The Study and Comparison between AODV, OLSR and DSR Routing Protocols and Attacks in Mobile Ad-Hoc Network

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Abstract

Wireless network consist of wireless node lacking any direction. Due to current of mobility of nodes, the network is easily personated by numerous attacks. In 1980’s Movable ad hoc networks have been extensively research for many years. Ad hoc network is a compilation of nodes that is associated throughout a wireless medium forming speedily changing topologies. Mobile ad hoc networks are an infrastructure-less, dynamic network consisting of a collection of wireless mobile nodes that converse with each other with no the use of any centralized authority. Due to its original characteristics, such as wireless standard, self-motivated topology, dispersed collaboration, MANETs is susceptible to different kinds of safety attacks like worm hole, black hole, hastening attack etc. The communications less & active nature of these system demands new set of networking strategy to be implement in order to offer capable end to end announcement. The study various routing protocols used in networking, performance comparison of DSR, OLSR and AODV is done. Various performance parameters measured are Throughput, End to End Delay and Packet Delivery Fraction for CBR traffic over UDP connection.
References


Index Terms

Computer Science
Networks

Keywords
Wireless Network, Mobile ad hoc network, black hole attack, wormhole attack and features