

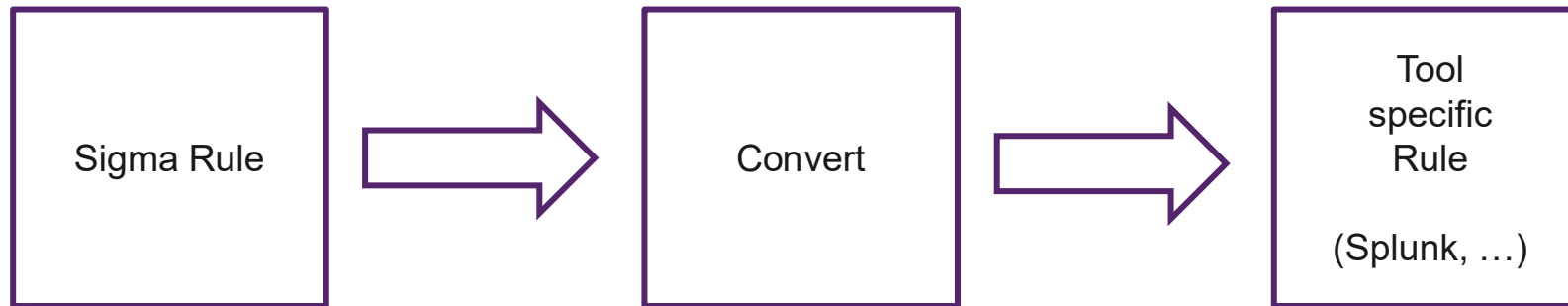


Sigma Rules

Hunting Rules

SIGMA

- Sigma is a generic and open signature format that allows you to describe relevant log events in a straightforward manner. The rule format is very flexible, easy to write and applicable to any type of log file. The main purpose of this project is to provide a structured form in which researchers or analysts can describe their once developed detection methods and make them **shareable** with others.
- Sigma is for log files what Snort is for network traffic and YARA is for files.



Detection Rules: Sigma

Sigma Rules

Widely accepted

Platform agnostic (avoid vendor lock in)

- Has tooling to convert to your environment
- Great library of rules
- Community driven!

Supported Targets

- Splunk (plainqueries and dashboards)
- ElasticSearch Query Strings
- ElasticSearch Query DSL
- Kibana
- Elastic X-Pack Watcher
- Logpoint
- Microsoft Defender Advanced Threat Protection (MDATP)
- Azure Sentinel / Azure Log Analytics
- Sumologic
- ArcSight
- QRadar
- Qualys
- RSA NetWitness
- PowerShell
- Grep with Perl-compatible regular expression support
- LimaCharlie
- ee-outliers
- Structured Threat Information Expression (STIX)
- LOGIQ
- uberAgent ESA
- Devo
- LogRhythm
- Datadog Logs
- FortiSIEM
- HAWK.io MDR

New targets are continuously developed. You can get a list of supported targets with `sigmac --lists` or `sigmac -l`.

<https://github.com/SigmaHQ/sigma#supported-targets>

Sigma Rules - Structure

- It is relatively simple to use
- Yet very powerful
- Let's look at the specification and then some examples!

```
title
id [optional]
related [optional]
  - type {type-identifier}
    id {rule-id}
status [optional]
description [optional]
author [optional]
references [optional]
logsource
  category [optional]
  product [optional]
  service [optional]
  definition [optional]
  ...
detection
  {search-identifier} [optional]
    {string-list} [optional]
    {field: value} [optional]
  ...
  timeframe [optional]
  condition
fields [optional]
falsepositives [optional]
level [optional]
tags [optional]
...
[arbitrary custom fields]
```

Detection Rules: SIGMA

```
sysmon_password_dumper_lsass.yml x sysmon_susp_driver_load.yml sysmon_susp_mmc_source.y
1  title: Password Dumper Remote Thread in LSASS
2  description: Detects password dumper activity by monitoring remote thread creation EventID 8 in
   combination with the lsass.exe process as TargetImage. The process in field Process is the malicious
   program. A single execution can lead to hundrets of events.
3  author: Thomas Patzke
4  logsource:
5      product: sysmon
6  detection:
7      selection:
8          EventLog: Microsoft-Windows-Sysmon/Operational
9          EventID: 8
10         TargetProcess: 'C:\Windows\System32\lsass.exe'
11         StartModule: ''
12      condition: selection
13  falsepositives:
14      - unknown
15  level: high
16
```

Detection Rules: SIGMA

```
win_susp_lsass_dump.yml x win_susp_failed_logons_single_source.yml win_susp_failed_logon_reas
1  title: Password Dumper Activity on LSASS
2  description: Detects process handle on LSASS process with certain access mask and object type SAM_DOMAIN
3  status: experimental
4  reference: https://twitter.com/jackcr/status/807385668833968128
5  logsource:
6      product: windows
7  detection:
8      selection:
9          EventLog: Security
10         EventID: 4656
11         ProcessName: 'C:\Windows\System32\lsass.exe'
12         AccessMask: '0x705'
13         ObjectType: 'SAM_DOMAIN'
14      condition: selection
15  falsepositives:
16      - Unkown
17  level: high
18
```

Detection Rules: SIGMA

```
web_webshell_keyword.yml • win_alert_mimikatz_keywords.yml win_susp_eventlog_cleared.yml
1  title: Webshell Detection by Keyword
2  description: Detects webshells that use GET requests by keyword sarches in URL strings
3  author: Florian Roth
4  logsource:
5      type: webserver
6  detection:
7      keywords:
8          - '=whoami'
9          - '=net%20user'
10         - '=cmd%20/c%20'
11      condition: selection and keywords
12  falsepositives:
13      - Web sites like wikis with articles on os commands and pages that include the os commands in the
        URLs
14      - User searches in search boxes of the respective website
15  level: high
16
```

Detection Rules: SIGMA

```
win_susp_failed_logons_single_source.yml x win_susp_security_eventlog_cleared.yml win_susp_...
1 title: Multiple Failed Logins with Different Accounts from Single Source System
2 description: Detects suspicious failed logins with different user accounts from a single source system
3 author: Florian Roth
4 logsource:
5   product: windows
6 detection:
7   selection:
8     EventLog: Security
9     EventID:
10      - 529
11      - 4625
12      - 4776
13     UserName: not null
14     SourceWorkstation: not null
15   timeframe: last 24h
16   condition: selection | count(UserName) by SourceWorkstation > 3
17 falsepositives:
18   - Terminal servers
19   - Jump servers
20   - Other multiuser systems like Citrix server farms
21   - Workstations with frequently changing users
22 level: medium
23
```