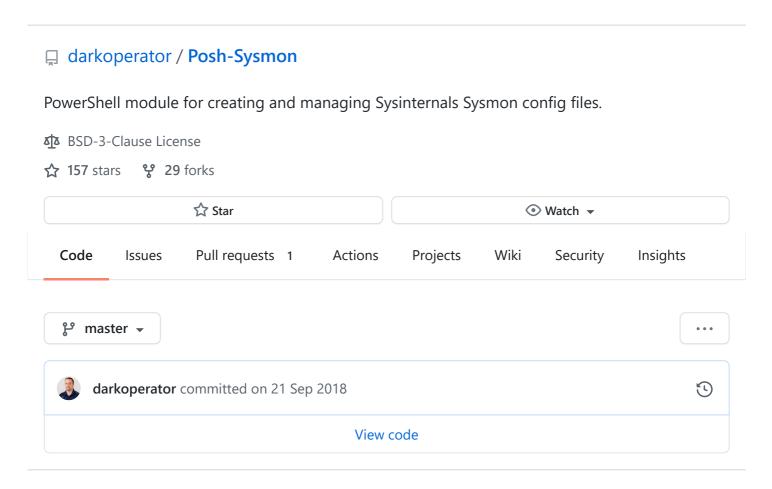


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README.md

# Posh-Sysmon

PowerShell 3.0 or above module for creating and managing Sysinternals Sysmon v2.0 config files. System Monitor (Sysmon) is a Windows system service and device driver that is part of the SysInternal tools from Microsoft. It is written by Mark Russinovich and Thomas Garnier to monitor a Windows system actions and log such actions in to the Windows Event Log. When the tool is installed on a system it can be given a XML configuration file so as to control what is logged and the same file can be used to update the configuration of a previously installed instance of the tool.

All functions in the PowerShell module include help information and example of usage that can be view using the Get-Help cmdlet.

# Installation

For installation it is highly recomended that you install from the PowerShell Gallery using the Install-Module cmdlet.

On PowerShell v5 and above:

```
Install-Module -Name Posh-Sysmon
```

If you are running PS 3.0 to 4.0 you can use the PowerShell Gallery also following instruction in PowerShell Gallery Documentation

# **Change Log**

#### Version 1.2

- Module only supports the last 2 Schema versions.[Breaking Change]
- Support for Sysmon 8.0 Schema version 4.1 RuleName
- Fixed issue when adding a filter for a none existing rule. It will properly error now.

## Version 1.0

- Module only supports the last 2 Schema versions.[Breaking Change]
- Support for Sysmon 7.0 Schema version 4.0
- Added new fields for filtering introduced in Sysmon 7.0.
- Modified organization of functions in to their own files for better management while coding.
- Fixed typo in the enabling of rules in rule creation.

# Version 0.7.6

- Support for Schema 3.4 of Sysmon v6.2
- New function New-SysmonWmiEvent.
- Updated Rule and Filter functions for WmiEvents.
- Fixed where some functions did not support PipeEvents.

#### Version 0.7.5

- Support for Schema 3.3 of Sysmon v6.
- New function New-SysmonPipeEvent for filtering for named pipeline cration and connection events.
- Support of PipeEvent in config creation and event type functions.
- Several bug fixes on filtering functions when give an array of values.

## Version 0.7.3

- Several bug fixes when creating RawAccess and ProcessOpen rules.
- By default the new schema is 3.2 for the latest version of Sysmon 5.0
- New-SysmonConfiguration function has options to enable all logging for FileCreate, RegistryEvent and FileCreateStreamHash
- Get-SysmonEventData can now parse File Create, Registry and File Stream creation events.
- New function New-SysmonFileCreateFilter for creating file creation filters.
- New function New-SysmonRegistryEvent for creating registry event filters.
- New function New-SysmonFileCreateStreamHash for creating file stream hash event filters.
- Updated Get-SysmonRule, Set-SysmonRule, Remove-SysmonRule and Remove-SysmonRuleFilter for the new event type rules.
- Added Online Help option for all functions.

#### Version 0.7.2

• Added missing Event Types to Get-SysmonEventData.

#### Version 0.7.1

Fixed issue with conditions with filters with space in them.

## Version 0.7

- Added support for ProcessAccess filtering added in Sysmon 4.1
- Added function New-SysmonProcessAccess for creating ProcessAccess filters.

- Fixed issue where command was displayed and not ran with New-SysmonDriverLoadFilter.
- Added ProcessAccess type in Get-SysmonEventData and Get-SysmonRuleFilter.
- In verbose output it shows with what version of Sysmon the file will be compatible with after creating it.

## Version 0.6

- Added support for Sysmon 4.0 XML schemea (Schema version 3.0)
- One can select the version of schema to support when creating the configuration file.
- All functions have been updated to support the use of more than one rule as per Schema 3.0

#### Version 0.5

- Added Get-SysmonEventData to get the Event Data information as custom object for selected Event Types.
- Added Get-SysmonRuleFilter to get all filters under a specific Event Type Rule.

