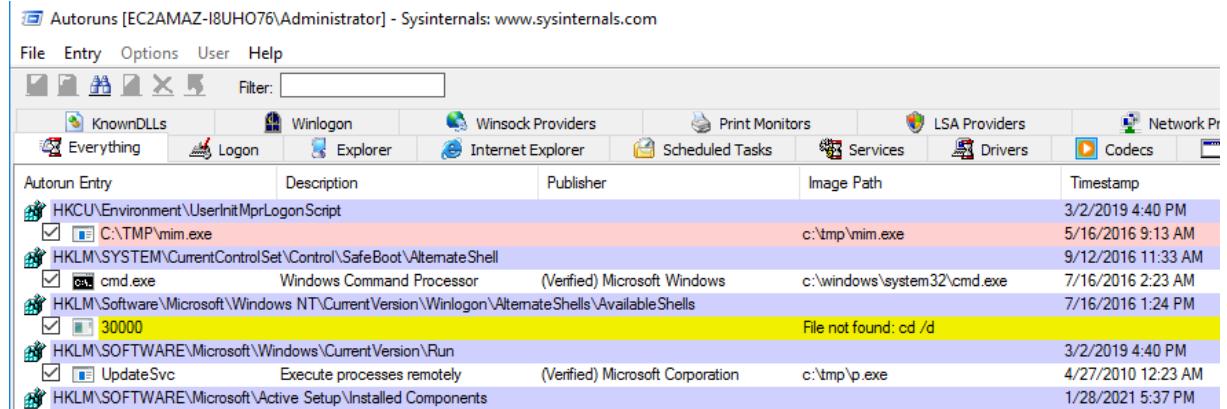


## Investigating Windows 2.0

What registry key contains the same command that is executed within a scheduled task?

Once I opened the autoruns I have observed mim.exe file which is abbreviation of mimikatz.exe so that registry key has recorded on autoruns:

### HKCU\Environment\UserInitMprLogonScript

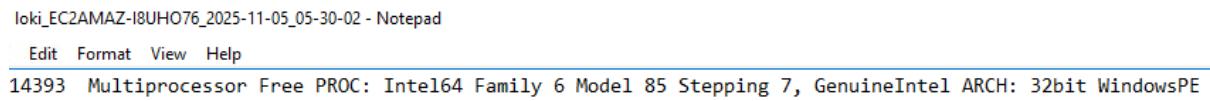


The screenshot shows the Autoruns application interface. The title bar reads "Autoruns [EC2AMAZ-I8UH076\Administrator] - Sysinternals: www.sysinternals.com". The menu bar includes File, Entry, Options, User, and Help. Below the menu is a toolbar with icons for KnownDLLs, Winlogon, Winsock Providers, Print Monitors, LSA Providers, Network Pro, Logon, Explorer, Internet Explorer, Scheduled Tasks, Services, Drivers, and Codecs. A "Filter:" input field is present. The main table has columns: Autorun Entry, Description, Publisher, Image Path, and Timestamp. The table lists several entries, with one entry highlighted in yellow: "HKCU\Environment\UserInitMprLogonScript" with "C:\TMP\mim.exe" checked, "cmd.exe" checked, and "30000" checked. The "Image Path" column shows "c:\tmp\mim.exe", "c:\windows\system32\cmd.exe", and "File not found: cd /d" respectively. The "Timestamp" column shows various dates and times.

Autorun Entry	Description	Publisher	Image Path	Timestamp
HKCU\Environment\UserInitMprLogonScript			c:\tmp\mim.exe	3/2/2019 4:40 PM
<input checked="" type="checkbox"/> C:\TMP\mim.exe				5/16/2016 9:13 AM
HKLM\SYSTEM\CurrentControlSet\Control\SafeBoot\AlternateShell				9/12/2016 11:33 AM
<input checked="" type="checkbox"/> cmd.exe	Windows Command Processor	(Verified) Microsoft Windows	c:\windows\system32\cmd.exe	7/16/2016 2:23 AM
HKLM\Software\Microsoft\Windows NT\CurrentVersion\Winlogon\AlternateShells\AvailableShells				7/16/2016 1:24 PM
<input checked="" type="checkbox"/> 30000			File not found: cd /d	
HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Run				3/2/2019 4:40 PM
<input checked="" type="checkbox"/> UpdateSvc	Execute processes remotely	(Verified) Microsoft Corporation	c:\tmp\p.exe	4/27/2010 12:23 AM
HKLM\SOFTWARE\Microsoft\Active Setup\Installed Components				1/28/2021 5:37 PM

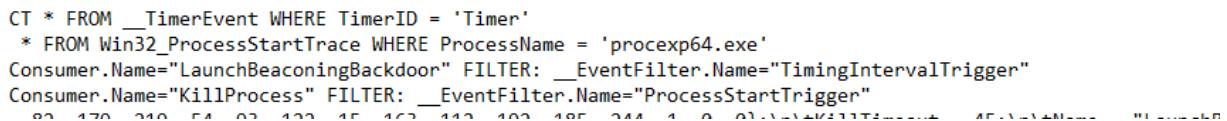
What analysis tool will immediately close if/when you attempt to launch it?

