

Abstrak

TITLE : ANALYSIS AND OPTIMIZATION OF QUALITY OF SERVICE USING QUEUE AND PEER CONNECTION QUEUE (PCQ) METHOD USING MIKROTIK AT PARIAMAN TENGAH DISTRICT OFFICE

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STUDEN PROGRAM : INFORMATICS ENGINEERING

DEGREE GRATED : STRATA (S1)

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The Kota Pariaman Subdistrict Office as a government institution responsible for public services in its area, also faces similar challenges. As the need for connectivity continues to increase, it is important for the sub-district office to ensure that the network they use is able to provide optimal service quality to users. QoS analysis and optimization on the network is the key to meeting these needs. Quality of Service is a method of measuring how good the network is and is an attempt to define the characteristics and nature of a service. Quality of Service is used to measure a set of performance attributes that have been specified and are usually associated with a service. The Queue method in a network context is one of the key strategies in traffic management which is used to regulate the flow of data packets in a network. When data packets pass through a router or other network device, they are placed in a waiting queue before being directed to their final destination. Peer Connection Queue (PCQ) in the queue type is one of the features of Mikrotik to help manage traffic rate and packet traffic. On the Mikrotik operating system, PCQ is a program for managing network traffic Quality of Service (QoS). On the Mikrotik operating system, PCQ is a program for managing network traffic Quality of Service (QoS). This stage will explain the conclusions and suggestions from Bandwidth Quality of Service (QoS) Management which have been made containing conclusions regarding the results of optimizing network services.

Keyword : *Quality of Service (QOS), Mikrotik, Queue Tree, Peer Connection Queue (PCQ)*

Abstrak

TITLE : **ANALISIS DAN OPTIMASI QUALITY OF SERVICE MENGGUNAKAN METODE QUEUE DAN PEER CONNECTION QUEUE (PCQ) MENGGUNAKAN MIKROTIK PADA KANTOR CAMAT PARIAMAN TENGAH**

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Kantor Camat Kota Pariaman sebagai institusi pemerintahan yang bertanggung jawab atas pelayanan publik di wilayahnya, juga menghadapi tantangan yang serupa. Seiring dengan kebutuhan akan konektivitas yang semakin meningkat, penting bagi kantor camat ini untuk memastikan bahwa jaringan yang mereka gunakan mampu memberikan kualitas layanan yang optimal kepada pengguna. Quality of Service merupakan metode pengukuran tentang seberapa baik jaringan dan merupakan usaha untuk mendefinisikan karakteristik dan sifat suatu layanan. Quality of Service digunakan untuk mengukur sekumpulan atribut kinerja yang telah dispesifikasikan dan biasanya diasosiasikan dengan suatu layanan. Metode Queue dalam konteks jaringan merupakan salah satu strategi kunci dalam manajemen lalu lintas (traffic management) yang digunakan untuk mengatur aliran paket data dalam suatu jaringan. Peer Connection Queue (PCQ) pada queue type merupakan salah satu fitur dari Mikrotik untuk membantu memmanage traffic rate dan traffic packet. PCQ merupakan program untuk mengelola jaringan lalu lintas Quality of Service (QoS). Pada operating system mikrotik, PCQ merupakan program untuk mengelola jaringan lalu lintas Quality of Service (QoS). Tahapan ini akan dijelaskan mengenai kesimpulan dan saran dari Manajemen Bandwidth Quality of Service (QoS) yang telah dibuat kesimpulan berisi mengenai hasil optimalisasi layanan jaringan..

Kata kunci : *Quality of Service (QOS), Mikrotik, Queue Tree, Peer Connection Queue (PCQ)*