

**ABSTRACT**  
**ANALYSIS OF THE USE OF THE NETWORK RESOURCES ON**  
**THE MIGRATION OF APPLICATIONS IN THE LINUX**  
**CONTAINER (LXD) USING THE LXD API**

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*Linux is one of the container built on top of a linux kernel feature. The usefulness of this is we can use the linux container such as host of his own. One of the advantages with using linux is a container that is simpler, faster, more secure, and can be measured. With the use container, can be used in the migration of the application from one linux container to another linux container. An awful lot of cases that occur are where we have to perform the migration. One of such cases is at the time of the transfer of data to the data storage is greater than ever before. With one of those cases, then the solution to handle the migration using the linux container. In addition to this, the linux container can also be used in external network. One example is the users in a virtual private server. The migration is being performed in the virtual private server using the network in the migration process. Thus there is a quality of service that can be calculated. Quality of Service is a mechanism that is done in measuring a service that is in a network. Things that are counted in the quality of service in these studies there are four, that is throughput, propagation delay, packet loss, jitter. The purpose of doing the calculations and analysers quality of service in virtual private server is to know the performance of the linux container in virtual private server.*

*Keyword : linux container, quality of service, throughput, packet loss, propagation delay, jitter.*