New release of Lampion trojan spreads in Portugal with some improvements on the VBS downloader

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New release of Lampion trojan spreads in Portugal with some improvements on the VBS downloader.

A new release of the Lampion trojan banker was launched with fresh improvements in the way the malware loader – the initial VBS file – is operating. The recent wave has been noted in Portugal and is impacting clients of several Portuguese and Brazilian banking organizations and also some cryptocurrency platforms.

Some details were observed during the malware analysis, namely:

- Changes in the VBS downloader DLL injection executes the 1st stage.
- Anti-VM techniques were improved (probably native features of VM-Protector packer).
- Changes in how it communicates with the C2 server geolocated in Russia.

Lampion was <u>first documented in December 2019</u>, and it was distributed in Portugal via phishing emails using templates based on the Portuguese Government Finance & Tax.

More recently, in May 2020, <u>a new variant of Lampion was observed</u>. Here, it was distributed using fake webpages, where the victim downloaded an MSI file, which then held the remaining Lampion infection chain.

Our analysis of the phishing email of this new campaign detected at the end of June – July 2020 showed that the template is very similar to the template distributed on May 8th, 2020. A fake template from SAPOTRANSFER was used with the message inside the email referring to any missing payment or invoice.

De: SAPO Transfer < <u>noreply@transfer.sapo.pt</u> > Enviada: sexta-feira, 8 de maio de 2020 13:17	
Para: Assunto:@gmail.com enviou-lhe um ficheiro	
SAPO TRANSFER	
Olá,	SAPD Transfer «noreply@transfer sapo.pt>
@gmail.com enviou-lhe um ficheiro usando o SAPO Transfer com a seguinte mensagem	SAPO TRANSFER
Estimado(a): geral@ tranterência Nacional de € 6254,53, prioridade normal, código UJN3O6H , 5/8/2020 5:16:33 AM. Com os melhores cumprimentos, Paulo da	n.Teles. enviou-lhe um ficheiro usando o SAPO Transfer com a seguinte mensagem: amadola) demificiano de pagamento como solicitado, montante € 72/15.37, documento de
Ficheiro Disponter ale 15-05-2020	mero: 1323. Con os methores cumptimentos Renan Totes Besa, 600/0200 1126:06 AM. heiro ever an of 47 2000
Transferencia-Bancaria-Comprovativo-24pb-05052020-PDF-1911.zip	Anero-comprovativo-de-transaccao-N-(BN3az8indb-DOC-468.zg)
Download	Download
wai johnis cardos cana limpeco hotes volcher ross fronce magi \cdot imp \cdot . $\bigotimes \mathbb{A}$	Qualquer pressoa pode envider ficherios attravels do SARCO Transfer. Ficherios ata SGB. Multo rápidos, simples, e goldis.
SAPOTRANSFER Eres at 2014 hibres, gedateures, un regets: On hibres han diguestes par dischard daten 7 der. Segura n.c.as Informática	Segurança
May 8th, 2020	July 2020

Figure 1: The email template used in July 2020 is similar to the previous one used in May 2020.

These emails are sent towards the end of the month, simulating the payment of a service or bills – the ideal time to catch the most reckless victims.



Figure 2: Files available after decompiling the ZIP file distributed via email.

Looking at the following images, the PDF file inside the ZIP file is just a decoy to distract the victim. The text is written in Portuguese, and just the logo at the end of the document was changed between May and July malware versions.



Figure 3: PDF file and content delivered are similar, only the logo at the end of the document was changed.

As previously stated [1], [2], the VBS file is one that, when executed, serves as a downloader for the infection chain. Once executed, additional files are downloaded from Google Cloud, which are loaded into memory using a well-known technique called DLL injection.

Once again the code in the VBS file is obfuscated to make it difficult to analyze.



Figure 4: VBS file – Lampion downloader – obfuscation layer.

It is important to note that this new release brings some changes to Lampion's documented *modus operandi*. The next graph presents the various forms already documented the threat.



Figure 5: Different ways of how Lampion has been distributed in-the-wild.

