

Performance evaluation of the AODV protocol on the NS2 simulation software

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Abstract: In the context of the increasingly developing Internet of Things (IoT), evaluating the performance of wireless mobile protocols has become essential. This topic focuses on researching and evaluating the performance of the Ad hoc On-demand Distance Vector (AODV) protocol on the Network Simulator 2 (NS2) simulation platform. The objective of the study is to build and deploy a simulation system for experimentation, aiming to identify the advantages and limitations of AODV in mobile wireless networks. The approach includes theoretical research on the protocol and the design of simulation experiments. The expected result is to provide important information for selecting and applying the appropriate protocol in the Internet of Things.

Keywords: AODV, NS2, performance, simulation, IoT