UNIVERSITAS INTERNASIONAL BATAM

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ANALYSIS AND DESIGN OF *LOAD BALANCING* AND *QUEUE TREES* USING *MANGLE*

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ABSTRACT

Internet network *connection* stability is needed by companies, especially companies that require an internet *connection* on carrying out their operational activities. To meet these needs a network is needed to minimize *down*time with the purpose of the company's operational activities can be carried out. Therefore, *load balancing* and tree queues are needed to fix *traffic* and *bandwidth* for users.

The study was conducted using a simulation network. First, the writer approved the network topology, then configured *load balancing* and tree queues. At the end of the week a test on the network that had been made.

This study produced a stable network and reduced the excess on one of the *connection* lines. *Bandwidth* distribution also helped manage *bandwidth*.

Keywords: *load balancing, queue tree, mangle.*