

Developing Sigma Rules

In this section, we'll cover manual Sigma rule development.

Let's now navigate to the bottom of this section and click on "Click here to spawn the target system!". Then, let's RDP into the Target IP using the provided credentials. The vast majority of the actions/commands covered from this point up to end of this section can be replicated inside the target, offering a more comprehensive grasp of the topics presented.

Manually Developing a Sigma Rule

Example 1: LSASS Credential Dumping

Let's dive into the world of Sigma rules using a sample named `shell.exe` (a renamed version of `mimikatz`) residing in the `C:\Samples\YARASigma` directory of this section's target as an illustration. We want to understand the process behind crafting a Sigma rule, so let's get our hands dirty.

After executing `shell.exe` as follows, we collected the most critical events and saved them as `lab_events.evtx` inside the `C:\Events\YARASigma` directory of this section's target.

The process created by `shell.exe` (`mimikatz`) will try to access the process memory of `lsass.exe`. The system monitoring tool `Sysmon` was running in the background and captured this activity in the event logs (Event ID 10).

```
● ● ● Developing Sigma Rules
C:\Samples\YARASigma>shell.exe

#####
mimikatz 2.2.0 (x64) #19041 Sep 19 2022 17:44:08
.## ^ ##. "A La Vie, A L'Amour" - (oe.oe)
## / \ ## /*** Benjamin DELPY `gentilkiwi` ( benjamin@gentilkiwi.com )
## \ / ## > https://blog.gentilkiwi.com/mimikatz
## v ##' Vincent LE TOUX ( vincent.letoux@gmail.com )
'#####' > https://pingcastle.com / https://mysmartlogon.com ***
mimikatz # privilege::debug
Privilege '20' OK

mimikatz # sekurlsa::logonpasswords
---SNIP---
Authentication Id : 0 ; 100080 (00000000:000186f0)
Session : Interactive from 1
User Name : htb-student
Domain : DESKTOP-VJF8GH8
Logon Server : DESKTOP-VJF8GH8
Logon Time : 8/25/2023 2:17:20 PM
SID : S-1-5-21-1412399592-1502967738-1150298762-1001
    msv :
        [00000003] Primary
        * Username : htb-student
        * Domain : .
        * NTLM : 3c0e5d303ec84884ad5c3b7876a06ea6
        * SHA1 : b2978f9abc2f356e45cb66ec39510b1cccc08a0e
    tspkg :
    wdigest :
        * Username : htb-student
        * Domain : DESKTOP-VJF8GH8
        * Password : (null)
    kerberos :
        * Username : htb-student
        * Domain : DESKTOP-VJF8GH8
        * Password : (null)
    ssp :
    credman :
```

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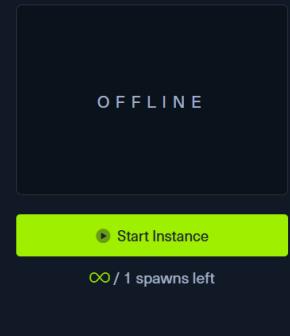
Leveraging Sigma

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Skills Assessment	✓
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My Workstation



```

cloudap :

Authentication Id : 0 ; 100004 (00000000:000186a4)
Session          : Interactive from 1
User Name        : htb-student
Domain          : DESKTOP-VJF8GH8
Logon Server    : DESKTOP-VJF8GH8
Logon Time      : 8/25/2023 2:17:20 PM
SID             : S-1-5-21-1412399592-1502967738-1150298762-1001

msv :
[00000003] Primary
* Username : htb-student
* Domain   : .
* NTLM     : 3c0e5d303ec84884ad5c3b7876a06ea6
* SHA1     : b2978f9abc2f356e45cb66ec39510b1ccca08a0e

tspkg :
wdigest :
* Username : htb-student
* Domain   : DESKTOP-VJF8GH8
* Password : (null)

kerberos :
* Username : htb-student
* Domain   : DESKTOP-VJF8GH8
* Password : HTB @_cademy_stdnt!

ssp :
credman :
cloudap :

---SNIP---

```

First off, Sysmon **Event ID 10** is triggered when a process accesses another process, and it logs the permission flags in the **GrantedAccess** field. This event log contains two important fields, **TargetImage** and **GrantedAccess**. In a typical LSASS memory dumping scenario, the malicious process needs specific permissions to access the memory space of the LSASS process. These permissions are often read/write access, among other things.

