Abstract

Mobile Ad-hoc Network (MANET) is a set of wireless devices that communicate with each other using wireless channels without network infrastructure. The nodes in the Mobile Adhoc Network function as hosts when requesting or providing information from other nodes in the network. One of the attacks on Mobile Adhoc Network is Greyhole Attack. In this attack, the attacker will pretend to be a good node to manipulate the packets to be sent. It causes the target to believe that the packet forwarded by the fake node is true. This attack can lead to loss of data and even disconnect the communication network. What is done in this final project is to simulate the impact of the damage of Greyhole attack on Mobile Adhoc Network By using Gaussian Distribution to generate node. Testing is done under different scenarios and uses 1 Malicious node. Based on the test results, the highest damage impact lies in the malicious center node 38 position in the coordinates (-5 to 0 for the x-axis, and -5 to 0 for the y-axis) by 76%.

Keywords: *Mobile Adhoc Network*,*Greyhole Attack*, Gaussian Distribution.