ANALISIS PERBANDINGAN WEB SERVER DENGAN PENDEKATAN DOCKER *OPTIMIZATION* DAN NGINX *PURE* (STUDI KASUS DI SMK NEGERI 2 JEMBER)

Comparative Analysis of Webservers using Docker Optimization approach and Pure Nginx (Case Study at SMK NEGERI 2 JEMBER)

ABSTRACT

Based on the research conducted using the Experimental method, a comparison was made between two schemes: using Docker and using Nginx alone on the server. The comparison results showed that the scheme using Nginx alone performed better in terms of latency, low CPU usage, and fast connections compared to the scheme using Docker and a load balancer. Therefore, it can be concluded that the use of Docker and a load balancer in a single server resource does not improve server performance, but rather decreases it. On the other hand, the scheme using Nginx Pure on the server host provides better performance in terms of latency, low CPU usage, and fast connections. Therefore, it is recommended to use the Nginx Pure scheme as a more optimal alternative when designing web-based software products. This will help improve server performance and provide a better experience for users.

Keywords: *Load Testing, Linux, Website,* JMeter