The screenshot shows the 'Event 10, Sysmon' window with the 'General' tab selected. The event details are as follows:

Process accessed:
 RuleName:
 UtcTime: 2023-07-09 14:44:14.260
 SourceProcessGUID: {e7bf76b7-c7ba-64aa-0000-0010e8e9a602}
 SourceProcessId: 1884
 SourceThreadId: 7872
 SourceImage: C:\htb\samples\shell.exe
 TargetProcessGUID: {e7bf76b7-d7ec-6496-0000-001027d60000}
 TargetProcessId: 668
 TargetImage: C:\Windows\system32\lsass.exe
 GrantedAccess: 0x1010

CallTrace: C:\Windows\SYSTEM32\ntdll.dll+9d4c4|C:\Windows\System32\KERNELBASE.dll+2c13e|C:\htb\samples\shell.exe+c2cf5|C:\htb\samples\shell.exe+c285d|C:\htb\samples\shell.exe+85a44|C:\htb\samples\shell.exe+8587c|C:\htb\samples\shell.exe+85647|C:\htb\samples\shell.exe+c97a5|C:\Windows\System32\KERNEL32.DLL+17034|C:\Windows\SYSTEM32\ntdll.dll+526a1

Log Name: Microsoft-Windows-Sysmon/Operational
Source: Sysmon **Logged:** 09-07-2023 20:14:14
Event ID: 10 **Task Category:** Process accessed (rule: ProcessAccess)
Level: Information **Keywords:**
User: SYSTEM **Computer:** RDSEVM01
OpCode: Info
More Information: [Event Log Online Help](#)

Now, why is **0x1010** crucial here? This hexadecimal flag essentially combines **PROCESS_VM_READ (0x0010)** and **PROCESS_QUERY_INFORMATION (0x0400)** permissions. To translate that: the process is asking for read access to the virtual memory of LSASS and the ability to query certain information from the process. While **0x0410** is the most common GrantedAccess flag used for reading LSASS memory, **0x1010** implies both reading and querying information from the process and is also frequently observed during credential dumping attacks.

So how can we weaponize this information for detection? Well, in our security monitoring stack, we would configure Sysmon to flag or alert on any **Event ID 10** where the **TargetImage** is **lsass.exe** and **GrantedAccess** is set to **0x1010**.

A Sigma rule that checks for the abovementioned conditions can be found below.

Code: **yaml**

```

title: LSASS Access with rare GrantedAccess flag
status: experimental
description: This rule will detect when a process tries to access LSASS memory with suspicious access

```

```
description: This rule will detect when a process tries to access LSASS memory with suspicious access.
date: 2023/07/08
tags:
  - attack.credential_access
  - attack.t1003.001
logsource:
  category: process_access
  product: windows
detection:
  selection:
    TargetImage|endswith: '\lsass.exe'
    GrantedAccess|endswith: '0x1010'
  condition: selection
```

Sigma Rule Breakdown

- **title:** This title offers a concise overview of the rule's objective, specifically aimed at detecting interactions with LSASS memory involving a particular access flag.

Code: [yaml](#)

```
title: LSASS Access with rare GrantedAccess flag
```

- **status:** This field signals that the rule is in the testing phase, suggesting that additional fine-tuning or validation may be necessary.

Code: [yaml](#)

```
status: experimental
```

- **description:** Rule description.

Code: [yaml](#)

```
description: This rule will detect when a process tries to access LSASS memory with suspicious access.
```

- **date:** This field marks the date when the rule was either updated or originally created.

Code: [yaml](#)

```
date: 2023/07/08
```

- **tags:** The rule is tagged with `attack.credential_access` and `attack.t1003.001`. These tags help categorize the rule based on known attack techniques or tactics related to credential access.

