

## ABSTRACT

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The computer laboratory is one of the most important components for the world of education. The continued development of new technologies comes the Computer Laboratory to streamline the resources on that computer lab thin computer technology. Thin computer selected because of the efficiency and cost are better than the computer lab in general. Thin computer consists of server and client, with fairly high specification servers and client-based mini-computer devices. Server system using LTSP (Linux Terminal Server Project) that runs on the Linux operating system Ubuntu. Clients using the Raspberry Pi. How it works is thin computer is a resource server from the client ranging from resource to resource memory storage, client simply providing input and output media. Systems made comes with a log in method-based RFID (Radio Frequency Identification) located on each client computer. Client log in with an RFID card that will be integrated with the server. To support the learning process in the computer lab will be added the monitoring of server systems that can monitor all activities performed on the client computer. Hopefully, by Thin computer system can improve efficiency and support the activities in the computer laboratory.

Keywords: Computer Laboratory, Computer Thin, Linux Ubuntu, Raspberry Pi, Radio Frequency Identification