

ABSTRACT

Routing is the process of selecting roads within the network used to transmit data to the destination address. Routing protocol is different from routing in function and task. Routing protocol is the communication that occurs between routers. Routing protocols allow routers to share information about the network and its relationship to surrounding routers. Routing is divided into two, they are static routing and dynamic routing. In static routing, network administrators will have manually configure the routing table. While dynamic routing, using a routing protocol to configure the routing table automatically.

At the Interior Gateway Protocol (IGP) routing protocols are based on the distribution of how it works. There is work in distance vector and link state. In distance vector routing protocols such as there is RIP, IGRP, and EIGRP. In link state routing protocols such as OSPF and Intermediate System-Intermediate System (IS-IS).

In this final scheme implemented in networks that use routing protocols EIGRP and IS-IS which will run services such as video streaming. Experiments done with 1 client, 1 server video streaming, and 11 routers, the Cisco 7200 that is emulated with dynamips.

The final task is obtained that EIGRP has a better QoS in the handling of network that given the background traffic, and more reliable than the IS-IS in dealing with the link failure of network links because it has a backup route to overcome this.

Keyword: Routing protocol, Enhanced Interior Gateway Routing Protocol (EIGRP), Intermediate system to intermediate system (IS - IS), Video streaming