As noted, malware is usually distributed with a simple email template, where the victim downloads a ZIP file with a VBS downloader inside. However, in May 2020, criminals used a fake page to distribute an MSI file, which used the theme COVID-19 that impersonates the Portuguese government, and which, after being executed, launched the VBS file.

The infection chain, in both scenarios, starts through the VBS downloader file. This file is responsible for downloading two files from online Clouds, such as AWS, Microsoft, SAPO, and more recently Google, creating, thus, persistence on the machines to execute the threat every time machine starts.

In detail, an EXE file was downloaded, which when executed, injects into memory the second DLL inside the 0.zip file and protected by a password. This DLL has the trojan code protected using the VM-Protector, a commercial packer.

However, **in this new release, two DLL files are distributed**. VBS file leverages the Windows rundll32 library to inject the first DLL into memory (P-14-7.dll), and it is then responsible for loading the second DLL into memory and starting, thus, the infection process.

Deofuscation and renaming VBS calls

After a few rounds of deobfuscation and renaming calls, we have a clean version of the source code to analyze in-depth.





Figure 6: Deofuscated VBS file – Lampion trojan July 2020.

Some parts of the code are highlighted in Figure 6 and described below:

- 1. Function to generate random strings is used to generate arbitrary folders and file names.
- 2. Random strings generation.
- 3. Function used to decrypt strings.
- 4. Delete *.LNK files from the Windows startup folder.
- 5. Delete *.VBS files from the Windows startup folder.
- 6. Create a random folder on %appdata% to host the downloaded files (P-14-7.dll and 0.zip).
- 7. Get classes for computer hardware and configuration.
- 8. Google Cloud URLs obfuscated (URL1 and URL2).
- 9. Download the 2nd stage from Google Cloud (0.zip).
- 10. Download 1st stage trojan loader from Google Cloud (P-14-7.dll).
- 11. Create .VBS file inside %appfolder% persistence technique used by criminals.
- 12. Generate the content of the .VBS file (decryption functions, DLL injector, and anti-VM/sandbox).
- 13. Create a folder inside the Windows startup folder.
- 14. Crete .LNK file inside the Windows startup folder.
- 15. Set up .LNK file to execute DLL injection via rundll32.
- 16. Sleep and shutdown commands are two techniques for online sandbox evasion.

17. Trojan starts.

In detail, the malware uses a .LNK file to inject the first stage P-14-7.dll into memory. Then, the call **YourGonnaPayMeToday** is invoked as shown in Figure 7. This DLL is used as a loader for the final payload, a DLL inside 0.zip file, and it is injected into memory via DLL injection. Both files are protected with the commercial packer – VM Protector.

```
--create LKN file--
C:\Users\admin\AppData\Roaming\Microsoft\Windows\Start
Menu\Programs\Startup\usynknwwbmj.lnk
-----run-dll-----
CommandLineArguments:
C:\Users\admin\AppData\Roaming\59684788644313\eakyvqgqeovfzwxau27622472643851.dll
YourGonnaPayMeToday
WorkingDirectory:
                       C:\Users\admin\AppData\Roaming\Microsoft\Windows\Start
Menu\Programs\Startup\usynknwwbmj
               ..\..\..\..\..\..\Windows\system32\rundll32.exe
RelativePath:
                       rundll32.exe
TargetFileDOSName:
HotKey: (none) RunWindow:
                       (none)
Normal IconIndex:
TargetFileSize: 0
FileAttributes: (none)
Flags: IDList, RelativePath, WorkingDir, CommandArgs, Unicode
Final payload:
rundll32.exe
```

C:\Users\admin\AppData\Roaming\59684788644313\eakyvqgqeovfzwxau27622472643851.dll YourGonnaPayMeToday

