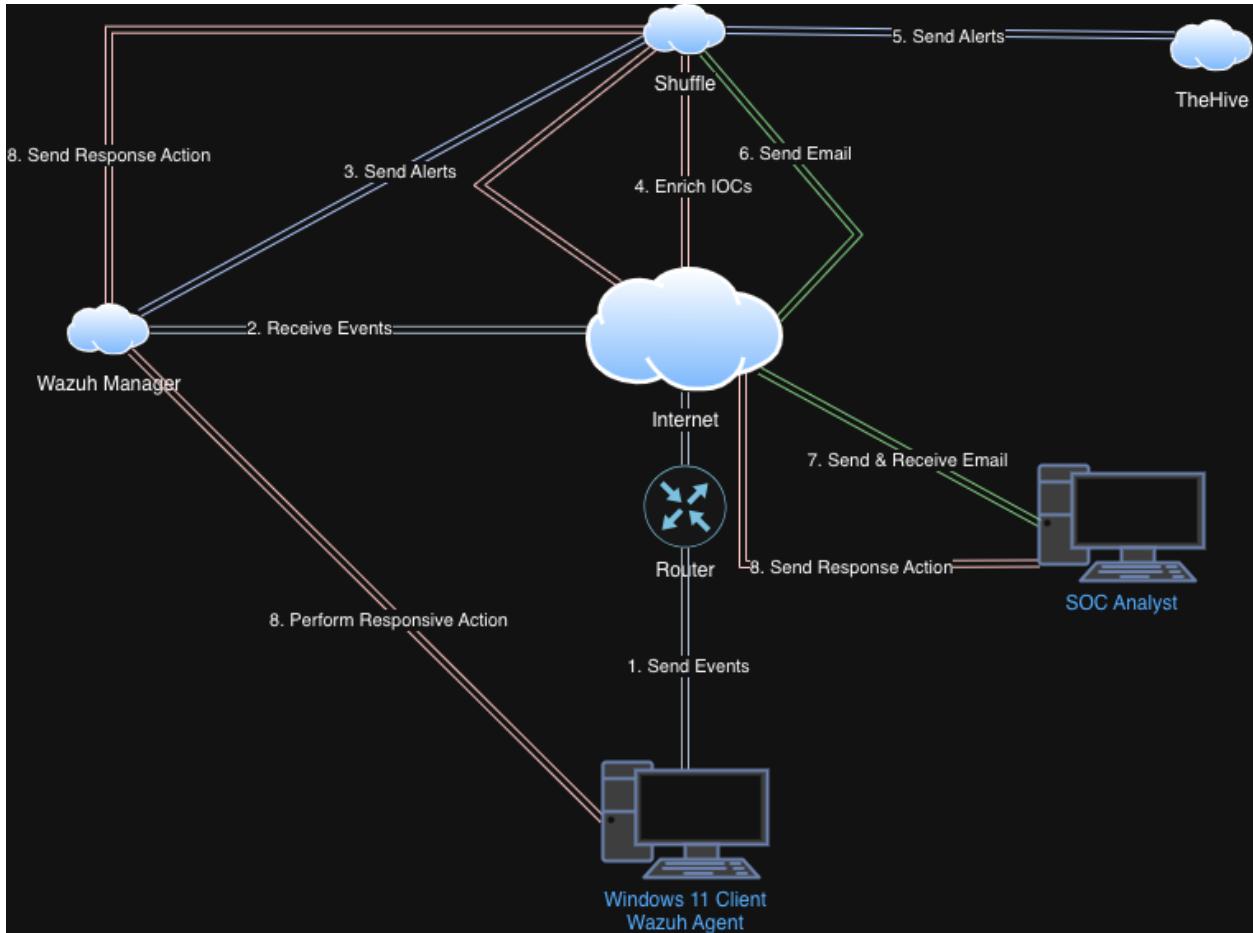


SOC Automation Project:

Simulated Mimikatz

Credential Dumping

High-Level Architecture Diagram:



