

ABSTRACT

**THE IMPLEMENTATION OF NETWORK DEVICE MONITORING
SYSTEM USING SNMP PROTOCOL WITH EMAIL
NOTIFICATION AT SMK N 2 SELUMA**

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SMK N 2 Seluma currently has a network and is also connected to the internet network, the computer network is used for teaching and learning activities for students and the work of teachers and education staff, SMK N 2 Seluma computer network still often occurs disturbances in devices that support networks such as access points (often laptop users connect for a long time and even cannot connect to the network). This research aims to monitor network devices using SNMP protocol on computer network at SMK N 2 Seluma. The research used an experimental method. In monitoring devices on computer network using SNMP protocol at SMK N 2 Seluma found in the Nagios application. Nagios monitors devices on the network such as connected or not connected, device memory, device storage (HDD) and other monitoring. In monitoring devices on the network Nagios works well, which can monitor according to the script configured on the main Nagios Core system. For notifications will be sent via email that has been set (admin email) in the form of device down conditions. With the monitoring system using SNMP protocol, it will make it easier for admins to perform maintenance on the network.

Keywords: *SNMP, Nagios, Network Monitoring.*

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