

ABSTRACT

In the development of network and server infrastructure system, Development Engineers require a system to ensure the quality and stability of server performance on an ongoing basis. In this context, monitoring and alerting system are essential to detect and respond to server disruptions quickly. The development process involves several stages of installation and configuration, including Prometheus, Node Exporter, and Grafana as a dashboard for visualizing CPU, disk, memory, and network usage data. The final stage involves integrating Prometheus with its alerting system. The purpose of developing this monitoring and alerting system is to assist the IT team at PT. Dirgantara Indonesia in monitoring the performance of more than 128 servers through a single dashboard in real time, and to analyze system workloads in order to improve efficiency and prevent potential server failures at an early stage. The final outcome of this development is a system capable of providing accurate and real-time server usage data, as well as sending notifications when server issues occur. This system is expected to support more efficient management of server infrastructure within PT. Dirgantara Indonesia.

Keywords: Dashboard, Monitoring, Alerting, Prometheus, Node Exporter, Grafana.