

ABSTRACT

Router is a computer network tool that sends packets of data over a network or the Internet to the destination, through a process known as routing. The importance of the router makes the router as a device it is important that two different networks or more can be connected.

Whether the problem to the existence of fixed network realized or when a router does not have a problem. So the result available networks disturbed, for example, the download failed due to a network link from the router to drop out, etc.. So one way to add efficient a local network and over the problem do with the design of redundant router, the router is configured to use *VRRP (Virtual Router Redundancy Protocol)*, while the operating system used is Linux Mikrotik 2.9.27. Router is working on the router is redundant when the failure in connection to the internet it will automatically backup at second by the router, that is, the second router as the backup. Thus the connection running again taken over by the second router. So when the master router interference affected or damaged then still have a spare router that can function as the master router.

As for the technical testing two router installed on the network LAN (*Local Area Network*) and men with non-enable one of the router, is, cut off the connection with the default router or router master. As the success of the system parameters this is the internet connection can automatically move through the backup router.

With VRRP model when the network dropped out because of the master router pc off then there is the backup router pc backup router that can act as the master router pc.

Keywords: *Router, VRRP, Redundant, Master, Backup.*