

CHAPTER 1

INTRODUCTION

1.1 Background

Router is a system of computer network device that is important to send data packets through a network or internet to its destination through a process called routing. Routers can also share an internet connection to several local network computers, of course, by doing some configuration of a router. This is considered quite difficult to configure the router, with the ability of the router in the have able to direct the data packets that have been sent through the network from the sender to the destination. Routers are of course very widely used on network-based protocol technology TCP/IP, router with this type is also called the IP Router. Router can also be used to connect multiple small network to a larger network, called interwork, or to divide a large network into multiple subnetwork to help improve performance and also simplify management that positively impacts to overall network that has already been established.

Router has two equally important functions, first to send the network source packets to the destination network and share or distribute IP addresses by DHCP or static to all computers connected via the router. With the IP address that distributed router each computer that allows each computer to connect and can send packets data that enter through LAN or internet. So the router important role to connection 2 or more different networks.

Because this router has expensive prices make the community difficult to buy a reliable router. With expensive on the price router, people expect an affordable reliable router. Use PC can be a reliable and affordable router of course. Expected by building/making cheap Linux router network with little configuration of the router.

1.2 Scope

1. How to make a linux router device with relatively low cost and performance on complex network.
2. Konfigurasi router(iptables).
3. Limit bandwidth speed internet and block the site.

1.3 Objective

The goal in this project is to create a router using pc.