Tools Used

VirtualBox VM – Client machine running Windows 10

Wazuh – Open Source XDR and SIEM capabilities in one solution

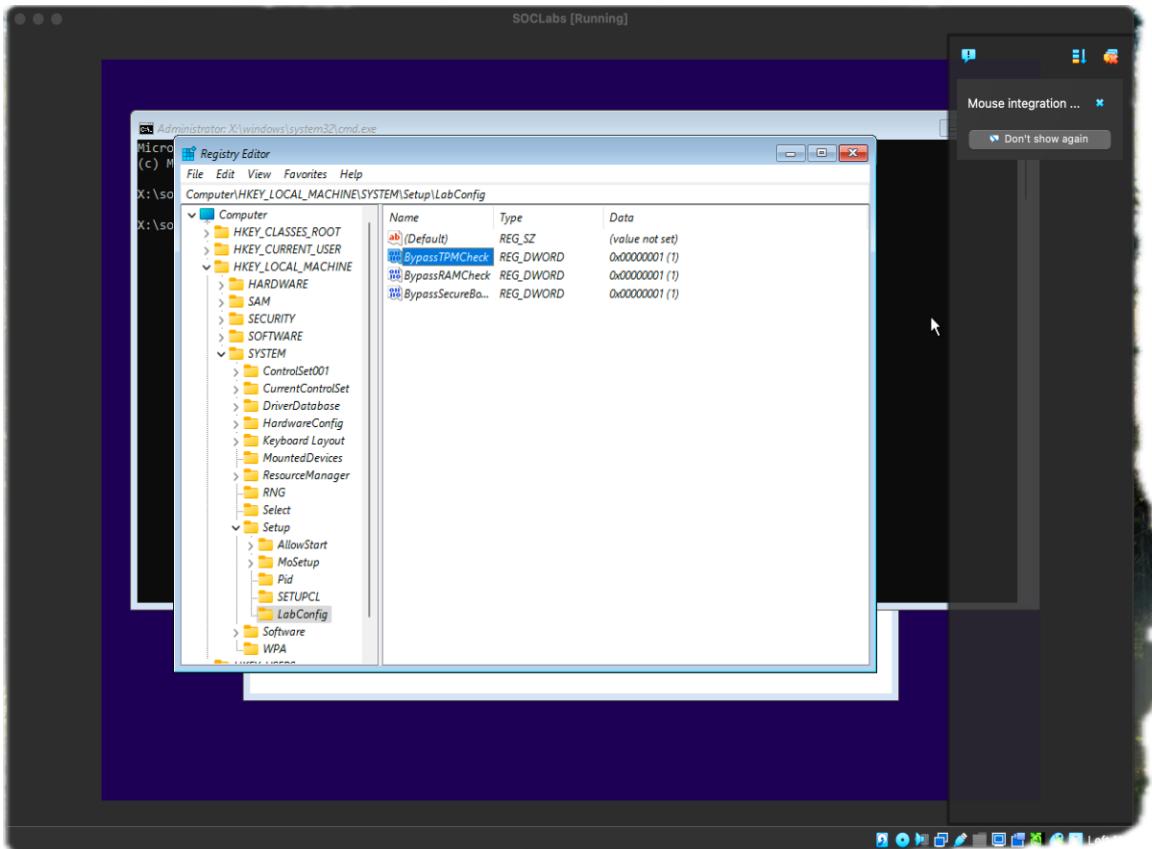
The Hive – Case Management System

Ubuntu 22.04 - Utilized for The Hive and Wazuh

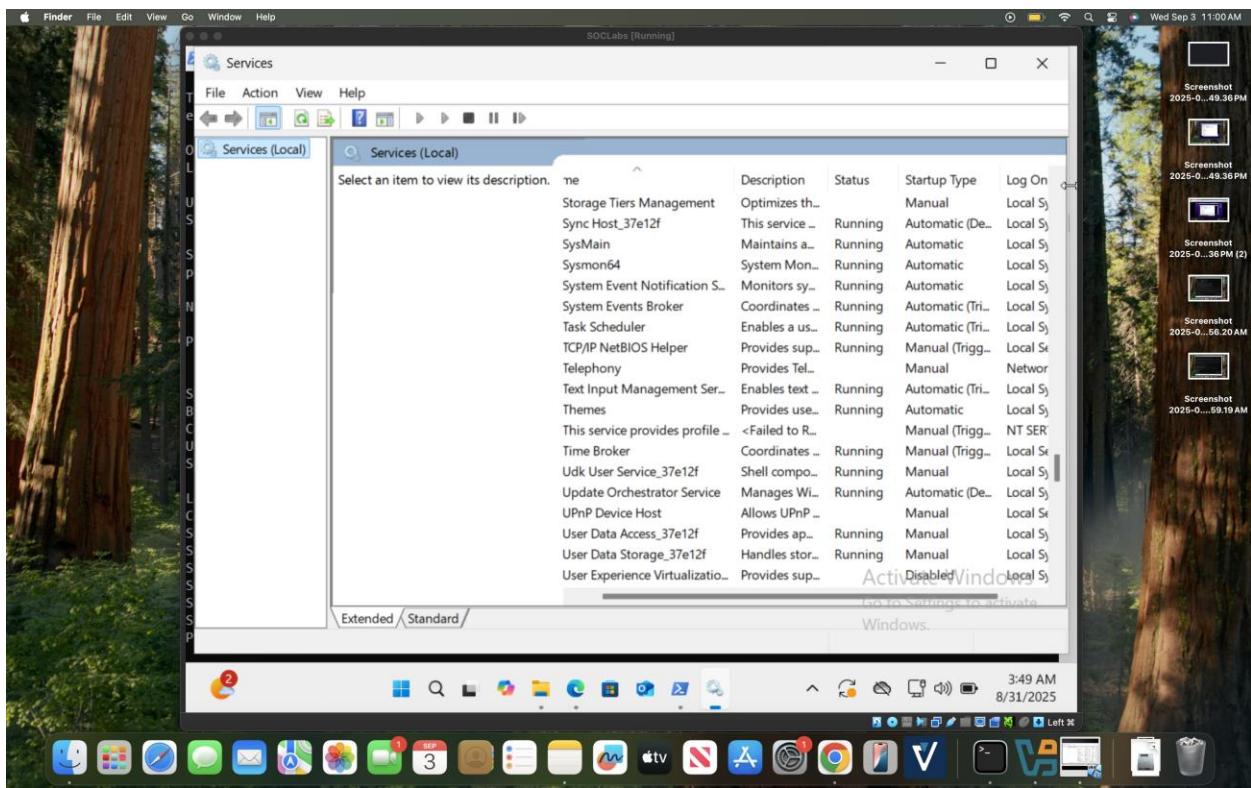
Sysmon (Enhanced Process Monitoring) - Sysmon logs detailed information about process creations, including the parent process, command line arguments, and hashes, allowing for better visibility into potentially malicious activities. Downloaded on the Windows 10 Client.

Shuffle (SOAR) – Used to create automated workflows by integrating webhooks together.

Description: Downloading windows 10 onto client. To bypass TPM and allow installation, configured setup.



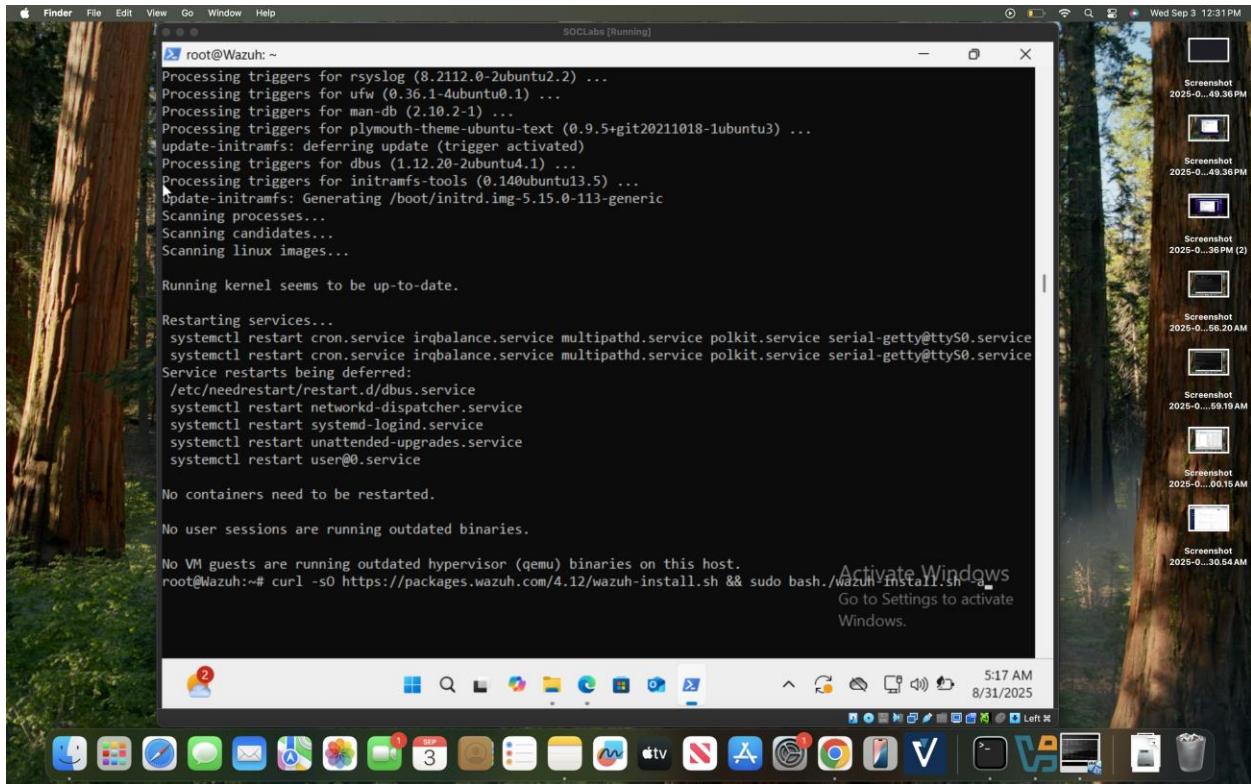
Description: Downloading Sysmon onto client and starting services.



Description: Creating Droplets on Digital Ocean and setting up firewall rules for both The Hive and Wazuh.

The screenshot shows the DigitalOcean Firewall configuration interface. On the left, a sidebar lists various project and management options. The main area is titled "Inbound Rules" and contains a table with two entries: "All TCP" (Protocol: TCP, Port Range: All ports, Sources: 107.212.24.97) and "All UDP" (Protocol: UDP, Port Range: All ports, Sources: 107.212.24.97). A "Create" button is available to add new rules. Below this is the "Outbound Rules" section, which also contains a table with three entries: "ICMP" (Protocol: ICMP, Port Range: All ports, Destinations: All IPv4, All IPv6), "All TCP" (Protocol: TCP, Port Range: All ports, Destinations: All IPv4, All IPv6), and "All UDP" (Protocol: UDP, Port Range: All ports, Destinations: All IPv4, All IPv6). A "Create" button is also present here.

Description: Installing Wazuh and setting up for The Hive.



