

Analisa performansi download file pada jaringan mobile IPV6 menggunakan download manager = Download file performance analysis in mobile IPV6 network using download manager

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Abstrak

Jaringan Mobile IPv6 merupakan teknologi yang mendukung perpindahan mobile node dari titik akses jaringan satu ke titik akses lain tanpa harus memutuskan koneksi. Pada jaringan mobile, perpindahan ini disebut handover yang dibedakan atas vertical handover dan horizontal handover. Untuk mengetahui performa jaringan dengan kedua jenis handover tersebut, dapat diukur beberapa parameter QoS diantaranya adalah throughput, packet loss, dan transfer time. Dalam hal ini, aplikasi yang digunakan berupa download manager yang akan mengunduh file dari sebuah link yang terdapat dalam HTML file.

Hasil pengukuran tersebut bila dibandingkan akan memperjelas perbedaan antara vertical network dan horizontal network untuk kemudian dipelajari berdasarkan teorinya masing-masing. Hasil pengukuran transfer rate, didapatkan bahwa transfer rate pada vertical handover lebih rendah 2,16% dibanding transfer rate pada horizontal handover. Pengukuran packet loss, didapatkan bahwa packet loss pada vertical handover lebih banyak 1831,74% dibanding packet loss pada horizontal handover. Pengukuran transfer time, didapatkan bahwa vertical handover lebih lambat 14,06% dibanding transfer time pada horizontal handover.

.....Mobile IPv6 network is a technology that supports mobile nodes movement from one location to another within the network without having to disconnect. In mobile networking, the movement is called handover which is divided into vertical handover and horizontal handover. To determine the network performance with both types of handovers, we can measure several QoS parameters such as throughput, packet loss, and transfer time. In this case, application that is used is the Download Manager, which will download a file from link in the HTML file.

The measurement results are compared to clarify the difference between vertical network and horizontal network for further study based on their respective theories. Measurement results of transfer rate, shows that transfer rate in vertical handover is 2,16% lower than transfer rate in horizontal handover. Packet loss measurement shows that packet loss in vertical handover is 1831,74% higher than packet loss in horizontal handover. Transfer time measurement shows that transfer time in vertical handover is 14,06% slower than transfer time in horizontal handover.