

## **ABSTRACT**

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Cloud computing has several advantages compared to conventional systems. For users, they will be free to create and do not need to provide infrastructure data centers, processing power, storage to desktop applications to be able to have a system. With the support of many processor cores, especially on the server, which can be used to run applications and services simultaneously using virtualization techniques on the server computer. Based on this, in this study measurements were made on several virtualization servers to determine the performance of virtualization servers. Micro Small Medium Enterprises (SMEs) is able to expand its business activities employment. To build IT infrastructure in order to be able to manage information must prepare a large capital, for large companies (enterprise) it may not be difficult but for small companies such as Micro, Small and Medium Enterprises (MSMEs) it is very impossible because they do not have enough capital. On this occasion an analysis will be conducted related to cloud computing technology. With the main results of this research is to analyze and implement cloud computing technology between OpenNebula and OpenStack which can be more efficiently applied at umkm on the lower middle scale. The method used is SDLC and ISO/IEC 25010:2011 test standard.

**Keywords** : Cloud Computing, MSMEs, SDLC, ISO/IEC 25010:2011, OpenNebula, OpenStack. **Total words: 204.**