Description: Configuring Cassandra: changing listen, RPC address, and seed address to public IP of The Hive.

```

-- root@thehive: ~ -- ssh root@157.245.4.128
/etc/cassandra/cassandra.yaml
+-----+-----+

```

```

GNU nano 6.2
# Cassandra storage config YAML

# NOTE:
#   See https://cassandra.apache.org/doc/latest/configuration/ for
#   full explanations of configuration directives
# /NOTE

# The name of the cluster. This is mainly used to prevent machines in
# one logical cluster from joining another.
cluster_name: 'Mybox'

# This defines the number of tokens randomly assigned to this node on the ring
# The more tokens, relative to other nodes, the larger the proportion of data
# each this node will store, probably resulting in it having the same number
# of tokens assuming they have equal hardware capabilities
#
# If you leave this unspecified, Cassandra will use the default of 1 token for legacy compatibility,
# and will use the initial_token as described below.

# Specifying initial_token will override this setting on the node's initial start,
# on subsequent starts, this setting will apply even if initial token is set.
#
# See https://cassandra.apache.org/doc/latest/getting_started/production.html#tokens for
# best practice information about num_tokens.
#
# num_tokens: 10

# Triggers automatic allocation of num_tokens tokens for this node. The allocation
# algorithm attempts to choose tokens in a way that optimizes replicated load over
# the nodes in the datacenter for the replica factor.
#
# The load assigned to each node will be close to proportional to its number of
# vnodes.
#
# Only supported with the Murmur3Partitioner.
#
# Replica factor is determined via the replication strategy used by the specified
# Keyspace.
# allocate_tokens_for_keyspace: KEYSPACE

# Replica factor is explicitly set, regardless of keyspace or datacenter.
# This is the replica factor within the datacenter, like NTS.
allocate_tokens_for_local_replication_factor: 3

# initial_token allows you to specify tokens manually. While you can use it with
# num_tokens, it is recommended that you use num_tokens, as you should provide
# a comma-separated list. It's primarily used when adding nodes to legacy clusters
# that do not have vnodes enabled.
# initial_token:

# May either be "true" or "false" to enable globally
hinted_handoff_enabled: true

# When hinted_handoff_enabled is true, a black list of data centers that will not
# perform hinted handoff
# hinted_handoff_disabled_datacenters:
#   - DC1
#   - DC2

# this defines the maximum amount of time a dead host will have hints
# generated. After it has been dead this long, new hints for it will not be
# generated until it has been seen alive and gone down again.
# Min unit: 1ms
max_hint_window: 3h

# Maximum throttle in KiB/s per second, per delivery thread. This will be
# reduced proportionally to the number of nodes in the cluster. (If there
# are two nodes in the cluster, each delivery thread will use the maximum
# throttle of 1KiB/s. If there are four nodes, each delivery thread will use
# 0.5KiB/s, and so on)
# Min unit: 1KiB
hinted_handoff_throttle: 1024KiB

```

[Read 1877 lines]

```

Help   Write Out  Where Is  Cut  Execute  Location  Undo  Set Mark  To Bracket  Previous  Back  Prev Word  Home
Exit   Read File  Replace  Paste  Justify  Go To Line  Redo  Copy  where Was  Next  Forward  End  Next Word  End  Prev Line

```

Description: Updating Elasticsearch configuration by changing the network host to the Hive IP address, uncommenting and configuring the HTTP port, setting cluster.initial_master_nodes to node-1, and defining discovery seed hosts to support

cluster scaling. Starting Elasticsearch and verifying that the service is running and accessible.

```
GNU nano 6.2
# ===== Elasticsearch Configuration =====
#
# NOTE: Elasticsearch comes with reasonable defaults for most settings.
#       Before you set out to tweak and tune the configuration, make sure you
#       understand what are you trying to accomplish and the consequences.
#
# The primary way of configuring a node is via this file. This template lists
# the most important settings you may want to configure for a production cluster.
#
# Please consult the documentation for further information on configuration options:
# https://www.elastic.co/guide/en/elasticsearch/reference/index.html
#
# ----- Cluster -----
#
# Use a descriptive name for your cluster:
#
cluster.name: thehive
#
# ----- Node -----
#
# Use a descriptive name for the node:
#
node.name: node-1
#
# Add custom attributes to the node:
#
#node.attr.rack: r1
#
# ----- Paths -----
#
# Path to directory where to store the data (separate multiple locations by comma):
#
path.data: /var/lib/elasticsearch
#
# Path to log files:
#
path.logs: /var/log/elasticsearch
#
# ----- Memory -----
#
# Lock the memory on startup:
#
#bootstrap.memory_lock: true
#
# Make sure that the heap size is set to about half the memory available
# on the system and that the owner of the process is allowed to use this
# limit.
#
# Elasticsearch performs poorly when the system is swapping the memory.
#
# ----- Network -----
#
# By default Elasticsearch is only accessible on localhost. Set a different
# address here to expose this node on the network:
#
#network.host: 157.245.4.128
#
# By default Elasticsearch listens for HTTP traffic on the first free port it
# finds starting at 9200. Set a specific HTTP port here:
#
#http.port: 9200
```

