Abstract

A Mobile ad-hoc network (MANET) is a latest and emerging Research topic among researchers. The reason behind the popularity of MANET is flexibility and independence of network infrastructure. MANET have some unique characteristic like dynamic network topology, limited power and limited bandwidth for communication. MANET has more challenge compare to any other conventional network. The most common routing protocols used in ad-hoc network are AODV (ad-hoc on demand distance vector) protocol. AODV protocol is threatened by "Black Hole" attack. In black hole attack a malicious node advertise itself as having the shortest path to the destination node. To combat with black hole attack so many solutions provided by researchers. In this article we study the routing security issue of MANET and analyze in detail one type of attack the "Black Hole" attack. We also provide a detailed list of solutions which protect the black hole in MANET's.
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Index Terms

Computer Science

Security

Keywords

MANET Security Black hole attack AODV and Packet dropping.