

ABSTRACT

ANALYSIS OF TESTING MULTI-TENANCY ON THE SOFTWARE DEFINED NETWORK WITH SLICING METHOD OF NETWORK 6-TUPLE USING THE OPEN NETWORK OPERATING SYSTEM CONTROLLER

By

ALDY LORENZO SUTAN

1202154122

Technological developments in Indonesia are increasingly modern, one of which is the development of the internet. The internet makes it easier for users to access various information. One of the factors that determine the performance of the internet is the network. Conventional network infrastructure of network devices must be individually configured so that it is not effective and efficient. To facilitate the configuration process, a way is needed so that the configuration in a network can be more efficient, therefore a concept is Software Defined Network. The Software Defined Network concept can be a solution to overcome the problems of conventional network infrastructure. Software defined network can design, build and manage computer networks by making centralized controls. In this study researchers used 6-tuple, namely MAC Address to configure the device. This configuration is carried out to implement multi-tenancy with the support of the network slicing method for isolation in tenants. to realize it, the Open Network Operating System Controller is used to control Software Defined Network. The results of classification are the Analysis of Testing multi-tenancy on the Software Defined Network with slicing method of network 6-tuple using the Open Network Operating System Controller.

Keyword: Software Defined Network, Multi-tenancy, Network Slicing, Open Network Operating System.