

Sensor for collecting and displaying information security network nodes

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Keywords

Iptables, Informatic security, Packets, Events, Python, Probe, Django, Web, Visualization

Abstract

The main objective of the project is to develop a software to collect and display information generated by monitoring applications and security control running on a machine.

The motivation arises because of the need to monitor a corporate network through a mechanism of automated event management (SIEM). The steps for the realization of this system are modularized and divided into different stages to be developed as a whole within the research project VERITAS (<http://nesg.ugr.es/veritas/>) fo Network Engineering & Security Group (NESG - <http://nesg.ugr.es/>) belonging to the area of Telematic Engineering of the University of Granada.

For this purpose it is necessary to define the steps to obtain logs of a security source, configure the installation for that source, perform system parsing logs to extract the information, stored in a persistent system (database) and view via a web interface on the probe deployed.

Finally, to test the efectiveness and analyze the performance of the software solution, a demonstration would be done with actual live event processing for security source project whose scope has to be Iptables.