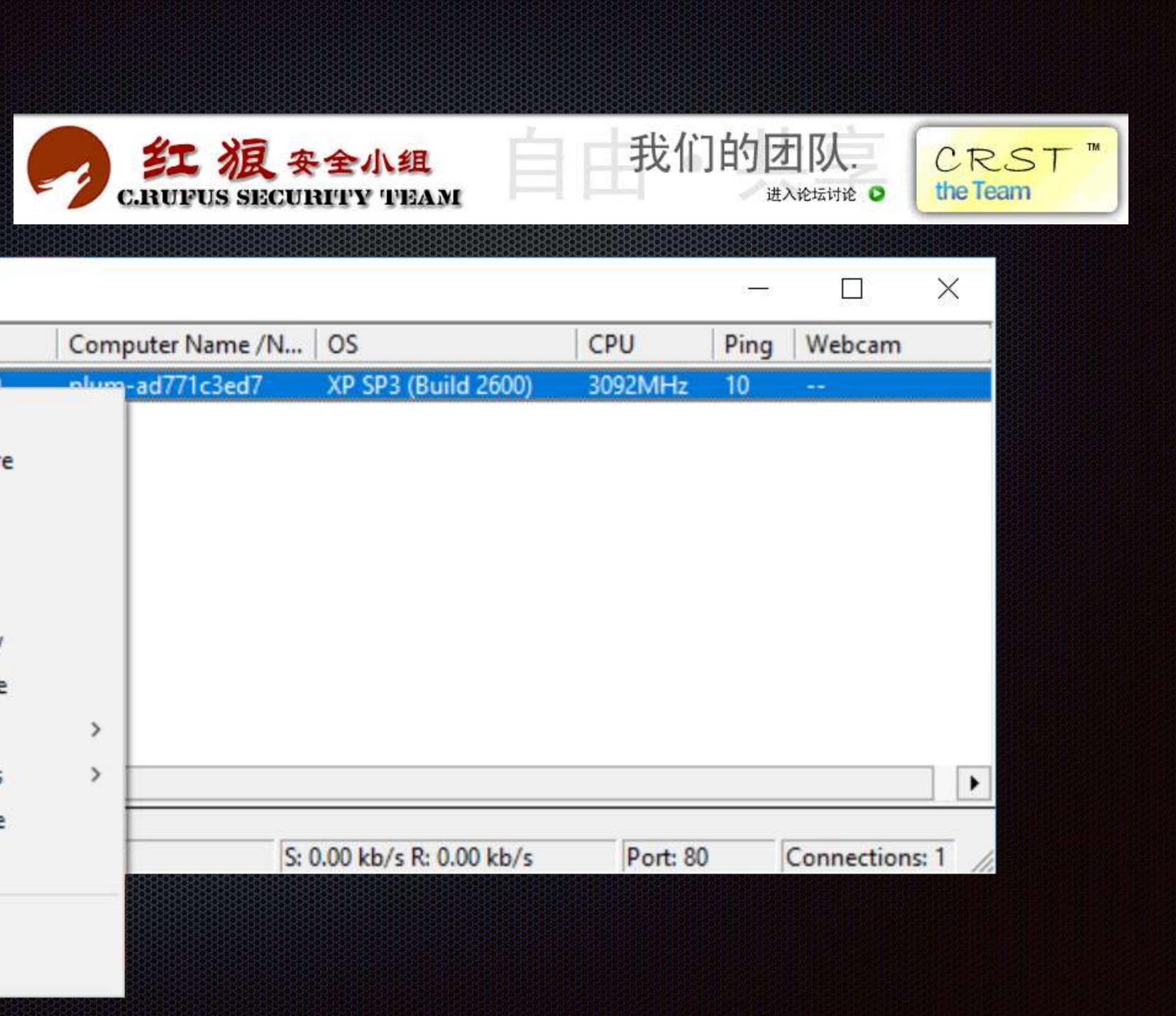
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2

GhOst RAT



Gh0st RAT Beta 3.6	δ			
ID WAN	LAN	Computer Nar		
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	Select All Unselect			

