**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.

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