ABSTRACT

The growth of network infrastructure is very fast, therefore a network management system for its management. In order to manage those network system, a system such as Network Management System (NMS). NMS is a system that could be used to manage IP based network devices. In order to run NMS, a set of rules or protocol that work as the base of the system is essential, such protocol called Simple Network Management Protocol (SNMP). SNMP protocol give the administrator a capability to manage and set the entire network device performance remotely. This final project implements a network monitoring system in a cluster that located in High Performance Computing laboratory in Telkom University. The NMS implementation use Cacti. Cacti is an open source application that provide system notification via email, showing daily, weekly, monthly and annual monitoring graph. This research describe the system condition using various indicators like bandwidth, processor workload and memory usage.

Key word : NMS, Cacti, SNMP