Analisis Performansi Proses Migrasi Pada *Cloud* Dengan Menggunakan *Container Orchestration*

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Abstract

The usage of cloud computing as the infrastructure of a system is very popular. Because cloud computing has supported the use of various application that are very useful for companies in saving some costs, effort, and time in making a system. And with container based virtualization, the process of making or using this system will be even easier. However, because of the cloud computing archtecture, all services run on the same system, when the system experiences system down, all of these services will experience it too. Therefore, we need a solution to move services from one system cloud to another named migration process. And to accelerate that process is to use container orchestration architecture or a architecture that has a structure to manage containers with one controller. This resarch compare two types of architecture namely container orchestration architecture with docker architecture in general. The research shown that container creating time on container orchestration architecture is 30x more faster and 3x more efficient in CPU Utilization than docker architecture in general.

Keywords: Cloud, Migration, Container, Container Orchestration, Container Creating Time, CPU Utilization