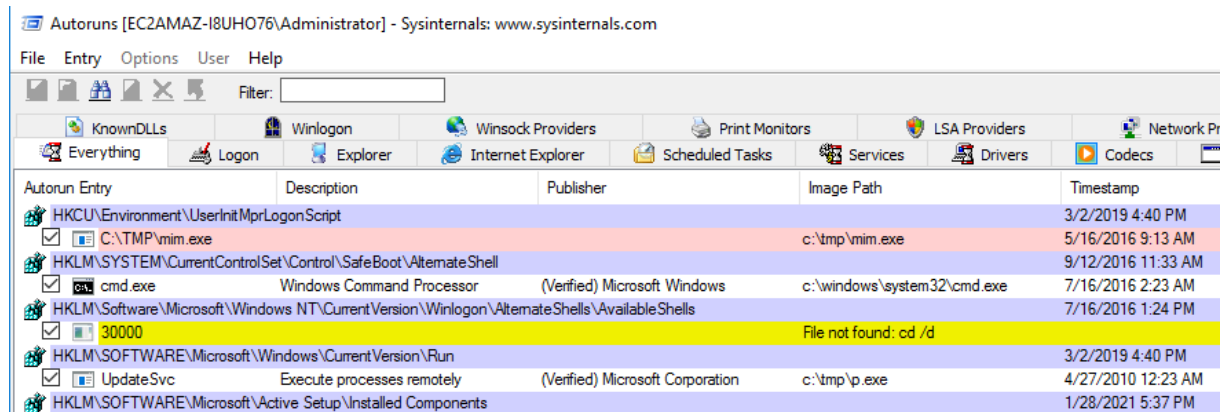


Investigating Windows 2.0

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



Autorun Entry	Description	Publisher	Image Path	Timestamp
HKCU\Environment\UserInitMprLogonScript				3/2/2019 4:40 PM
<input checked="" type="checkbox"/> C:\TMP\mim.exe			c:\tmp\mim.exe	5/16/2016 9:13 AM
<input checked="" type="checkbox"/> 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
<input checked="" type="checkbox"/> 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	
<input checked="" type="checkbox"/> 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
<input checked="" type="checkbox"/> 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

loki_EC2AMAZ-I8UHO76_2025-11-05_05-30-02 - Notepad

```
Edit Format View Help
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
```

```
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"
83 170 210 54 03 122 15 163 113 103 185 244 1 0 01\...\K11Tf... 45\...\Name "LaunchB
```

What is the full WQL Query associated with this script?

WQL is a WMI query language that is used get informaation from WMI. So that once I detailed the query I have seen that this script: **SELECT * FROM Win32_ProcessStartTrace WHERE ProcessName = 'procexp64.exe'**

What is the script language?

[illegible]

[illegible]

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**):

[illegible]

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

Analysis Overview

Submission name: WMIBackdoor.ps1
 Size: 20KiB
 Type: powershell ps
 Mime: text/plain
 SHA256: 57eb1179abfb81ee54880287307f0f770eabf5b01e247b9a9789fa70a074c21b
 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 behaviorial. So that this inference take me to the accurate answer: **C:\TMP**

