Abstract

In MANET is a collection of autonomous system of mobile nodes connected with each other using wireless link and each node communicates with each other using wireless link that are within its transmission range. The network is unbounded by any fixed infrastructure or any central authority. The dynamic topology and open nature makes the Mobile Ad Hoc Network more vulnerable to security threats. The success rate of MANET highly depends on the confidence in the security shown by the users. Wormhole attack is one such security threat at network layer which causes routing disruption. The attacker at one point in the network records the packet and forwards it through a high speed tunnel to the other attacker present at distant location giving an false impression to nodes in both the network that they are immediate neighbors. This paper presents a study on wormhole attack and various existing techniques to detect and prevent wormhole attack in MANET.

References

The Study of Wormhole Attack in Mobile Ad Hoc Network

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Index Terms

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