Description: Configuring TheHive by updating application.conf, changing the hostname to the Hive public IP address, updating the cluster name from Cassandra, setting the application base URL to the Hive public IP, and starting and enabling TheHive service.

```

GNU nano 6.2
# TheHive configuration - application.conf
#
#
# This is the default configuration file.
# This is prepared to run with all services locally:
# - Cassandra for the database
# - Elasticsearch for index engine
# - File storage is local in /opt/thp/thehive/files
#
# If this is not your setup, please refer to the documentation at:
# https://docs.strangebee.com/thehive/
#
#
# Secret key - used by Play Framework
# If TheHive is installed with DEB/RPM package, this is automatically generated
# If Thehive is not installed from DEB or RPM packages run the following
# command before starting thehive:
# cat > /etc/thehive/secret.conf << _EOF_
# play.http.secret.key=$(cat /dev/urandom | tr -dc 'a-zA-Z0-9' | fold -w 64 |#   head -n 1)"
# _EOF_
include "/etc/thehive/secret.conf"

# Database and index configuration
# By default, TheHive is configured to connect to local Cassandra 4.x and a
# local Elasticsearch services without authentication.
db.janusgraph {
  storage {
    backend = cql
    hostname = ["157.245.4.128"]
    # Cassandra authentication (if configured)
    # username = "thehive"
    # password = "password"
    cql {
      cluster-name = MySoc
      keyspace = thehive
    }
  }
  index.search {
    backend = elasticsearch
    hostname = ["157.245.4.128"]
    index-name = thehive
  }
}

# Attachment storage configuration
# By default, TheHive is configured to store files locally in the folder.
# The path can be updated and should belong to the user/group running thehive service. (by default: thehive:thehive)
storage {
  provider = localfs
  localfs.location = /opt/thp/thehive/files
}

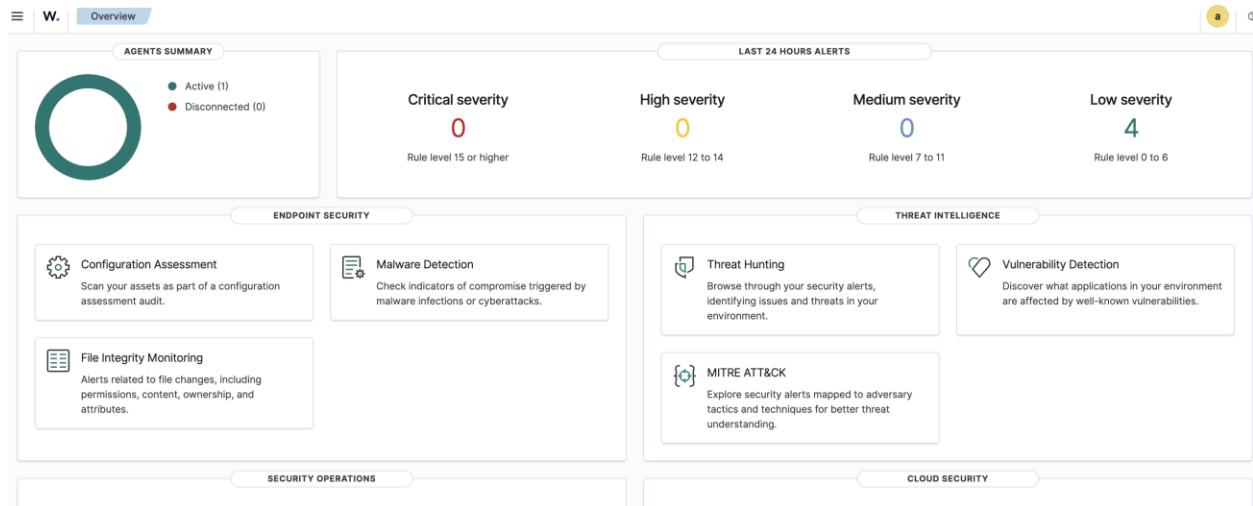
# Define the maximum size for an attachment accepted by TheHive
play.http.parser.maxDiskBuffer = 1GB
# Define maximum size of http request (except attachment)
play.http.parser.maxMemoryBuffer = 10M

# Service configuration
application.baseUrl = "http://157.245.4.128:9000"
play.http.context = "/"

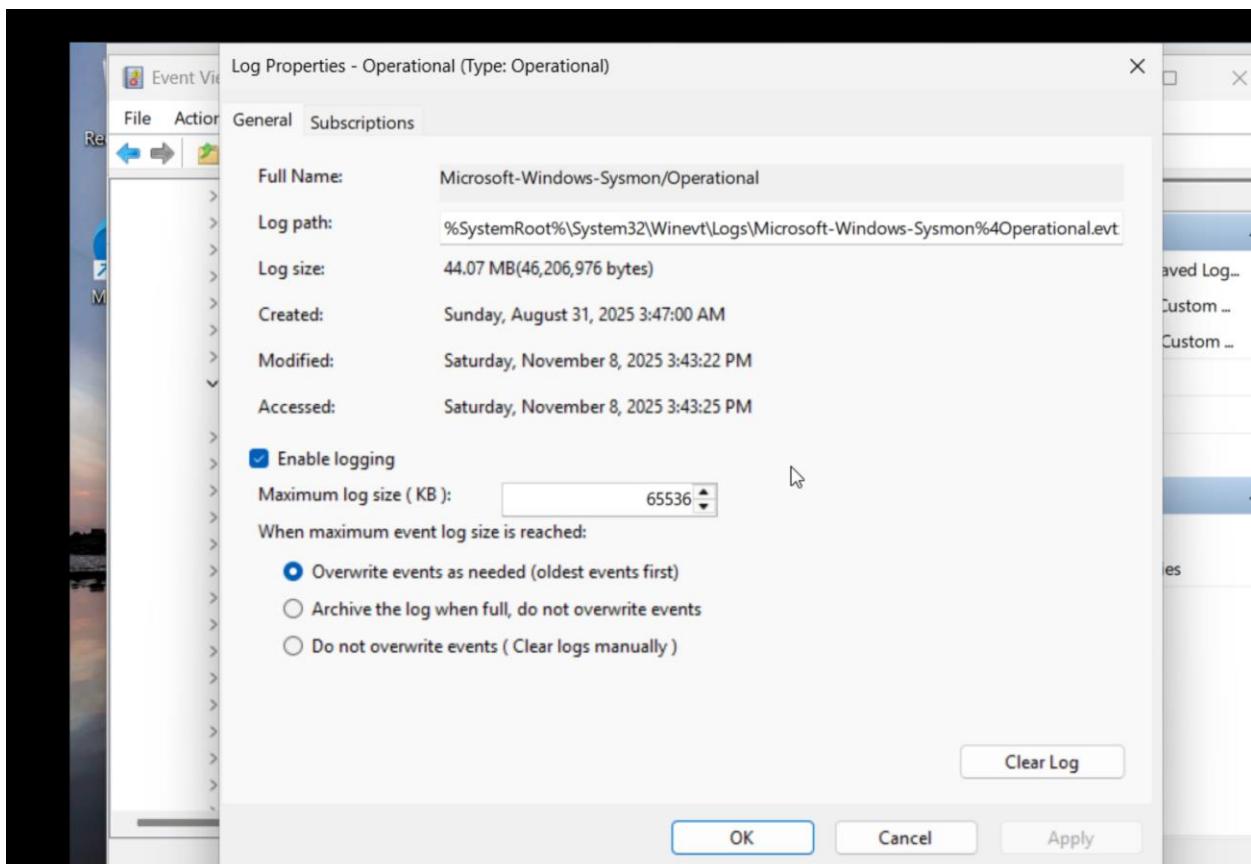
# Additional modules
#
# TheHive is strongly integrated with Cortex and MISP.
# Both modules are enabled by default. If not used, each one can be disabled by
# uncommenting the configuration line.
scalligraph.disabledModules += org.thp.thehive.connector.cortex.CortexModule
scalligraph.disabledModules += org.thp.thehive.connector.misp.MispModule

```

Description: Configuring Wazuh and integrating it with the virtual machine.



