

## **ABSTRACT**

*Over the years, technological developments are growing rapidly, especially in the network sector. Developments in the field of network also affect the existing network architecture. Network architecture is no longer just a network architecture but there are other options such as Software Defined Network (SDN) architecture. SDN architecture can be a change because the configuration is no longer manually one by one can only change one place. The problem comes when the traditional architecture has many problems and the tenants cannot manage their own network without being disturbed by other tenants on the SDN network topology. Therefore, to form an SDN network topology that can be shared by 2 tenants with different purposes, Network Slicing is carried out using Flowvisor to enforce Flowspace isolation. In this study using connectivity testing and functionality testing to implement and test its quality with Quality of Service. The results of the research are the SDN network topology that has performed Flowspace isolation, the results of Quality of Services testing and the results of resource utilization. The conclusion from the research is that the use of Flowvisor to enforce Flowspace, can support multi-tenants because each tenant can use their own slice and is not disturbed by other slices and Flowspace isolation does not improve network quality because Flowspace isolation does not aim to improve network quality massively. such as bandwidth isolation. It is hoped that in the future, the little knowledge gained in this research will be used for a better future in the network field.*

**Keywords—** *Software Defined Network, Network Slicing, Flowvisor, Flowspace Isolation, Quality of Services.*