

SOFTWARE DEFINED NETWORK (SDN) BASED PACKET FORWARDING VERIFICATION

Abstract

This disclosure relates to a system and method for verifying a veracity of data packets being forwarded in a Software Defined Network (SDN) having a SDN controller and multiple switches. The method comprises: generating and transmitting orders to a first switch and a second switch to return a first detection data and a second detection data of a network flow, receiving the first detection data and the second detection data, the first detection data being a number of data packets from the network flow with a first label reported by the first and second switches, and the second detection data being a content associated to the data packets from the network flow with the first label reported by the first and second switches; performing an analysis on the first and second detection data; and raising an action ticket if the analysis on the first and second detection data fails.

Figure 3 to accompany the abstract