

ABSTRACT

In the digital era which is currently experiencing continuous progress, the smoothness of computer networks is a crucial factor in supporting the operations of an agency, including the Cirebon City Communication, Informatics, and Statistics Agency (DISKOMINFO). An effective and real-time network monitoring system is needed for the smooth running of information and communication services. One of the devices that can be utilized for this purpose is Grafana, an open-source visualization and analytics software that allows for the interactive display of network data interactively and can be easily understood.

This study aims to implement the Grafana device as a monitoring tool on Mikrotik RouterOS to enhance the security and smoothness of the network system at the Cirebon City Communication and Information Service. With this monitoring system, network administrators can monitor network conditions in real time, detect potential disruptions before they occur, and take necessary actions quickly.

The results of the implementation of this Grafana device are expected to improve the minimize downtime in the Cirebon City Communication and Information Service environment.

Keywords: *Grafana, Mikrotik RouterOS, Network Monitoring.*