When I launch loki as mentioned CTF trick I have examined procexp64.exe ???? niye kapanıp açılıyor nasıl anladın



The screenshot shows a Notepad window titled "loki\_EC2AMAZ-I8UH076\_2025-11-05\_05-30-02 - Notepad". The menu bar includes Edit, Format, View, and Help. The main content area displays the following text:  
14393 Multiprocessor Free PROC: Intel64 Family 6 Model 85 Stepping 7, GenuineIntel ARCH: 32bit WindowsPE

ls\pe-sieve64.exe SOURCE: <https://github.com/hasherezade/pe-sieve>



The screenshot shows a command-line interface with a complex WQL query. The query is as follows:

```
CT * FROM __TimerEvent WHERE TimerID = 'Timer'
* FROM Win32_ProcessStartTrace WHERE ProcessName = 'procexp64.exe'
Consumer.Name="LaunchBeaconingBackdoor" FILTER: __EventFilter.Name="TimingIntervalTrigger"
Consumer.Name="KillProcess" FILTER: __EventFilter.Name="ProcessStartTrigger"
```

What is the full WQL Query associated with this script?

WQL is a WMI query language that is used to get information from WMI. So that once I detailed the query I have seen that this script: **SELECT \* FROM Win32\_ProcessStartTrace WHERE ProcessName = 'procexp64.exe'**

```
'alTrigger QUERY: SELECT * FROM __TimerEvent WHERE TimerID = 'Timer'
:Trigger QUERY: SELECT * FROM Win32_ProcessStartTrace WHERE ProcessName = 'procexp64.exe'
IER: ActiveScriptEventConsumer.Name="LaunchBeaconingBackdoor" FILTER: __EventFilter.Name="TimingIntervalTrigger"
IER: ActiveScriptEventConsumer.Name="KillProcess" FILTER: __EventFilter.Name="ProcessStartTrigger"
I, 5, 21, 0, 0, 253, 82, 179, 219, 54, 93, 122, 15, 163, 112, 192, 185, 244, 1, 0, 0};\n\tKillTimeout = 45;\n\tName
\n, \\\"root\\\\\\cimv2\\\")\\n\\t\\n\\t      Set oDataObject = oServices.Get\\n\\t          oDataObject
:t HIDDEN_WINDOW = 12\\n\\t      Set oLocation = CreateObject("\\WbemScripting.SWbemLocator\\")\\n\\t
iopqrstuvwxyz0123456789+\\\"\\n      Dim dataLength, sOut, groupBegin\\n    \\n        \\'remove white spaces,
id it To\\n            \\' an integer For temporary storage. If a character is a \\'=\\', there\\n
\\n    \\n            \\'Convert the 3 byte hex integer (6 chars) To 3 characters\\n            pOut = Chr(CByte(\\\"&
.t\\t      Case \\\"\\\"\\n\\t\\t\\t      If Not IsNull(aPayload) Then\\n\\t\\t\\t\\t
I, 5, 21, 0, 0, 253, 82, 179, 219, 54, 93, 122, 15, 163, 112, 192, 185, 244, 1, 0, 0};\n\tKillTimeout = 45;\n\tName
\nTH: none

'A PATH: none
```

What is the script language?