VBS file – Decrypted strings

```
Encrypted:
4Ic^GjEj/fzie0[%2%yifjne$h4Wf]g[m$0]6eDeo]wbg[aWSf5_siR$[YDeKcv%HXJe.cEXT[Zj4WkXnhSWKd
Decrypted: hxxps://storage.googleapis.]com/bombetabrancaevinho/0.]zip
Encrypted: r?F^5jAj.fCiB0*%Z%%i<jTefhMWl]x[.$u]uefe\]wb[[JW.fk_%iF$sY}ePc+%`X&e2c]X]
[bjnW?X*h'WfdeY_WC[.lo_]db^WeT%eF(#g'=*o#o-Q$-Z8b/b-j
Decrypted: hxxps://storage.googleapis.]com/bombetabrancaevinho/P-14-7.]dll
Encrypted: k8NhIk;dUZLb$b/)0(5:
Decrypted: rundll32
Encrypted: J.90beck[h6=nePd{d>WwFQWGoiC|[5Joe,Z<WDo=4
Decrypted: YourGonnaPayMeToday
```

As seen in Figure 5, the initial versions of Lampion were distributed in the form of the EXE. This file was responsible for unpacking the DLL from the 0.zip file and injecting it into memory.

In this version, two DLLs are distributed instead of an EXE and single DLL. The first (P-14-7.dll) is injected via DLL injection by the VBS file at the initial stage. For this, it invokes the call **YourGonnaPayMeToday** from EAT.

EJUA05U	Characteristics	0			
E50A834	TimeDateStamp	0	Thursday, 01.01.19	70 00:00:00 UTC	
E50A838	MajorVersion	0			
E50A83A	MinorVersion	0			
E50A83C	Name	E8F4F02	Project1.dll		
E50A840	Base	1			
E50A844	NumberOfFunc	5			
E50A848	NumberOfNames	5			
E50A84C	AddressOfFunc	E8F4258			
E50A850	AddressOfNames	E8F4276			
E50A854	AddressOfNam	E8F426C			
Exported Fun	ctions [5 entries]				
-					
Offset	Ordinal	Function RVA	Name RVA	Name	Forwarder
Offset E50A858	Ordinal 1	Function RVA 277640	Name RVA E8F42D1	Name dbkFCallWrapperAddr	Forwarder
Offset E50A858 E50A85C	Ordinal 1 2	Function RVA 277640 110C0	Name RVA E8F42D1 E8F42BD	Name dbkFCallWrapperAddr dbk_fcall_wrapper	Forwarder
Offset E50A858 E50A85C E50A860	Ordinal 1 2 3	Function RVA 277640 110C0 66BD4	Name RVA E8F42D1 E8F42BD E8F428A	Name dbkFCallWrapperAddr dbk_fcall_wrapper TMethodImplementationIntercept	Forwarder
Offset E50A858 E50A85C E50A860 E50A864	Ordinal 1 2 3 4	Function RVA 277640 110C0 66BD4 25D0E0	Name RVA E8F42D1 E8F42BD E8F428A E8F42A9	Name dbkFCallWrapperAddr dbk_fcall_wrapper TMethodImplementationIntercept YourGonnaPayMeToday	Forwarder
Offset E50A858 E50A85C E50A860 E50A864	Ordinal 1 2 3 4	Function RVA 277640 110C0 66BD4 25D0E0	Name RVA E8F42D1 E8F42BD E8F428A E8F42A9	Name dbkFCallWrapperAddr dbk_fcall_wrapper TMethodImplementationIntercept YourGonnaPayMeToday	Forwarder
Offset E50A858 E50A85C E50A860 E50A864 E50A868	Ordinal 1 2 3 4 5	Function RVA 277640 110C0 66BD4 25D0E0	Name RVA E8F42D1 E8F42BD E8F428A E8F42A9 E8F42A9	Name dbkFCallWrapperAddr dbk_fcall_wrapper TMethodImplementationIntercept YourGonnaPayMeToday Segu DS#Î<ó" »!!\$Õà\$ ¹ +ËN ¹ cäf?+Ý]FØ£W0*V?	Forwarder Urança hática

Figure 7: Call invoked to load the DLL in memory (YourGonnaPayMeToday) – 1st stage.

This first file is called by the VBS script and loaded into memory via the DLL injection technique using rundll32.exe from Windows, a technique widely used by red teams and pentesters when used Metasploit framework.

rundll32.exe C:\Users\admin\AppData\Roaming\59684788644313\eakyvqgqeovfzwxau27622472643851.dll YourGonnaPayMeToday

As other trojan bankers from Latin America – <u>Grandoreiro</u> – criminals are using arbitrary BMP images to increase the size of binaries, thus avoiding signature detection and also making it difficult to analyze via online sandboxes – since some sandboxes have a limit per size when uploading files.

