

Load Balancing Algorithm Exploiting Overlay Techniques

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Abstract — In the article we propose network traffic load balancing mechanism, based on the identification of a single network- or transport-layer traffic flows. The principal idea of proposed algorithm is a dynamical observation of the distribution router links current load, with such routers combined in special overlay network. For the purpose of load balancing some single flows after reaching load threshold could be relocated to alternative routes. Proposed algorithm is able to make selective flow relocation taking into account QoS demands of each single flow.

Keyword— load balancing, P2P, overlay networks, traffic engineering, QoS.



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