

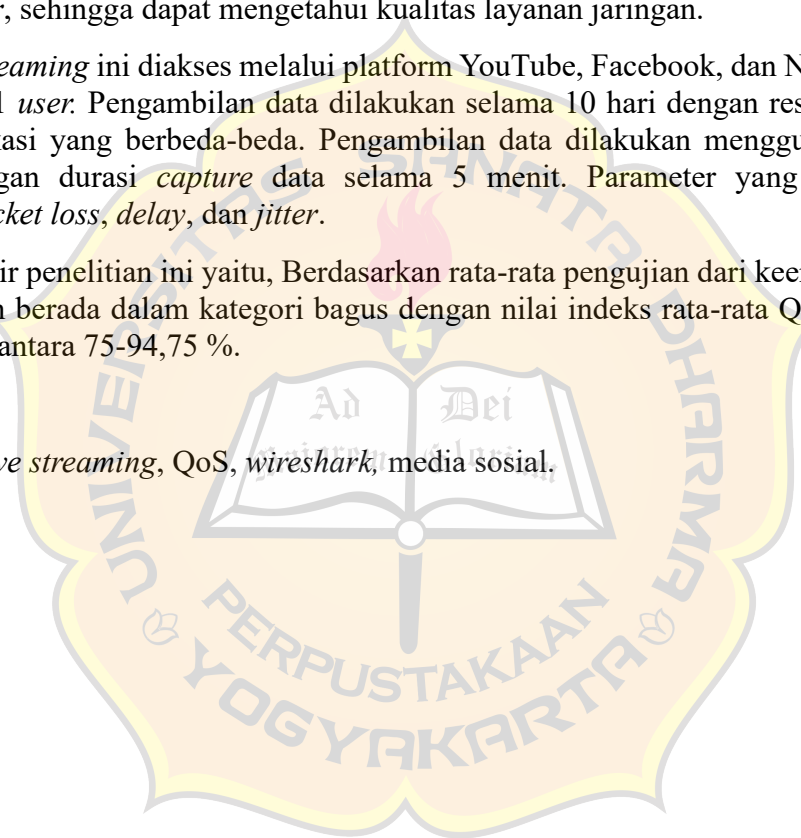
INTISARI

Kemajuan teknologi saat ini memudahkan masyarakat dalam penggunaan teknologi terutama pengguna jaringan komputer dan internet. Berbagai informasi dapat diakses seperti berita *online*, media sosial, *live streaming*, dan lain-lain. *Live streaming* adalah layanan pengiriman video dan audio melalui internet. Beberapa situs yang menawarkan fasilitas *live streaming* seperti YouTube, Facebook dan lain-lain. Pengaksesan video oleh *user*, terjadi karena adanya pengiriman data dari *server* ke *client* atau *user*. Koneksi jaringan yang stabil diperlukan untuk mengakses suatu video. Penelitian kali ini bertujuan untuk mengetahui performa jaringan *Quality Of Service* (QoS) dengan parameter berupa *throughput*, *packet loss*, *delay*, dan *jitter*, sehingga dapat mengetahui kualitas layanan jaringan.

Video streaming ini diakses melalui platform YouTube, Facebook, dan Nimo TV dengan menggunakan 1 *user*. Pengambilan data dilakukan selama 10 hari dengan resolusi, platform, waktu, dan lokasi yang berbeda-beda. Pengambilan data dilakukan menggunakan *software wireshark* dengan durasi *capture* data selama 5 menit. Parameter yang diukur berupa *throughput*, *packet loss*, *delay*, dan *jitter*.

Hasil akhir penelitian ini yaitu, Berdasarkan rata-rata pengujian dari keempat parameter, kinerja jaringan berada dalam kategori bagus dengan nilai indeks rata-rata QoS sebesar 3.75 dan persentase antara 75-94,75 %.

Kata kunci : *Live streaming*, QoS, *wireshark*, media sosial.



ABSTRACT

Advancements in technology today facilitate the use of technology for the public, especially for computer network and internet users. Various information can be accessed such as online news, social media, live streaming, and more. Live streaming is a service for transmitting video and audio over the internet. Several sites offer live streaming facilities, such as YouTube, Facebook, and others. The access to videos by users occurs due to the transmission of data from the server to the client or user. A stable network connection is required to access a video. This study aims to determine the network performance of Quality Of Service (QoS) with parameters such as delay, throughput, jitter, and packet loss, in order to understand the quality of network service.

The video streaming is accessed through platforms like YouTube, Facebook, and Nimo TV using one user. Data collection was carried out over a period of 10 days with different resolutions, platforms, times, and locations. Data was collected using Wireshark software with a data capture duration of 5 minutes. The parameters measured included throughput, packet loss, delay, and jitter.

The final results of this study show that, based on the average testing of the four parameters, the network performance is in the good category with an average QoS index value of 3.75 and a percentage between 75-94.75%.

Keywords: Live streaming, QoS, Wireshark, Social media.

