

ABSTRAK

Kebutuhan internet sangat melekat didalam masyarakat, sehingga penyedia jasa telekomunikasi berlomba-lomba untuk menyediakan pelayanan yang terbaik untuk masyarakat dalam hal kecepatan dalam akses jaringan. Diperlukan sebuah alat monitoring untuk menilai kinerja jaringan tersebut, sehingga dapat diketahui seberapa baik dan buruk kinerja dari jaringan yang sedang berjalan. Kinerja jaringan tersebut diukur pada *server* ataupun *router*, menggunakan agen SNMP. Agen SNMP mempunyai salah satu tugas untuk melakukan *capture throughput bandwidth*. Hasil *throughput* tersebut diharapkan dapat di-*export* secara otomatis setiap harinya, tanpa harus user yang melakukan *export*. Hasil *throughput* tersebut akan diolah untuk menjadi data statistik ataupun data dalam bentuk grafik yang kemudian menjadi bahan acuan terhadap user untuk menilai kondisi jaringan. Oleh karena itu dibutuhkan aplikasi yang dapat melakukan *capture* terhadap *throughput server* serta mengolah data trafik tersebut menjadi data statistik, yaitu *Performance Reporting Network*. Aplikasi ini dapat membantu *user* untuk memantau kinerja dari masing-masing *server*, dengan adanya hasil *output* berupa *Excel file*, *CSV file*, dan *PDF file*.

Kata kunci : bandwidth, inbound, outbound, router, server, SNMP , throughput

ABSTRACT

The needs of internet access is very attached to the society. Thereby, every telecommunication services were trying to serve their best in delivering network access speed. A monitoring tool were needed to rate the network performance, so that how good or bad is the running network can be detected. The network performance were measured on the server or router by using SNMP agent. One of SNMP task is to capture bandwidth throughput. Throughput result were expected can be exported automatically every day, without a user need to do it. The result will be processed into statistical data or in form of graphic which later become a reference to the user to rate the network condition. By looking at this condition, there is a need of an application that can capture server throughput and also processed the traffic data into statistical data namely Performance Reporting Network. This application can help users to monitor the performance of each server, with the output results in the form of Excel files, CSV files, and PDF files.

Keywords: bandwidth, inbound, outbound, router, server, SNMP , throughput

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