

Feeding MISP with OSSEC

Pass-The-Salt 2024 | TLP:Clear



OSSEC

"Open Source Security Event Correlator"

- OSSEC is a comprehensive, open-source host-based intrusion detection system (HIDS).
- It is designed to monitor and analyze system logs, detect suspicious activities, and provide real-time alerts for security incidents.
- OSSEC can perform log analysis, file integrity monitoring, rootkit detection, and **active response** to mitigate threats.
- It supports various platforms including Linux, Windows, and macOS, and can be integrated with various security tools and SIEM solutions.

Active-Response

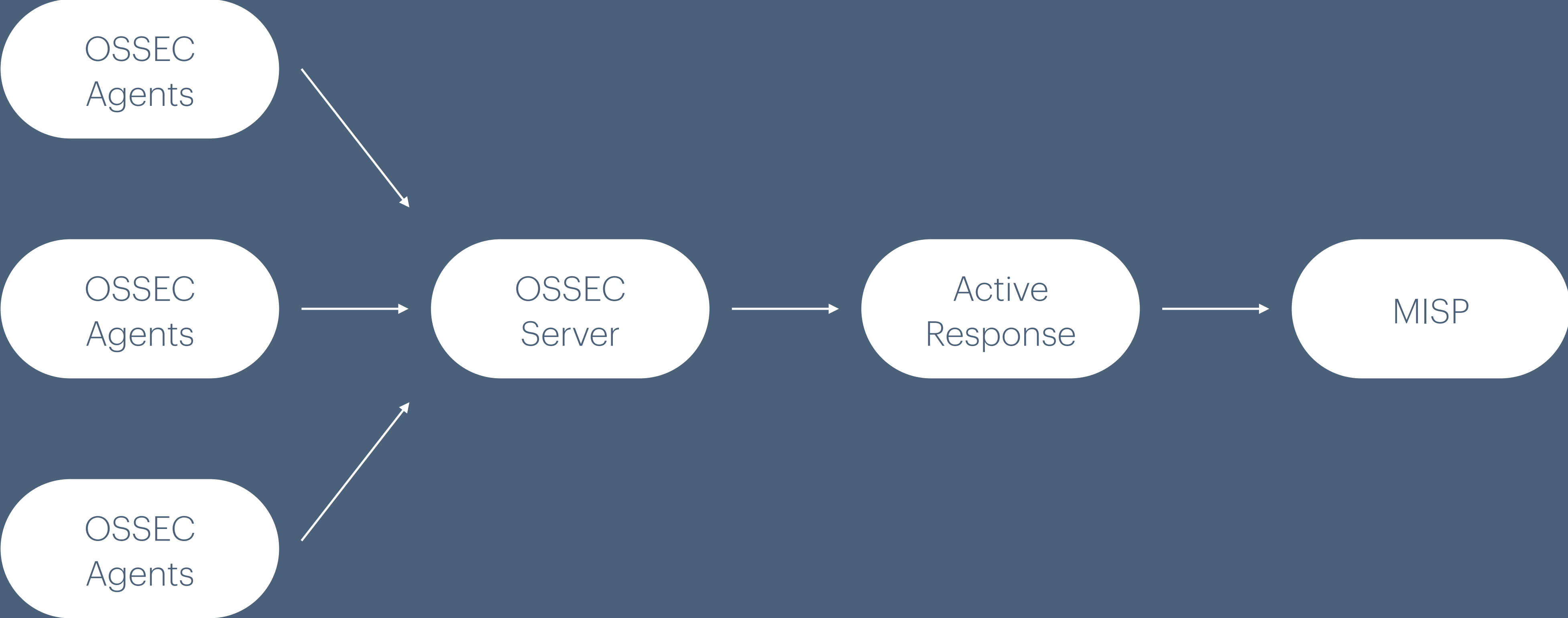
- Active-Response allows to automatically take predefined actions in response to detected security events or threats.
- When a specific rule is triggered, OSSEC can execute scripts or commands to mitigate the threat, such as blocking an IP address, disabling a user account, or restarting a service.
- This feature enhances the system's security by providing real-time, automated reactions to potential intrusions or malicious activities, reducing the window of opportunity for attackers to exploit vulnerabilities.

MISP

(No need to introduce the projet 😜)

Automation

Because we are (again) lazy!



- Step 1 - Define the Active-Response rule

```
<active-response>  
  <disabled>no</disabled>  
  <command>ossec2misp</command>  
  <location>server</location>  
  <rules_id>100213,100201,31509</rules_id>  
</active-response>
```

- Step 2 - Define hunting rules

```
<!-- WordPress wp-login.php brute force -->  
  <rule id="31509" level="3">  
    <if_sid>31108</if_sid>  
    <url>wp-login.php|/administrator</url>  
    <regex>] "POST \S+wp-login.php| "POST /administrator</regex>  
    <description>CMS (WordPress or Joomla) login attempt.</description>  
  </rule>
```

- Step 3 - Define the script to trigger

```
<command>  
  <name>ossec2misp</name>  
  <executable>ossec2misp.py</executable>  
  <expect>srcip</expect>  
  <timeout_allowed>no</timeout_allowed>  
</command>
```