When I examine the loki output file I have seen that this script language has been created by:  
**VBScript**

```
IntervalTrigger"
r"
1Timeout = 45;\n\tName = "LaunchBeaconingBackdoor";\n\tScriptingEngine = "VBScript";\n\tScriptText = "
oDataObject.Path_.Class = classname\\n\\t          oDataObject.Properties_.Add(propertynam
e)\\n\\t      Set oServices = oLocation.ConnectServer(, \\\"root\\\\\\cimv2\\\")\\n\\t
'remove white spaces, If any\\n            base64String = Replace(base64String, vbCrLf, \\\"\\\")\\n
re\\n            \\' is one fewer data byte. (There can only be a maximum of 2 \\'=\\' In\\n
pOut = Chr(CByte(\\\"&H\\\" & Mid(nGroup, 1, 2))) + _\\n            Chr(CByte(\\\"&H\\\" & Mid(nGroup, 3,
\\t\\t\\t      Execute aPayload\\n\\t\\t\\t\\t      End If\\n\\t\\t\\t            Case \\n\\t\\t\\t\\t
1Timeout = 45;\n\tName = "KillProcess";\n\tScriptingEngine = "VBScript";\n\tScriptText = "
```

```
'alTrigger QUERY: SELECT * FROM __TimerEvent WHERE TimerID = 'Timer'
:Trigger QUERY: SELECT * FROM Win32_ProcessStartTrace WHERE ProcessName = 'procexp64.exe'
IER: ActiveScriptEventConsumer.Name="LaunchBeaconingBackdoor" FILTER: __EventFilter.Name="TimingIntervalTrigger"
IER: ActiveScriptEventConsumer.Name="KillProcess" FILTER: __EventFilter.Name="ProcessStartTrigger"
I, 5, 21, 0, 0, 253, 82, 179, 219, 54, 93, 122, 15, 163, 112, 192, 185, 244, 1, 0, 0};\n\tKillTimeout = 45;\n\tName
\n, \\\"root\\\\\\cimv2\\\")\\n\\t\\n\\t      Set oDataObject = oServices.Get\\n\\t          oDataObject
:t HIDDEN_WINDOW = 12\\n\\t      Set oLocation = CreateObject("\\WbemScripting.SWbemLocator\\")\\n\\t
iopqrstuvwxyz0123456789+\\\"\\n      Dim dataLength, sOut, groupBegin\\n    \\n        \\'remove white spaces,
id it To\\n            \\' an integer For temporary storage. If a character is a \\'=\\', there\\n
\\n    \\n            \\'Convert the 3 byte hex integer (6 chars) To 3 characters\\n            pOut = Chr(CByte(\\\"&
.t\\t      Case \\\"\\\"\\n\\t\\t\\t      If Not IsNull(aPayload) Then\\n\\t\\t\\t\\t
I, 5, 21, 0, 0, 253, 82, 179, 219, 54, 93, 122, 15, 163, 112, 192, 185, 244, 1, 0, 0};\n\tKillTimeout = 45;\n\tName
\nTH: none

'A PATH: none
```

## What is the other script ?...

What is the name of the software company visible within the script?

Once I look warning logs carefully I have found this answer quickly: **Motobit Software**

What 2 websites are associated with this software company? (answer, answer):

<http://www.motobit.com>. <http://motobit.cz>

```
\n\t
("WbemScripting.SWbemLocator\\")\\n\t      Set oServices = oLocation.ConnectServer(, \\\"root\\\\\\cimv2\\\")\\n
in32_ProcessStartup\\")\\n\t      Set oConfig = oStartup.SpawnInstance_\\n\t      oConfig.ShowW:
gmts:root\\\\\\cimv2:Win32_Process\\")\\n\t      oResult = oProcess.Create(command, null, oConfig, iProcessI
ase64String)\\n\t      ' 1999 - 2004 Antonin Foller, http://www.motobit.com\\n\t      ' 1.01 - solves prot
QRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+\\\"\\n
```

Search online for the name of the script from Q5 and one of the websites from the previous answer. What attack script comes up in your search?

When I searched it , LaunchBeaconingBackdoor, I have found that attack script is associated with: **WMIBackdoor.ps1**

