ABSTRAK

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Program Studi	: Informatika
Judul Laporan Skripsi	: Implementasi Infrastruktur Monitoring Server Dan Network Menggunakan Docker, Grafana, Zabbix Dengan Notifikasi Telegram Di PT. XYZ
Pembimbing	: Saruni Dwiasnati, ST, MM, M.Kom

Infrastruktur IT yang handal merupakan fondasi penting bagi operasional perusahaan modern saat ini. Pemantauan kinerja server dan jaringan secara cermat diperlukan untuk memastikan sistem berjalan optimal. Penelitian ini bertujuan menerapkan sistem monitoring terintegrasi pada infrastruktur IT PT. XYZ menggunakan teknologi opensource. Metode penelitian diawali dengan studi topologi jaringan, diikuti persiapan server dan perangkat lunak pendukung. Kemudian dilakukan instalasi, konfigurasi dan integrasi Zabbix, Docker, Grafana, Prometheus, dan Node Exporter. Data sebelum dan sesudah implementasi monitoring dianalisis untuk mengevaluasi efektivitasnya. Hasil diharapkan dapat menunjukkan peningkatan performa infrastruktur IT PT. XYZ melalui visualisasi data yang informatif dan notifikasi insiden secara real-time. Penelitian ini berkontribusi pada pemahaman implementasi monitoring infrastruktur IT menggunakan teknologi terkini.

Kata kunci*: Zabbix, Docker, Grafana, Prometheus, Node Exporter.*

ABSTRACT

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Study Program   : Informatic

Title Thesis   : Implementation of Server and Network Infrastructure Monitoring Using Docker, Grafana, Zabbix with Telegram Notifications at PT. XYZ

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Reliable IT infrastructure is a crucial foundation for the operations of modern companies today. Careful monitoring of server and network performance is necessary to ensure the system operates optimally. This study aims to implement an integrated monitoring system on the IT infrastructure of PT. XYZ using open-source technology. The research method began with a network topology study, followed by the preparation of servers and supporting software. The installation, configuration, and integration of Zabbix, Docker, Grafana, Prometheus, and Node Exporter were then carried out. Data before and after the implementation of monitoring were analyzed to evaluate its effectiveness. The expected outcome is to demonstrate improved performance of PT. XYZ's IT infrastructure through informative data visualization and real-time incident notifications. This study contributes to understanding the implementation of IT infrastructure monitoring using modern technologies.

Keywords: *Zabbix, Docker, Grafana, Prometheus, Node Exporter*.