Also, a new layer anti-VM was added to this new release as shown below.



Figure 8: Lampion DLL file oversize and error message when malware detects it is running inside a VM.

As observed in other Lampion versions, the 0.zip file is protected with a strong password, which is extracted from the loader P-14-7.dll (1st stage). After extracting the final DLL from the ZIP file, 2nd_stage.dll, and executing it in memory via DLL injection, it executes the infection process.

This final DLL is executed in memory by calling the "DoThisBicht" function (see below).

As shown, most of the file content and EP address are located in the vmp01 section. From Figure 32, we can observe the DLL export address table (EAT).

dbkFCallWrapperAddr	0x00B6E640
dbk_fcall_wrapper	0x0040F984
WNetUseConnectionW	0x00B464F4
WNetGetConnectionW	0x00413318
WNetCancelConnection2W	0x00B46500
WNetAddConnection2W	0x00B4650C
WNetAddConnection2A	0x00B464DC
VerQueryValueW	0x00B46548
VerQueryValueA	0x00B4656C
TMethodImplementationIntercept	0x004A1B84
SHGetFolderPathW	0x00B4657C
GetMappedFileNameW	0x00B46518
GetFileVersionInfoW	0x00B4653C
GetFileVersionInfoW	0x00B4653C
GetFileVersionInfoSizeW	0x00413330
GetFileVersionInfoSizeA	0x00B46560
GetFileVersionInfoA	0x00B46554
FilterSendMessage	0x00B46530
FilterConnectCommunicationPort	0x00B46524
DoThisBicht	0x00B46580
CryptUIDIgCertMgr	0x00B46578
CallFormPrincipal	0x00B464E8

Offset	Ordinal	Function RVA	Name RVA	Name
2EE9F8	1	772640	194E4A2	dbkFCallWrapperAddr
2EE9FC	2	F984	194E48E	_dbk_fcall_wrapper
2EEA00	3	A1B84	194E3EC	TMethodImplementationIntercept
2EEA04	4	74A7DC	194D6DE	CallFormPrincipal
2EEA08	5	74A854	194D753	GetFileVersionInfoSizeA
2EEAOC	6	74A848	194D73F	GetFileVersionInfoA
2EEA10	7	74A860	194E40B	VerQueryValueA
2EEA14	8	74A83C	194E41A	VerQueryValueW
2EEA18	9	74A830	194D783	GetFileVersionInfoW
2EEA1C	A	74A830	194D797	GetFileVersionInfoW
2EEA20	в	13330	194D76B	GetFileVersionInfoSizeW
2EEA24	С	74A824 Sa	194D72D	FilterSendMessage
2EEA28	D	74A818	194D70E	FilterConnectCommunicationPort
2EEA2C	E	74A80C	194D7AB	GetMappedFileNameW
2EEA30	F	74A800	194E43D	WNetAddConnection2W
2EEA34	10	13318	194E468	WNetGetConnectionW
2EEA38	11	74A7F4	194E451	WNetCancelConnection2W
2EEA3C	12	74A7E8	194E47B	WNetUseConnectionW
2EEA40	13	74A7D0	194E429	WNetAddConnection2A
2EEA44	14	74A86C	194D6F0	CryptUIDIgCertMgr
2EEA48	15	74A870	194E3DB	SHGetFolderPathW
2EEA4C	16	74A874	194D702	DoThisBicht

Figure 32: Export Address Table (EAT) from the DLL inside 0.zip.

December 2019

July 2020

Figure 9: Lampion 2nd stage executed in memory via DLL injection.