 HYBRID ANALYSIS Sandbox Quick Scans File Collections Resources Request Info

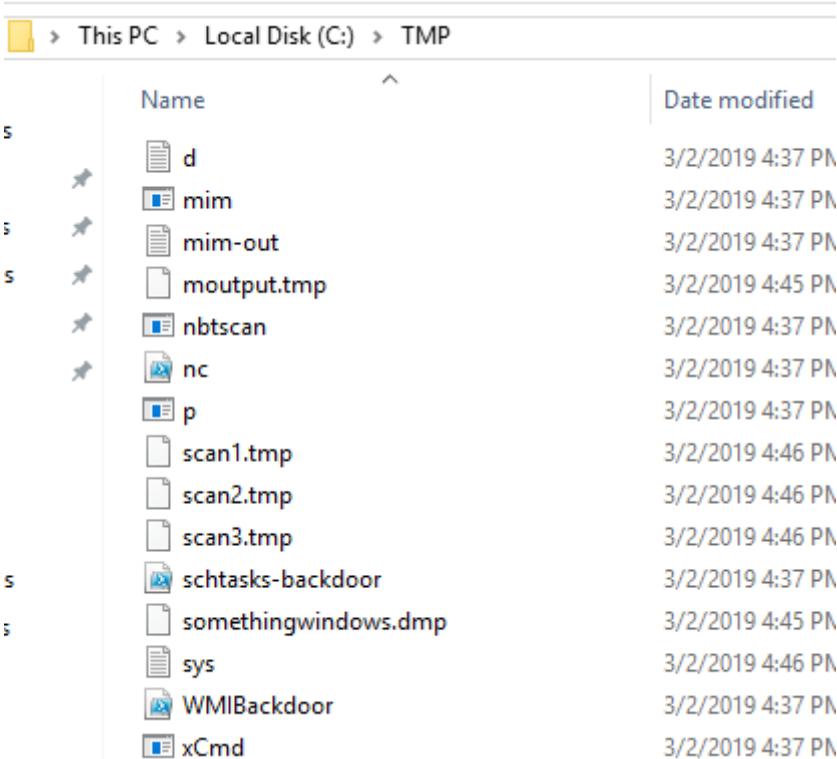
## Analysis Overview



Submission name:	WMIBackdoor.ps1
Size:	20KiB
Type:	<span>powershell</span> <span>ps</span> 
Mime:	text/plain
SHA256:	57eb1179abfb8lee54880287307f0f770eabf5b01e247b9a9789fa70a074c21b 
Submitted At:	2023-07-21 15:14:53 (UTC)
Last Anti-Virus Scan:	2025-10-25 20:52:04 (UTC)
Last Sandbox Report:	2023-11-15 03:24:56 (UTC)

What is the location of this file within the local machine?

Local disk C:\TMP path is generally contains suspicious or bad behavioral. So that this inference take me to the accurate answer: **C:\TMP**



Name		Date modified
s	d	3/2/2019 4:37 PM
s	mim	3/2/2019 4:37 PM
s	mim-out	3/2/2019 4:37 PM
s	moutput.tmp	3/2/2019 4:45 PM
s	nbtscan	3/2/2019 4:37 PM
s	nc	3/2/2019 4:37 PM
s	p	3/2/2019 4:37 PM
s	scan1.tmp	3/2/2019 4:46 PM
s	scan2.tmp	3/2/2019 4:46 PM
s	scan3.tmp	3/2/2019 4:46 PM
s	schtasks-backdoor	3/2/2019 4:37 PM
s	somethingwindows.dmp	3/2/2019 4:45 PM
s	sys	3/2/2019 4:46 PM
s	WMIBackdoor	3/2/2019 4:37 PM
s	xCmd	3/2/2019 4:37 PM

Which 2 processes open and close very quickly every few minutes? (**answer, answer**)

During my investigation, mim.exe and powershell.exe always opened and closed every few min. : **mim.exe and powershell.exe**

What is the parent process for these 2 processes?

Top see this answer I have launched procmon64 I have trace the process tree and PPID so, I have found scvhost.exe is not innocent as much as it seems:**svchost.exe**

6:44:0... svchost.exe  
6:44:5... svchost.exe  
6:45:0... svchost.exe  
6:46:5... svchost.exe  
6:47:0... svchost.exe  
6:47:0... svchost.exe  
6:47:3... svchost.exe  
6:49:0... svchost.exe  
6:49:0... svchost.exe

924 Thread Exit  
1812 Thread Exit  
924 Process Create C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe  
736 Thread Exit  
924 Process Create C:\TMP\mim.exe  
924 Process Create C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe  
924 Thread Create  
972 Thread Create  
972 Thread Create

Event Properties

Event	Process	Stack
Date: 11/5/2025 6:47:00.3297961 AM		
Thread: 1420		
Class: Process		
Operation: Process Start		
Result: SUCCESS		
Path:		
Duration: 0.0000000		

Parent PID: 924  
Command line: C:\TMP\mim.exe sekurlsa::LogonPasswords > C:\TMP\o.txt  
Current directory: C:\Windows\system32\  
Environment:  
ALLUSERSPROFILE=C:\ProgramData  
APPDATA=C:\Users\Administrator\AppData\Roaming  
CommonProgramFiles=C:\Program Files\Common Files  
CommonProgramFiles(x86)=C:\Program Files (x86)\Common Files  
CommonProgramW6432=C:\Program Files\Common Files  
COMPUTERNAME=EC2AMAZ-18UHO76  
ComSpec=C:\Windows\system32\cmd.exe  
HOMEDRIVE=C:  
HOME PATH=\Users\Administrator  
LOCALAPPDATA=C:\Users\Administrator\AppData\Local  
LOGONSERVER=\EC2AMAZ-18UHO76  
NUMBER\_OF\_PROCESSORS=2  
OS=Windows\_NT  
Path=C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem;C:\Windows\System32  
PATHEXT=.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC  
PROCESSOR\_ARCHITECTURE=AMD64  
PROCESSOR\_IDENTIFIER=Intel64 Family 6 Model 85 Stepping 7, GenuineIntel

What is the first operation for the first of the 2 processes?

