## **Usecase 3: PowerShell Usage**

Objective: Detect usage of PowerShell

Log Source: Windows Sysmon

Event ID: Sysmon ID 1: Process Creation

**Example Target Log From Event Viewer:** 

**Process Create:** 

RuleName: technique\_id=T1204,technique\_name=User Execution

UtcTime: 2025-06-30 22:13:58.574

ProcessGuid: {0430377a-0c26-6863-fd10-00000001d00}

ProcessId: 22660

Image: C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe

FileVersion: 10.0.26100.3323 (WinBuild.160101.0800)

Description: Windows PowerShell

Product: Microsoft® Windows® Operating System

Company: Microsoft Corporation OriginalFileName: PowerShell.EXE

CommandLine: "C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe"

CurrentDirectory: C:\Users\<username>\ User: <system name>\<username>

LogonGuid: {0430377a-884e-685d-13c1-620300000000}

LogonId: 0x362C113 TerminalSessionId: 2 IntegrityLevel: Medium Hashes: SHA1= <hash string>

ParentProcessGuid: {0430377a-8850-685d-4a06-00000001d00}

ParentProcessId: 17992

Parentlmage: C:\Windows\explorer.exe

ParentCommandLine: C:\WINDOWS\Explorer.EXE

Pre-configuration: Sysmon set up, after installation run these commands as admin in powershell: cd 'C:\Sysmon\' (or wherever Sysmon is installed) > wget https://wazuh.com/resources/blog/emulation-of-attack-techniques-and-detection-with-wazuh/sysmonconfig.xml -Outfile sysmonconfig.xml > then .\Sysmon.exe (or wherever Sysmon.exe is installed) -accepteula -I .\sysmonconfig.xml (or wherever sysmonconfig.xml is installed)

Then need to configure agent log collection for Sysmon by adding this to the local agent configuration

```
<localfile>
  <location>Microsoft-Windows-Sysmon/Operational</location>
  <log_format>eventchannel</log_format>
  </localfile>
```

Custom Wazuh Rule:

```
<group name="windows, sysmon, powershell">
<rule id="100114" level="13">
<if_sid>61603</if_sid>
<field name="win.eventdata.image" type="pcre2">powershell.exe</field>
<description>powershell execution detected</description>
</rule>
</group>
```

Filters the default 61603 for powershell occurrences using eventdata.image contains powershell.exe

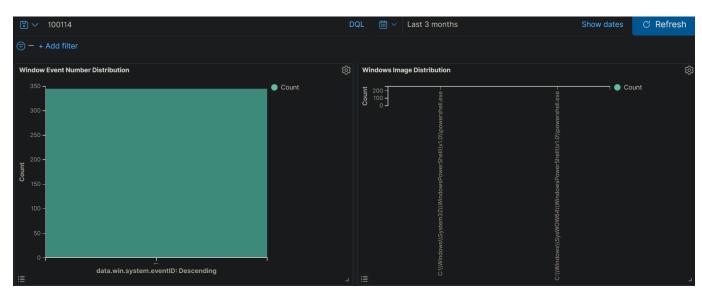
```
<rule id="61603" level="0">
    <iif_sid>61600</iif_sid>
    <field name="win.system.eventID">^1$</field>
    <description>Sysmon - Event 1: Process creation $(win.eventdata.description)</description>
    <options>no_full_log</options>
        <group>sysmon_event1,</group>
</rule>
```

Because 61603 already filters for event ID 1 events, no further filtering is required other than for the image

## Example Alerts:



## Verification of fields:



While it seems the image filtering is unsuccessful on first glance we can see both are different paths to powershell so both are successful.