

ABSTRACT

**ANALYSIS OF CMS PLATFORM DEPLOYMENT
PROCESSES BY USING KUBERNETES AND AUTOMATION
SYSTEM WITH ANSIBLE**

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The deployment process before using container technology is more complicated, time consuming and has large resources, so a faster and more practical deployment process is needed. Very familiar container technology used among IT engineers is Kubernetes and the configuration management tool for deployment is Ansible. In this Undergraduate Thesis analyze the performance of Ansible configuration management tools to deploy CMS platform that is WordPress and MySQL using Ubuntu 16.04 LTS as a management node and target deployment. The parameters used in this test are measured in terms of time interval, CPU usage, memory usage, and configuration management. From the results of testing and analysis, it is concluded that the differences between one node, two nodes, and three nodes do not affect the time interval because they have a slightly different time difference and it does not show a constant change. Based on the results of measurements of CPU usage on the number of different nodes shows that the more the number of nodes, the smaller the CPU usage. Meanwhile, based on the results of measurements of memory usage (RAM Usage) on the number of different nodes indicates that the results are unstable.

Keywords: Automation Ansible, Cloud Server, Deployment, Nodes