World Academy of Science, Engineering and Technology International Journal of Computer and Systems Engineering Vol:8, No:08, 2014

## **Towards Security in Virtualization of SDN**

Authors: Wanqing You, Kai Qian, Xi He, Ying Qian

**Abstract :** In this paper, the potential security issues brought by the virtualization of a Software Defined Networks (SDN) would be analyzed. The virtualization of SDN is achieved by FlowVisor (FV). With FV, a physical network is divided into multiple isolated logical networks while the underlying resources are still shared by different slices (isolated logical networks). However, along with the benefits brought by network virtualization, it also presents some issues regarding security. By examining security issues existing in an OpenFlow network, which uses FlowVisor to slice it into multiple virtual networks, we hope we can get some significant results and also can get further discussions among the security of SDN virtualization.

Keywords: SDN, network, virtualization, security

Conference Title: ICCCNS 2014: International Conference on Computer Communications and Networks Security

**Conference Location :** Barcelona, Spain **Conference Dates :** August 18-19, 2014