ABSTRACT

ANALYSIS OF METRIC CPU AND MEMORY PERFORMANCE IN WINDOWS AZURE VIRTUAL MACHINE (VM) AND AMAZON WEB SERVICE ELASTIC COMPUTE CLOUD (EC2)

By

Syihan Qaes Yamani

1202160299

In this technological era the role of cloud computing is very helpful for users both individuals and corporate individuals. Cloud Computing itself is an information technology service where resources are taken from the internet through web-based tools and applications and not connected to direct servers. There are three examples of cloud computing services namely Windows Azure, and Amazon Web Services. Windows Azure is one of the services from Microsoft while this service is a form of Platform implementation as a Service (PaaS) of a cloud computing. Google Cloud is a platform offered by Google that has been around since 2008. Meanwhile, the Amazon Web Series is a cloud-based service that has been provided by Amazon since 2002.

And this analysis discusses the application of disk performance and service performance from the Cloud Computing platform, namely Amazon Web Services and Microsoft Azure. Platforms value using Instances that have been provided from each platform. Performance measurements are carried out using the Phoronix Test Suite at b1ms, b2s, and b2ms in Windows Azure and t2.small, t2.medium, and large t2 at Amazon Web Services and the results contain the parameters IOzone Write, IOzone Read, Dbench, and Unpack-Kernel.

Keywords: Windows Azure, Amazon Web Services, disk performance