

ABSTRACT

The increasing complexity of networks in organizational environments demands effective management and continuous monitoring. One tool that can be used to manage and unify networks is Observium, an open source network monitoring software. This research aims to implement Observium in an organizational network environment and analyze its contribution to network efficiency and performance. In the implementation phase, we integrated Observium into the existing network infrastructure, configured the required hardware and software, and ensured the availability of sufficient resources. Next, we collect monitoring data from various network devices, including routers, switches, and servers, using Observium. Analysis is performed on collected monitoring data to transmit network performance, identify potential problems, and monitor resource usage. The analysis results provide insight into how Observium can help in detecting and responding to changes in the network environment, reword and offer a clearer comprehension of *traffic* patterns and workloads. The findings of this research show that Observium can be an effective tool in managing and unifying networks. Implementing Observium helps increase visibility into network health, quickly identify anomalies, and facilitate better decision making for network maintenance and upgrades. Therefore, the use of Observium in an organizational network environment can be considered a positive step towards operational efficiency and better resource management.

Keywords: Observium, Network Implementation, Network Analysis.