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Gh0st." suggests e-mail ac Posted on July 11, 2013 otivation Threat Contract of Threat Co	ganisation website	Serves Gh0st
Troian	Lompan:	Jon Allac
Kunning Attack Leads Posted on: March 13, 2014 at 9:30 an Author: Kervin Alintanabia	s to Gh0st RAT Variat	a 🦳
Author: Kervin Alintanahin (Threats A	nalvett	The ma
Many advanced persistent threat Haveloped in China	t attacks use the malware, be	Plotting the
		F9 Tr
ETERNALBLUE EXPLO	T SPREADING GH0S	Inve RAT.
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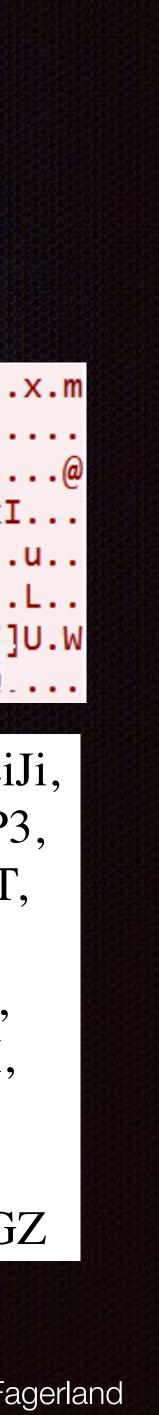


GhOst RAT

 Most notably identified by C2 traffic which start with the 5 byte marker "GhOst" (or other 5 byte marker)