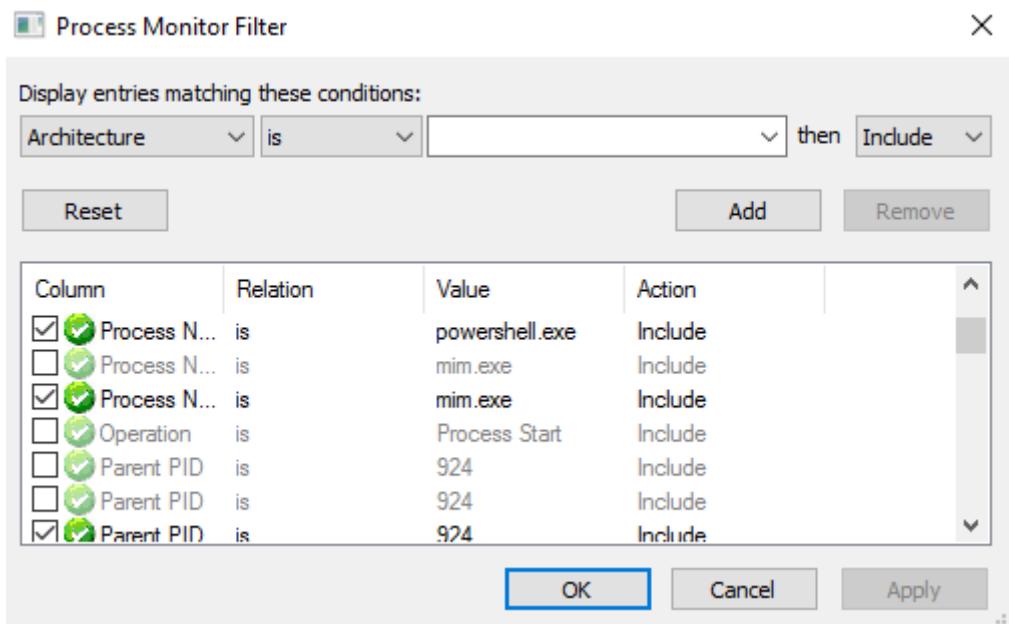
Once I filtered timestamp as a descending order I found their ,mim.exe-powershell.exe, first process is :**Process Start**

Process Monitor - Sysinternals: www.sysinternals.com

File Edit Event Filter Tools Options Help

Time ... Process Name PID Operation Path

6:41:0...	powershell.exe	4160	Process Start	
6:41:0...	powershell.exe	4160	Thread Create	
6:41:0...	powershell.exe	4160	Load Image	C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe
6:41:0...	powershell.exe	4160	Load Image	C:\Windows\System32\ntdll.dll
6:41:0...	powershell.exe	4160	RegOpenKey	HKLM\SYSTEM\CurrentControlSet\Control\Session Manager\Segm



Inspect the properties for the 1st occurrence of this process. In the Event tab what are the 4 pieces of information displayed? (**answer, answer, answer, answer**)

Once I inspect the properties quickly aswer found below.

Event		Process	Stack
Date:	11/5/2025 6:41:04.59		
Thread:	2140		
Class:	Process		
Operation:	Process Start		
Result:	SUCCESS		
Path:			
Duration:	0.0000000		
<hr/>			
Parent PID:			
Command line:			
Current directory:			
Environment:			

Inspect the disk operations, what is the name of the unusual process?

