REPUTATION BASED SCHEME FOR ROUTING PROTOCOLS TO HANDLE THE SECURITY ISSUES IN MANETs

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ABSTRACT

In the field of mobile ad hoc networks routing protocols, there are lot of problems to be tackled such as Quality of service, power awareness, routing optimization and security issues. In the proposed work, the main interest is in the security issues related to routing protocols in MANETs. Different existing routing protocols can use the reputation based scheme to improve the security issues. Then more interest in secure routing protocols and their different mechanism in defending against the malicious, compromised and selfish nodes in the mobile ad hoc network is presented. All the secure routing protocols do not account for selfish nodes whether by detecting or isolating them from the network. Therefore, the discusses how to make the Authenticated Routing for Ad Hoc Networks secure routing protocol capable of defending itself against authenticated selfish nodes participating in the mobile ad hoc network. In the upcoming paper, a discussion of a novel conjectural-based scheme to detect and defend against authenticated selfish nodes' attacks in MANETs built upon the routing protocol is presented.

KEYWORDS: Reputation Systems, Routing Protocols, Manets