Abstract

The Wireless network is attracting users as well as researchers because of aspects like, ease of access, easy and quick to setup, and freedom from wires and cables. It is of two types, the Infrastructure-based wireless network, such as WLANs (Wireless Local Area Networks); And the Infrastructure-less wireless networks, such as Ad Hoc network. The Ad hoc network is a network which can be setup in-a-minute without any infrastructure. There are two types of ad hoc network namely, Mobile Ad-Hoc Network (MANET) and Vehicular Ad-Hoc Network
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(VANET). Routing in MANET is facing challenges like, Dynamic topology, low battery power. Whereas VANET has issues like, highly mobile nodes (high speed vehicles), Low communication range, periodic communication with road-side units, GPS communication for physical location of a vehicle, etc. This study focuses on routing in MANET and VANET, and found some issues and vulnerabilities in it. The attacker takes advantage of assumption of cooperativeness in Ad hoc network routing and launches an attack. As VANET inherits some of the properties of MANET, so both have some common attacks against routing. This study compares the routing protocols as well as the attacks on both MANET and VANET Scenarios.

References

Index Terms

Computer Science

Networks

Keywords

Ad Hoc Network  Attack  Manet  Routing  Vanet.