Processes		File	Read rate...	Write r...	Total rate...	I/O priori...
█	No process	C:\ProgramData\Microsoft\Windows Defender\platform\4.18.2011.6-0\MpOAV.dll	2.29 kB/s		2.29 kB/s	Normal
█	No process	C:\Windows\assembly\NativeImages_v4.0.30319_64\mscorlib\4c029035a5...\mscorlib.ni.dll	4.57 kB/s		4.57 kB/s	Normal
█	No process	C:\Windows\assembly\NativeImages_v4.0.30319_64\System.Data\16499...\System.Data.ni.dll	585 B/s		585 B/s	Low
█	No process	C:\Windows\assembly\NativeImages_v4.0.30319_64\System.Management.Automation.ni.dll	45.14 kB/s		45.14 kB/s	Normal
█	No process	..\Windows\Microsoft.NET\Framework64\v4.0.30319\clr.dll	5.14 kB/s		5.14 kB/s	Normal
☒	powershell.exe (43...)	C:\pagefile.sys		9.5 kB/s	9.5 kB/s	Normal
☒	powershell.exe (43...)	C:\Windows\assembly\NativeImages_v4.0.30319_64\Microsoft.PowerShell.ConsoleHost.ni.dll	40.28 kB/s		40.28 kB/s	Low
☒	powershell.exe (43...)	C:\Windows\assembly\NativeImages_v4.0.30319_64\mscorlib\4c029035a5...\mscorlib.ni.dll	117 kB/s		117 kB/s	Low
☒	powershell.exe (43...)	C:\Windows\assembly\NativeImages_v4.0.30319_64\System.Core\6874...\System.Core.ni.dll	35.55 kB/s		35.55 kB/s	Low
☒	powershell.exe (43...)	C:\Windows\assembly\NativeImages_v4.0.30319_64\System.Management.Automation.ni.dll	270.22 kB...		270.22 kB...	Normal
☒	powershell.exe (43...)	C:\Windows\assembly\NativeImages_v4.0.30319_64\System\6745b7ee6c042...\System.ni.dll	113.33 kB...		113.33 kB...	Low
☒	powershell.exe (43...)	C:\Windows\Microsoft.NET\Framework64\v4.0.30319\clr.dll	36.5 kB/s		36.5 kB/s	Normal
☒	powershell.exe (43...)	C:\Windows\Microsoft.NET\Framework64\v4.0.30319\clrjit.dll	9.44 kB/s		9.44 kB/s	Normal
☒	powershell.exe (43...)	C:\Windows\System32\AppSip.dll		2.5 kB/s	2.5 kB/s	Normal
☒	powershell.exe (43...)	..\Microsoft-Windows-PowerShell-ServerCore-WOW64-Package~31bf3856ad364e35~amd6...	9.81 kB/s		9.81 kB/s	Low
☒	powershell.exe (43...)	C:\Windows\System32\coml2.dll		4.31 kB/s	4.31 kB/s	Normal
☒	powershell.exe (43...)	C:\Windows\System32\crypt32.dll		1.5 kB/s	1.5 kB/s	Normal
☒	powershell.exe (43...)	C:\Windows\System32\msisip.dll		192 B/s	192 B/s	Normal
☒	powershell.exe (43...)	C:\Windows\System32\OpcServices.dll		19.75 kB/s	19.75 kB/s	Normal
☒	powershell.exe (43...)	C:\Windows\System32\WindowsPowerShell\v1.0\Mod...\Microsoft.PowerShell.Utility.psm1		3.75 kB/s	3.75 kB/s	Low
☒	powershell.exe (43...)	C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe		2.83 kB/s	2.83 kB/s	Low
☒	powershell.exe (43...)	C:\Windows\System32\WindowsPowerShell\v1.0\pwrsrhsp.dll		128 B/s	128 B/s	Normal
☒	ProcessHacker.exe...	C:\pagefile.sys		624 B/s	624 B/s	Normal
☒	ProcessHacker.exe...	C:\Program Files\Process Hacker 2\plugins\ExtendedTools.dll		1 kB/s	1 kB/s	Normal
☒	ProcessHacker.exe...	C:\Windows\System32\imm32.dll		1.56 kB/s	1.56 kB/s	Normal
☒	ProcessHacker.exe...	C:\Windows\System32\user32.dll		3.5 kB/s	3.5 kB/s	Normal

Run Loki. Inspect the output. What is the name of the module after 'Init'?

Regarding the 2nd warning, what is the name of the eventFilter?

For the 4th warning, what is the class name?

What binary alert has the following 4d5a90000300000004000000ffff0000b8000000 as FIRST BYTES?

```
WWW: unknown URL: C:\Windows\system32\www\msprevise.exe PRIN: C:\Windows\system32\www\msprevise.exe  
JSP SIZE: 74853 FIRST_BYTES: 3c25d2d208a20202020446f63756d656e742020 / <%-- Document  
MPE: JSP SIZE: 657 FIRST_BYTES: 3c2540207061676528696d706f72743d226a176 / <% page import=""  
DWI SIZE: 3389 FIRST_BYTES: 0d8a20202e232323232e2020206d5964696b61 / #####_minika MD5:  
IZE: 36864 FIRST_BYTES: 4d5a90000j000000004000000ffff0000b000000 / MZ MD5: f01a9a2de31332ed  
B1816 FIRST_BYTES: 4d5a900003000000004000000ffff0000b000000 / MZ MD5: aeee995fd3484f28e5cd854  
TYPE: UNKNOWN SIZE: 7022 FIRST_BYTES: 66756e3d74696f6e20496e766f6b652d5461736b / Function  
E: 843776 FIRST_BYTES: 4d5a9000030000004000000ffff0000b000000 / MZ MD5: 27aee7f3d64b999e8d  
crosftWindows\Explorer\ExplorerStartupLog.etl SCORE: 75 TYPE: UNKNOWN SIZE: 368640 FIRST BYTES:  
C:\Windows\system32\www\msprevise.exe
```

According to the results, what is the description listed for reason 1?

