ABSTRACT

In this study, network monitoring was carried out using the Solarwinds NPM application and implemented at the Jakarta Telkom Institute of Technology, Campus B. Simulations of network performance were analyzed to obtain network latency, packet loss, and CPU load/Memory Used. The measurement results show that the average network latency value is 7.35 ms, which if it is below 10 ms it is still good. The packet loss value remains below 0.1%, which is based on the standards set for IP-based networks, including campus networks, the packet loss value must be maintained so as not to exceed 1% for smooth telecommunications. The average value of CPU load and memory used is average 20.3 where the usage is sufficient to maintain the health of the server and the average memory used is 43.1 Mbps which is quite good for server usage. The purpose of this study is to determine Network Latency, Packet Loss and CPU/Memory Usage on the Campus network.

Keywords: *Network Latency, Solarwinds NPM, NMS, Network Performance*