ABSTRACT

Cloud computing is one of the technologies that allows users to fill information storage data. Data information is permanently stored on the server over the internet and stored temporarily on the user's computer, such as stored in the desktop, android tablet or ipad, and notebook. Resources used in this cloud computing, can be utilized according to user needs and pay for resources that are taken or used in cloud computing as used.

The benefits of resources stored in cloud computing with these computing resources can be met by cloud Infrastructure as a Service (IaaS). Systems that give users the ability to run and control all access, such as virtual machines used to traverse multiple physical sources, such as switches, processors, RAM or memory, and disk storage that is suitable for user needs.

The concept of live migration in cloud computing is built by referring to the proxmox architecture. Proxmox has a website-based infrastructure architecture and is a private server. One of the technologies related to live migration and applying the concept is a web service oriented architecture. Live migration supports storing virtual machine status at that time and starts again at a later time, making larger downtime with large data transfer sizes so that the migration time becomes longer with the influence of large measured migration speed (bandwidth).

Keywords: *Cloud Computing, Live Migration, Proxmox*.