Reporte.md 2024-05-18



## Report for Memory Analysis (I) - IP Address

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## Procedure

The first step on this is to get the profile of the memory:

with this we analice the processes inside the memory:

Reporte.md 2024-05-18

e_nodeid) ffset(V)	Name	PID	PPID	Thds	Hnds	Sess	Wow64	Start	Exit
x817cc830	Svstem	4	0	54	822		0		
x812e69e0	smss.exe	548	4	3	21			2018-06-	-14 10:38:40 UTC+0000
x812e69e0 x81356550	csrss.exe	596	548	11	463	0	0	2018-06-	-14 10:38:40 UTC+0000
×813618d8	winlogon.exe	620	548	18	440	0			-14 10:38:40 UTC+0000
×8118b020	services.exe	664	620	16	353		0	2018-06-	-14 10:38:40 UTC+0000
<8118f020	lsass.exe	676	620	21	349	0	0	2018-06-	-14 10:38:40 UTC+0000
	vmacthlp.exe	832	664	1	24	0			-14 10:38:40 UTC+0000
	svchost.exe	848	664	19	207	0			-14 10:38:40 UTC+0000
	svchost.exe	932	664	10	280	0	0	2018-06-	-14 10:38:41 UTC+0000
(815a6da0	svchost.exe	1024	664	70	1388	0	0	2018-06-	-14 10:38:41 UTC+0000
813289a0	svchost.exe	1072	664	6	93			2018-06-	-14 10:38:41 UTC+0000
816df800	svchost.exe	1224	664	13	201			2018-06-	-14 10:38:42 UTC+0000
(81331ae8	spoolsv.exe	1352	664	10	120			2018-06-	-14 10:38:42 UTC+0000
81570810	explorer.exe	1620	1580	13	372	0		2018-06-	-14 10:38:47 UTC+0000
812adb30	VMwareTray.exe	1696	1620	1	55	0	0	2018-06-	-14 10:38:47 UTC+0000
(8144d500	VMwareUser.exe	1708	1620	8	218	0	0	2018-06-	-14 10:38:47 UTC+0000
812aa7f8	ctfmon.exe	1720	1620	1	67	0	0	2018-06-	-14 10:38:47 UTC+0000
(813c6980	tlntsvr.exe	1960	664		103			2018-06-	-14 10:39:01 UTC+0000
(8162b980	vmtoolsd.exe	204	664	4	229			2018-06-	-14 10:39:08 UTC+0000
811903c8	VMUpgradeHelper	288	664		96			2018-06-	-14 10:39:08 UTC+0000
(81547870	alg.exe	1184	664		104			2018-06-	-14 10:39:09 UTC+0000
(8154c020	cmd.exe	1392	1620	1	31			2018-06-	-14 10:39:41 UTC+0000
<81478da0	hot pictures.ex	324	1620					2018-06-	-14 10:39:57 UTC+0000 2018-06-14 10:50:26 UTC+0000
(81714980 ·	wuauclt.exe	1788	1024	3	141			2018-06-	-14 10:40:08 UTC+0000
(8143c6f8)	wscntfv.exe	1332	1024	1	36			2018-06-	-14 10:40:09 UTC+0000
8147c650	cmd.exe	640	324	1	35			2018-06-	-14 10:40:14 UTC+0000
813ec418	ping.exe	1688	640	1	51			2018-06-	-14 10:45:05 UTC+0000
(816f0da0	firefox.exe	1116	1620	30	406			2018-06-	-14 10:45:47 UTC+0000
	TFTPServer.exe	1572	1620	12	254			2018-06-	-14 10:45:56 UTC+0000
	SolarWinds TFTP	1776	664	9	211	0	0	2018-06-	-14 10:46:13 UTC enpos3: 10.0.2.15

with pstree on volatility we get some interested processes associated to a potential attack vector:

. 0x81478da0:hot_pictures.ex	324	1620	0 -		2018-06-14	10:39:57	UTC+0000
0x8147c650:cmd.exe	640	324	1	35	2018-06-14	10:40:14	UTC+0000
0x813ec418:ping.exe	1688	640	1	51	2018-06-14	10:45:05	UTC+0000
. 0x816f0da0:firefox.exe	1116	1620	30	406	2018-06-14	10:45:47	UTC+0000
. 0x81397da0:TFTPServer.exe	1572	1620	12	254	2018-06-14	10:45:56	UTC+0000
. 0x8154c020:cmd.exe	1392	1620	1	31	2018-06-14	10:39:41	UTC+0000
0x81739020:mdd.exe	1264	1392	1	23	2018-06-14	10:56:44	UTC+0000
. 0x812ddda0:samba_service.e	1176	1620	2	101	2018-06-14	10:53:40	UTC+0000
0x812bb8d0:cmd.exe	1940	1176	1	35	2018-06-14	10:54:19	UTC+0000
0x813cb658:ping.exe	1944	1940	1	51	2018-06-14	10:54:31	UTC+0000
. 0x8159ada0:IEXPLORE.EXE	1956	1620	14	356	2018-06-14	10:46:31	UTC+0000

We proceed to check the connections, most of them are from the firefox process, but there are this ones from the samba service:

Reporte.md 2024-05-18

```
root@z:/home/zud/Desktop/memory# volatility -f memdump --profile=WinXPSP2x86 connscan
Volatility Foundation Volatility Framework 2.6.1
**** Failed to import volatility.plugins.addrspaces.ieee1394 (AttributeError: /usr/local/lib
ce_nodeid)
Offset(P) Local Address Remote Address Pid

**** Pid

***
```

we did find suspicious processes that could have infected the system, and an odd connection through the samba process, the IP is [192].[168].[21].[161] at port 445.