Abstract

The information technology provides some hosting service that is easy and efficient. One of them is virtual private server. VPS is a virtualization technology that enables a machine (server) with a large capacity divided into multiple virtual machines. Every virtual machine will serve operating system and software independently and with a fast configuration without being affected by the other virtual machines. On the VPS running process, every VPS needs to be monitored for knowing their every performance. One of the solutions to facilitate the hosting service provider on VPS management is creating a web-based interface to manage the VPS.

One of the methods for virtualization is Qemu virtualization. Qemu was chosen because this method is easy to use and run. Qemu also have a variety of features that can be developed.

To determine the ability of this system, carried out of two tests. The first test is to determine the performance of running VPS. The test produced the response time of 1.28 second when given a total of 30000 connections and there are no errors. The second test is to determine the host performance when the VPS are running. Test result that Qemu to run 10 VPS will use 13% CPU and 35.4% of memory.
Keyword: virtualization, Virtual Private Server, Qemu.