

ABSTRACT

The utilization of computer network technology as a data communication medium has increased to date. The Dude is an application that can perform network management where every device connected to the network in one segment will be automatically read or detected by The Dude so that it can monitor and provide information if there are problems with the connected devices. This research will discuss the network monitoring system using The Dude application, how The Dude application monitors the traffic link of a device and how The Dude sends notification accuracy when monitoring network systems via telegram at the SWS Building, National Research and Innovation Agency.

The results of this study show that The Dude application can monitor network traffic links in the form of traffic links from the Main Floor Switch to the Building Switch, where data is obtained in the form of the largest total traffic link generated by the Main Floor Switch, namely Switch 301 of 432 Mbps with an average traffic of 84.6 Mbps. It can also be seen that the busy hour of the Switch 301 traffic link is located at 13.00 WIB with an average traffic of 75.6 Mbps / day. The calculation and analysis of busy hours, it can also be seen that the busiest hour of the SWS Building Switch 301 traffic link occurs at 13:12 WIB. In addition, this research also implements the notification of The Dude application network devices through the telegram application. Where the research results in the form of implementation of this notification have been successfully carried out.

Keywords: The Dude, Network Monitoring, Traffic, Notification, Telegram