.../Msdt.exe

Execute (GUI)

AWL bypass (GUI)

Microsoft diagnostics tool

Paths:

C:\Windows\System32\Msdt.exe C:\Windows\SysWOW64\Msdt.exe

Resources:

- https://cybersyndicates.com/2015/10/a-no-bull-guide-to-malicious-windows-trouble-shooting-packs-and-application-whitelist-bypass/
- https://oddvar.moe/2017/12/21/applocker-case-study-how-insecure-is-it-really-part-2/
- https://twitter.com/harr0ey/status/991338229952598016
- https://twitter.com/nas_bench/status/1531944240271568896

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Detections:

Sigma:

https://github.com/SigmaHQ/sigma/blob/6199a703221a98ae6ad343c79c558da375203e4e/rules/windows/process_creation_win_lolbin_msdt_answer_file.yml

Sigma:

https://github.com/SigmaHQ/sigma/blob/c04bef2fbbe8beff6c7620d5d7ea6872dbe7acba/rules/windows/process_creation/proc_creation_win_msdt_arbitrary_command_execution.yml

• Elastic: https://github.com/elastic/detection-

rules/blob/414d32027632a49fb239abb8fbbb55d3fa8dd861/rules/windows/defense_evasion_network_connection_f rom_windows_binary.toml

Execute

Executes the Microsoft Diagnostics Tool and executes the malicious .MSI referenced in the PCW8E57.xml file.

msdt.exe -path C:\WINDOWS\diagnostics\index\PCWDiagnostic.xml -af C:\PCW8E57.xml /skip TRUE

Use case: Execute code

Privileges required: User

Operating systems: Windows vista, Windows 7, Windows 8, Windows 8.1, Windows 10, Windows 11

ATT&CK® technique: T1218

Tags: Application: GUI

AWL bypass

Executes the Microsoft Diagnostics Tool and executes the malicious .MSI referenced in the PCW8E57.xml file.

msdt.exe -path C:\WINDOWS\diagnostics\index\PCWDiagnostic.xml -af C:\PCW8E57.xml /skip TRUE

Use case: Execute code bypass Application whitelisting

Privileges required: User

Operating systems: Windows vista, Windows 7, Windows 8, Windows 8.1, Windows 10, Windows 11

ATT&CK® technique: T1218

Tags: Application: GUI

Executes arbitrary commands using the Microsoft Diagnostics Tool and leveraging the "PCWDiagnostic" module (CVE-2022-30190). Note that this specific technique will not work on a patched system with the June 2022 Windows Security update.

msdt.exe /id PCWDiagnostic /skip force /param "IT_LaunchMethod=ContextMenu
IT_BrowseForFile=/../../\$(calc).exe"

Use case: Execute code bypass Application allowlisting

Privileges required: Use

Operating systems: Windows vista, Windows 7, Windows 8, Windows 8.1, Windows 10, Windows 11

ATT&CK® technique: T1202

Tags: Application: GUI