#### Version 0.4

Version 3.0 is a full re-write om how rules work and new event types. This update is SysMon 3.0 only. If you wish to work on SysMon 2.0 rules I recommend you use version 0.3 version of the module.

- When creating a new sysmon rule it will allow you to enable logging of event types supported.
- Checks that it is only working with the proper XML schema for the rules.
- Can now create specific filter for CreateRemoteThread event type.
- Since Rules and Config got merger config functions (Get-SysmonConfigOptio, Set-SysmonConfigOption) where removed and replaced with Get-SysmonHashingAlgorithm and Set-SysmonHashingAlgorithm

## Version 0.3

- Tons of fixes do to a bad re-facor.
- Filter creation is now done by specific funtions per event type.
- Filter creation functions are now in their own sub-module.

#### Version 0.2

• Validate that the file is an XML file and a valid Sysmon configuration file.

- Change option ConfigFile to Path and LiteralPath so as to match other cmdlets that work with files.
- Fixed typos on verbose messages and examples.
- Functions should work better now when passing files through the pipeline using Get-ChildItem.

## Version 0.1

Initial version for Sysmon 2.0 with XML Schema 1.0

# **Examples**

# Create a XML Configuration File

```
PS C:\> New-SysmonConfiguration -Path .\pc_marketing.xml -HashingAlgorithm IMPHASH,SH
```

VERBOSE: Enabling hashing algorithms: IMPHASH, SHA1

VERBOSE: Enabling network connection logging.

VERBOSE: Config file created as C:\pc\_marketing.xml

**Get configured Rules and Filters** 

```
PS C:\> Get-SysmonRule -Path .\pc_marketing.xml
```

EventType : NetworkConnect

Scope : Filtered
DefaultAction : Exclude

Filters : {@{EventField=Image; Condition=Image; Value=C:\Windows\System32\svcho

@{EventField=Image; Condition=Image; Value=C:\Program Files (x86)\Int
@{EventField=Image; Condition=Image; Value=C:\Program Files\Internet
@{EventField=Image; Condition=Image; Value=C:\Program Files (x86)\Goo

PS C:\> Get-SysmonRules -Path .\pc\_marketing.xml | select -ExpandProperty Filters

EventField	Condition	Value
Image	Image	<pre>C:\Windows\System32\svchost.exe</pre>
Image	Image	<pre>C:\Program Files (x86)\Internet Explorer\iexplo</pre>
Image	Image	<pre>C:\Program Files\Internet Explorer\iexplore.exe</pre>
Image	Image	<pre>C:\Program Files (x86)\Google\Chrome\Applicatio</pre>
Image	Image	<pre>C:\Program Files (x86)\PuTTY\putty.exe</pre>
Image	Image	<pre>C:\Program Files (x86)\PuTTY\plink.exe</pre>
Image	Image	<pre>C:\Program Files (x86)\PuTTY\pscp.exe</pre>

# Create or Update a Rule and its Default Action

PS C:\> Set-SysmonRule -Path .\pc\_marketing.xml -EventType ImageLoad -Verbose

VERBOSE: No rule for ImageLoad was found.

VERBOSE: Creating rule for event type with action of Exclude

VERBOSE: Action has been set.

EventType : ImageLoad
Scope : All Events
DefaultAction : Exclude

Filters :

# Remove One or More Filters

PS C:\> Get-SysmonRule -Path .\pc\_marketing.xml -EventType NetworkConnect

EventType : NetworkConnect

Scope : Filtered DefaultAction : Exclude

Filters : {@{EventField=Image; Condition=Image; Value=C:\Windows\System32\svcho

@{EventField=Image; Condition=Image; Value=C:\Program Files (x86)\Int
@{EventField=Image; Condition=Image; Value=C:\Program Files\Internet
@{EventField=Image; Condition=Image; Value=C:\Program Files (x86)\Goo

PS C:\> Remove-SysmonRuleFilter -Path .\pc\_marketing.xml -EventType NetworkConnect -C VERBOSE: Filter for field Image with condition Image and value of C:\Windows\System32 VERBOSE: Filter for field Image with condition Image and value of C:\Program Files (x VERBOSE: Filter for field Image with condition Image and value of C:\Program Files\In VERBOSE: Filter for field Image with condition Image and value of C:\Program Files (x VERBOSE: Filter for field Image with condition Image and value of C:\Program Files (x VERBOSE: Filter for field Image with condition Image and value of C:\Program Files (x VERBOSE: Filter for field Image with condition Image and value of C:\Program Files (x VERBOSE: Filter for field Image with condition Image and value of C:\Program Files (x VERBOSE: Filter for field Image with condition Image and value of C:\Program Files (x

EventType : NetworkConnect
Scope : All Events
DefaultAction : Exclude

Filters :

# Remove Rule

PS C:\> Remove-SysmonRule -Path .\pc\_marketing.xml -EventType ImageLoad,NetworkConnec

VERBOSE: Removed rule for ImageLoad.

VERBOSE: Removed rule for NetworkConnect.

#### Releases 3



+ 2 releases

## Contributors 2



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## Languages

• PowerShell 100.0%