Wazuh-SIEM Tool

Security Information and Event Management (SIEM) is a comprehensive cybersecurity solution that combines two key aspects: Security Information Management (SIM) and Security Event Management (SEM). SIEM systems are designed to provide real-time analysis of security alerts generated by applications and network hardware, allowing organizations to detect, analyze, and respond to potential security threats swiftly. By collecting and aggregating data from various sources, such as network devices, servers, and applications, SIEM systems enable the identification of unusual or suspicious activities. Advanced SIEM tools often incorporate machine learning and behavioral analytics to enhance threat detection capabilities. They also facilitate compliance with regulatory requirements by providing detailed reporting and audit trails. Overall, SIEM is an essential component of a robust cybersecurity strategy, offering visibility, intelligence, and automated responses to safeguard an organization's digital assets.

Wazuh is an open-source security monitoring and threat detection platform that provides comprehensive visibility into an organization's security posture. It integrates log analysis, intrusion detection, vulnerability detection, configuration assessment, and incident response capabilities into a unified solution. Wazuh collects and

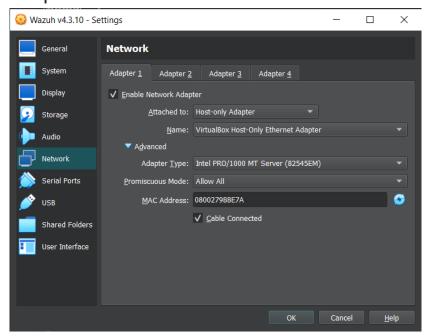
analyzes data from various sources, including endpoints, servers, and network devices, enabling real-time detection of security events and anomalies. With its scalable architecture, Wazuh can be deployed in large, distributed environments, offering centralized management and monitoring. It also features a rich set of integrations with other security tools and platforms, enhancing its flexibility and effectiveness. By leveraging Wazuh, organizations can improve their security operations, achieve compliance with regulatory standards, and protect their digital assets from evolving cyber threats.

Examples: -

1. Download wazuh .ova file from wazuh documentation.

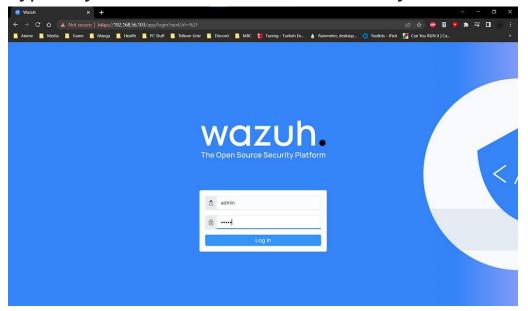


After the machine has finished installing, go to the machine settings and change the network adapter to 'host-only Adapter'.

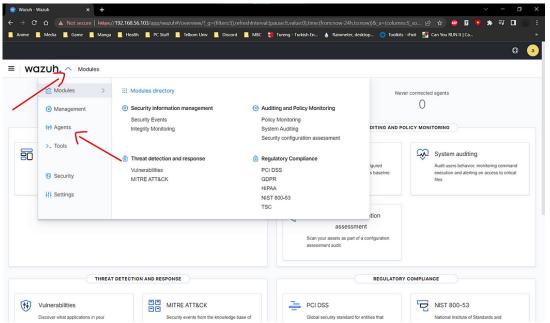


3. Now we can fire up wazuh virtual machine and login as wazuh-user with password wazuh and type ip a to display the IP of your wazuh virtual machine.

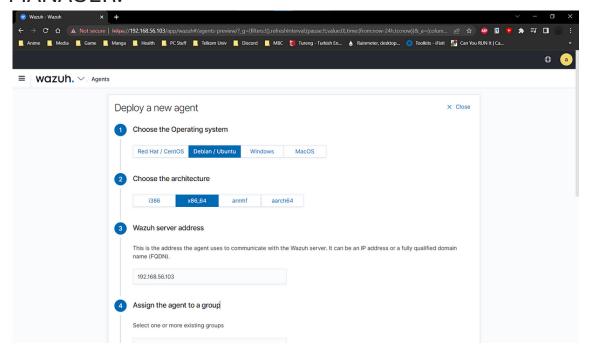
4. Type in your local browser the IP on to your browser.



5. When you got inside of your wazuh dashboard, you will be greeted with a lot of button and function that you don't know, but you can learn about all of it from the documentation, for now you can click on total agent or click on agent inside the arrow.



6. You will need to choose the operating system to deploy your wazuh agent and insert the IP for your WAZUH MANAGER.



7. On the 5th option there are Install and enroll agent option, copy and paste the command onto your desire machine, in this case it's Ubuntu 22.04. Follow the next instruction and you should see that the agent already online.

