

Medium Q Search





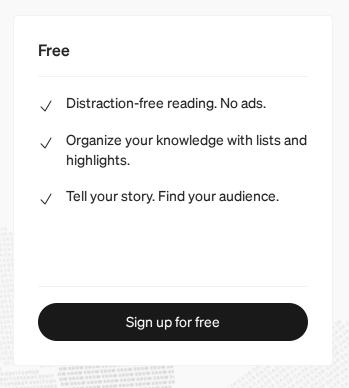


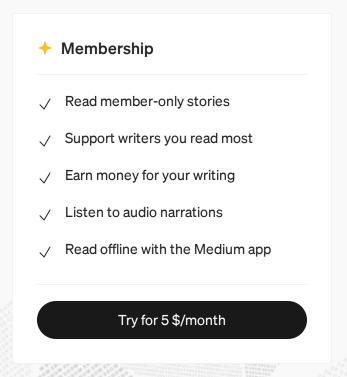
Shhmon — Silencing Sysmon via **Driver Unload**



Matt Hand 😃 · Follow

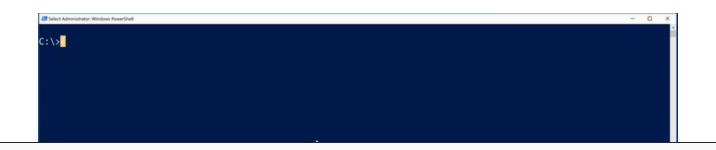




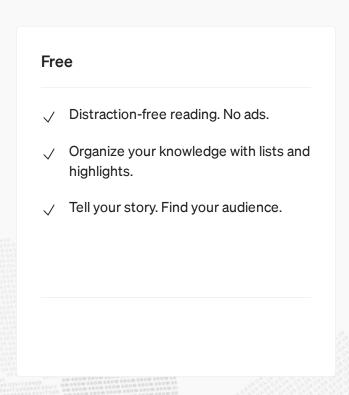


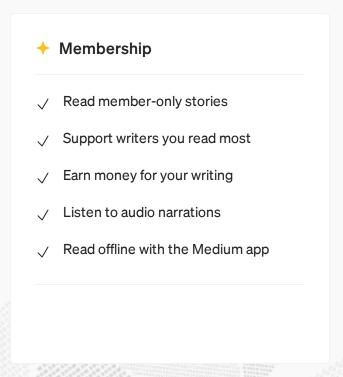
where the Sysmon driver has been unloaded by a user without fltmc.exe and the service is still running.

https://github.com/matterpreter/Shhmon



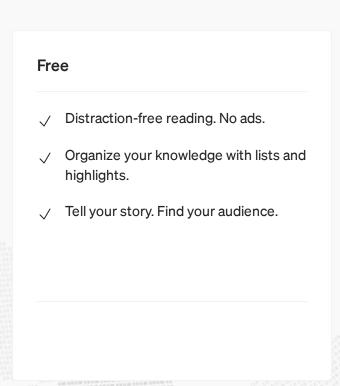
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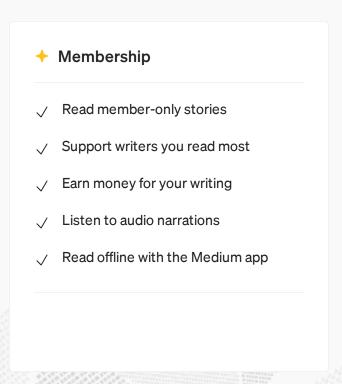




We can use functions supplied in fltlib.dll (FilterFindFirst() and FilterFindNext()) to hunt for a driver at 385201 & unload it. This is similar to the functionality behind fltMC.exe unload \$DriverName, but allows us to evade command line logging which would be captured by Sysmon before the driver is unloaded.