Code: [yaml](#)

```
tags:
  - attack.credential_access
  - attack.t1003.001
```

- **logsource:** The logsource specifies the log source that the rule is intended to analyze. It contains `category` as `process_access` which indicates that the rule focuses on log events related to process access (Sysmon Event ID 10, if we use Sigma's default config files). Also, `product: windows` specifies that the rule is specifically designed for Windows operating systems.

Code: [yaml](#)

```
Code: yaml
```

```
logsource:  
    category: process_access  
    product: windows
```

- **detection:** The detection section defines the conditions that must be met for the rule to trigger an alert. The selection part specifies the criteria for selecting relevant log events where the **TargetImage** field ends with `\lsass.exe` and **GrantedAccess** field ends with the hexadecimal value `0x1010`. The **GrantedAccess** field represents the access rights or permissions associated with the process. In this case, it targets events with a specific access flag of `0x1010`. Finally, the condition part specifies that the selection criteria must be met for the rule to trigger an alert. In this case, both the **TargetImage** and **GrantedAccess** criteria must be met.

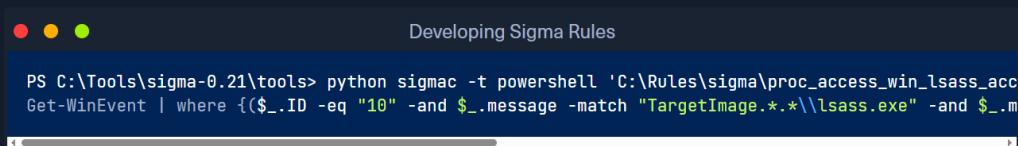
```
Code: yaml
```

```
detection:  
    selection:  
        TargetImage|endswith: '\lsass.exe'  
        GrantedAccess|endswith: '0x1010'  
    condition: selection
```

Our first Sigma rule above can be found inside the `C:\Rules\sigma` directory of this section's target as `proc_access_win_lsass_access.yml`. Let's explore the `sigmac` tool that can help us transform this rule into queries or configurations compatible with a multitude of SIEMs, log management solutions, and other security analytics tools.

The `sigmac` tool can be found inside the `C:\Tools\sigma-0.21\tools` directory of this section's target.

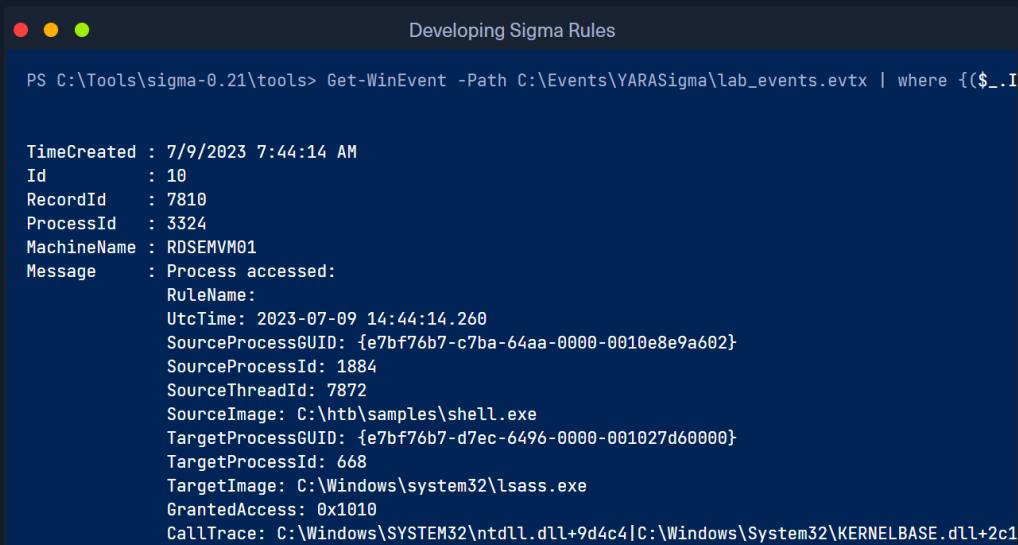
Suppose that we wanted to convert our Sigma rule into a PowerShell (`Get-WinEvent`) query. This could have been accomplished with the help of `sigmac` as follows.



```
PS C:\Tools\sigma-0.21\tools> python sigmac -t powershell 'C:\Rules\sigma\proc_access_win_lsass_ac  
Get-WinEvent | where {($_.ID -eq "10" -and $_.message -match "TargetImage.*.*\\lsass.exe" -and $_.m
```

