Wazuh - Windows Defender Integration (Windows Defender Logs Integration)

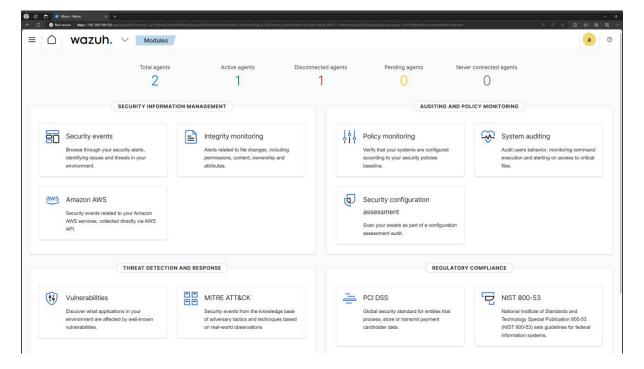
Microsoft offers endpoint security solutions for enterprises called windows Defender with wazuh.

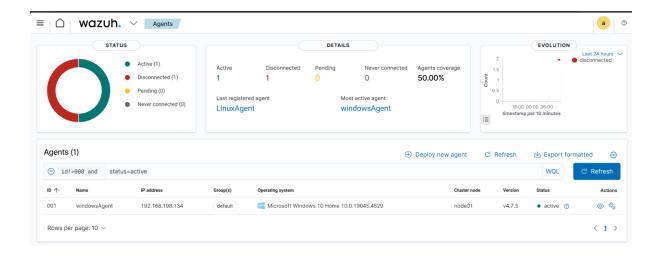
Windows Defender is the anti-malware component of the Microsoft Windows operating system. You can configure Wazuh agents installed on Windows endpoints to collect Windows Defender logs. This provides visibility on malware infections detected by Windows Defender on Windows endpoints. These logs can also provide information about:

- The status of the Windows Defender service.
- Results of Windows Defender scans that the users run on these endpoints.

Setup:

Here I have accessed my Wazuh console via SSH connection in my kali



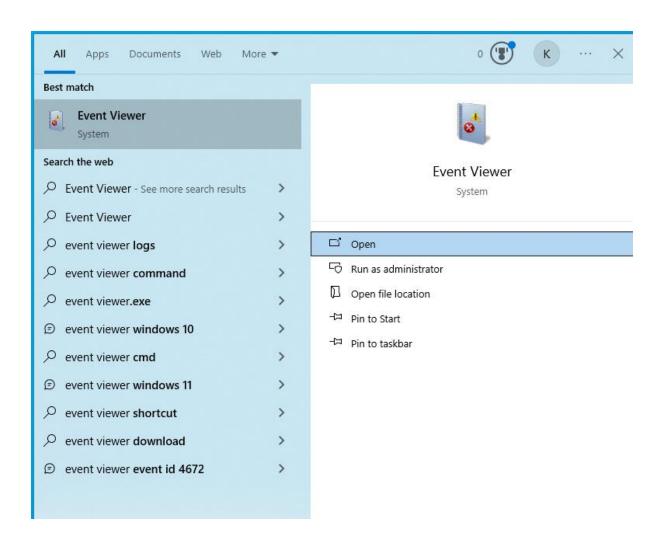


To collect Windows Defender logs, you must configure the Wazuh agent using centralized configuration, or locally using the agent C:\Program Files (x86)\ossec-agent\ossec.conf file. Centralized configuration allows the instructions to be shared with a group of agents.