Lampion's operating mode is the same as those analyzed in previous publications [1], [2], nonetheless, the DLL was recently compiled and is accompanied by some changes, as the addresses of C2 have been changed and also the way it communicates with C2. This time it is not used to transfer information about the infected machine through an HTTP call with the destination C2, but TCP sockets are used.

entry-point	68 BC 15 76 23 E8 C2 8D B7 FF F9 41 0F C8 F8 41 3B CB 41 F7 D8 41 84 CC 41 57 41 FE CF 44 31 04 24
file-version	1.0.0.0
description	MsCtfMonitor
file-type	dynamic-link-library
сри	32-bit
subsystem	GUI
compiler-stamp	0x5EEFEF9A (Sun Jun 21 16:39:06 2020 - UTC)
debugger-stamp	n/a Segurariça
resources-stamp	0x50D5ACE2 (Sat Dec 22 04:51:46 2012)

Figure 10: Compilation time – Jun 21 16:39 – 2020.

The target banking organizations are the same as observed in the past samples.

00	002e60	5d	c3	00	00	b0	04	02	00	ff	ff	ff	ff	0f	00	00	00	4c	00	69	00 6	id 0	0 70	00	61	00	6e	00	64	00	6f	00]L.i.m.p.a.n.d.o.
00	002e80	20	00	43	00	68	00	61	00	63	00	68	00	65	00	00	00	b0	04	02	00 f	ff	f ff	ff	17	00	00	00	64	00	64	00	.C.h.a.c.h.ed.d.
00	002ea0	2f	00	6d	00	6d	00	2f	00	79	00	79	00	79	00	79	00	20	00	48	00 4	18 0) 3a	00	4e	00	4e	00	3a	00	53	00	/.m.m./.y.y.y.yH.H.:.N.N.:.S.
00	002ec0	53	00	2e	00	7a	00	7a	00	7a	00	00	00	b0	04	02	00	ff	ff	ff	ff (4 0	0 00	00	20	00	2d	00	3e	00	20	00	Sz.z.z
00	002ee0	00								ff	ff	ff	ff																				b.a.n.с.ож.о.
00	002f00	6e																					f f1										n.t.e.p.i.o
00	002 f 20	6e																					f ff	ff									n.t.e.p.i.oM.F.
00	002 f 40	00									ff	ff	ff																				
00	002f60	75																ff															u.m.b.c.pM.L
00	002f80	b0				ff	ff	ff																									S.a.n.t.a.n.d.e.r
00	002fa0	b0				ff	ff	ff																									B.F.IN.e.t
00	002fc0	ff	ff	ff	ff																												B.a.n.c.cB.F.I
00	002fe0	ff	ff																				f f1										B.F.IC.a.
00	003000	69																												ff	ff	ff	i.x.a.d.i.r.e.c.t.a
00	003020	15																															C.a.i.x.a.d.i.r.e.c.t.aE.
00	003040	6d																					f f1										m.p.r.e.s.a.s
00	003060	44								ff	ff	ff	ff																				DB.A.N.
00	003080	43															ff						0 42										C.C
00	0030a0	ff	ff	ff	ff																								ff	ff	ff	ff	E.u.r.o.B.i.c
00	0030c0	02																ff	ff	ff	ff 1												E.Bd.
00	0030e0	69																															i.t.oA.g.rc.o.l.a
00	003100	ff	ff	ff	ff																												I.o.g.i.nF.a.g.e
00	003120	ЪO				ff	ff	ff																									С.АЕ.π.р.r.e.s.a.
00	003140	73								ff	ff	ff	ff																ff	ff	ff	ff	sC.A
00	003160	09																											ff	ff	ff	ff	B.a.n.k.i.n.t.e.r
00	003180	02																ff	ff	ff	ff 1												B.I
00	0031a0	67																														00	g.a.d.o.re.x.c.l.u.s.i.v.o
00	0031c0	53	8b	d8	8b	83	24	04	00	00	33	d2	e8	08	fl	al	ff	8b	83	d4	03 0	0 0) b2	01	e8	8f	61	ab	ff	5b	c 3	90	S\$3a[
00	0031e0	55	8b	ec	81	c4	b4	fd	ff	ff	53	56	57	33	d2	89	95	bc	fd	ff	ff 8	9 9	5 b4	fd	ff	ff	89	95	b8	fd	ff	ff	USVW3
00	003200	89	95	cc	fd	ff	ff	89	95	c 0	fd	ff	ff	89	95	c8	fd	ff	ff	89	95 c	:4 f	i ff	ff	89	45	fc	8b	45	fc	e8	75	Et