Let's adjust the Get-WinEvent query above by specifying the .evtx file that is related to LSASS access by another process (`lab_events.evtx` inside the `C:\Events\YARASigma` directory of this section's target) and see if it will identify the Sysmon event (**ID 10**) that we analyzed at the beginning of this section.

Note: Please open a PowerShell terminal as administrator to run the query.



```
PS C:\Tools\sigma-0.21\tools> Get-WinEvent -Path C:\Events\YARASigma\lab_events.evtx | where {($_.I  
  
TimeCreated : 7/9/2023 7:44:14 AM  
Id          : 10  
RecordId    : 7810  
ProcessId   : 3324  
MachineName : RDSEVMVM01  
Message     : Process accessed:  
             RuleName:  
             UtcTime: 2023-07-09 14:44:14.260  
             SourceProcessGUID: {e7bf76b7-c7ba-64aa-0000-0010e8e9a602}  
             SourceProcessId: 1884  
             SourceThreadId: 7872  
             SourceImage: C:\htb\samples\shell.exe  
             TargetProcessGUID: {e7bf76b7-d7ec-6496-0000-001027d60000}  
             TargetProcessId: 668  
             TargetImage: C:\Windows\system32\lsass.exe  
             GrantedAccess: 0x1010  
             CallTrace: C:\Windows\SYSTEM32\ntdll.dll+9d4c4|C:\Windows\System32\KERNELBASE.dll+2c1
```

```
ell.exe+c291e|C:\htb\samples\shell.exe+c2cf5|C:\htb\samples\shell.exe+c285d|C:\htb\sa
4|C:\htb\samples\shell.exe+8587c|C:\htb\samples\shell.exe+85647|C:\htb\samples\shell
\System32\KERNEL32.DLL+17034|C:\Windows\SYSTEM32\ntdll.dll+526a1
SourceUser: %12
TargetUser: %13
```

The related Sysmon event with ID 10 is successfully identified!

But let's not stop there - remember, false positives are the enemy of effective security monitoring.

- We should also cross-reference the `SourceImage` (the process initiating the access) against a list of known, safe processes that commonly interact with LSASS.
- If we see an unfamiliar or unusual process trying to read LSASS with a `GrantedAccess` that ends with `10`, `30`, `50`, `70`, `90`, `B0`, `D0`, `F0`, `18`, `38`, `58`, `78`, `98`, `B8`, `D8`, `F8`, `1A`, `3A`, `5A`, `7A`, `9A`, `BA`, `DA`, `FA`, `0x14C2`, and `FF` (these suffixes come from studying the `GrantedAccess` values that various LSASS credential dumping techniques require), that's a red flag, and our incident response protocol should kick in.
- Especially, if the `SourceImage` resides in suspicious paths containing, `\Temp\`, `\Users\Public\`, `\PerfLogs\`, `\AppData\`, `\htb\` etc. that's another red flag, and our incident response protocol should kick in.

