ABSTRACT

Cloud Computing is a technology that allow most processes and computing to be located on the Internet, allows users to access the necessary services from anywhere and anytime. This technology gives users the ability to run and control all access and can be utilized according to users needs.

Resources stored in cloud computing can be met with Cloud Infrastructure as a service (IaaS). Iaas is a Cloud service that is essentially a physical server and virtual machine. One of the features found in cloud computing is Live migration. Where the concept in Live migration supports virtual machine storage and can directly transfer the virtual machine from one physical host to another physical host. One of the virtual machine managers that support Live Migration is Kernel-based virtual machine (KVM). KVM is a virtualization module in the Linux kernel that allow the kernel to function as a hypervisor, with QEMU as hardware emulation and one of the management tools used is Virt-Manager. Virt-Manager is a desktop user interface for managing virtual machines.

Test result using the hybrid method can be implemented and can run in the Live migration process. From the test scenario that has been done, the Hybrid method excels in an online video scenario using 4 GB of memory with a result of the average value of migration time 12 second and 83-millisecond downtime.

Keywords: Cloud Computing, KVM, Live Migration, Virt-Manager.