Detection and Elimination of Gray Hole Attack using Dynamic Credit based Technique in MANET

Abstract

Mobile ad hoc network (MANET) is constructed from various number of nodes, that can be move anywhere and at any time, without any infrastructure. MANETs use wireless connections to connect various networks, without any fixed infrastructure or any centralized administration. Due to this nature of MANET, Ad hoc networks are open to different types of security attacks. The gray hole attack is the attack performed by the node called malicious node, which forwards and drops the selective packets only. Here, in this paper, we have proposed an algorithm which detects and eliminates the gray hole attack using Dynamic Credit Based Technique using AODV routing protocol. The gray hole node is detected based on credit value, which increases or decreases. The simulation results are compared with different situation and attempt to improve the performance of AODV protocol for the parameters like Packet Delivery Fraction, Throughput and End-to-End delay.

References

Index Terms

Computer Science

Networks
Keywords