A more robust version of the Sigma rule we created taking the above points into consideration can be found inside the

`C:\Rules\sigma` directory of this section's target as `proc_access_win_lsass_access_robust.yml`

Code: `yml`

```
title: LSASS Access From Program in Potentially Suspicious Folder
id: fa34b441-961a-42fa-a100-ecc28c886725
status: experimental
description: Detects process access to LSASS memory with suspicious access flags and from a potentially suspicious source
references:
  - https://docs.microsoft.com/en-us/windows/win32/procthread/process-security-and-access-rights
  - https://onedrive.live.com/view.aspx?resid=0026B4699190F1E6!2843&ithint=file%2cpptx&app=PowerPoint
  - https://web.archive.org/web/20230208123920/https://cyberwardog.blogspot.com/2017/03/chronicle
  - https://www.slideshare.net/heirhabarov/hunting-for-credentials-dumping-in-windows-environment
  - http://security-research.dyndns.org/pub/slides/FIRST2017/FIRST-2017_Tom-Ueltschi_Sysmon_FINAL
author: Florian Roth (Nextron Systems)
date: 2021/11/27
modified: 2023/05/05
tags:
  - attack.credential_access
  - attack.t1003.001
  - attack.s0002
logsource:
  category: process_access
  product: windows
detection:
  selection:
    TargetImage|endswith: '\lsass.exe'
    GrantedAccess|endswith:
      - '10'
      - '30'
      - '50'
      - '70'
      - '90'
      - 'B0'
      - 'D0'
      - 'F0'
      - '18'
      - '38'
      - '58'
      - '78'
      - '98'
      - 'B8'
      - 'D8'
```

```
- 'F8'
- '1A'
- '3A'
- '5A'
- '7A'
- '9A'
- 'BA'
- 'DA'
- 'FA'
- '0x14C2' # https://github.com/b4rtik/ATPMiniDump/blob/76304f93b390af3bb66e4f451ca165
- 'FF'
SourceImage|contains:
- '\Temp\
- '\Users\Public\
- '\PerfLogs\
- '\AppData\
- '\htb\
filter_optional_generic_appdata:
SourceImage|startswith: 'C:\Users\
SourceImage|contains: '\AppData\Local\
SourceImage|endswith:
- '\Microsoft VS Code\Code.exe'
- '\software_reporter_tool.exe'
- '\DropboxUpdate.exe'
- '\MBAMInstallerService.exe'
- '\WebexMTA.exe'
- '\WebEx\WebexHost.exe'
- '\JetBrains\Toolbox\bin\jetbrains-toolbox.exe'
GrantedAccess: '0x410'
filter_optional_dropbox_1:
SourceImage|startswith: 'C:\Windows\Temp\
SourceImage|endswith: '.tmp\DropboxUpdate.exe'
GrantedAccess:
- '0x410'
- '0x1410'
filter_optional_dropbox_2:
SourceImage|startswith: 'C:\Users\
SourceImage|contains: '\AppData\Local\Temp\
SourceImage|endswith: '.tmp\DropboxUpdate.exe'
GrantedAccess: '0x1410'
filter_optional_dropbox_3:
SourceImage|startswith:
- 'C:\Program Files (x86)\Dropbox\
- 'C:\Program Files\Dropbox\
SourceImage|endswith: '\DropboxUpdate.exe'
GrantedAccess: '0x1410'
filter_optional_nextron:
SourceImage|startswith:
- 'C:\Windows\Temp\asgard2-agent\
- 'C:\Windows\Temp\asgard2-agent-sc\
SourceImage|endswith:
- '\thor64.exe'
- '\thor.exe'
- '\aurora-agent-64.exe'
- '\aurora-agent.exe'
GrantedAccess:
- '0xffffffff'
- '0x1010'
- '0x101010'
filter_optional_ms_products:
SourceImage|startswith: 'C:\Users\
SourceImage|contains|all:
- '\AppData\Local\Temp\
- '\vs_bootstrapper\
GrantedAccess: '0x1410'
filter_optional_chrome_update:
SourceImage|startswith: 'C:\Program Files (x86)\Google\Temp\
SourceImage|endswith: '.tmp\GoogleUpdate.exe'
GrantedAccess:
- '0x410'
- '0x1410'
```

```

- 0x1410
filter_optional_keybase:
    SourceImage|startswith: 'C:\Users\' 
    SourceImage|endswith: '\AppData\Local\Keybase\keybase.exe'
    GrantedAccess: '0xffffffff'
filter_optional_avira:
    SourceImage|contains: '\AppData\Local\Temp\is-'
    SourceImage|endswith: '.tmp\avira_system_speedup.tmp'
    GrantedAccess: '0x1410'
filter_optional_viberpc_updater:
    SourceImage|startswith: 'C:\Users\' 
    SourceImage|contains: '\AppData\Roaming\ViberPC\' 
    SourceImage|endswith: '\updater.exe'
    TargetImage|endswith: '\winlogon.exe'
    GrantedAccess: '0xffffffff'
filter_optional_adobe_arm_helper:
    SourceImage|startswith: # Example path: 'C:\Program Files (x86)\Common Files\Adobe\ARM\1.0
        - 'C:\Program Files\Common Files\Adobe\ARM\' 
        - 'C:\Program Files (x86)\Common Files\Adobe\ARM\' 
    SourceImage|endswith: '\AdobeARMHelper.exe'
    GrantedAccess: '0x1410'
condition: selection and not 1 of filter_optional_*
fields:
    - User
    - SourceImage
    - GrantedAccess
falsepositives:
    - Updaters and installers are typical false positives. Apply custom filters depending on your environment.
level: medium

