

Detection and Prevention of Sinkhole Attack on Zone Routing Protocol (ZRP) in MANET

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Abstract—Mobile Ad-hoc Network (MANET) is a kind of wireless network. A Wireless ad-hoc network is a temporary network with no network infrastructure. The nodes communicate with each other, they co-operate by forwarding data packets to other nodes in the network. Thus the nodes find a path to the destination node using routing protocols. Due to the security vulnerabilities of the routing protocols, wireless ad-hoc networks are unprotected to attacks of the malicious nodes. One of these attacks is the Sinkhole Attack. Sinkhole attack is a kind of routing attack in MANET. A sinkhole node tries to attract all the network packets to it-self from all neighboring nodes. This paper focuses on to detect and prevent sinkhole node. By using a hybrid detection technique which combines the advantages of both reactive and proactive routing Protocol to detect the black hole node. It also shows performance of ZRP.

Keyword— MANET, ZRP, Reactive, Proactive, Sinkhole.

1. INTRODUCTION

A Mobile Ad hoc Networks (MANET) is a system of wireless mobile nodes that can freely and dynamically self-organize in arbitrary and temporary network topologies without the need of a wired backbone or a centralized administration. People and devices can be seamlessly internetworked in areas without any preexisting communication infrastructure or when the use of such infrastructure requires wireless extension.

Mobile ad hoc networking offers unique benefits and versatility for certain environments and applications. First, since they have no infrastructure including base station as prerequisites, they can be created and used anytime, anywhere. Second , such networks can be intrinsically fault resilient, for they do not operate under the limitations of a fixed topology. Indeed, since all nodes are allowed to be mobile, the composition of such networks is necessarily time varying. Addition and deletion of nodes occurs only by interactions with other nodes; no other is involved.

Such perceived advantages elicited immediate interest in the early days among military, police, and rescue agencies in the use of such networks, especially under disorganized or hostile

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