

# **CBD Lists**

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Wazuh lab

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#### **Constant Database - CBD**

Constant Database (CDB) lists in Wazuh are a powerful feature designed to organize data and enhance security monitoring. These structured lists are used by various Wazuh modules to streamline threat detection and response.

## **Purpose**

- 1. **Organized Data Handling**: CDB lists help maintain structured information like IPs, domains, or usernames for security use.
- 2. **Improved Performance**: They enable fast data lookups, which is key for real-time alerting.
- 3. **Rule Integration**: They can be linked directly into Wazuh rules, enriching detection logic with context-aware data.

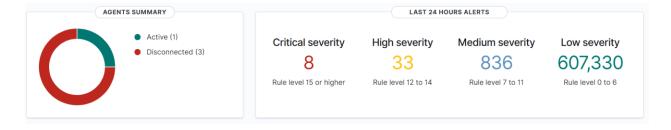
## **Key Advantages**

- **Scalable**: Suited for large datasets in enterprise settings.
- Customizable: You can create multiple lists for different types of data.
- Easy to Manage: Easily maintained through configuration files.

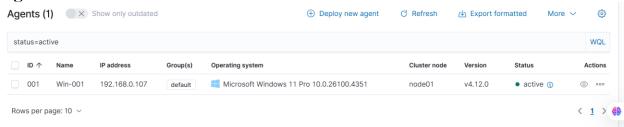
#### **Common Uses**

- IP Blacklists: Flag known malicious IPs in incoming data.
- **Domain Surveillance**: Detect and respond to traffic involving risky or known bad domains.
- User Activity Tracking: Monitor high-risk or privileged users for unusual behavior.

### Wazuh-Dashboard:



### Agent:



### **SSH Access:**

### Command:

## ssh wazuh-user@192.168.0.111

## Now We have to Create CBD malware list:

Change directory to cd /var/ossec/etc and then **lists** 

Create New file "malware-hashes"

### Nano malware-hashes



We will use this file to store malicious hashes of malware to detect.

Let's configure all other files then we will comeback to this file again for storing malware hashes!

## **Change the Directory to ETC:**

Change directory to etc and open the ossec.conf file.

```
[root@wazuh-server lists]# cd ..
[root@wazuh-server etc]# ls
client.keys internal_options.conf local_internal_options.conf ossec.conf ossec.conf.save.1 rules sslmanager.cert ssmpt decoders lists localtime ossec.conf.save rootcheck shared sslmanager.key

[root@wazuh-server etc]# nano ossec.conf]
```

## Now look for lists tags **<lists>**

Add the path of malware-hashes file

#### Command:

<lists>/etc/lists/malware-hashes</lists>

```
<ruleset>
    <!-- Default ruleset -->
    <decoder_dir>ruleset/decoders</decoder_dir>
    <rule_dir>ruleset/rules</rule_dir>
    <rule_exclude>0215-policy_rules.xml</rule_exclude>
    list>etc/lists/audit-keys</list>
    list>etc/lists/amazon/aws-eventnames</list>
    list>etc/lists/security-eventchannel</list>
    </rr>
    <!-- Malware-hashes to store -->
    list>etc/lists/malware-hashes</list>
```

# **Configure Local Rules:**

Now change directory to rule folder and open local\_rules.xml

```
[root@wazuh-server etc]# ls client.keys internal_options.conf local_internal_options.conf ossec.conf ossec.conf.save.1 rules sslmanager.cert ssmpt decoders lists localtime ossec.conf.save rootcheck shared sslmanager.key [root@wazuh-server rules]# nano local_rules.xml |
```

### Scroll down till the end and add this

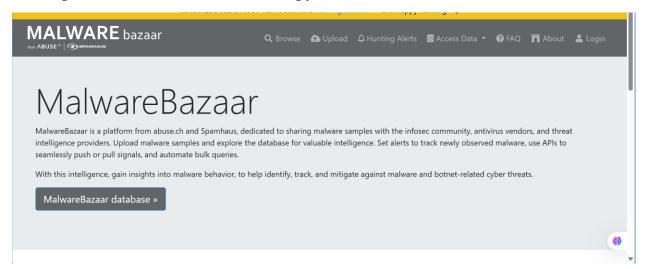
```
<rule id="110002" level="13">
<if_sid>554</if_sid>
<\!\!if\_sid\!\!>\!\!550\!<\!\!/if\_sid\!\!>
list field="md5" lookup="match_key">etc/lists/malware-hashes</list>
<description>Known malware hash is detected</description>
<mitre>
 <id>T1204.002</id>
</rule>
<group name="malware">
  <if_sid>550</if_sid>
     <list field="md5" lookup="match_key">etc/lists/malware-hashes</list>
     <description>Known malware hash is detected</description>
       <id>T1204.002</id>
     </mitre>
  </rule>
</group>
```

After saving the file restart the Wazuh-manager

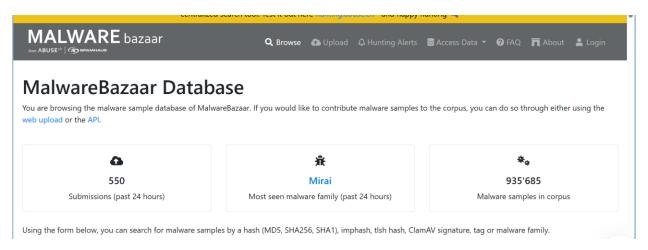
```
[root@wazuh-server rules]# systemctl restart wazuh-manager
```

Note: I added the download folder path in FIM (file integrity monitoring) please check your path and save malware file there.