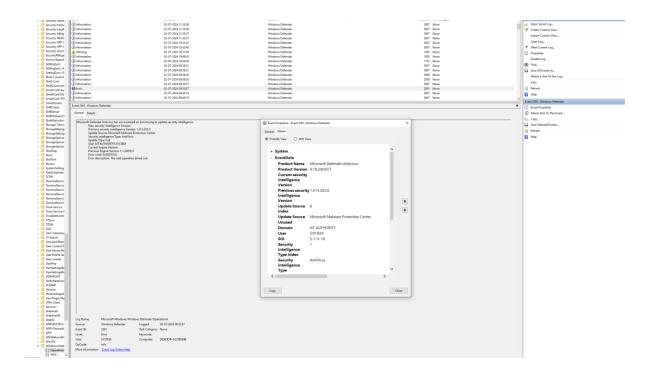
For that,

Go to

Event Viewer \rightarrow Application ad Services Logs \rightarrow Microsoft \rightarrow Windows Defender \rightarrow Operational \rightarrow search for "error"



Name	iype	Number of Events Size	e		
Hardware Events	Administrative	0 68 K	KB		
Internet Explorer	Administrative	0 68 K	KB		
Key Management Service	Administrative				
Microsoft					
OpenSSH	Folder				
Windows PowerShell		103	7 MB		
Windows Powersnell	Administrative	103 1.07	/ MB		
I					
J Information		02-07-2024 10:52:			00/ None
Information		02-07-2024 10:52:	2:40 Windows		i007 None
⚠ Warning		02-07-2024 10:51:			002 None
Information		02-07-2024 10:49:			000 None
Information		02-07-2024 10:39:			151 None
Information		02-07-2024 09:58:	8:21 Windows		007 None
Information		02-07-2024 09:58:			007 None
Information		02-07-2024 09:58:	8:20 Windows		1000 None
Information		02-07-2024 09:58:	8:20 Windows	s Defender	1000 None
Information		02-07-2024 09:52:	2:07 Windows	s Defender	007 None
⊕ Error		02-07-2024 09:52:	2:07 Windows	s Defender 2	1001 None
Information		02-07-2024 09:40:	0:19 Windows		007 None
Information		02-07-2024 09:40:	0:19 Windows	s Defender	i007 None
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Log Name: Microsoft-Windows-Windows Defender/Operational 02-07-2024 09:52:07 Source: Windows Defender Logged: 2001 Event ID: Task Category: None Level: Error Keywords: SYSTEM DESKTOP-GCOB0MB User: Computer: OpCode: Info More Information: Event Log Online Help

Add the following block to the configuration file to enable Windows Defender log collection, in the path "nano/var/ossec/etc/shared/default/agent.conf"

<localfile>

<location>Microsoft-Windows-Windows Defender/Operational

<log_format>eventchannel</log_format>

</localfile>

```
<!-- Shared agent configuration here -->
<localfile>
<location>Microsoft-Windows-Windows Defender/Operational</location>
<log_format>eventchannel</log_format>
</localfile>
</agent_config>
```

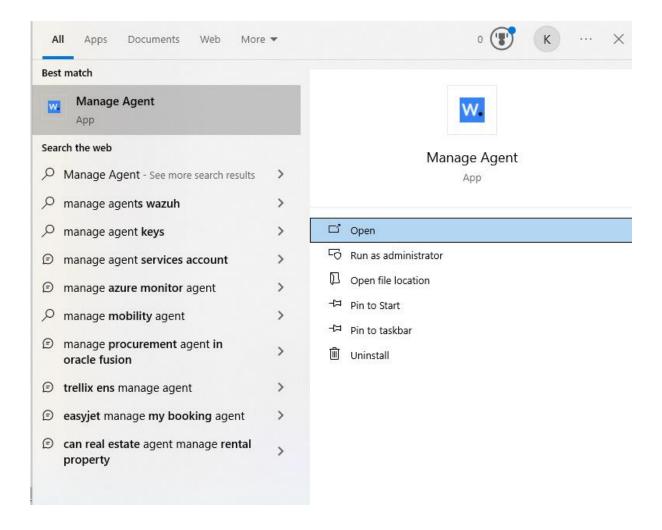
Now, in order to save the changes made, restart your wazuh manager

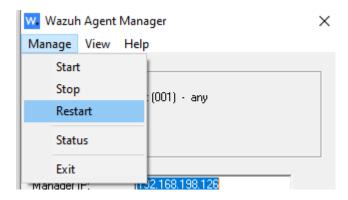
Command: sudo systemctl restart wazuh-manager

Now, after successfully restarting your wazuh-manager, its time to restart your agent in windows.