00000	47	68	30	73	74	e6	01	0 0	60	29	04	0 0	0 0	78	9c	6d	GhØst	.)
00010	d2	b1	b1	d3	50	10	05	dØ	65	20	20	а5	03	87	94	b1	P	е
00020	a5	a8	07	1a	b8	95	30	0a	18	7a	20	db	98	9c	8c	40	0.	.z
00030	25	fc	9c	c0	1c	ad	0 9	b1	b4	96	ac	6b	49	ef	bc	b7	%	kI
00040	5f	3e	57	d5	d7	0f	55	bf	de	57	bd	ab	8f	75	7f	1e	_>WU.	.W
00050	3f	3e	d5	ff	3f	d9	bd	92	d7	e1	de	9c	сс	4c	cd	ef	?>?	
00060	a9	b7	9f	df	dd	dc	ea	50	82	c7	a9	46	5d	55	2e	57	P	F]
00070	3f	94	93	96	b7	bc	e5	2d	6f	b9	4b	75	c8	0f	f9	e1	?	o.Ku.
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	00020 00030 00040 00050 00060	00010 d2 00020 a5 00030 25 00040 5f 000050 3f 00060 a9	000010 d2 b1 000020 a5 a8 000030 25 fc 000040 5f 3e 000050 3f 3e 000060 a9 b7	000010d2b1b1000020a5a8070003025fc9c000405f3e57000503f3ed500060a9b79f	000010d2b1b1d3000020a5a8071a00003025fc9cc0000405f3e57d5000503f3ed5ff00060a9b79fdf	000010d2b1b1d350000020a5a8071ab800003025fc9cc01c000405f3e57d5d7000503f3ed5ff3f00060a9b79fdfdd	000010d2b1b1d35010000020a5a8071ab8950003025fc9cc01cad000405f3e57d5d70f000503f3ed5ff3fd900060a9b79fdfdddc	000010d2b1b1d3501005000020a5a8071ab8953000003025fc9cc01cad090000405f3e57d5d70f550000503f3ed5ff3fd9bd00060a9b79fdfdddcea	000010d2b1b1d3501005d0000020a5a8071ab895300a0003025fc9cc01cad09b1000405f3e57d5d70f55bf000503f3ed5ff3fd9bd9200060a9b79fdfdddcea50	000010d2b1b1d3501005d065000020a5a8071ab895300a1800003025fc9cc01cad09b1b40000405f3e57d5d70f55bfde0000503f3ed5ff3fd9bd92d700060a9b79fdfdddcea5082	000010 d2 b1 b1 d3 50 10 05 d0 65 20 000020 a5 a8 07 1a b8 95 30 0a 18 7a 000030 25 fc 9c c0 1c ad 09 b1 b4 96 000040 5f 3e 57 d5 d7 0f 55 bf de 57 000050 3f 3e d5 ff 3f d9 bd 92 d7 e1 000060 a9 b7 9f df dd dc ea 50 82 c7	000010d2b1b1d3501005d0652020000020a5a8071ab895300a187a2000003025fc9cc01cad09b1b496ac0000405f3e57d5d70f55bfde57bd0000503f3ed5ff3fd9bd92d7e1de00060a9b79fdfdddcea5082c7a9	000010d2b1b1d3501005d0652020a500020a5a8071ab895300a187a20db0003025fc9cc01cad09b1b496ac6b000405f3e57d5d70f55bfde57bdab000503f3ed5ff3fd9bd92d7e1de9c00060a9b79fdfdddcea5082c7a946	000010d2b1b1d3501005d0652020a50300020a5a8071ab895300a187a20db980003025fc9cc01cad09b1b496ac6b49000405f3e57d5d70f55bfde57bdab8f000503f3ed5ff3fd9bd92d7e1de9ccc00060a9b79fdfdddcea5082c7a9465d	000010 d2 b1 b1 d3 50 10 05 d0 65 20 20 a5 03 87 000020 a5 a8 07 1a b8 95 30 0a 18 7a 20 db 98 9c 000030 25 fc 9c c0 1c ad 09 b1 b4 96 ac 6b 49 ef 000040 5f 3e 57 d5 d7 0f 55 bf de 57 bd ab 8f 75 000050 3f 3e d5 ff 3f d9 bd 92 d7 e1 de 9c cc 4c 000060 a9 b7 9f df dd dc ea 50 82 c7 a9 46 5d 55	000010d2b1b1d3501005d0652020a503879400020a5a8071ab895300a187a20db989c8c0003025fc9cc01cad09b1b496ac6b49efbc000405f3e57d5d70f55bfde57bdab8f757f000503f3ed5ff3fd9bd92d7e1de9ccc4ccd00060a9b79fdfdddcea5082c7a9465d552e	000010 d2 b1 b1 d3 50 10 05 d0 65 20 20 a5 03 87 94 b1 000020 a5 a8 07 1a b8 95 30 0a 18 7a 20 db 98 9c 8c 40 000030 25 fc 9c c0 1c ad 09 b1 b4 96 ac 6b 49 ef bc b7 000040 5f 3e 57 d5 d7 0f 55 bf de 57 bd ab 8f 75 7f 1e 000040 5f 3e 57 d5 d7 0f 55 bf de 57 bd ab 8f 75 7f 1e 000050 3f 3e d5 ff 3f d9 bd 92 d7 e1 de 9c cc 4c cd ef 000060 a9 b	000010 d2 b1 b1 d3 50 10 05 d0 65 20 a5 03 87 94 b1 P 000020 a5 a8 07 1a b8 95 30 0a 18 7a 20 db 98 9c 8c 40 0. 000030 25 fc 9c c0 1c ad 09 b1 b4 96 ac 6b 49 ef bc b7 %0. 000030 25 fc 9c c0 1c ad 09 b1 b4 96 ac 6b 49 ef bc b7 %0. 000040 5f 3e 57 d5 d7 of 55 bf de 57 bd ab 8f 75 7f 1e _>WU. 000050 3f 3e d5 ff d9 bd 92 d7 e1 de 9c cc 4c cd <t< th=""></t<>

00000, 7hero, ABCDE, Adobe, ag0ft, apach, Assas, attac, B1X6Z, BEiLa, BeiJi, Blues, ByShe, cb1st, chevr, CHINA, cyl22, DrAgOn, EXXMM, Eyes1, FKJP3, FLYNN, FWAPR, FWKJG, GWRAT, Gh0st, Gi0st, GM110, GOLDt, HEART, Hello, https, HTTPS, HXWAN, Heart, httpx, IM007, ITore, kaGni, KOBBX, KrisR, light, LkxCq, LUCKK, LURK0, lvxYT, LYRAT, Level, Lover, Lyyyy, MOUSE, MYFYB, MoZhe, MyRat, Naver, NIGHT, NoNul, Origi, OXXMM, PCRat, QQ_124971919, QWPOT, Snown, SocKt, Spidern, Super, Sw@rd, Tyjhu, URATU, v2010, VGTLS, W0LFKO, Wangz, wcker, Wh0vt, whmhl, Winds, wings, World, X6M9K, X6RAT, XDAPR, xhjyk, Xjjhj, xqwf7, YANGZ