0.00		100	0.0				_									-	00	0.0	2.2	<i></i>	~~				~ ~	~~	- 0	45	51	aG	ff.	8h	
00	003220	a7	00	II	33	c 0	55	68	61	c3	9d	04	64	ff	30	64	89	20	33	II	33 C	12 b	8 02	00	00	00	ea	uJ	~ -	u .	± ±	020	3.Uhad.0d. 3.3Q
00	003220	۵/ f0	c7	11 85	33 d0	c0 fd	55 ff	68 ff	61 2c	c3 02	9d 00	04 00	64 8d	ff 95	30 d0	64 fd	ff	20 ff	33 8b	11 C6	33 0 e8 0	12 b 1c 5	8 02 1_a9	00 ff	00 8b	_00 _d8	es e9	ce	00	00	00	8d	
00	003220 003240 003260	d7 f0 85	c7 c4	11 85 fd	33 d0 ff	c0 fd ff	55 ff 8d	68 ff 95	61 2c f4	c3 02 fd	9d 00 ff	04 00 ff	64 8d b9	ff 95 04	30 d0 01	64 fd 00	89 ff 00	ff e8	33 8b 63		33 0 88 0 80 1	12 b 1c 5. 1f 81	3 02 1 a9	100 11	8b fd	00 d8 ff	es e9 ff	ce 8d	00	00	00 fd	8d ff	
00	003220 003240 003260 0059e0	10 85 b0	c7 c4 04	11 85 fd 02	33 d0 ff 00	c0 fd ff ff	55 ff 8d ff	68 ff 95 ff	61 2c f4 ff	c3 02 fd 02	9d 00 ff 00	04 00 ff 00	64 8d b9 00	ff 95 04 73	30 d0 01 00	64 fd 00 65	11 00 00	20 ff e8 00	33 8b 63 00	c6 e4 00	33 0 80 1 00 1	12 b 1c 5 1f 81 00 0	8 02 1 a9 5 85 4 02	ff 64	8b fd ff	d8 ff ff	es e9 ff ff	ce 8d ff	00 95 02	00 <u>c8</u> 00	00 fd 00	8d ff 00	
00	003240 003260 0059e0 005a00	a7 f0 85 b0 73	c7 c4 04 00	11 85 fd 02 64	33 d0 ff 00 00	c0 fd ff ff 00	55 ff 8d ff 00	68 ff 95 ff 00	61 2c f4 ff 00	c3 02 fd 02 b0	9d 00 ff 00 04	04 00 ff 00 02	64 8d b9 00 00	ff 95 04 73 ff	30 d0 01 00 ff	64 fd 00 65 ff	89 ff 00 00 ff	20 ff e8 00 07	33 8b 63 00 00	c6 e4 00	33 c e8 c 8c f 00 1		8 02 1 a9 5 85 4 02 0 72	100 11 14 2 00 2 00	8b fd ff 61	d8 ff ff 00	e8 e9 ff ff 76	ce 8d ff 00	00 95 02 61	00 c8 00 00	00 fd 00 42	8d ff 00 00	
00	003240 003260 0059e0 005a00 005a20	d7 f0 85 b0 73 42	c7 c4 04 00 00	11 85 fd 02 64 00	33 d0 <u>ff</u> 00 00 00	c0 fd ff ff 00 b0	55 ff 8d ff 00 04	68 ff 95 ff 00 02	61 2c f4 ff 00 00	c3 02 fd 02 b0 ff	9d 00 ff 00 04 ff	04 00 <u>ff</u> 00 02 ff	64 8d b9 00 00 ff	ff 95 04 73 ff 11	30 d0 01 00 ff 00	64 fd 00 65 ff 00	89 ff 00 00 ff 00	20 ff 00 07 a9	8b 63 00 00 00	c6 e4 00 00 20	33 c 8c f 00 1 00 9 00 9	12 b 1c 5 1c 5 1c 8 1c 8 1	3 02 1 a9 5 85 4 02 0 72 0 73	ff 64 2 00 2 00 2 00	8b fd ff 61 6e	d8 ff ff 00 00	e8 e9 ff ff 76 63	ce 8d ff 00 00	00 95 02 61 6f	00 <u>c8</u> 00 00 00	00 fd 00 42 20	8d ff 00 00 00	
000000000000000000000000000000000000000	003220 003240 003260 0059e0 005a00 005a20 005a40	a7 f0 85 b0 73 42 64	04 00 00 00	11 85 fd 02 64 00 6f	33 d0 ff 00 00 00 00	c0 fd ff 00 b0 20	55 ff 8d ff 00 04 00	68 ff 95 ff 00 02 42	61 2c f4 ff 00 00 00	c3 02 fd 02 b0 ff 72	9d 00 ff 00 04 ff 00	04 00 ff 00 02 ff 61	64 8d b9 00 00 ff 00	ff 95 04 73 ff 11 73	30 d0 01 00 ff 00 00 00	64 fd 65 ff 00 69	89 ff 00 00 ff 00 00	20 ff e8 00 07 a9 6c	33 8b 63 00 00 00 00	11 c6 <u>e4</u> 00 00 20 00	33 c 8c f 00 1 00 5 00 4 00 1	12 b 1c 5 1c 5 1c 8 10 0 14 0 12 0	8 02 1 a9 6 89 4 02 6 72 0 72 0 61 4 02	00 ff 64 00 00 00 00	8b fd ff 61 6e ff	00 d8 ff ff 00 00 ff	e8 e9 ff ff 76 63 ff	ce 8d ff 00 00 ff	00 95 02 61 6f 08	00 <u>c8</u> 00 00 00 00 00	00 fd 00 42 20 00	8d ff 00 00 00 00	
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Figure 11: Banking organizations found inside the malware are the same as document in the past.

