PERFORMANCE EVALUATION AND COMPARISON OF MULTIPATH ROUTING PROTOCOLS IN MOBILE ADHOC NETWORKS

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Abstract

A Mobile Ad-hoc Network (MANET) is a dynamic wireless network that can be formed without the need for any pre-existing infrastructure in which each node can act as a router. Routing protocols in mobile ad hoc network helps node to send and receive packets. Multi-path routing achieves load balancing and is more resilient to route failures. Recently, numerous multi-path routing protocols have been proposed for wireless mobile ad hoc networks. In this paper, our focus is to study multipath routing protocols from Reactive (AOMDV) and Pro active (OLSR) routing protocols. In this paper we evaluate performance of three types of routing protocols (AOMDV, OLSR) based on packet average throughput, average end to end to end delay, and packet delivery ratio. In this paper we will analyse and compare the performance of protocols using network simulator (ns2.34).

Keywords : MANETS, Multipath routing, AOMDV, OLSR, packet delivery ratio, average throughput, average jitter © http://www.ascent-journals.com