Description: Finding Sysmon event properties in Event Viewer to correctly map and name Event IDs in the OSSEC configuration file.



```
File Edit View
<queue_size>5000</queue_size>
<events_per_second>500</events_per_second>
</client_buffer>

<!-- Log analysis -->
<localfile>
    <location>Microsoft-Windows-Sysmon/Operational</location>
    <log_format>eventchannel</log_format>
</localfile>

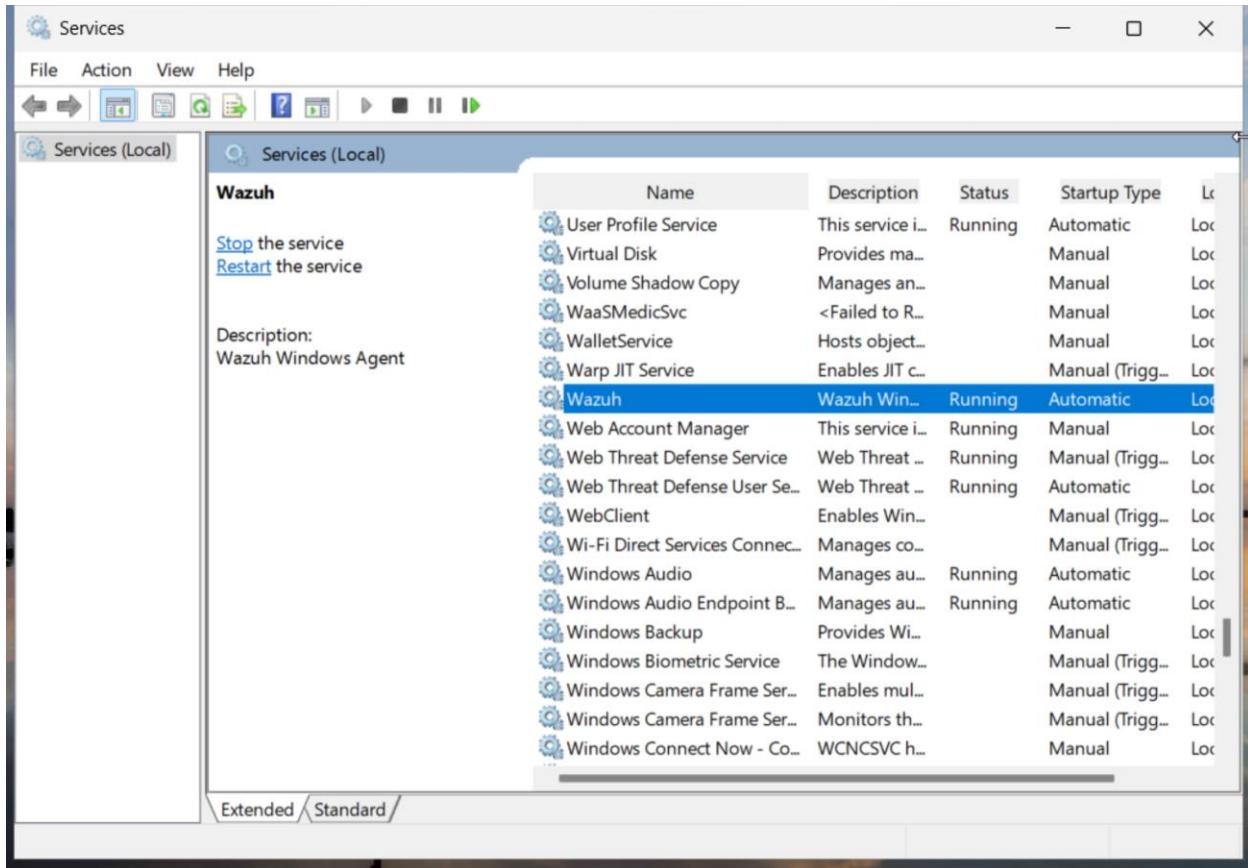
<localfile>
    <location>Application</location>
    <log_format>eventchannel</log_format>
</localfile>

<localfile>
    <location>active-response\active-responses.log</location>
    <log_format>syslog</log_format>
</localfile>

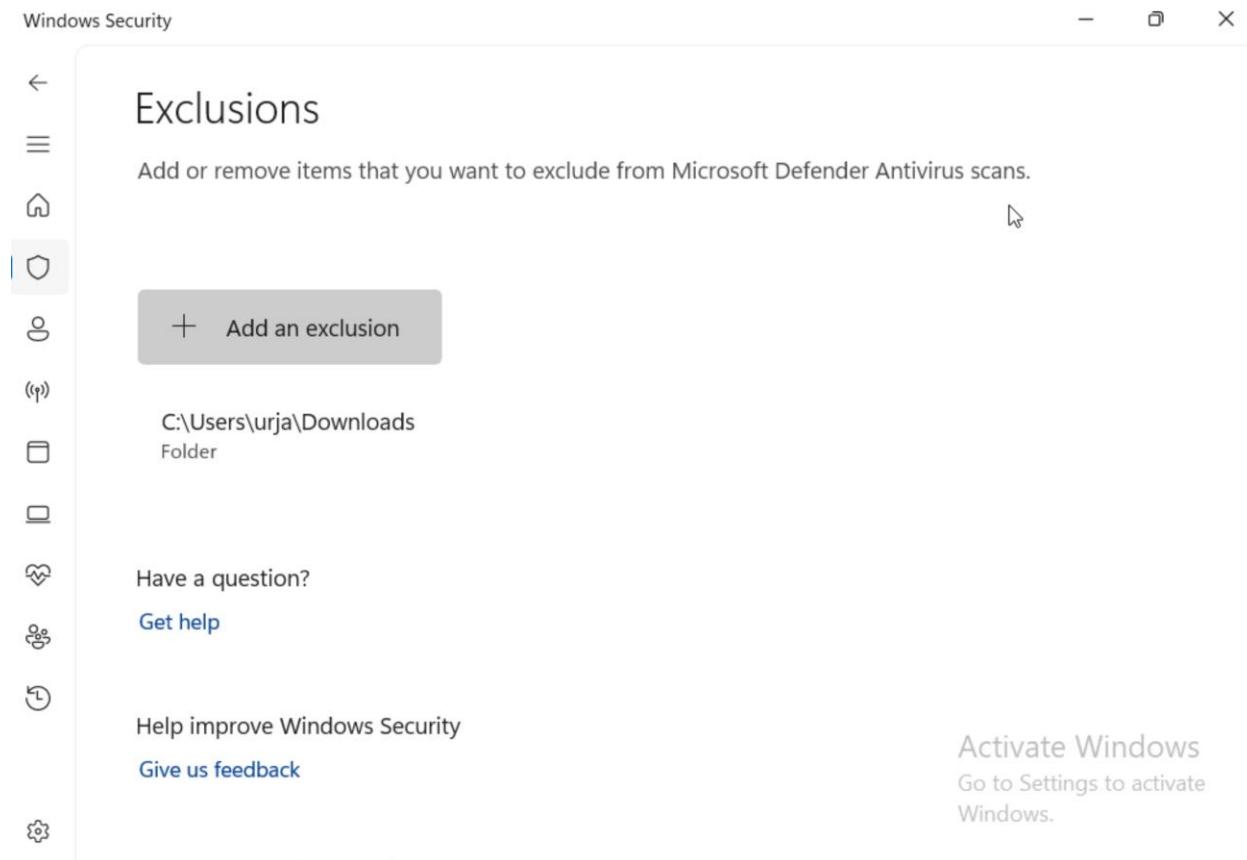
<!-- Policy monitoring -->
<rootcheck>
    <disabled>no</disabled>
    <windows_apps>./shared/win_applications_rcl.txt</windows_apps>
    <windows_malware>./shared/win_malware_rcl.txt</windows_malware>
</rootcheck>

Ln 1, Col 1 | 9,264 characters | Plain text | 100% | Windows (C:\Windows\system32\cmd.exe)
```

Description: Restarting Wazuh services.



Description: Excluding downloads folder in exclusions on security settings of VM to be able to download Mimikatz.



Description: Configuring the Wazuh manager by updating the OSSEC configuration file, setting logall to yes, and restarting services. Enabling logall capabilities is allowing Wazuh to log all events under the archive.

```

wazuh menu 0-2
[1] Wazuh - Manager - Default configuration for ubuntu 22.04
More info at: https://documentation.wazuh.com
Mailing list: https://groups.google.com/forum/#forum/wazuh
-->

ossec_config
<global>
  <syslog_output>yes</syslog_output>
  <alerts_log>yes</alerts_log>
  <log_all>yes</log_all>
  <log_level>INFO</log_level>
  <email_notification>no</email_notification>
  <smtplib_server>smtp.example.wazuh.com</smtplib_server>
  <email_from>root@example.wazuh.com</email_from>
  <email_to>root@example.wazuh.com</email_to>
  <email_maxperhour>12</email_maxperhour>
  <email_log_source>alerts.log</email_log_source>
  <agents_disconnection_alert_time></agents_disconnection_alert_time>
  <agents_disconnect_alert_time></agents_disconnect_alert_time>
  <update_check>yes</update_check>
</global>

<alerts>
  <log_alert_level>2</log_alert_level>
  <mail_alert_level>2</mail_alert_level>
</alerts>

<!-- Choose between "plain", "json", or "plain,json" for the format of internal logs -->
<logging>
  <log_format>plain</log_format>
</logging>

<remote>
  <connection>securc</connection>
  <protocol>tcp</protocol>
  <queue_size>131072</queue_size>
</remote>

<!-- Policy monitoring -->
<rootcheck>
  <disabled>no</disabled>
  <check_files>yes</check_files>
  <check_trojans>yes</check_trojans>
  <check_daemons>yes</check_daemons>
  <check_syscalls>yes</check_syscalls>
  <check_pids>yes</check_pids>
  <check_ports>yes</check_ports>
  <check_ifs>yes</check_ifs>
</rootcheck>

<!-- Frequency the rootcheck is executed - every 12 hours -->
<frequency>43200</frequency>

<rootkit_files>etc/rootcheck/rootkit_files.txt</rootkit_files>
<rootkit_trojans>etc/rootcheck/rootkit_trojans.txt</rootkit_trojans>
<skip_nfsv>yes</skip_nfsv>
<ignore>/var/lib/containersd/ignore</ignore>
<ignore>/var/lib/docker/overlay2/ignore</ignore>

```

Description: Viewing archive.log in /var/ossec/logs/archives using cat to verify that Wazuh is logging events under the archive.

```
[root@Wazuh /var/log/wazuh/agent]#
```

```
GNU nano 6.2
# Wazuh - Filebeat configuration file
output.elasticsearch.hosts:
  - 127.0.0.1:9200
#      - <elasticsearch_ip_node_2>:9200
#      - <elasticsearch_ip_node_3>:9200

output.elasticsearch:
  protocol: https
  username: ${username}
  password: ${password}
  ssl.certificateAuthorities:
    - /etc/filebeat/certs/root-ca.pem
  ssl.certificate: "/etc/filebeat/certs/wazuh-server.pem"
  ssl.key: "/etc/filebeat/certs/wazuh-server-key.pem"
setup.template.json.enabled: true
setup.template.json.path: '/etc/filebeat/wazuh-template.json'
setup.template.json.name: 'wazuh'
setup.ilm.overwrite: true
setup.ilm.enabled: false

filebeat.modules:
  - module: wazuh
    alerts:
      enabled: true
    archives:
      enabled: true

logging.level: info
logging.to_files: true
logging.files:
  path: /var/log/filebeat
  name: filebeat
  keepfiles: 7
  permissions: 0644

logging.metrics.enabled: false

seccomp:
  default_action: allow
  syscalls:
    - action: allow
      names:
        - rseq
```

Description: Defining an index pattern in Dashboard Management for indexing and searching logs.

