ABSTRACT

Nowadays, everything is cannot be separated from technology which makes

the human necessity of information and technology has been increased, especially

in the term of telecommunication networking development based on internet

protocol. With its increase of applying, the more of necessities in many devices

with difference configuration for support the largest realization of network

infrastructure. Also in devices management and maintenance will be inconvenience

for user.

Openstack system is the solution of this problem, it is a main control of SDN

(Software Define Network) which able to combining several blocks into one

control. There are Application Service, Dashboard Service, Compute Service,

Storage Service, and Service Network. For supporting the services, it needs a

visualization system for facilitate user to do the networking configuration more

easier. This system is named Dashboard in Horizon platform which is a user web

interface for creating a new network, do some maintenance and managing the

network devices or its called cloud administrators. The Horizon build in Phyton

programming language in 2.6 or 2.7 version for programming language.

From the result of Dashboard service analysis in this final project, it's deduced

that the performace from its service is good enough. From the testing obtained with

Click testing the maximum bandwidth in server is 1500 kbps and in user side is

1100 kbps, for Time testing the maximum bandwidth in server is 2200 kbps and in

user side is 1100 kbps, and for Ramp testing the maximum bandwidth in server is

2200 Kbps and in user side is 1100 Kbps.

Keywords: Openstack, Dashboard, Horizon, Cloud Computing.

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