During the malware execution, it collects keystrokes (keylogger features) and is in a constant loop identifying the focus windows that the user is visiting.

When a focus operation is identified over the browser window, it matches the title of the window with the internal hardcoded strings. In this case, "montepio" matches the target strings hardcoded inside the malware (the name of a Portuguese bank). From here, the malware starts its communication with the command and control server geolocated in Rusia, and next presents the specific overlay windows.

"montepio - mozilla firefox"



Figure 12: C2 communication after detecting access to a home banking portal.

The process of browser-overlay is then initiated and some fake windows controlled by criminals are shown.



Figure 13: Lampion overlay screens (courtesy of MllenniumBCP – Portugal).

The socket communication is performed sending details about the infected computer, keylogging activity, and so on.



Figure 14: C2 traffic observed during the malware execution.

As observed below, the C2 server is geolocated in Russia. Some ports can be observed via Shodan. The malware executes a socket communication between victims and C2 on port 9171.

© 5.188.9.28 self-signed	
Country	Russia
Organization	Petersburg Internet Network ltd.
ISP	Petersburg Internet Network ltd.
Last Update	2020-07-05T11:05:09.203046
ASN	AS34665
# Ports	





Authentication: disabled SMB Version: 1

Capabilities: unicode, large-files, nt-smb, rpc-remote-api, nt-status, level2-oplocks, lock-and-read, nt-find, infolevel-passthru, large-readx, large-writex, lwio, extended-security

Shares		
Name	Type	Comments
ADM1NS	Disk	Remote Admin
CS.	Disk	Default share
IPC\$	IPC	Remote IPC
print\$	Disk	Printer Drivers

	Image: State in remotely from PC.	
¢	Windows Server 2012 R2	ሳ

Figure 15: Lampion C2 server geolocation – July 2020.

It should also be mentioned that during the process of sending information, the trojan executes several ICMP requests to a server located in Germany. This is a mechanism used by malware to detect if the victim's computer is connected to the internet.