- Step 4 - Configure the script

```
misp_url      = "https://misp.domain.tld"
misp_key      = "<redacted>"
misp_verifycert = True
misp_info     = "OSSEC ActiveResponse" # Event title
misp_last     = "30d"                  # Max period to search for IP
address
misp_new_event = False                 # Force the creation of a new event for every report
misp_distribution = 0                 # The distribution setting used for the newly created
                                     # event, if relevant. [0-3]
misp_analysis = 1                     # The analysis level of the newly created event, if
applicable. [0-2]
misp_threat   = 3                     # The threat level ID of the newly created event, if
applicable. [1-4]
misp_tags     = [ "source:OSSEC" ]    # Tags for the newly created event, if applicable
misp_publish  = True                  # Automatically publish the event
syslog_server = "192.168.1.1"         # If defined, enable syslog logging
redis_server  = "redis"               # Redis server hostname/ip
redis_port    = 6379                  # Redis server port
redis_db      = 0                     # Redis server db
```

<input type="checkbox"/>	Date ↑	Category	Type	Value	Tags	Galaxies	Comment	Correlate	Related Events	Feed hits	IDS	Distribution	Sightings	Activity	Actions
<input type="checkbox"/>	2024-05-30*	Network activity	ip-src	4.241.19.199	+ +	+ +	Source: (lisa), Rule: 31509	<input checked="" type="checkbox"/>	🔍		<input checked="" type="checkbox"/>	Inherit	 (36/0/0)		
<input type="checkbox"/>	2024-05-30*	Network activity	ip-src	8.217.209.92	+ +	+ +	Source: (lisa), Rule: 31509	<input checked="" type="checkbox"/>	🔍		<input checked="" type="checkbox"/>	Inherit	 (553/0/0)		
<input type="checkbox"/>	2024-05-30*	Network activity	ip-src	188.166.1.163	+ +	+ +	Source: (lisa), Rule: 31509	<input checked="" type="checkbox"/>	186942 🔍		<input checked="" type="checkbox"/>	Inherit	 (380/0/0)		
<input type="checkbox"/>	2024-05-30*	Network activity	ip-src	34.139.64.169	+ +	+ +	Source: (lisa), Rule: 31509	<input checked="" type="checkbox"/>	🔍		<input checked="" type="checkbox"/>	Inherit	 (366/0/0)		
<input type="checkbox"/>	2024-05-30*	Network activity	ip-src	162.214.197.33	+ +	+ +	Source: (lisa), Rule: 31509	<input checked="" type="checkbox"/>	🔍		<input checked="" type="checkbox"/>	Inherit	 (344/0/0)		
<input type="checkbox"/>	2024-05-30*	Network activity	ip-src	138.68.129.241	+ +	+ +	Source: (lisa), Rule: 31509	<input checked="" type="checkbox"/>	🔍		<input checked="" type="checkbox"/>	Inherit	 (215/0/0)		
<input type="checkbox"/>	2024-05-30*	Network activity	ip-src	165.22.19.20	+ +	+ +	Source: (lisa), Rule: 31509	<input checked="" type="checkbox"/>	🔍		<input checked="" type="checkbox"/>	Inherit	 (314/0/0)		
<input type="checkbox"/>	2024-05-30*	Network activity	ip-src	2a00:1a28:155d:1f5::1	+ +	+ +	Source: (lisa), Rule: 31509	<input checked="" type="checkbox"/>	🔍		<input checked="" type="checkbox"/>	Inherit	 (398/0/0)		
<input type="checkbox"/>	2024-05-30*	Network activity	ip-src	148.66.130.195	+ +	+ +	Source: (lisa), Rule: 31509	<input checked="" type="checkbox"/>	🔍		<input checked="" type="checkbox"/>	Inherit	 (352/0/0)		
<input type="checkbox"/>	2024-05-30*	Network activity	ip-src	2001:41d0:1008:1e04::	+ +	+ +	Source: (lisa), Rule: 31509	<input checked="" type="checkbox"/>	🔍		<input checked="" type="checkbox"/>	Inherit	 (673/0/0)		
<input type="checkbox"/>	2024-05-30*	Network activity	ip-src	139.196.113.223	+ +	+ +	Source: (lisa), Rule: 31509	<input checked="" type="checkbox"/>	🔍		<input checked="" type="checkbox"/>	Inherit	 (347/0/0)		
<input type="checkbox"/>	2024-05-30*	Network activity	ip-src	128.199.16.50	+ +	+ +	Source: (lisa), Rule: 31509	<input checked="" type="checkbox"/>	🔍		<input checked="" type="checkbox"/>	Inherit	 (341/0/0)		
<input type="checkbox"/>	2024-05-30*	Network activity	ip-src	182.43.230.63	+ +	+ +	Source: (lisa), Rule: 31509	<input checked="" type="checkbox"/>	🔍		<input checked="" type="checkbox"/>	Inherit	 (213/0/0)		

Thank You

<https://github.com/xme/ossec/blob/main/ossec2misp.py>

Need more info? Catch me!