

We're continuing to fight for universal access to quality information—and you can help as we continue to make improvements. Will you chip in?

https://blog.menasec.net/2019/02/threat-hunting-21-procdump-or-taskmgr.html

10 captures

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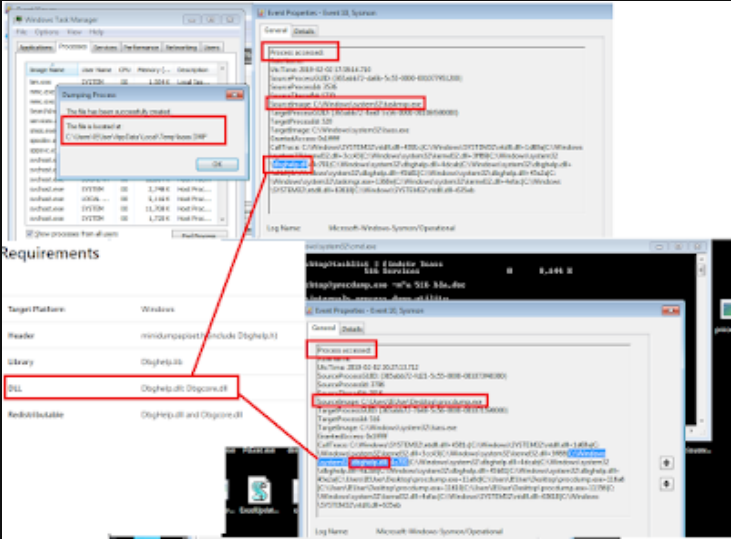
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Thursday, 7 February 2019

Threat Hunting #19 - Procdump or Taskmgr - memory dump

Dumping lsass.exe process memory using procmon.exe or taskmgr.exe (both are signed and trusted microsoft utilities) and then extracting secrets offline is a bit stealthier than running a rogue program.

Using Sysmon event 10 "Process A accessed Process B" and filtering by **CallTrace**, and **TargetImage** attribute data, we can detect both process memory dumping actions:



As can be seen above, both utilities call APIs exported by dbghelp.dll or dbgcore.dll to invoke memory dump write functions (i.e. **MiniDumpWriteDump** function).

Detection Logic:

Sysmon: EventID=10 and CallTrace contains "Dbghelp.dll" or "Dbgcore.dll" and TargetImage=="lsass.exe or any other sensitive process (i.e. Point of Sale related processes or alike)"

IBM Qradar AQL example:

select "SourceImage", "TargetImage" from events where eventid=10 and utf8(payload) imatches '(?i)((.*dbghelp.*))|(.*dbgcore.*))' and TargetImage imatches '.*lsass.*'

References:

<https://docs.microsoft.com/en-us/sysinternals/downloads/procdump>
<https://docs.microsoft.com/en-us/windows/desktop/api/minidumpapiset/nf-minidumpapiset-minidumpwritedump>

Posted by **MENASEC** at 02:35
Labels: **dbgcore.dll**, **dbghelp.dll**, **lsass**, **memdump**, **procdump**

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