Create index pattern - Wazuh

Not Secure https://104.131.168.175/app/management/opensearch-dashboards/indexPatterns/create

GoodTherapy | Self-Esteem Journal CSelPub - Electron... Resume things

W. Dashboards Ma... Index patterns Create index pattern

Dashboards Management

Index patterns

Data sources
Saved objects
Advanced settings

Create index pattern

An index pattern can match a single source, for example, filebeat-4-3-22, or **multiple** data sources, filebeat-*.

[Read documentation](#)

Step 1 of 2: Define an index pattern

Index pattern name: wazuh-archives-*

Use an asterisk (*) to match multiple indices. Spaces and the characters \, /, ?, *, <, >, | are not allowed.

Include system and hidden indices

Your index pattern matches 15 sources.

wazuh-archives-4.x-2025.11.10	Index
wazuh-archives-4.x-2025.11.11	Index
wazuh-archives-4.x-2025.11.12	Index
wazuh-archives-4.x-2025.11.13	Index
wazuh-archives-4.x-2025.11.14	Index
wazuh-archives-4.x-2025.11.15	Index
wazuh-archives-4.x-2025.11.16	Index
wazuh-archives-4.x-2025.11.17	Index
wazuh-archives-4.x-2025.11.18	Index
wazuh-archives-4.x-2025.11.19	Index

Rows per page: 10 < 1 2 >

Next step >

Create index pattern - Wazuh

Not Secure https://104.131.168.175/app/management/opensearch-dashboards/indexPatterns/create

GoodTherapy | Self-Esteem Journal CSelPub - Electron... Resume things

W. Dashboards Ma... Index patterns Create index pattern

Dashboards Management

Index patterns

Data sources
Saved objects
Advanced settings

Create index pattern

An index pattern can match a single source, for example, filebeat-4-3-22, or **multiple** data sources, filebeat-*.

[Read documentation](#)

Step 2 of 2: Configure settings

Specify settings for your **wazuh-archives-*** index pattern.

Select a primary time field for use with the global time filter.

Time field: timestamp Refresh

Show advanced settings

< Back Create index pattern

Discover - Wazuh

Not Secure https://104.131.168.175/app/data-explorer/discover#_a=(discover:(columns:_source),isDirty:false,sort:[{}]),metadata:{indexPattern:bca5410-c94c-11f0-aeb8-5928dfab88a7,viewId:104.131.168.175/app/data-explorer/_source},query:{size:100,query:{}}&_a=(discover:(columns:_source),isDirty:false,sort:[{}]),metadata:{indexPattern:bca5410-c94c-11f0-aeb8-5928dfab88a7,viewId:104.131.168.175/app/data-explorer/_source},query:{size:100,query:{}})

New Save Open Share Reporting Inspect

mimikatz

DQL Last 24 hours Show dates Refresh

2 hits

Nov 23, 2025 @ 11:12:16.121 - Nov 24, 2025 @ 11:12:16.121 per Auto

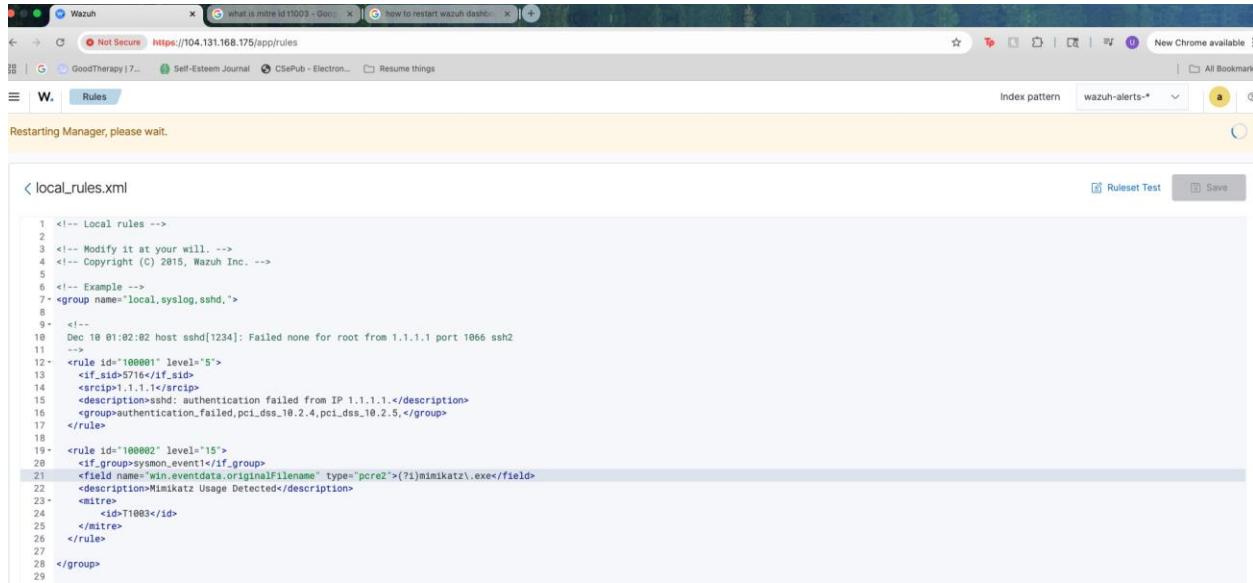
Count

Time _source

Nov 24, 2025 @ 11:11:55.408 agent.ip: 10.8.2.15 agent.name: DESKTOP-43711E6 agent.id: 801 manager.name: Wazuh data.win.eventdata.originalFileName: mimikatz.exe data.win.eventdata.image: C:\Users\urj\Downloads\mimikatz_trunk\x64\mimikatz.exe data.win.eventdata.product: mimikatz data.win.eventdata.imageLoaded: C:\Users\urj\Downloads\mimikatz_trunk\x64\mimikatz.exe data.win.eventdata.description: mimikatz for Windows data.win.eventdata.signed: false data.win.eventdata.signatureStatus: Unavailable data.win.eventdata.processGuid: {fb82638e-1712-6928-9783-000000000000} data.win.eventdata.processId: 912 data.win.eventdata.utcTime: 2025-11-21 07:38:58.549 data.win.eventdata.hashCode: SHA1+E396EABC46FA831CEC6F235A5C48B38A44E8D09, MD5-29FD040D3C7FE12B02287AD7A1A85, SHA256-61C0B10A23580CF429268A4F705456618833177A134C968C2D6

Nov 24, 2025 @ 11:11:55.408 agent.ip: 10.8.2.15 agent.name: DESKTOP-43711E6 agent.id: 801 manager.name: Wazuh data.win.eventdata.originalFileName: mimikatz.exe data.win.eventdata.image: C:\Users\urj\Downloads\mimikatz_trunk\x64\mimikatz.exe data.win.eventdata.product: mimikatz data.win.eventdata.parentProcessGuid: {fb82638e-0b3d-6928-cb24-0c0000000000} data.win.eventdata.parentCommandLine: '\Windows\System32\WindowsPowerShell\v1.0\powershell.exe' data.win.eventdata.processGuid: {fb82638e-1712-6928-9783-000000000000} data.win.eventdata.logId: x24cb data.win.eventdata.parentProcessId: 2428 data.win.eventdata.processId: 912 data.win.eventdata.currentDirectory: C:\Users\urj\Downloads\mimikatz_trunk\x64\