```

Notice how the condition filters out false positives (selection `and not 1 of filter_optional_*`).

Example 2: Multiple Failed Logins From Single Source (Based on Event 4776)

According to Microsoft, [Event 4776](#) generates every time that a credential validation occurs using NTLM authentication.

This event occurs only on the computer that is authoritative for the provided credentials. For domain accounts, the domain controller is authoritative. For local accounts, the local computer is authoritative.

It shows successful and unsuccessful credential validation attempts.

It shows only the computer name ([Source Workstation](#)) from which the authentication attempt was performed (authentication source). For example, if you authenticate from CLIENT-1 to SERVER-1 using a domain account you'll see CLIENT-1 in the [Source Workstation](#) field. Information about the destination computer (SERVER-1) isn't presented in this event.

If a credential validation attempt fails, you'll see a Failure event with Error Code parameter value not equal to `0x0`.

[lab_events_2.evtx](#) inside the [C:\Events\YARASigma](#) directory of this section's target contains events related to multiple failed login attempts against [NOUSER](#) (thanks to [mdecrevoisier](#)).

lab_events_2 Number of events: 20					
Level	Date and Time	Source	Event ID	Task Ca...	
Information	5/20/2021 5:49:46 AM	Micros...	4717	Authen...	
Information	5/20/2021 5:49:46 AM	Micros...	4718	Authen...	
Information	5/20/2021 5:49:52 AM	Micros...	4776	Creden...	
Information	5/20/2021 5:49:54 AM	Micros...	4776	Creden...	
Information	5/20/2021 5:49:53 AM	Micros...	4776	Creden...	
Information	5/20/2021 5:49:54 AM	Micros...	4776	Creden...	
Information	5/20/2021 5:49:54 AM	Micros...	4776	Creden...	
Event 4776, Microsoft Windows security auditing.					

The computer attempted to validate the credentials for an account.

Authentication Package: MICROSOFT_AUTHENTICATION_PACKAGE_V1_0
Logon Account: NOUSER
Source Workstation: FS01
Error Code: 0xC0000064

Log Name: Security
Source: Microsoft Windows security
Event ID: 4776
Level: Information
User: N/A
OpCode: Info
More Information: [Event Log Online Help](#)

lab_events_2 Number of events: 20					
Level	Date and Time	Source	Event ID	Task Ca...	
Information	5/20/2021 5:49:46 AM	Micros...	4717	Authen...	
Information	5/20/2021 5:49:46 AM	Micros...	4718	Authen...	
Information	5/20/2021 5:49:52 AM	Micros...	4776	Creden...	
Information	5/20/2021 5:49:54 AM	Micros...	4776	Creden...	
Information	5/20/2021 5:49:53 AM	Micros...	4776	Creden...	
Information	5/20/2021 5:49:54 AM	Micros...	4776	Creden...	
Information	5/20/2021 5:49:54 AM	Micros...	4776	Creden...	