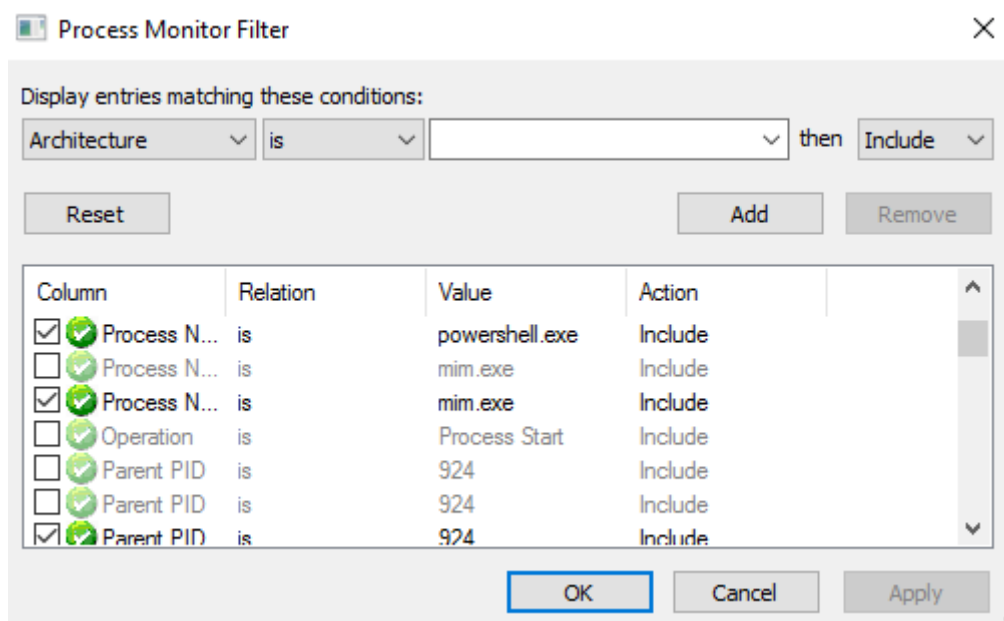
This PC > Local Disk (C:) > TMP		
	Name	Date modified
	d	3/2/2019 4:37 PM
	mim	3/2/2019 4:37 PM
	mim-out	3/2/2019 4:37 PM
	moutput.tmp	3/2/2019 4:45 PM
	nbtscan	3/2/2019 4:37 PM
	nc	3/2/2019 4:37 PM
	p	3/2/2019 4:37 PM
	scan1.tmp	3/2/2019 4:46 PM
	scan2.tmp	3/2/2019 4:46 PM
	scan3.tmp	3/2/2019 4:46 PM
	schtasks-backdoor	3/2/2019 4:37 PM
	somethingwindows.dmp	3/2/2019 4:45 PM
	sys	3/2/2019 4:46 PM
	WMIBackdoor	3/2/2019 4:37 PM
	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**

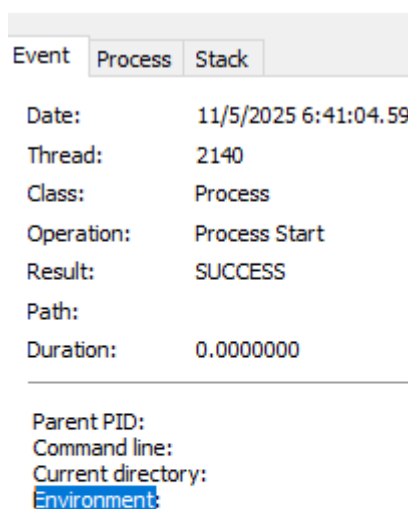
What is the parent process for these 2 processes?

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



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 answer found below.