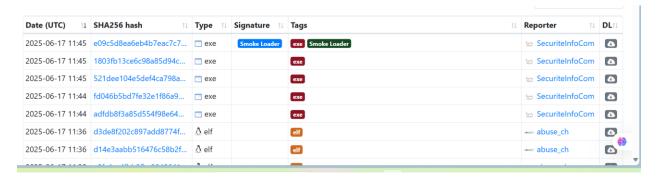
Now open Malware Bazar Site and copy some Malware hashes.



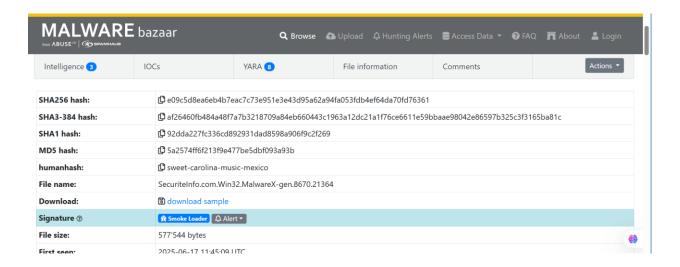
### Click on malwareBazar database



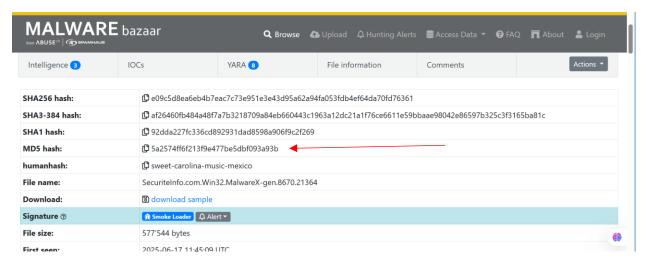
# Scroll down and you will so many malware samples:



Select any and open it.



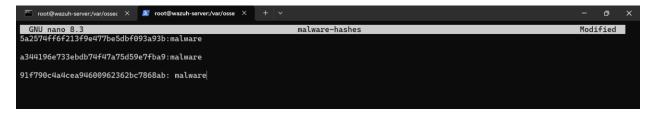
# Copy the md5 of this malware:



### Paste this md5 hash in the malware-hash file.



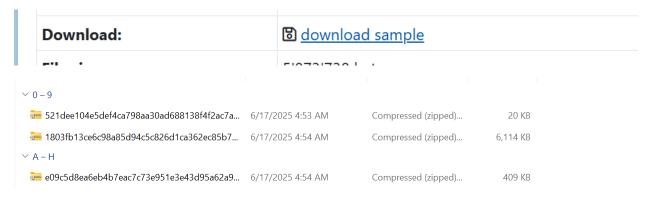
Add some more Malware hashes for better result.



Now save the file and restart Wazuh-manager!

```
[root@wazuh-server lists]# systemctl restart wazuh-manager
[root@wazuh-server lists]# |
```

After saving and restarting the hashes download the malware samples

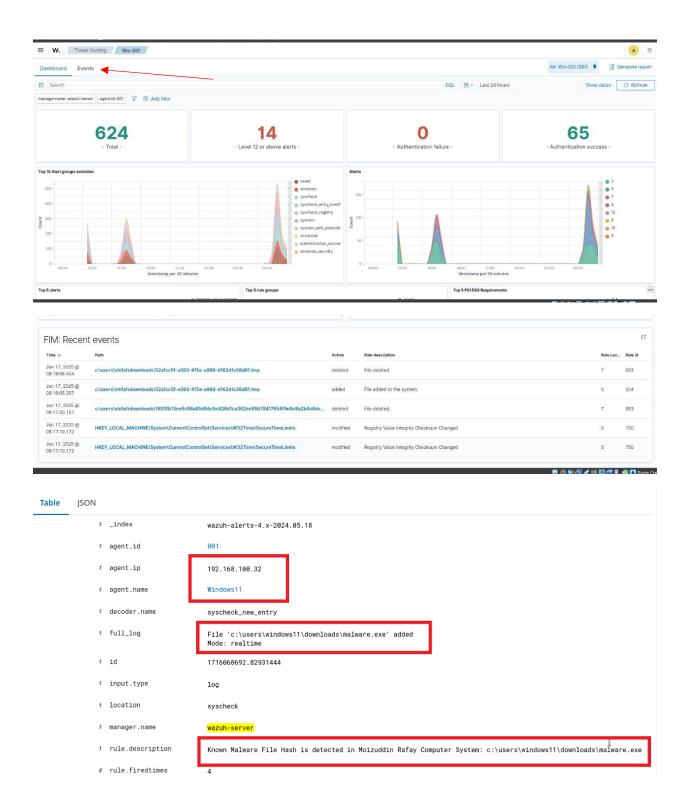


Now extract this with password: infected

After open Wazuh dashboard and go to threat hunting section:



## Now click on Events:



# **Summary:**

**CDB lists in Wazuh** play a critical role in strengthening security monitoring. By organizing structured data efficiently, they support faster and more accurate threat detection. This makes them a valuable asset for security operations teams aiming to improve threat response and overall security posture.

## Need training on Wazuh?

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**Other SIEM** 

1. IBM Qradar

2. Splunk

3. Azure Sentinel