Event 4776, Microsoft Windows security auditing.

General Details

Friendly View XML View

+ System

- EventData

PackageName MICROSOFT_AUTHENTICATION_PACKAGE_V1_0
TargetUserName NOUSER
Workstation FS01
Status 0xc0000064

A valid Sigma rule to detect multiple failed login attempts originating from the same source can be found inside the `C:\Rules\sigma` directory of this section's target, saved as `win_security_susp_failed_logons_single_source2.yml`

Code: `yaml`

```
title: Failed NTLM Logins with Different Accounts from Single Source System
id: 6309fffc4-8fa2-47cf-96b8-a2f72e58e538
related:
  - id: e98374a6-e2d9-4076-9b5c-11bdb2569995
    type: derived
status: unsupported
description: Detects suspicious failed logins with different user accounts from a single source system
author: Florian Roth (Nextron Systems)
date: 2017/01/10
modified: 2023/02/24
tags:
  - attack.persistence
  - attack.privilege_escalation
  - attack.t1078
logsource:
  product: windows
  service: security
detection:
  selection2:
    EventID: 4776
    TargetUserName: '*'
    Workstation: '*'
    condition: selection2 | count(TargetUserName) by Workstation > 3
falsepositives:
  - Terminal servers
  - Jump servers
  - Other multiuser systems like Citrix server farms
  - Workstations with frequently changing users
level: medium
```

Sigma Rule Breakdown:

- **logsource:** This section specifies that the rule is intended for Windows systems (`product: windows`) and focuses only on `Security` event logs (`service: security`).

Code: `yaml`

```
logsource:
  product: windows
  service: security
```

- **detection:** `selection2` is essentially the filter. It's looking for logs with EventID `4776` (`EventID: 4776`) regardless of the `TargetUserName` or `Workstation` values (`TargetUserName: '*', Workstation: '*'.`). `condition` counts instances of `TargetUserName` grouped by `Workstation` and checks if a workstation has more than `three` failed login attempts.

Sigma Rule Development Resources

As you can imagine, the best Sigma rule development resource is the official documentation, which can be found at the

following links.

- <https://github.com/SigmaHQ/sigma/wiki/Rule-Creation-Guide>
- <https://github.com/SigmaHQ/sigma-specification>

The following series of articles is the next best resource on Sigma rule development.

- <https://tech-en.netlify.app/articles/en510480/>
- <https://tech-en.netlify.app/articles/en513032/>
- <https://tech-en.netlify.app/articles/en515532/>

In the upcoming section, we'll explore how to use Sigma rules for large-scale analysis of event logs with the aim of swiftly identifying threats.

VPN Servers

⚠ Warning: Each time you "Switch", your connection keys are regenerated and you must re-download your VPN connection file.

All VM instances associated with the old VPN Server will be terminated when switching to a new VPN server.

Existing PwnBox instances will automatically switch to the new VPN server.

US Academy 3

Medium Load ▾

PROTOCOL

UDP 1337 TCP 443

[DOWNLOAD VPN CONNECTION FILE](#)



Connect to Pwnbox

Your own web-based Parrot Linux instance to play our labs.

Pwnbox Location

UK

161ms ▾

[ⓘ Terminate Pwnbox to switch location](#)

[Start Instance](#)

∞ / 1 spawns left

Enable step-by-step solutions for all questions  

Questions

Answer the question(s) below to complete this Section and earn cubes!

 Download VPN Connection File

Target(s): [Click here to spawn the target system!](#)

 RDP to with user "htb-student" and password "HTB_@cademy_stdnt!"

+ 2  Using sigmac translate the
"C:\Tools\chainsaw\sigma\rules\windows\builtin\windefend\win_defender_threat.yml" Sigma rule into the
equivalent PowerShell command. Then, execute the PowerShell command against
"C:\Events\YARASigma\lab_events_4.evtx" and enter the malicious driver as your answer. Answer format: _sys

mimidrv.sys

 Submit

 Previous

Next 

 Mark Complete & Next