

Abstract

Software-Defined Network (SDN) is a network architecture that separates control fields and data fields. Configuration and connected traffic are activated, activated attacks such as Identity Attacks can occur. Identity Attack is an attack that uses the identity of a device such as a MAC Address to manipulate or retrieve data. Spoofing is one type of attack, which can be used to generate or generate other attacks such as Denial of Service, and also Man in the Middle attack. In this study, port security methods are used to prevent identity attacks. security port. From the results of the research that has been done, the port security method can overcome the Identity Attack attack. The study was conducted using Mininet as a network simulator and POX as a controller.

Keywords: SDN, Identity Attacks, Spoofing, port security, Ryu, mininet.