

## **ABSTRACT**

*Server monitoring is a crucial aspect in maintaining the performance and reliability of network infrastructure, especially in government environments that rely on digital systems in their operations. This study discusses the implementation of a server monitoring system at the Department of Communication and Information (Diskominfo) of Cirebon City using Zabbix, an open-source software capable of real-time monitoring.*

*In this implementation, Zabbix is used to monitor several key parameters on the server, such as CPU usage, memory, disk, and temperature. The system is also equipped with automatic notifications via Telegram and a network topology visualization feature to provide a comprehensive view of device conditions, enabling faster and more accurate issue detection. The collected data is stored in a database and visualized through an interactive dashboard to support server condition analysis.*

*The implementation results show that Zabbix can reduce the risk of downtime and assist the IT team in making decisions based on historical data and resource usage trends. With this monitoring system, the Department of Communication and Informatics of Cirebon City can ensure more stable, secure, and optimal digital services for users.*

*Keywords: Server Monitoring, Zabbix, MikroTik RouterOS, Network Infrastructure, Server Performance.*