Security has become a primary concern in order to provide protected communication between mobile nodes in a hostile environment. Unlike the wired networks, the unique characteristics of MANET pose a number of non-trivial challenges to security design. In MANETs, routing protocols are necessary to find specific paths between the source and the destination. MANET routing protocols are categorized into three types named as proactive, reactive, hybrid. To Provide Connectivity, Wireless MANETs take the help of multi-hop peer to peer routing. The MANETs topology change with time. MANETs have applications in several military and civilian areas. This paper contains comparison related to five different types of routing protocols named as AODV, DSDV, DSR, ZRP and OLSR. In MANET, these protocols are used for active routing under the several scenarios which plays a complex role in places where wired networks neither present nor economical to play. My objective was to implement Five routing protocols named above by using NS2 and compared their performances under different Parameters and metrics by using Attack and without attack.
References


Index Terms

Computer Science  Security

Keywords
MANETs, DSR, DSDV, ZRP, AODV, OLSR, NS2, Routing Protocols, Black Hole Attack, AODV-BH, DSDV-BH, DSR-BH, ZRP-BH, OLSR-BH