Abstract

Routing is the process of selecting paths in a network along which to send data or physical to destination, routing is different with routing protocol in function and work. Routing protocol is communication that happen between router, routing protocol allow router to share the information abaout network and the relationship with other router.

Many routing protocol algorithm that available but *Interior Gateway Routing Protocol* (IGRP) and *Open Shortest Path First* (OSPF) is the popular routing protocol at this time, where OSPF is the public standart that use *link stae* algorithm dan IGRP that is cisco standart that use *distance vector* that is created by cisco.

In this final project will use the scenario with simulatin on network simulator that describe OSPF and IGRP network and will compare the performantion of the two ruting protocol based on 4 parameter : the speed of routing update, delay, throughput dan paket loss.

The conclution is that IGRP is better at the chosing the path,almost equal at the delay, thorugput and packet loss but OSPF is better at routing updates.

Keyword : Routing, OSPF, IGRP