MENASEC - Applied Security Research: Threat Hunting #3 - Detecting PsExec execution using event 5145 -

31/10/2024 15:23 https://web.archive.org/web/20230329171218/https://blog.menasec.net/2019/02/threat-hunting-3-detecting-psexec.html

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Applied Security Research

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Wednesday, 6 February 2019

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Threat Hunting #3 - Detecting PsExec execution using event 5145

PsExec is a light-weight telnet-replacement that lets you execute processes on other systems, complete with full interactivity for console applications, without having to manually install client software. PsExec's most powerful uses include launching interactive command-prompts on remote systems and remote-enabling tools like lpConfig that otherwise do not have the ability to show information about remote systems.

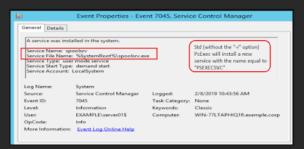
Existing detection of PSEXEC can be easily bypassed:

- PSEXEC Service created logged by EventID 7045 "Service Creation" ["psexec -r spoolsvr" option allow to bypass this one]
- · Remote registry change due to accepting Eula (not valid for other PSEXEC implementation in Python or PowerShell)

Proposed detection rely on EventID 5145 "Network File Share Access", that logs in the relative target name field traces of remote access to PSEXECSVC named pipes, with the following format:

<psexecsvc|chosen service name with the "-r" option>-<machine-name>-<5-random-numbers>-<stdin|stderr|stdout>)

Below an example of the left traces:



As can be seen above, with the "psexec -r spoolsrv \\target -s cmd" (rename) option, standard detection based on service name can be easily bypassed.



Luckily we still have (for now) a unique string in the 5145 event that we can use to detect PSEXEC ("stdin", "stdout" and "stderr").

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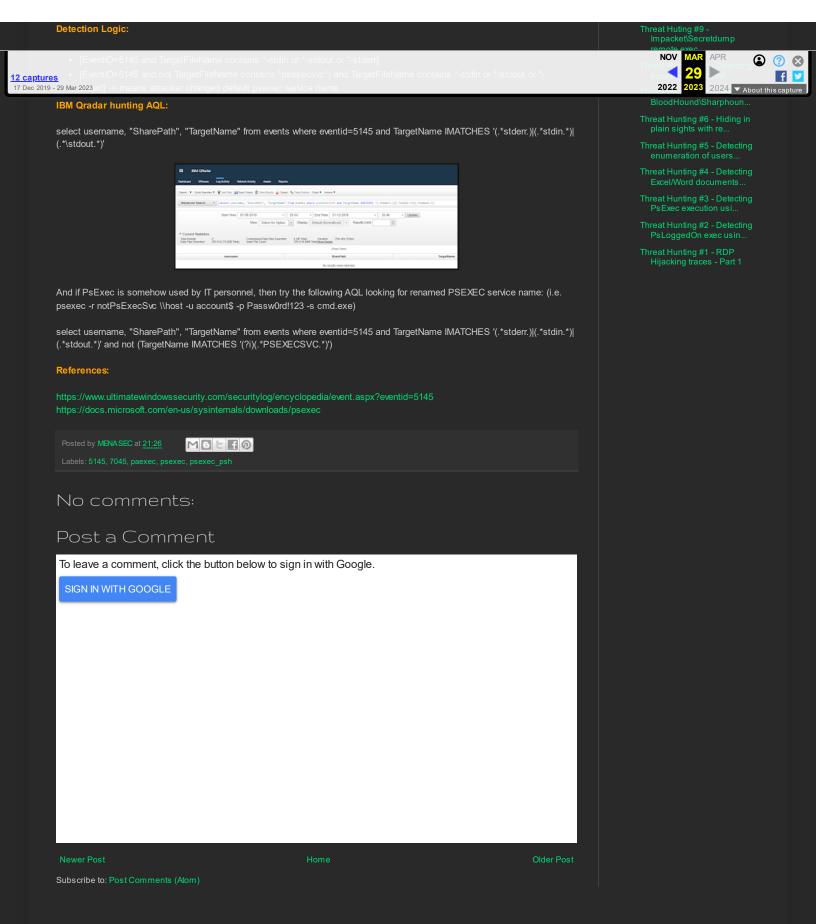
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