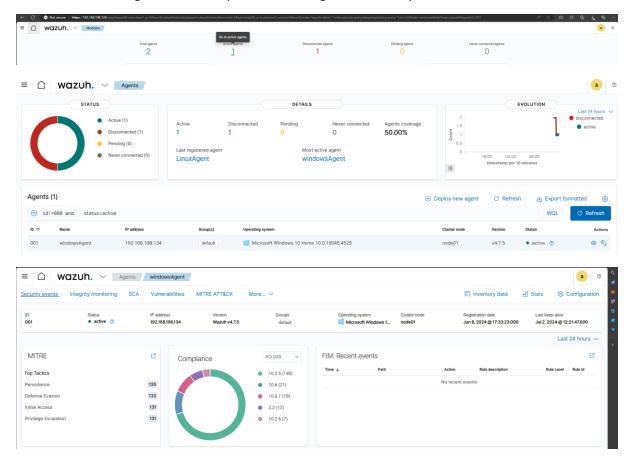
Go to your windows endpoint

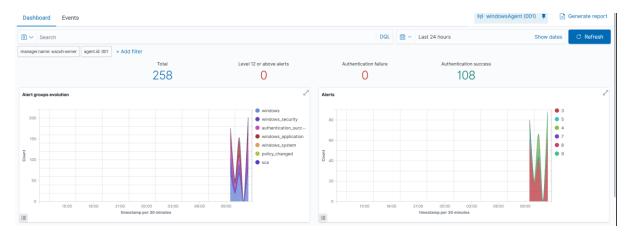
Manage Agent → Manage → restart





Now, after successful restarting your windows agent, access your wazuh-dashboard Click on the active agents \rightarrow select your windows agent \rightarrow security events



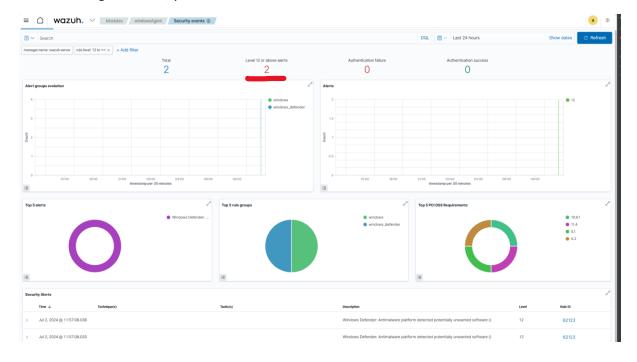


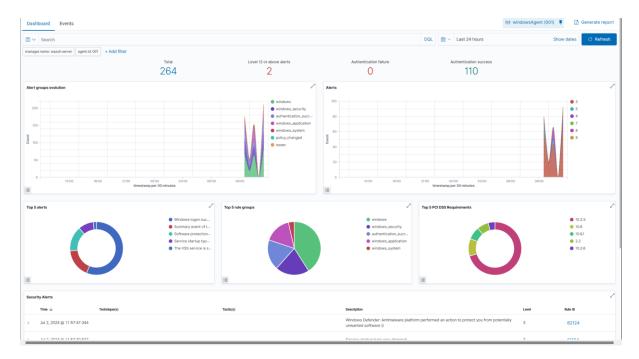
Now, its time to test our setup, for this you can either create your own malware or you can install some test-malwares that are freely available from the internet

Note:

Install malwares at your own risk.

After installing malwares, you can see that there's a notification in the alerts





You can view the security alerts by just clicking on the event and continue your analysis there by

