Abstract

MANET is infrastructure less and independent network which consists various nodes. MANET is mobile ad hoc network having ability to connect various mobile nodes to each other. These nodes use wireless links to communicate with each other. In this paper, main aiming to present practical evaluation of efficient method for preventing and detecting Sybil attack. Sybil attack is an attack which uses several identities at a time and increases lot of misjudgments among the nodes of a network or it may use identity of other legitimate nodes present in the network and creates false expression of that node in the network. Like this, it disturbs the communication among the nodes of the network. This kind of attack results into major information loss and hence misinterpretation in the network, it also minimizes the trustworthiness among mobile nodes, data routing disturbing with aim of dropping them in n/w etc. There are many methods previously presented by different researchers with aim of mitigating such attacks from MANET with their own advantages and disadvantages. this paper is introducing the study of Intrusion Response System for lightweight Sybil attack using DSR in MANET. The practical analysis of this work is done using Network Simulator (NS2) by measuring throughput, end to end delay
and packet delivery ratio under different network conditions.

References


Index Terms

Computer Science Security

Keywords

MANET, Sybil attack, DSR, NS2, Throughput, end to end delay, PDR