ABSTRACT

Computer technology develops increasingly along with the development of software and hardware used. Building a computer network certainly requires a lot of hardware. If the computer network that wants to be built has so many computers, the more resources will be used, both hardware and software. In addition, building a cluster computer requires a lot of money. The main problem with computer clusters is disk-failures. It will take a lot of time if you want to fix one by one the problematic computer. In addition, it is not easy to manage multiple computers at once.

To overcome this problem, in this final project a diskless server is built to solve existing problems. This final project is designed to reduce the risk of disk failures and simplify maintenance. To manage it was simply installing DRBL on a single server without the need to install on other computers and can be configured simultaneously. Diskless systems work on networks using UTP cables and other computers must have PXE facilities.

Keyword: diskless, PXE, DRBL.