

International Journal of Computer Science and Mobile Computing



A Monthly Journal of Computer Science and Information Technology

ISSN 2320-088X

IJCSMC, Vol. 3, Issue. 3, March 2014, pg.1024 – 1030

RESEARCH ARTICLE

Security against DDoS Attacks in MANETs

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ABSTRACT:

As mobile ad hoc network applications are deployed, security emerges as a central requirement. In MANET, routing attacks are particularly serious. In this paper, the state-of-the-art of security issues in MANET is examined. The wireless ad hoc networks are highly susceptible to distributed denial of service (DDoS) attacks because of its unique characteristics such as open network architecture, shared wireless medium and no centralized controller and infrastructure. In this paper, the DOS attack, a severe attack in ad hoc networks that is particularly challenging to defend network's routing susceptibility is introduced and the network performance under two types of attacks, flooding attack and black hole attack that can easily be employed against the MANETS is analyzed and some methods are discussed to overcome these methods.

Keywords: MANET, DDOS, Flooding attack, Black hole attack.

Full Text: <http://www.ijcsmc.com/docs/papers/March2014/V3I3201499b39.pdf>