Description: Editing local rules to add a detection for Mimikatz. Triggering the rule when the original file name for Mimikatz appears in Sysmon Event ID 1 (process creation). Mapping the detection to the MITRE ATT&CK framework under T1003 – OS Credential Dumping.



```
1 <!-- Local rules -->
2
3 <!-- Modify it at your will. -->
4 <!-- Copyright (C) 2015, Wazuh Inc. -->
5
6 <!-- Example -->
7 <group name="local syslog sshd">
8
9 <!--
10 Dec 10 01:02:02 host sshd[1234]: Failed none for root from 1.1.1.1 port 1066 ssh2
11
12 <rule id="100001" level="5">
13   <if_sid>5716</if_sid>
14   <srcip>1.1.1.1</srcip>
15   <description>sshd: authentication failed from IP 1.1.1.1.</description>
16   <group>authentication_failed,pci_dss_10.2.4,pci_dss_10.2.5,</group>
17 </rule>
18
19 <rule id="100002" level="15">
20   <if_group>sysmon.event</if_group>
21   <field name="win.eventdata.originalFilename" type="pcre2">>(?!mimikatz\.exe</field>
22   <description>Mimikatz Usage Detected</description>
23   <mitre>
24     <id>T1003</id>
25   </mitre>
26 </rule>
27
28 </group>
29
```

Description: Restarting the Wazuh dashboard and executing Mimikatz again on the Windows machine. Using the Discover function to verify that the Mimikatz detection rule is generated.

Discover - Wazuh

Not Secure https://104.131.168.175/app/data-explorer/discover#_a=(discover:(columns:!(_source),isDirty:false,sort:[!{}]),metadata:(indexPattern:wazuh-alerts-*),view:discover)&_q=(filters:[!{}],query:[],script:[],size:10,sort:[],timeRange:[start:'Nov 23, 2025 @ 11:58:19.247',end:'Nov 24, 2025 @ 11:58:19.247',timeUnit:'Auto',timeZone:'UTC'],version:1)

W. Discover

mimikatz

DQL Last 24 hours Show dates Refresh

Selected fields: _source

Available fields: _index, agent.id, agent.ip, agent.name, data.dsuser, data.level, data.srip, data.srpport, data.uid, data.win.eventdata.callTrace, data.win.eventdata.commandLine, data.win.eventdata.company, data.win.eventdata.creationUtcTime, data.win.eventdata.currentDirectory, data.win.eventdata.description, data.win.eventdata.details, data.win.eventdata.eventType, data.win.eventdata.fileVersion, data.win.eventdata.grantedAccess

Add filter

Count: 1 hit

Time: Nov 24, 2025 @ 11:58:06.728

_source

```
input.type: log agent.ip: 10.0.2.15 agent.name: DESKTOP-43711E6 agent.id: 801 manager.name: wazuh data.win.eventdata.originalFileName: mimikatz.exe data.win.eventdata.image: C:\Users\urjal\Downloads\mimikatz_trunk\x64\mimikatz.exe data.win.eventdata.product: mimikatz data.win.eventdata.parentProcessGuid: {fb82638e-0f1c-6928-0893-000000000000} data.win.eventdata.parentCommandline: "C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe" data.win.eventdata.processGuid: {fb82638e-1b30-6928-fb03-000000000000} data.win.eventdata.parentProcessId: 2428 data.win.eventdata.parentProcessId: 10844 data.win.eventdata.currentDirectory: C:\User
```

V "C:\Users\urjal\Downloads\mimikatz_trunk\x64\mimi

t id	1764003486.722142
t input.type	log
t location	EventChannel
t manager.name	Wazuh
t rule.description	Mimikatz Usage Detected
# rule.firedtimes	1
t rule.groups	local, syslog, sshd
t rule.id	100002
# rule.level	15
rule.mail	true
t rule.mitre.id	T1003
t rule.mitre.tactic	Credential Access
t rule.mitre.technique	OS Credential Dumping
timestamp	Nov 24, 2025 @ 11:58:06.728

Description: Adding the Shuffle integration to the OSSEC configuration file and restarting the Wazuh manager.

```

-- 
Wazuh - Manager - Default configuration for ubuntu 22.04
More info at: https://documentation.wazuh.com
Mailing list: https://groups.google.com/forum/#forum/wazuh
-->


<global>
  <journal_output>yes</journal_output>
  <alerts_log>yes</alerts_log>
  <log_all_json>yes</log_all_json>
  <email_notification>no</email_notification>
  <smtp_server>smtp.example.wazuh.com</smtp_server>
  <email_to_recipient>example.wazuh.com</email_to>
  <email_maxperhour>12</email_maxperhour>
  <agent_max_alerts>100</agent_max_alerts>
  <agents_disconnection_time>60</agents_disconnection_time>
  <agents_disconnection_alert_time>8</agents_disconnection_alert_time>
  <update_check>yes</update_check>
</global>

<integration>
  <hook><http_file>/name>
  <hook_url>https://shuffler.io/api/v1/hooks/webhook_4bf9259c-160e-4e33-80fa-9abdd61e3dba </hook_url>
  <rule_id>100002</rule_id>
  <alert_format>json</alert_format>
</integration>

<alerts>
  <log_alert_level>3</log_alert_level>
  <email_alert_level>12</email_alert_level>
</alerts>

<!-- choose between "plain", "json", or "plain,json" for the format of internal logs -->
<log_format>plain</log_format>
</logging>

<remote>
  <connection>secure</connection>
  <proto>tcp</proto>
  <protocol>tcp</protocol>
  <queue_size>131072</queue_size>
</remote>

```

Description: Build workflow in shuffle soar using webhooks:

1. Mimikatz Alert Sent to Shuffle
2. Shuffle Receives Mimikatz Alert – Extracting SHA256 Hash From File

3. Check Reputation Score with Virus total
4. Send details to Hive to create alert
5. Send email to SOC Analyst to begin Investigation

