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## Beyond good ol' Run key, Part 36

Last Updated 2023-02-25

Added xdbg32 from Trend Micro article.

Last Updated 2019-09-20

A few more updates thanks to @bartblaze !!!

**Last Updated 2018-10-18** 

Updated mistake in tplcdclr.exe -> wtsapi32.dll ->wts.chm combo and added VeetlePlayer.exe -> libvlc.dll ->mtcReport.ktc; thanks to @KyleHanslovan !!!

## Last Updated 2017-01-26

At the end of last post I mentioned PlugX. The idea used by this malware is pretty clever and relies on taking a legitimate signed .exe that is dependent on a DLL and swapping the DLL with the malicious replacement which – when loaded – decrypts/loads the final payload to memory. The trick used by PlugX is referred to as DLL Side-loading and I thought it will be nice to try summarizing various versions of this persistence trick described by various blogs.

The below are triplets describing the following PlugX components:

- legitimate .exe ['Source' refers to the article/blog/WP describing it]
  - DLL Side-loaded .dll
    - Payload

## Here they are...

- AShld.exe [Source]
  - AShldRes.DLL
    - AShldRes.DLL.asr
- CamMute.exe [Source]
  - CommFunc.dll
    - CommFunc.jax
- chrome frame helper.exe [Source PDF] Thx to @bartblaze
  - chrome\_frame\_helper.dll
    - chrome\_frame\_helper.dll.rom
- dvcemumanager.exe [Source]
  - DESqmWrapper.dll
    - DESqmWrapper.wrapper
- fsguidll.exe [Source]
  - fslapi.dll
    - fslapi.dll.gui
- fsstm.exe [Source]
  - FSPMAPI.dll
    - FSPMAPI.dll.fsp
- Gadget.exe [Source]
  - Sidebar.dll
    - Sidebar.dll.doc
- hhc.exe [Source]
  - hha.dll
    - hha.dll.bak
- hkcmd.exe [Source]
  - hccutils.dll
    - hccutils.dll.res
- LoLTWLauncher.exe [Source] Thx to @bartblaze
  - NtUserEx.dll
    - NtUserEx.dat
- Mc.exe [Source]

- McUtil.dll
  - McUtil.dll.url
- mcf.exe [Source]
  - mcutil.dll
    - mcf.ep
- mcupdui.exe [Source]
  - McUtil.dll
    - McUtil.dll.ping
- mcut.exe [Source]
  - McUtil.dll
    - mcutil.dll.bbc
- MsMpEng.exe [Source]
  - MpSvc.dll
    - MpSvc
- msseces.exe [Source] Thx to @bartblaze
  - mPclient.dll
    - msseces.asm
- NvSmart.exe [Source]
  - NvSmartMax.dll
    - boot.ldr
- OlnfoP11.exe [Source]
  - Olnfo11.ocx
    - Olnfo11.ISO
- OleView.exe [Source]
  - ACLUI.DLL
    - ACLUI.DLL.UI
- OleView.exe [Source] Thx to @KyleHanslovan
  - iviewers.dll
    - <unknown>
- POETWLauncher.exe [Source] Thx to @bartblaze
  - NtUserEx.dll
    - NtUserEx.dat
- RasTls.exe [Source]
  - RasTls.dll
    - RasTls.dll.msc or RasTls.dll.config
- rc.exe [Source] Thx to @KyleHanslovan
  - rc.dll

- rc.hlp
- RunHelp.exe [Source]
  - ssMUIDLL.dll
    - ssMUIDLL.dll.conf
- sep NE.exe [Source] Thx to @KyleHanslovan
  - winmm.dll
    - sep NE.slf
- Setup.exe [Source]
  - msi.dll
    - msi.dll.dat
- sx.exe [Source] Thx to @bartblaze
  - SXLOC.DLL
    - SXLOC.ZAP
- tplcdclr.exe [Source] Thx to @KyleHanslovan
  - wtsapi32.dll
    - wts.chm
- Ushata.exe [Source]
  - Ushata.dll
    - Ushata.fox
- VeetlePlayer.exe [Source; PDF warning] Thx to @KyleHanslovan
  - libvlc.dll
    - mtcReport.ktc
- x32dbg.exe [Source]
  - x32bridge.dll
    - x32bridge.dat

There is also a potential combo:

- AFLogVw.exe [Source]
  - Ahnl2.dll
    - <unknown>

Now, a request – if you know any other combo that I have not included on the list, please let me know+provide a reference/source and I will add it to the list. Thanks!

This entry was posted in Anti-Forensics, Autostart (Persistence), Compromise Detection, Forensic Analysis, Incident Response, Malware Analysis by adam. Bookmark the permalink.

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