No.	Time	Source	Destination	Protocol	Length	Info
	25 119.999562	192.168	192.168.	ICMP	146	Destination unreachable (Host unreachable)
	26 125.000073	192.168.	192.168.	ICMP	146	Destination unreachable (Host unreachable)
	27 129.999812	192.168.	192.168.	ICMP	146	Destination unreachable (Host unreachable)
	28 134.999894	192.168.	192.168.	ICMP	146	Destination unreachable (Host unreachable)
	29 139.999738	192.168.	192.168.	ICMP	146	Destination unreachable (Host unreachable)
	30 145.000141	192.168.	192.168.	ICMP	146	Destination unreachable (Host unreachable)
	31 149.999830	192.168.	192.168.	ICMP	146	Destination unreachable (Host unreachable)
	32 154.999945	192.168.	192.168.	ICMP	146	Destination unreachable (Host unreachable)
	33 160.000013	192.168.	192.168.	ICMP	146	Destination unreachable (Host unreachable)
	34 164.999918	192.168.	192.168.	ICMP	146	Destination unreachable (Host unreachable)
	35 170.000241	192.168.	192.168.	ICMP	146	Destination unreachable (Host unreachable)
	36 175.000238	192.168.	192.168.	ICMP	146	Destination unreachable (Host unreachable)
	37 180.000062	192.168.	192.168.	ICMP	146	Destination unreachable (Host unreachable)
	38 185.500300	192.168.	192.168.	ICMP	146	Destination unreachable (Host unreachable)
	39 190.499737	192.168.	192.168.	ICMP	146	Destination unreachable (Host unreachable)
	40 195.500021	192.168.	192.168.	ICMP	146	Destination unreachable (Host unreachable)
	41 200.500239	192.168	192.168.	ICMP	146	Destination unreachable (Host unreachable)
	Checksum: 0x20e2	[correct]				
	[Checksum Status	: Good]				
	Unused: 0000000)				Seguranca
>	Internet Protoco	ol Version 4, Src: 192	2.168 Dst: 37.58	.58.232		oogurungu
>	User Datagram Pr	otocol, Src Port: 602	216, Dst Port: 5060			Informatica
>	Data (86 bytes)					-

Figure 16: ICMP ping is used to validate Internet connection to establish a communication with C2.

In addition, it is interesting to note that criminals are using a blacklist of flagged IP addresses. Whenever the client performs an infection from one of these IP addresses, the malware terminates the execution after receiving the order from C2 and the infected computer is restarted.

```
Server Mandou ====> |EXITEWINDOWS|
Cliente Desconectado!
```

Final Thoughts

Malware is one of the major cyber weapons to destroy a business, market reputation, and even infect a wide number of users. The next list presents some tips on how you can prevent a malware infection. It is not a complete list, it just a few steps to protect yourself and your devices.

- Get outdated software of your system
- Get email savvy; take several minutes looking at the new email and not a few seconds
- Beware of fake tech support, emails related do bank transactions, invoices, COVID19, everything you think be strange
- Keep Internet activity relevant
- Log out at the end of the day
- Only access secured and trusted sites (not only websites with green lock please think you are doing, as many phishing campaigns are abusing of free CA to create valid HTTPS certificates and to distribute malicious campaigns over it)
- Keep your operating system up to date

- Make sure you are using an antivírus
- Beware of malvertising

Take-home message Be proactive and start taking malware protection seriously!

Indicators of Compromise (IOCs)

hxxps://storage.googleapis.]com/bombetabrancaevinho/P-14-7.]dll hxxps://storage.googleapis.]com/bombetabrancaevinho/0.]zip

--Strings--YourGonnaPayMeToday DoThisBicht

Final payload: be703ee8d83c3eb95fd5a343fed3d2947d2b98955be3b6eb8dd4752be1047537

--C2--5.188.9.28

Online Sandbox

<u>VirusTotal</u> Joesandbox



Pedro Tavares

Pedro Tavares is a professional in the field of information security working as an Ethical Hacker/Pentester, Malware Researcher and also a Security Evangelist. He is also a founding member at CSIRT.UBI and Editor-in-Chief of the security computer blog <u>seguranca-informatica.pt</u>.

In recent years he has invested in the field of information security, exploring and analyzing a wide range of topics, such as pentesting (Kali Linux), malware, exploitation, hacking, IoT and security in Active Directory networks. He is also Freelance Writer (Infosec. Resources Institute and Cyber Defense Magazine) and developer of the <u>0xSI_f33d</u> – a feed that compiles phishing and malware campaigns targeting Portuguese citizens.

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