Remote file upload

Give me C:\Documents\user\file.doc so I can save it to targetX\file.doc







Here is the [data] so you can save it to targetX\file.doc

Remote file upload

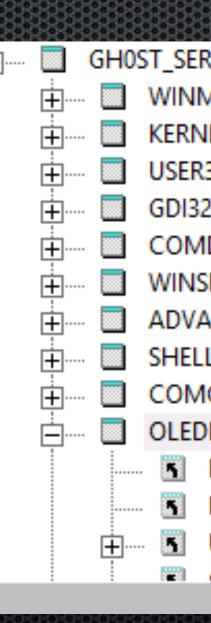


Here is the [data] so you can save it to C:\...\startup\backdoor.exe



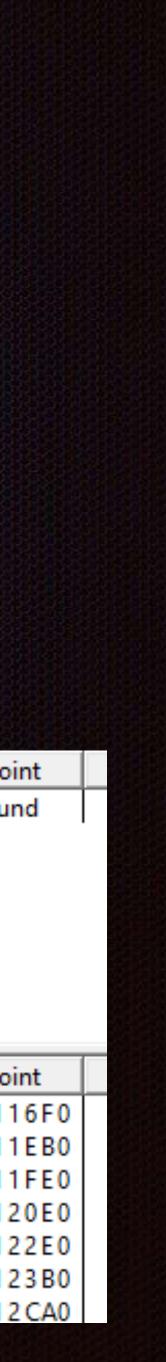
DLL side load vulnerability

Gh0st Server has a dependency on oledlg.dll Only imports one function ■ #8 OleUIBusyA(int) Return 1 and all is good



<

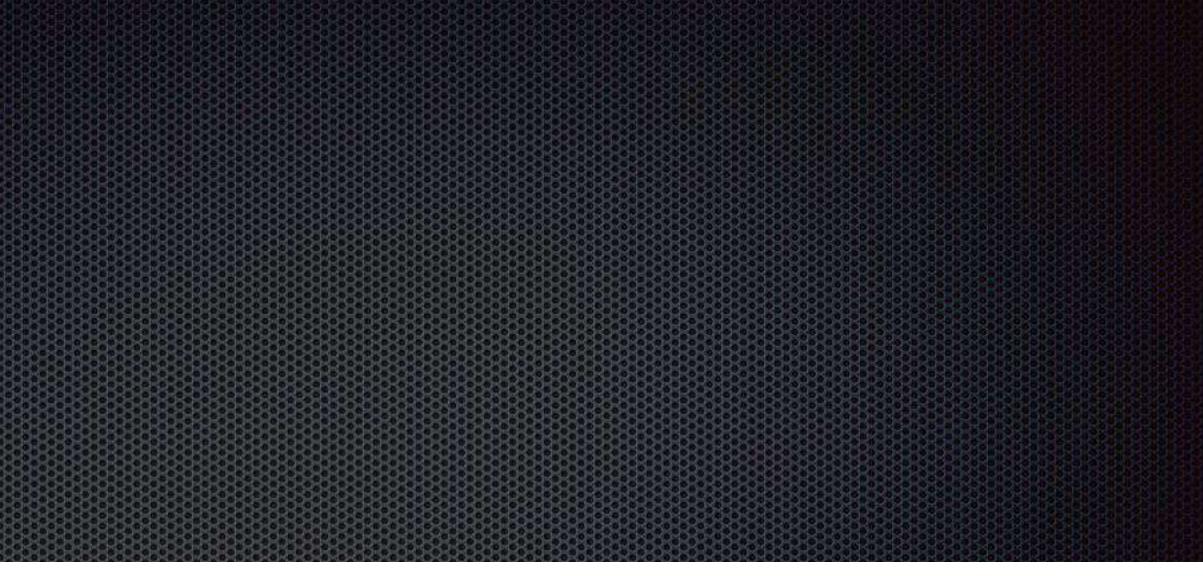
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RVER.EXE	^	PI	Ordinal ^	Hint	Function	Entry Poi
MM.DLL		0#	8 (0x0008)	N/A	N/A	Not Bour
VEL32.DLL			-		-	-
R32.DLL						
2.DLL						
IDLG32.DLL						
SPOOL.DRV						
API32.DLL						
LI32.DLL		E	Ordinal ^	Hint	Function	Entry Poi
ICTL32.DLL		C	4 (0x0004)		OleUIPasteSpecialA	0x00011
DLG.DLL		C	5 (0x0005)	11 (0x000B)	OleUIEditLinksA	0x00011
MSVCRT.DLL		C	6 (0x0006)	5 (0x0005)	OleUIChangelconA	0x00011
KERNEL32.DLL		C	7 (0x0007)	9 (0x0009)	OleUIConvertA	0x00012
USER32.DLL		1 <mark>C -</mark>	8 (0x0008)	2(0x0002)	OleUlBusyA	0x00012
GD122 DL1	×	C	9 (0x0009)	21 (0x0015)	OleUIUpdateLinksA	0x00012
		C	10 (0x000A)	19 (0x0013)	OleUIPromptUserA	0x00012