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

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?

```
15020317:30:472 EC2APAZ-IBUH076 LOCI: Info: MODULE: FileScan MESSAGE: Scanning Path C:\...
15020317:30:502 EC2APAZ-IBUH076 LOCI: Alert: MODULE: FileScan MESSAGE: FILE: C:\inetpub\wwwroot\b.jsp SCORE: 340 TYPE: JSP SIZE: 74853 FIRST_BYTES: 3c252d200a202020204663756d656e742020 / <!-- Document MD5: 702427477b
15020317:30:502 EC2APAZ-IBUH076 LOCI: Alert: MODULE: FileScan MESSAGE: FILE: C:\inetpub\wwwroot\b.jsp SCORE: 340 TYPE: JSP SIZE: 74853 FIRST_BYTES: 3c252d200a202020204663756d656e742020 / <!-- Document MD5: 702427477b
15020317:30:502 EC2APAZ-IBUH076 LOCI: Alert: MODULE: FileScan MESSAGE: FILE: C:\inetpub\wwwroot\b.jsp SCORE: 340 TYPE: JSP SIZE: 74853 FIRST_BYTES: 3c252d200a202020204663756d656e742020 / <!-- Document MD5: 702427477b
15020317:32:212 EC2APAZ-IBUH076 LOCI: Warning: MODULE: FileScan MESSAGE: FILE: C:\TMP\mim-out.txt SCORE: 80 TYPE: UNKNOWN SIZE: 3389 FIRST_BYTES: 0d0a20202e2 / .##### nimika MD5: 7f6542abc458c
15020317:32:212 EC2APAZ-IBUH076 LOCI: Alert: MODULE: FileScan MESSAGE: FILE: C:\TMP\nbtscan.exe SCORE: 160 TYPE: EXE SIZE: 36864 FIRST_BYTES: 4d5a900003000000 / MZ MD5: 401a9a2d3e3132ed36c1ad2839f432
15020317:32:212 EC2APAZ-IBUH076 LOCI: Warning: MODULE: FileScan MESSAGE: FILE: C:\TMP\p.exe SCORE: 105 TYPE: EXE SIZE: 381816 FIRST_BYTES: 4d5a900003000000400 / MZ MD5: 27aee7f36a4099e8db3e3d3808474196
15020317:32:212 EC2APAZ-IBUH076 LOCI: Warning: MODULE: FileScan MESSAGE: FILE: C:\TMP\schtasks-backdoor.ps1 SCORE: 60 TYPE: UNKNOWN SIZE: 7022 FIRST_BYTES: 6076ee374096f6e20496e76f60b32d5461730 / Function Invoke-Task MD5: 8
15020317:32:222 EC2APAZ-IBUH076 LOCI: Info: MODULE: FileScan MESSAGE: Scanning memory dump file somethingwindows.dmp
15020317:32:232 EC2APAZ-IBUH076 LOCI: Warning: MODULE: FileScan MESSAGE: FILE: C:\Users\Administrator\AppData\Local\Microsoft\Windows\Explorer\ExplorerStartupLog.etl SCORE: 75 TYPE: UNKNOWN SIZE: 36860 FIRST_BYTES: - CREATED
15020317:32:252 EC2APAZ-IBUH076 LOCI: Warning: MODULE: FileScan MESSAGE: FILE: C:\Users\Administrator\AppData\Local\Microsoft\Windows\Explorer\iconcache_1280.dh SCORE: 75 TYPE: UNKNOWN SIZE: 24 FIRST_BYTES: - CREATED Sat Mar
```

What are the matches? (str1, str2)

psxessvc.exe, Sysinternals PsExec

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

```
... directory ... (truncated)
AGE: FILE: C:\inetpub\wwwroot\tests.jsp SCORE: 140 TYPE: JSP SIZE: 657 FIRST_BYTES: 3c25402
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: 4d5a900003000000
AGE: FILE: C:\TMP\p.exe SCORE: 105 TYPE: EXE SIZE: 381816 FIRST_BYTES: 4d5a900003000000400
SSAGE: FILE: C:\TMP\schtasks-backdoor.ps1 SCORE: 60 TYPE: UNKNOWN SIZE: 7022 FIRST_BYTES: 6
AGE: 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: 4d5a9000030000004000000ffff0000b8000000 / 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:
4d5a9000030000004000000ffff0000b8000000 / MZ MD5: 4635935fc972c582632bf45c26bfc0e SHA1: 7c5329229042535fe56e74f1f246c6da8cea3be8 SHA256
abd4afd71b3c2bd3f741bbe3cec52c4fa63ac78d353101d2e7dc4de2725d1ca1 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:
4d5a9000030000004000000ffff0000b8000000 / MZ MD5: 4635935fc972c582632bf45c26bfc0e SHA1: 7c5329229042535fe56e74f1f246c6da8cea3be8 SHA256
bd4afd71b3c2bd3f741bbe3cec52c4fa63ac78d353101d2e7dc4de2725d1ca1 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 = "rundll MD5: 8c217dfe0a00eaf9ffe92daf403d404a 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 = "rundll32.exe" Str2:
var binary = "rundll32.exe"; Str3: var serialized_obj = "

```

```
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
```