Abstract

The performance of different routing protocols has been widely studied. Many routing protocols for Ad-hoc networks have been proposed till now. Amongst the most popular ones are Ad-hoc on demand Distance Vector Routing Protocol (AODV), Dynamic Source Routing Protocols (DSR), and Destination Sequenced Distance Vector (DSDV). We study the performance of routing protocols when particular application exists in the network. A source node need to send large data files to the number of nodes, using File Transfer Protocol (FTP), while other non–specific application traffic also exists in the network. In this paper, we compare the performance of three routing protocols AODV, DSR (reactive), DSDV (proactive) under FTP traffic by varying number of relay nodes in terms of packet delivery ratio, end to end delay, normalized routing overhead. A Network Simulator (NS2) Tool is used to developed the scenario and evaluate them on the basis of performance metrics.

- An Ran, Qu Jinxin and ShaXuejun "MANET Routing Protocols Comparison for Composite Traffic Network" 2013 Third International Conference on Instrumentation, Measurement, Computer, Communication and Control, IEEE.
- M. L Sharma, Noor Fatima Rizvi, Nipun Sharma, Anu Malhan and Swati Sharma "Performance Evaluation of MANET Routing Protocols under CBR and FTP traffic classes;"

Index Terms

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