## Know Bad / Dual use classics

Which binary alert is marked as APT Cloaked?

What are the matches? (str1, str2)

## psexesvc.exe, Sysinternals PsExec

Which binary alert is associated with somethingwindows.dmp found in C:\TMP?

```
... (truncated)
:AGE: FILE: C:\inetpub\wwwroot\tests.jsp SCORE: 140 TYPE: JSP SIZE: 657 FIRST_BYTES: 3c2540d
:SSAGE: FILE: C:\TMP\mim-out.txt SCORE: 80 TYPE: UNKNOWN SIZE: 3389 FIRST_BYTES: 0d0a20202e2
:AGE: FILE: C:\TMP\nbtscan.exe SCORE: 160 TYPE: EXE SIZE: 36864 FIRST_BYTES: 4d5a90000300000
:AGE: FILE: C:\TMP\p.exe SCORE: 105 TYPE: EXE SIZE: 381816 FIRST_BYTES: 4d5a9000030000000400
:SSAGE: FILE: C:\TMP\schtasks-backdoor.ps1 SCORE: 60 TYPE: UNKNOWN SIZE: 7022 FIRST_BYTES: 6
:GE: Scanning memory dump file somethingwindows.dmp
:SSAGE: FILE: C:\TMP\xCmd.exe SCORE: 60 TYPE: EXE SIZE: 843776 FIRST_BYTES: 4d5a900003000000
:SSAGE: FILE: C:\Users\Administrator\AppData\Local\Microsoft\Windows\Explorer\ExplorerStartu
:SSAGE: FILE: C:\Users\Administrator\AppData\Local\Microsoft\Windows\Explorer\iconcache_1280
:SSAGE: FILE: C:\Users\Administrator\AppData\Local\Microsoft\Windows\Explorer\iconcache_16.d
:SSAGE: FILE: C:\Users\Administrator\AppData\Local\Microsoft\Windows\Explorer\iconcache_1920
:SSAGE: FILE: C:\Users\Administrator\AppData\Local\Microsoft\Windows\Explorer\iconcache_256.
:SSAGE: FILE: C:\Users\Administrator\AppData\Local\Microsoft\Windows\Explorer\iconcache_2560
:SSAGE: FILE: C:\Users\Administrator\AppData\Local\Microsoft\Windows\Explorer\iconcache_32.d
```

Which binary is encrypted that is similar to a trojan?

```
memory dump file somethingwindows.dmp  
C:\TMP\xCmd.exe SCORE: 60 TYPE: EXE SIZE: 843776 FIRST BYTES: 4d5a9000030000004000000fffff0000b8000000 / MZ MD5: 27a  
C:\Users\Administrator\AppData\Local\Microsoft\Windows\Explorer\ExplorerStartupLog.etl SCORE: 75 TYPE: UNKNOWN SIZE:
```

Yara Rule MATCH: XOR\_4byte\_Key SUBSCORE: 60 DESCRIPTION: Detects an executable encrypted with a 4 byte XOR (also use

There is a binary that can masquerade itself as a legitimate core Windows process/image.

What is the full path of this binary?

```

LOKI: Alert: MODULE: FileScan MESSAGE: FILE: C:\Users\Public\svchost.exe SCORE: 155 TYPE: EXE SIZE: 8192 FIRST_BYTES:
4d5a9000030000004000000fffff0000b800000 / MZ MD5: 4635935fc972c582632bf45c26bfc0e SHA1: 7c5329229042535fe56e74f1f246c6da8cea3be8 SHA256
abd4af71b3c2bd3f741bbe3cec52c4fa63ac78d353101d2e7dc4de2725d1ca1 CREATED: Sat Mar 2 16:45:44 2019 MODIFIED: Sat Mar 2 16:37:37 2019
ACCESSED: Sat Mar 2 16:45:44 2019 REASON_1: File Name IOC matched PATTERN: \\(Users|Documents and Settings)\\[^\]\\{1,20}\\[^\]\\{1,20}\\.(exe|dll|vbs|bat|ps1) SUBSCORE: 40 DESC: Stuff running where it normally shouldn't REASON_2: Yara Rule MATCH: Suspicious Size svchost.exe SUBSCORE: 60 DESCRIPTION: Detects uncommon file size of svchost.exe REF: -

```

What is the full path location for the legitimate version?

```

PID: 792 NAME: svchost.exe COMMAND: C:\Windows\system32\svchost.exe -k RPCSS IP: :: PORT: 135
PID: 792 NAME: svchost.exe COMMAND: C:\Windows\system32\svchost.exe -k RPCSS IP: 0.0.0.0 PORT: 135