// 保存远程驱动器列表

memset(m_bRemoteDriveList, 0, sizeof(m_bRemoteDriveList)); memcpy(m_bRemoteDriveList, m_pContext->m_DeCompressionBuffer.GetBuffer(1), m_pContext->m_DeCompressionBuffer.GetBufferLen() - 1);







14	class CFileManagerDlg : publ
15	{
16	// Construction
17	public:
18	<pre>bool m_bIsStop;</pre>
19	CString m_strReceive
20	CString m_strUploadF
21	<pre>void ShowProgress();</pre>
22	<pre>void SendStop();</pre>
23	<pre>int m_nTransferMode;</pre>
43	void ShowMessage(cha
44	CString m_Remote_Pat
45	BYTE m_bRemoteDriveL
46	CString GetParentDir
47	void OnReceiveComple
48 AB	
49	CImageList* m_pImage
50	CImageList* m_pImage
51	
(52)	<pre>int m_nNewIconBaseIn</pre>
53	
54	ClientContext* m_pCo
55	CIOCPServer* m_iocpS
562	CString m_TPAddress:

lic CDialog

eLocalFile; RemoteFile; ;

;

ar *lpFmt, ...); th; List[1024]; rectory(CString strPath); ete();

eList_Large; eList_Small;

ndex; // 新加的ICON

.

ontext; Server;

-

Exploitation

- Control pointer to pointer
- Could use a information disclose vuln (if I had one)
- Thus, take the lazy man's approach and heap spray
- DEP would break this but it also seems to break the EXE

Decode implant configs

- https://github.com/kevthehermit/RATDecoders
 - GhOst
 - Xtreme Rat
 - Poision Ivy
 - DarkComet
 - Many others



TheHermit kevthehermit





Contact Us

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COLUMN TO A

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Finding the Command & Control Centers of Botnets across the Globe.

10+ RATs

Malware Hunter

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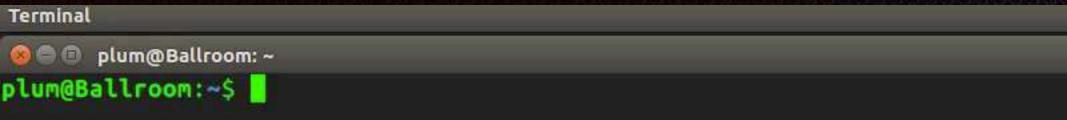


