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RESEARCH ARTICLE

SECURITY ISSUES: THE BIG CHALLENGE IN MANET

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Abstract— In recent years Mobile ad-hoc network (MANET) is one of the most promising fields for research and development of wireless network. As the popularity of mobile device and wireless networks significantly increased over the past years, wireless ad-hoc networks has now become one of the most vibrant and active field of communication and networks. Due to severe challenges, the special features of MANET bring this technology great opportunistic together. Owe to the vulnerable nature of the mobile ad hoc network, there are numerous security threats that disturb the development of it. We first analyze the main vulnerabilities in the mobile ad hoc. In this paper, we discuss security issues and their current solutions in the mobile ad hoc network. Networks, which have made it much easier to suffer from attacks than the traditional wired network. Then we discuss the security criteria of the mobile ad hoc network and present the main attack types that exist in it. Finally we survey the current security solutions for the mobile ad hoc network. Owe to the vulnerable nature of the mobile ad hoc network, there are numerous security threats that disturb the development of it. We first analyse the main vulnerabilities in the mobile ad hoc. In this paper, we discuss security issues and their current solutions in the mobile ad hoc network. Networks, which have made it much easier to suffer from attacks than the traditional wired network. Then we discuss the security criteria of the mobile ad hoc network and present the main attack types that exist in it. Finally we survey the current security solutions for the mobile ad hoc network.

Keywords— Mobile Ad Hoc Network; Security; IDS; Secure Routing; Authentication

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