```

What is the description listed for reason 1?

```

LOKI: Alert: MODULE: FileScan MESSAGE: FILE: C:\Users\Public\svchost.exe SCORE: 155 TYPE: EXE SIZE: 8192 FIRST_BYTES:
d5a9000030000004000000fffff0000b800000 / MZ MD5: 4635935fc972c582632bf45c26bfc0e SHA1: 7c5329229042535fe56e74f1f246c6da8cea3be8 SHA256
bd4af71b3c2bd3f741bbe3cec52c4fa63ac78d353101d2e7dc4de2725d1ca1 CREATED: Sat Mar 2 16:45:44 2019 MODIFIED: Sat Mar 2 16:37:37 2019
ACCESSED: Sat Mar 2 16:45:44 2019 REASON_1: File Name IOC matched PATTERN: \\(Users|Documents and Settings)\\[^\]\\{1,20}\\[^\]\\{1,20}\\.(exe|dll|vbs|bat|ps1) SUBSCORE: 40 DESC: Stuff running where it normally shouldn't REASON_2: Yara Rule MATCH: Suspicious Size svchost.exe SUBSCORE: 60 DESCRIPTION: Detects uncommon file size of svchost.exe REF: -

```

> This PC > Local Disk (C:) > Users > Public				
Name	Date modified	Type	Size	
Libraries	7/16/2016 1:23 PM	File folder		
Public Account Pictures	3/2/2019 4:28 PM	File folder		
Public Desktop	7/16/2016 1:23 PM	File folder		
Public Documents	10/18/2016 1:59 AM	File folder		
Public Downloads	7/16/2016 1:23 PM	File folder		
Public Music	7/16/2016 1:23 PM	File folder		
Public Pictures	7/16/2016 1:23 PM	File folder		
Public Videos	7/16/2016 1:23 PM	File folder		
en-US	3/2/2019 4:45 PM	JavaScript File	14 KB	
procdump64	3/2/2019 4:37 PM	Application	334 KB	
svchost	3/2/2019 4:37 PM	Application	8 KB	

```

20251106T05:28:29Z EC2AMAZ-I8UH076 LOKI: Warning: MODULE: FileScan MESSAGE: FILE: C:\Users\Public\en-US.js SCORE: 70 TYPE: UNKNOWN SIZE: 14127 FIRST_BYTES: 7661722062696e617279203d202272756e646c6c / var binary = "rundll132" MD5: 8c217df0a00eaf9ffe92daf403d404a SHA1: 7ea62fd644dd9b9f82944268ea649fd007ee354d SHA256: 41270685a7496961e625773bcfe1ac50727847c66de69a9b2a2bf34699c30f54 CREATED: Sat Mar 2 16:40:00 2019 MODIFIED: Sat Mar 2 16:45:54 2019 ACCESSED: Sat Mar 2 16:40:00 2019 REASON_1: Yara Rule MATCH: CACTUSTORCH SUBSCORE: 70 DESCRIPTION: Detects CactusTorch Hacktool REF: https://github.com/mdsecactivebreach/CACTUSTORCH MATCHES: Str1: binary = "rundll132.exe" Str2: var binary = "rundll132.exe"; Str3: var serialized_obj =

```

Administrator: Command Prompt

```
C:\Users\Administrator\Desktop\Tools\SysinternalsSuite>strings64.exe \TMP\mim.exe | findstr ..\..1
<assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
j4.;1F
<assembly xmlns="urn:schemas-microsoft-com:asm.v1" manifestVersion="1.0">
<compatibility xmlns="urn:schemas-microsoft-com:compatibility.v1">

C:\Users\Administrator\Desktop\Tools\SysinternalsSuite>strings64.exe \TMP\mim.exe | findstr ..\...1
3.8.0.129
3.8.0.129
3.8.0.129
3.8.0.129
mk.ps1
mk.ps1
mk.ps1

C:\Users\Administrator\Desktop\Tools\SysinternalsSuite>
```

```
C:\Users\Administrator\Desktop\Tools\SysinternalsSuite>strings64.exe \TMP\mim.exe | findstr ..\..x.
PowerShell.ExecutionPolicy
Service.exe.manifest
PowerShell.ExecutionPolicy
mk.exe
mk.exe
mk.exe

C:\Users\Administrator\Desktop\Tools\SysinternalsSuite>
```

```
C:\Users\Administrator\Desktop\Tools\SysinternalsSuite>strings64.exe \TMP\mim.exe | findstr v.\..\....7
<supportedRuntime version="v2.0.50727" />
v2.0.50727
<supportedRuntime version="v2.0.50727" />
v2.0.50727
```