24/7 Coverage

188.225.226.48









🗇 😑 🐵 Windows 10 (Gh0st) [Running] - Oracle VM VirtualBox





Recycle Bin



Gh0st

english.exe



There

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About

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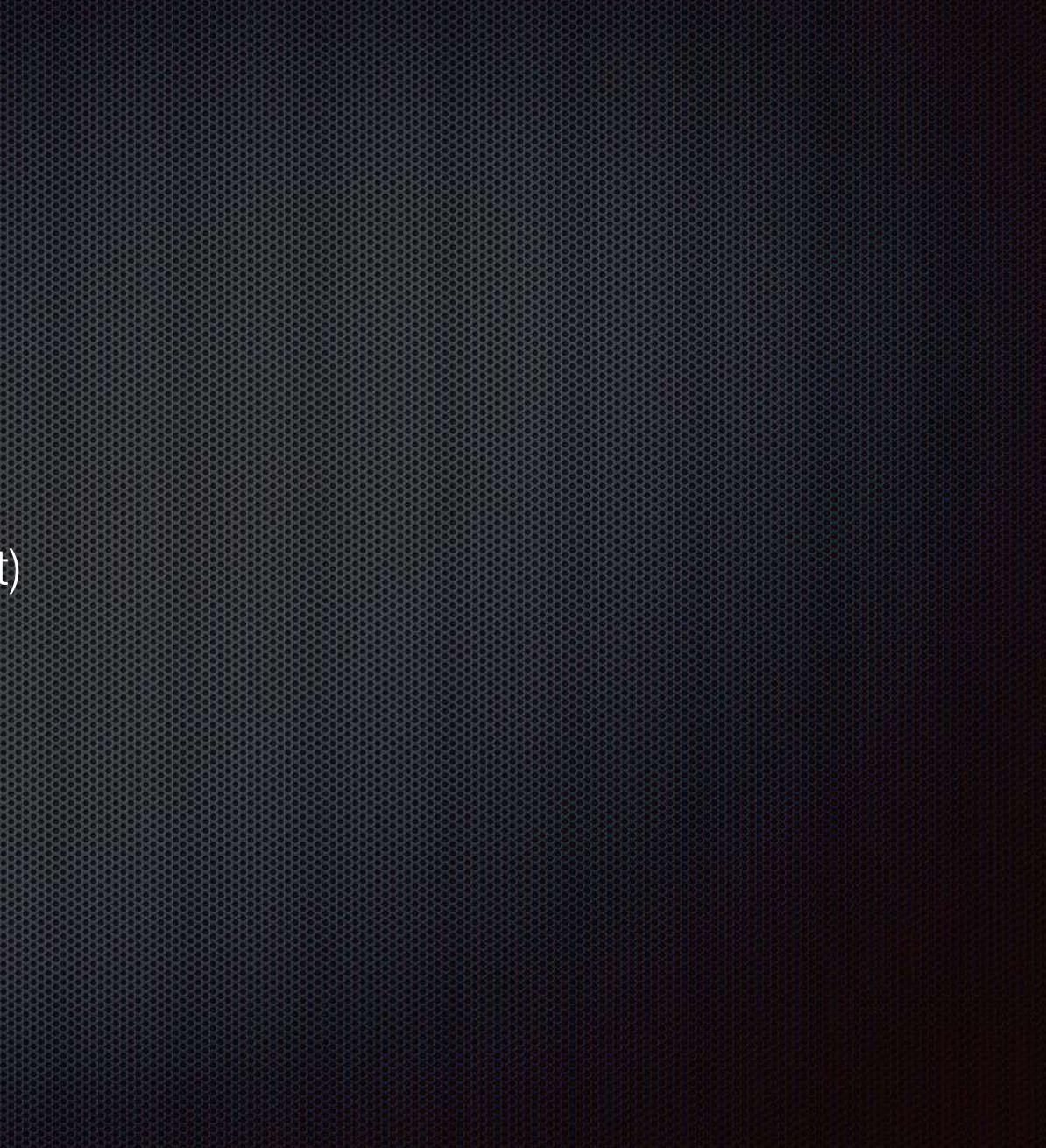


2

Post exploitation

Netstat

- IP address of other victims
- May show RDP connections in (or out)
- Walk FS looking for other hacking tools
- Install persistance
- Install keylogger
- Steal credentials



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"He who is prudent and lies in wait for an enemy who is not, will be victorious." -- Sun Tzu, The Art of War



Thank you

@professor__plum