6:31 PM

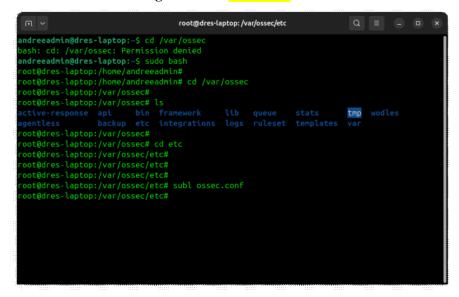
Explanation: On Ubuntu running the cd /var/ossec root directory, stores and configures files, logs, rules, and many other important components that are operational.

What the /var/ossec does?:

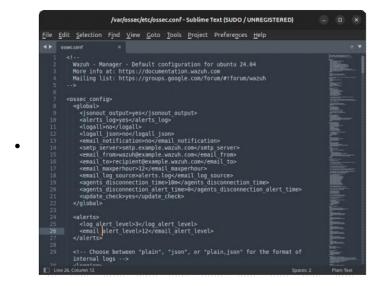
- /var/ossec/logs/ > Stores logs generated by Wazuh, including alerts.
- /var/ossec/etc/ > Configures files (ossec.conf, rules, and decoders).\
- /var/ossec/queue/ > This handles real-time events which proccess and communicate with agents.

OSSEC terminal step by step guide:

- On terminal by typing the command cd /var/ossec wouldn't work because its owned by root and will grant the permission being denied.
- To access the root user simply type the command > sudo bash
- Simply type ls > ls will show you all the list of directories
- What I focused on was typing cd etc directory> reason being is because I needed to get into the ossec.conf file

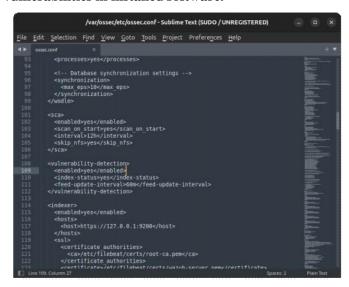


- To open the file type > subl ossec.conf
- Once the file is open it will show you all configuration to configure your alerts, logging format, and how it will be communicated var/ossec.conf file.picture:



Vulnerability detector:

Explanation: my key focus was on the Vulnerability Detector is because it helps identify security weaknesses in my system by scanning for known vulnerabilities in installed software.



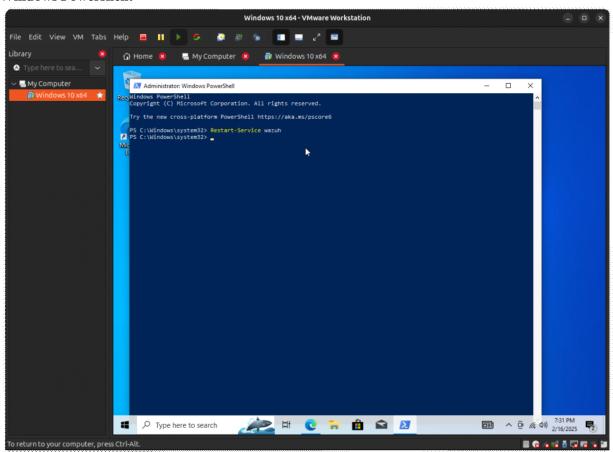
Once everything has been done I did a a system restart for the wazuhmanager

Commands:

- Systemctl restart wazuh-manager (terminal)
- Restart-Service (Windows Powershell)
- There was no issues for me so the system was good and active and running

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Windows Powershell:



Installing software applications on windows 10: Explanation: Once I restarted the agent in powershell, I went to

ninite.com to install a few software programs, to detect any possible vulnerabilities to my wazuh dashboard.

As you can see on my wazuh dashboard, I clicked on my windows 10 vm desktop, The picture down below shows you what the agent had scanned on that vm and transferred the reports to my wazuh-manager. As you can see the vulnerabilities box, it scanned the detection of: $\$

- 5 = critical
- 411 = high
- 220 = medium
- 3 = low

It also scans like MITRE ATT&CKS, Compliance, Latest scans, and recent events

The FIM: Recent events, show you real-time File Integrity Monitoring (FIM) events, tracking any changes being made to critical system files and directories

What it does:

- Detects file modification, deletion, and creations
- Monitors critical system files
- · Provides a log of most recent file change events detected by Wazuh

How it works:

- 1. Wazuh scans monitored directories.
- 2. When a change occurs, Wazuh will log the events.
- 3. The FIM: Recent Events dashboard displays details such as.
- File Path (where the change happened).
- Change type (modified, created, and deleted).
- User & Process that made the change.
- Timestamp of the change.