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Event 1, Sysmon

General

Details

Process Create:

RuleName:

UtcTime: 2019-09-15 06:55:49.273

ProcessGuid: {aa9d32dd-e075-5d7d-0000-0010a9658000}

ProcessId: 7312

Image: C:\Windows\System32\fltMC.exe

FileVersion: 10.0.18362.1 (WinBuild.160101.0800)

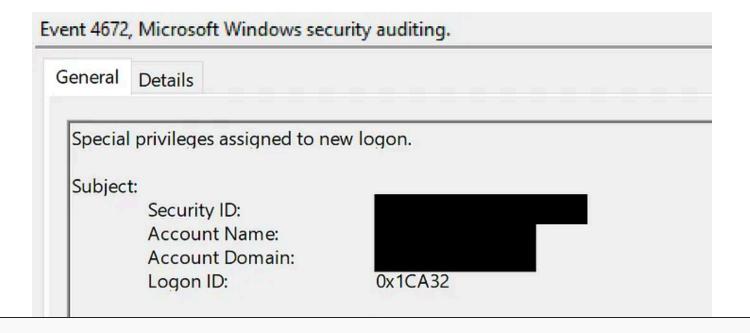
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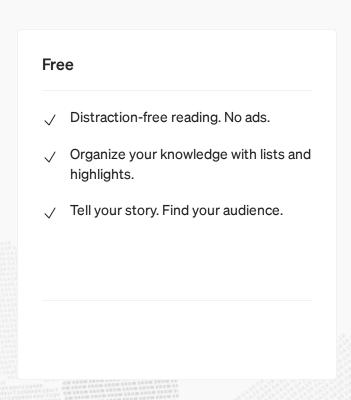
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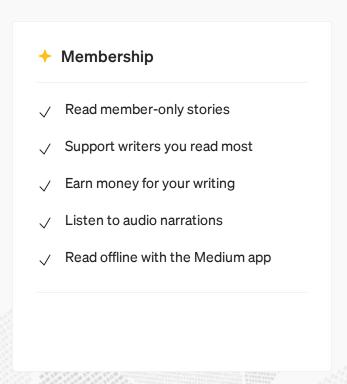
Windows System Event ID 1

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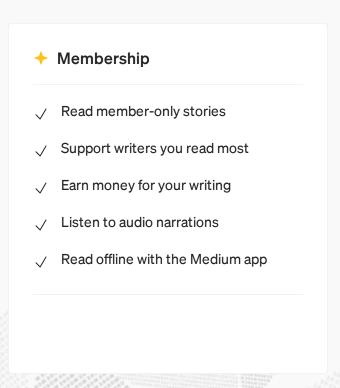
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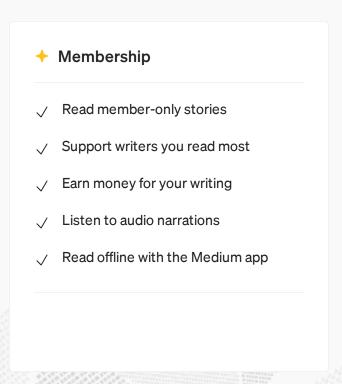
reg add "HKLM\SYSTEM\CurrentControlSet\Services\
<DriverName>\Instances\Sysmon Instance" /v Altitude /t REG_SZ /d
31337

When the system is rebooted, the driver will be reloaded at the newly specified altitude.

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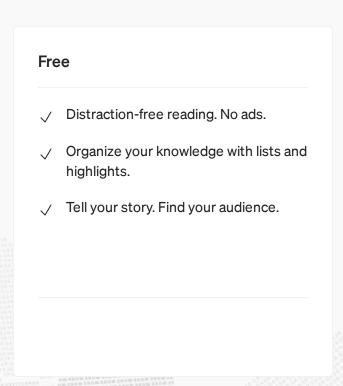


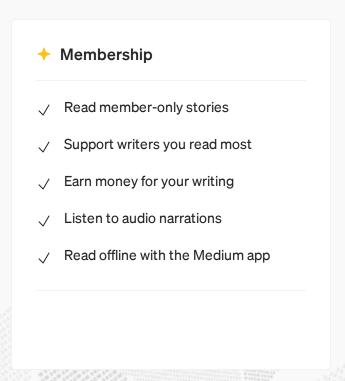
Instance\Altitude, but this adds an additional layer of obfuscation which will need to be accounted for by an attacker.

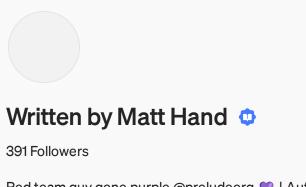
Note: I have found during testing that if the Sysmon driver is configured to load at an altitude of another registered service, it will fail to load at boot.

Additionally, there may be an opportunity to audit a handle opening on the \\.\\FltMgr device object, which is done by fltlib!FilterUnload, by <u>applying</u> a SACL to the device object.

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Red team guy gone purple @preludeorg V | Author of Evading EDR http://nostarch.com/evading-edr | Security research & windows internals **

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