

## **ABSTRACT**

Technologies grow more rapidly over time. Various kinds of human jobs will require a touch of technology. One of the technological tools used by humans are computers. Computers are electronic devices used as a means of entertainment, work, etc. By looking at the function of computer as tools of work, then on the computer hard drive is definitely there are a variety of data pertaining to issues that might not for public consumption. Even today people sometimes using laptop rather than the computer, so maybe the laptop is not only just a job information but personal data as well.

By considering that the laptop and computer and there are a variety of data and important information, in the Final Project will be made laptop data security systems by way of encrypting file system (hard drive), where the key from the encrypted file system is stored in a USB drive (Flashdisk). Encryption system used is AES (Advanced Encryption Standard), this system was chosen because it is often used in cryptographic circles. The operating system used in this Final Project is Ubuntu 8.04, which is the operating system are familiar to Linux users new and old . The results of this research is a hard drive is encrypted and the key to unlock the hard drive stored in the flashdisk.

Keyword: Hardisk, Encryption, USB Drive, AES, Ubuntu