Abstract

Application hosting services or usually known as web hosting is one of the most commonly available Internet services in Indonesia. This services provide anyone an ability to host their own application and its database. There are many forms of application hosting service. The one that abundantly available in Indonesia is shared web hosting that provide a single homogenous platform to serve a numerous number of web application or database inside a single machine. The bottom line is that this services have a potential bottleneck issue due to its shared nature. In addition, there is another form of web hosting which provides its tenant an ability to take control over its operating system yet it has a complex configuration which known as Virtual Private Server.

The third form of web hosting, which gaining its momentum recently, is cloud-based web hosting. It adopts many characteristics and principles from cloud computing technology, that mainly based on Platform-as-a-Service service model. Furthermore, it provides some interesting features such as access transparancy, multi-platform, scalability, reliability, open API access and usability in terms of its interface. However, the service providers of this model is scarce. Even in Indonesia itself, there are few hosting services which labeled as "cloud hosting service" despite still continuing to use shared web hosting-based platform.

This final project/theses assignment aims to build a small appli-
cation development and hosting Platform-as-a-service with multi-platform ability and some other features to fulfill three characteristics of cloud computing: self-service, resource pooling and metered service. The objective is to create an easy to build and cheap application hosting service with its feature based from the limitation of traditional cPanel based service and common feature available in the modern cloud hosting.

**Keywords:** Application Hosting, Platform-as-a-Service, Multi-Tenancy, Cloud Computing