SOC-Automation-Project

Runtime Location: Default / Cloud

Webhook 1 Change Me

SHA256-HASH

Regex capture group 1.2.0

Name: SHA256-HASH Delay: 0

Find Actions: Regex capture group

Input data: \$exec.all_fields.data.win.eventdata.hashes

Regex: SHA256-=[{0-9A-Fa-f]{64}}

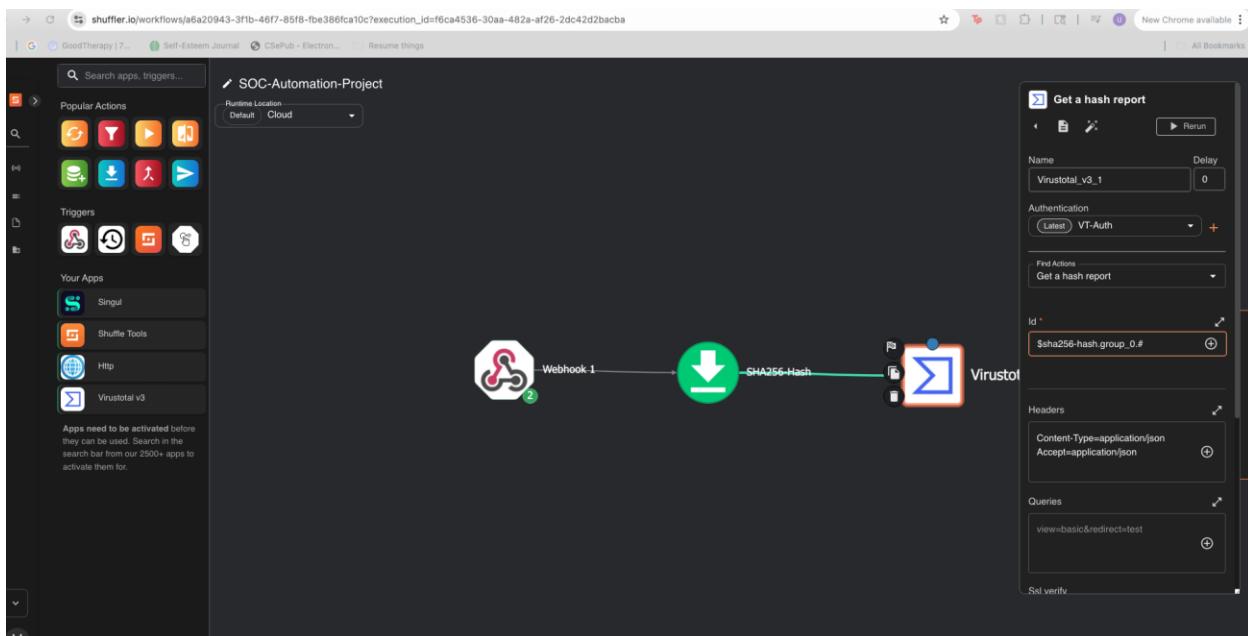
Details

Status: FINISHED
Source: webhook
Started: 26/11/2025, 23:14:28
Finished: 26/11/2025, 23:14:28
Location: Cloud

```

{
  "severity": 3,
  "pretext": "WAZUH Alert",
  "title": "Mimikatz Usage Detected",
  "text": {
    "win": [
      {
        "system": {
          "providerName": "Microsoft-Windows-Sysmon",
          "providerGuid": "{5770385f-c22a-43e0-bf4c-06f5698ffbd9}",
          "eventID": 1,
          "version": 5,
          "level": 4,
          "task": 1,
          "opcode": 0,
          "keywords": "0x0000000000000000",
          "systemTime": "2025-11-26T23:14:28Z"
        }
      }
    ]
  }
}

```



← Back to all runs

Details



Status FINISHED

Source webhook

Started 27/11/2025, 00:03:48

Finished 27/11/2025, 00:03:49

Location Cloud

```

{
  "severity": 3,
  "pretext": "WAZUH Alert",
  "title": "Mimikatz Usage Detected",
  "text": {
    "win": {
      "system": "... 16 items",
      "eventdata": "... 23 items"
    }
  },
  "rule_id": "100002",
  "timestamp": "2025-11-27T05:03:45.323+0000",
  "id": "1764219825.154145",
  "all_fields": {... 9 items}
}
  
```



SHA256-Hash
regex_capture_group

[← Back to all runs](#)

Details



Status FINISHED

Source webhook

Started 27/11/2025, 00:03:48

Finished 27/11/2025, 00:03:49

Location Cloud

```
⊕{ 8 items
  "severity" : 3
  "pretext" : "WAZUH Alert"
  "title" : "Mimikatz Usage Detected"

  ⊕"text" : { 1 item
    ⊕"win" : { 2 items
      ⊕"system" : { ... } 16 items
      ⊕"eventdata" : { ... }
      23 items
    }
  }
  "rule_id" : "100002"
  "timestamp" :
  "2025-11-27T05:03:45.323+0000"
  "id" : "1764219825.154145"
  ⊕"all_fields" : { ... } 9 items
}
```



SHA256-Hash

regex_capture_group



SHA256-Hash

regex_capture_group

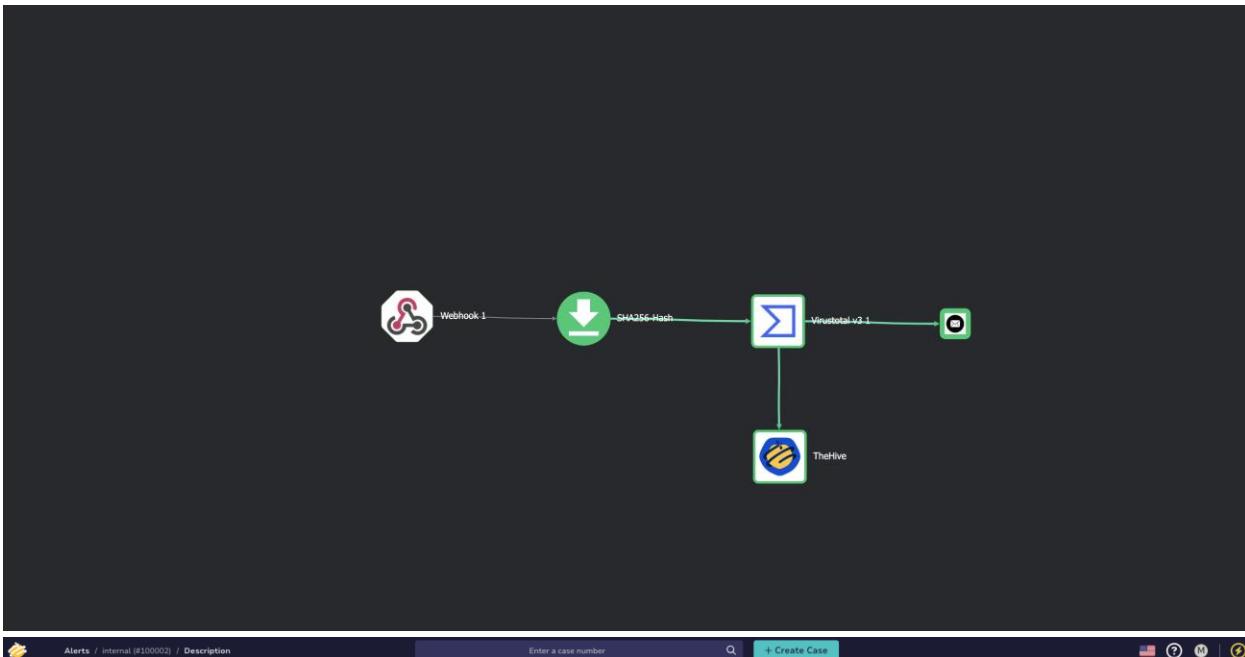
```
⊖ "Results for SHA256-Hash" : {  
  3 items ↴  
    "success" : true ↴  
    ⊕ "group_0" : [...] 1 item ↴  
    "found" : true ↴  
}
```



Virustotal v3 1

get_a_hash_report

```
⊖ "Results for Virustotal_v3_1" : [  
  1 item ↴  
    ⊖ 0 : { 6 items ↴  
      "status" : 200 ↴  
      ⊖ "body" : { 1 item ↴  
        ⊖ "data" : { 4 items ↴  
          "id" :  
          "61c0810a23580cf492a6ba4f76549...  
          ↴  
          "type" : "file" ↴  
          ⊖ "links" : { 1 item ↴  
            "self" :  
            "https://www.virustotal.com...  
            ↴  
          }  
          ⊕ "attributes" : {...}  
          41 items ↴
```



Alerts / internal #100002 / Description

Mimikatz Usage Detected

General

- Title:** Mimikatz Usage Detected
- Tags:** T1003
- Description:** Mimikatz Activity detected on DESKTOP-437I1E6
- Summary:** Mimikatz Usage Detected
- Source:** WAZUH Alert
- Reference:** 100002
- Type:** internal
- Occurred date:** 27/11/2025 16:11
- Status:** New
- Time metrics:** Detection < 1 second

Comments

Type a comment... Hit "SHIFT + ENTER" for a new line

Shuffle Email App <email-app@shuffler.io>
to me ▾

Mimikatz has been detected on DESKTOP-437I1E6 at 2025-11-28 00:05:35.685 .

Thu, Nov 27, 4:11PM (4 days ago)