ABSTRACT

A computer network is a network connected from one computer to another

that is connected to each other using intermediary media. On computer networks

there are a collection of several computers and other devices that are

interconnected, such as devices such as routers, switches, and access points.

Telkom University or commonly referred to as Tel-U is a college in West

Java precisely located in Bandung district. Telkom University has a student

dormitory building for temporary residence, totaling 18 dormitory buildings

consisting of dormitories men and women.

This research will be done by configuring bandwidth on a logical network

that has been designed and calculating throughput on each bandwidth to be used.

This research uses Cisco Packet Tracer and GNS3 which is software for the

implementation of a computer network, especially internet computer network where

we can create a virtual computer networking.

Bandwidth is a measure of the amount of information channeled from one

place to another and measured in bits per second, bandwidth is divided into two

types of data namely digital and analog data.

The results of this study showed throughput value that is not much different

in each network protocol used in the design of Telkom University dormitory

computer network.

Keyword : Computer Network, Bandwidth, Cisco Packet Tracer, GNS3

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